

TABLE OF CONTENTS

1	TEST LABORATORY INFORMATION.....	3
2	DEVICE UNDER TEST	4
3	LTE AND NR INFORMATION	22
4	INTRODUCTION	24
5	DOSIMETRIC ASSESSMENT	25
6	DEFINITION OF REFERENCE POINTS	26
7	TEST CONFIGURATION POSITIONS	27
8	RF EXPOSURE LIMITS	31
9	FCC MEASUREMENT PROCEDURES.....	33
10	RF CONDUCTED POWERS.....	39
11	SYSTEM VERIFICATION.....	110
12	SAR DATA SUMMARY	119
13	POWER DENSITY DATA SUMMARY	155
14	SAR MEASUREMENT VARIABILITY	157
15	ADDITIONAL TESTING PER FCC GUIDANCE	159
16	EQUIPMENT LIST.....	165
17	MEASUREMENT UNCERTAINTIES.....	167
18	CONCLUSION.....	169
19	REFERENCES	170

APPENDIX A:	SAR TEST PLOTS
APPENDIX B:	SAR DIPOLE VERIFICATION PLOTS
APPENDIX C:	PROBE AND DIPOLE CALIBRATION CERTIFICATES
APPENDIX D:	SAR TISSUE SPECIFICATIONS
APPENDIX E:	MULTI-TX AND ANTENNA SAR CONSIDERATIONS
APPENDIX F:	POWER REDUCTION VERIFICATION
APPENDIX G:	SAR SYSTEM VALIDATION
APPENDIX H:	LTE AND NR LOWER BANDWIDTH RF CONDUCTED POWERS
APPENDIX I:	RU SAR EXCLUSION
APPENDIX J:	DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS

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FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 2 of 171

REV 22.0
03/30/2022

1 TEST LABORATORY INFORMATION

1.1 Introduction

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

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	
Measurement system No.	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
	
Measurement system No.	S1, S2, S3, S5

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 3 of 171

REV 22.0
03/30/2022

2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
NTN Band n255	Data	1629 - 1658 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz
WPT	N/A	110 kHz - 145 kHz

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 4 of 171

REV 22.0
03/30/2022

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

2.2.1 Time-Averaged Algorithm

This Device is enabled with the Qualcomm® Smart Transmit Plus, EFS v24 feature with antenna grouping and a *multi_tx_factor* of 1.27. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 0– Bibliography).

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

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for WWAN sub-6/WLAN/BT/NTN is 1.0dB for this EUT.

Based on Qualcomm guidance, for *multi_tx_factor* > 1.0, the reported SAR for each tech/band/ant/DSI is scaled using $\min\{P_{limit} * multi_tx_factor * 10^{(sub6 \text{ device uncertainty}/10)}, P_{max}\}$ in simultaneous transmission evaluations. For this device, the manufacturer declared a *multi_tx_factor* of 1.27.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 5 of 171

REV 22.0
03/30/2022

Exposure Scenario			Maximum Time-Up Output Power*	Body-worn, Hotspot, or	Head
				Plaglet 1g/10g	1g
Averaging Volume				10mm, 5mm, 0mm	0mm
Spacing				0	1
DSI					
Technology/Band	Antenna	Antenna Group	P _{max}	P _{lim}	P _{lim}
GSM 850	A	AG0	25.3	27.9	29.5
GSM 850	E	AG1	25.3	20.8	20.3
GSM 1900	A	AG0	22.1	17.8	27.1
UMTS 850	A	AG0	24.0	25.1	26.6
UMTS 850	E	AG1	24.0	21.0	20.0
UMTS 1750	A	AG0	23.0	16.0	25.4
UMTS 1900	A	AG0	23.0	17.0	24.2
LTE Band 71	A	AG0	24.0	26.3	26.4
LTE Band 71	E	AG1	24.0	22.0	21.0
LTE Band 12	A	AG0	24.0	26.1	26.8
LTE Band 12	E	AG1	24.0	22.0	21.0
LTE Band 13	A	AG0	24.0	24.5	26.4
LTE Band 13	E	AG1	24.0	21.0	21.0
LTE Band 14	A	AG0	24.0	24.3	27.9
LTE Band 14	E	AG1	24.0	21.0	21.0
LTE Band 26/5	A	AG0	24.0	25.2	26.9
LTE Band 26/5	E	AG1	24.0	21.0	21.0
LTE Band 66/4	A	AG0	23.5	17.0	26.1
LTE Band 66/4	F	AG1	23.5	20.0	18.0
LTE Band 25/2	A	AG0	23.5	17.0	25.9
LTE Band 25/2	F	AG1	23.5	20.0	18.0
LTE Band 30	A	AG0	22.0	19.0	31.7
LTE Band 30	F	AG1	22.0	19.0	17.0
LTE Band 7	B	AG0	23.0	18.0	30.2
LTE Band 7	F	AG1	23.0	19.0	16.5
LTE Band 41/38	B	AG0	22.0	17.0	29.8
LTE Band 41/38	F	AG1	22.0	18.5	16.0
LTE Band 48	F	AG1	20.0	17.0	14.5
NR Band n71	A	AG0	24.0	26.1	27.6
NR Band n71	E	AG1	24.0	22.0	21.0
NR Band n12	A	AG0	24.0	26.1	27.2
NR Band n12	E	AG1	24.0	22.0	21.0
NR Band n14	A	AG0	24.0	25.3	27.6
NR Band n14	E	AG1	24.0	21.0	21.0
NR Band n26/n5	A	AG0	24.0	25.8	27.3
NR Band n26/n5	E	AG1	24.0	21.0	21.0
NR Band n70	A	AG0	23.5	17.5	25.5
NR Band n70	F	AG1	23.5	20.0	18.0
NR Band n66	A	AG0	23.5	17.0	25.4
NR Band n66	F	AG1	23.5	20.0	18.0
NR Band n25/n2	A	AG0	23.5	17.0	25.6
NR Band n25/n2	F	AG1	23.5	20.0	18.0
NR Band n30	A	AG0	22.0	19.0	31.4
NR Band n30	F	AG1	22.0	19.0	17.0
NR Band n7	B	AG0	23.0	18.0	29.2
NR Band n7	F	AG1	23.0	19.0	16.5
NR Band n41 PC2 (Path 1)	F	AG1	26.3	18.5	16.0
NR Band n41 PC2 (Path 1)	B	AG0	22.0	17.0	21.0
NR Band n41 PC2 (Path 1)	E	AG1	24.5	15.5	14.5
NR Band n41 PC2 (Path 1)	D	AG0	21.0	15.5	14.5
NR Band n41 PC2 (Path 2)	B	AG0	26.0	17.0	21.0
NR Band n41 PC2 (Path 2)	F	AG1	21.0	18.5	16.0
NR Band n41 PC2 (Path 2)	D	AG0	24.5	15.5	14.5
NR Band n41 PC2 (Path 2)	E	AG1	21.5	15.5	14.5
NR Band n41 PC1.5 UL-MIMO	F	AG1	26.0	17.0	16.0
NR Band n41 PC1.5 UL-MIMO	B	AG0	26.0	17.0	16.0
NR Band n41 PC1.5	E	AG1	24.5	15.5	14.5
NR Band n41 PC1.5	D	AG0	24.5	15.5	14.5
NR Band n38 (Path 1)	F	AG1	24.0	18.5	16.0
NR Band n38 (Path 2)	B	AG0	24.0	17.0	21.0
NR Band n48	F	AG1	22.0	17.0	14.5
NR Band n48	C	AG0	17.5	12.5	10.0
NR Band n48	H	AG1	21.5	17.0	14.5
NR Band n48	D	AG0	17.0	12.5	10.0
NR Band n78 PC2	F	AG1	26.3	16.5	15.0
NR Band n78 PC2	C	AG0	21.5	11.5	10.0
NR Band n78 PC2	H	AG1	25.0	16.5	15.0
NR Band n78 PC2	D	AG0	21.0	11.5	10.0
NR Band n77 PC2	F	AG1	26.3	16.5	15.0
NR Band n77 PC2	C	AG0	21.5	11.5	10.0
NR Band n77 PC2	H	AG1	25.0	16.5	15.0
NR Band n77 PC2	D	AG0	21.0	11.5	10.0
NR Band n77 PC1.5 UL-MIMO	F	AG1	26.3	16.5	15.0
NR Band n77 PC1.5 UL-MIMO	C	AG0	26.0	16.5	15.0
NR Band n77 PC1.5	H	AG1	25.0	16.5	15.0
NR Band n77 PC1.5	D	AG0	25.0	16.0	15.0
NTN Band 255	F	AG1	21.5	20.5	N/A
2.4 GHz Bluetooth	G	AG1	18.4	18.6	20.3
2.4 GHz Bluetooth	I	AG1	17.4	20.6	19.2
2.4 GHz Bluetooth MIMO	G	AG1	13.9	20.1	19.8
2.4 GHz Bluetooth MIMO	I	AG1	12.0	18.2	18.0
2.4 GHz WiFi	G	AG1	19.0	19.7	15.0
2.4 GHz WiFi	I	AG1	19.0	19.9	15.0
2.4 GHz WiFi	MIMO	AG1	17.0	17.9	15.0
5 GHz WiFi	G	AG1	17.0	13.0	15.0
5 GHz WiFi	E	AG1	17.0	13.0	15.0
5 GHz WiFi	MIMO	AG1	17.0	13.0	15.0
6 GHz WiFi	G	AG1	16.0	11.0	15.0
6 GHz WiFi	E	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 GMSK, TDD, or OFDM modulation schemes (e.g. GSM, LTE TDD, WLAN, BT).

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 6 of 171

REV 22.0
03/30/2022

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.

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT/NTN technology, band, and DSI is the minimum of (" P_{limit} EFS" and "Maximum tune up output power P_{max} ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

2.3 Nominal and Maximum Output Power Specifications

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

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

2.3.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Antenna A										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
P_{max}	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 850										
Antenna E										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
P_{max}	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	31.0	31.0	28.0	26.2	25.0	28.0	26.0	24.0	23.0
	Nominal	30.0	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	30.5	30.5	27.5	25.7	24.5	28.0	26.0	24.0	23.0
	Nominal	29.5	29.5	26.5	24.7	23.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Antenna A										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
P_{max}	Max Allowed Power	30.5	30.5	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	28.0	28.0	25.0	23.2	22.0	27.0	25.0	23.0	22.0
	Nominal	27.0	27.0	24.0	22.2	21.0	26.0	24.0	22.0	21.0
DSI = 1 (Head)	Max Allowed Power	30.5	30.5	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.0	26.5	24.5	26.0	24.0	22.0	21.0

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 7 of 171

UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Head)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power (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
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
DSI = 1 (Head)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
UMTS Band 4 (1750 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	17.0	16.0	16.0	16.0
	Nominal	16.0	15.0	15.0	15.0
DSI = 1 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
UMTS Band 2 (1900 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	18.0	17.0	17.0	17.0
	Nominal	17.0	16.0	16.0	16.0
DSI = 1 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 8 of 171

REV 22.0
03/30/2022

Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 0 (Body-Worn, Hotspot, or Phablet)	DSI = 1 (Head)
LTE Band 71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 71	E	Max Allowed Power	25.0	23.0	22.0
		Nominal	24.0	22.0	21.0
LTE Band 12	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 12	E	Max Allowed Power	25.0	23.0	22.0
		Nominal	24.0	22.0	21.0
LTE Band 13	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 13	E	Max Allowed Power	25.0	22.0	22.0
		Nominal	24.0	21.0	21.0
LTE Band 14	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 14	E	Max Allowed Power	25.0	22.0	22.0
		Nominal	24.0	21.0	21.0
LTE Band 26/5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 26/5	E	Max Allowed Power	25.0	22.0	22.0
		Nominal	24.0	21.0	21.0
LTE Band 66/4	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
LTE Band 66/4	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
LTE Band 25/2	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
LTE Band 25/2	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
LTE Band 30	A	Max Allowed Power	23.0	20.0	23.0
		Nominal	22.0	19.0	22.0
LTE Band 30	F	Max Allowed Power	23.0	20.0	18.0
		Nominal	22.0	19.0	17.0
LTE Band 7	B	Max Allowed Power	24.0	19.0	24.0
		Nominal	23.0	18.0	23.0
LTE Band 7	F	Max Allowed Power	24.0	20.0	17.5
		Nominal	23.0	19.0	16.5
LTE Band 41/38	B	Max Allowed Power	25.0	20.0	25.0
		Nominal	24.0	19.0	24.0
LTE Band 41/38	F	Max Allowed Power	25.0	21.5	19.0
		Nominal	24.0	20.5	18.0
LTE Band 48	F	Max Allowed Power	23.0	20.0	17.5
		Nominal	22.0	19.0	16.5

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 9 of 171

REV 22.0
03/30/2022

Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 0 (Body-worn, Hotspot, or Phablet)	DSI = 1 (Head)
NR Band n71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n71	E	Max Allowed Power	25.0	23.0	22.0
		Nominal	24.0	22.0	21.0
NR Band n12	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n12	E	Max Allowed Power	25.0	23.0	22.0
		Nominal	24.0	22.0	21.0
NR Band n14	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n14	E	Max Allowed Power	25.0	22.0	22.0
		Nominal	24.0	21.0	21.0
NR Band n26/n5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n26/n5	E	Max Allowed Power	25.0	22.0	22.0
		Nominal	24.0	21.0	21.0
NR Band n70	A	Max Allowed Power	24.5	18.5	24.5
		Nominal	23.5	17.5	23.5
NR Band n70	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
NR Band n66	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
NR Band n66	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
NR Band n25/n2	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
NR Band n25/n2	F	Max Allowed Power	24.5	21.0	19.0
		Nominal	23.5	20.0	18.0
NR Band n30	A	Max Allowed Power	23.0	20.0	23.0
		Nominal	22.0	19.0	22.0
NR Band n30	F	Max Allowed Power	23.0	20.0	18.0
		Nominal	22.0	19.0	17.0
NR Band n7	B	Max Allowed Power	24.0	19.0	24.0
		Nominal	23.0	18.0	23.0
NR Band n7	F	Max Allowed Power	24.0	20.0	17.5
		Nominal	23.0	19.0	16.5
NR Band n41 PC2 (Path 1)	F	Max Allowed Power	27.3	19.5	17.0
		Nominal	26.3	18.5	16.0
NR Band n41 PC2 (Path 1)	B	Max Allowed Power	23.0	18.0	22.0
		Nominal	22.0	17.0	21.0
NR Band n41 PC2 (Path 1)	E	Max Allowed Power	25.5	16.5	15.5
		Nominal	24.5	15.5	14.5
NR Band n41 PC2 (Path 1)	D	Max Allowed Power	22.0	16.5	15.5
		Nominal	21.0	15.5	14.5
NR Band n41 PC2 (Path 2)	B	Max Allowed Power	27.0	18.0	22.0
		Nominal	26.0	17.0	21.0
NR Band n41 PC2 (Path 2)	F	Max Allowed Power	22.0	19.5	17.0
		Nominal	21.0	18.5	16.0
NR Band n41 PC2 (Path 2)	D	Max Allowed Power	25.5	16.5	15.5
		Nominal	24.5	15.5	14.5
NR Band n41 PC2 (Path 2)	E	Max Allowed Power	22.5	16.5	15.5
		Nominal	21.5	15.5	14.5
NR Band n41 PC1.5 UL-MIMO	F	Max Allowed Power	27.0	18.0	17.0
		Nominal	26.0	17.0	16.0
NR Band n41 PC1.5 UL-MIMO	B	Max Allowed Power	27.0	18.0	17.0
		Nominal	26.0	17.0	16.0
NR Band n41 PC1.5	E	Max Allowed Power	25.5	16.5	15.5
		Nominal	24.5	15.5	14.5
NR Band n41 PC1.5	D	Max Allowed Power	25.5	16.5	15.5
		Nominal	24.5	15.5	14.5
NR Band n38 (Path 1)	F	Max Allowed Power	25.0	19.5	17.0
		Nominal	24.0	18.5	16.0
NR Band n38 (Path 2)	B	Max Allowed Power	25.0	18.0	22.0
		Nominal	24.0	17.0	21.0
NR Band n48	F	Max Allowed Power	23.0	18.0	15.5
		Nominal	22.0	17.0	14.5
NR Band n48	C	Max Allowed Power	18.5	13.5	11.0
		Nominal	17.5	12.5	10.0
NR Band n48	H	Max Allowed Power	22.5	18.0	15.5
		Nominal	21.5	17.0	14.5
NR Band n48	D	Max Allowed Power	18.0	13.5	11.0
		Nominal	17.0	12.5	10.0
NR Band n78 PC2	F	Max Allowed Power	27.3	17.5	16.0
		Nominal	26.3	16.5	15.0
NR Band n78 PC2	C	Max Allowed Power	22.5	12.5	11.0
		Nominal	21.5	11.5	10.0
NR Band n78 PC2	H	Max Allowed Power	26.0	17.5	16.0
		Nominal	25.0	16.5	15.0
NR Band n78 PC2	D	Max Allowed Power	22.0	12.5	11.0
		Nominal	21.0	11.5	10.0
NR Band n77 PC2	F	Max Allowed Power	27.3	17.5	16.0
		Nominal	26.3	16.5	15.0
NR Band n77 PC2	C	Max Allowed Power	22.5	12.5	11.0
		Nominal	21.5	11.5	10.0
NR Band n77 PC2	H	Max Allowed Power	26.0	17.5	16.0
		Nominal	25.0	16.5	15.0
NR Band n77 PC2	D	Max Allowed Power	22.0	12.5	11.0
		Nominal	21.0	11.5	10.0
NR Band n77 PC1.5 UL-MIMO	F	Max Allowed Power	27.3	17.5	16.0
		Nominal	26.3	16.5	15.0
NR Band n77 PC1.5 UL-MIMO	C	Max Allowed Power	27.0	17.5	16.0
		Nominal	26.0	16.5	15.0
NR Band n77 PC1.5	H	Max Allowed Power	26.0	17.5	16.0
		Nominal	25.0	16.5	15.0
NR Band n77 PC1.5	D	Max Allowed Power	26.0	17.0	16.0
		Nominal	25.0	16.0	15.0

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 10 of 171

REV 22.0
03/30/2022

2.3.2 NTN Satellite Output Power

Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 0 (Body-worn, Hotspot, or Phablet)	DSI = 1 (Head)
NTN Band 255	F	Max Allowed Power	24.0	23.0	N/A
		Nominal	23.0	22.0	N/A

2.3.3 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

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

Band	SSD n 255												SSD n 255												SSD n 255													
	Antenna G												Antenna E												Antenna H													
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	20.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0

The below table is applicable in the following conditions:

- DSI=1 (RCV)

SSD n 11 Modulated From Output Power in dBm																																			
Band	SSD n 11												SSD n 11												SSD n 11										
	Antenna 1												Antenna 2												Antenna 3										
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	
2.4 GHz WLAN	18.0	17.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0

2.3.4 5 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Mode / Band	5G NR T1 Modem (Frame Output Power = 0 dBm)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	SSB0																SSB0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
	Antenna G								Antenna E								Antenna H								SSB0 + WMM0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	A		B		C		D		E		F		G		H		I		J		K		L		M		N		O		P		Q		R		S		T		U		V		W		X		Y		Z																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 11 of 171



The below table is applicable in the following conditions:

- DSI=1 (Head)

EUI-64	Band	IEEE 802.11 Modulated Output Power (mW)																															
		SSB																SSB in MIMO															
		Antenna G								Antenna E								MIMO															
		a		b		c		d		e		f		g		h		i		j		k		l		m		n		o			
Maximum / Nominal Power		Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm		
5 GHz WPI (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	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	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	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	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0		
5 GHz WPI (40MHz 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	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	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	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	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0		
5 GHz WPI (80MHz 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	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0		
	UNII-2A					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
	UNII-2C					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
	UNII-3					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
5 GHz WPI (160MHz BW)	UNII-1					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
	UNII-2A					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
	UNII-2C					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		
	UNII-3					16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0	15.5	14.5	15.5	14.5			16.0	15.0		

The below table is applicable in the following conditions:

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

Model / Nominal Power		IEEE 802.11 Modulated Output Power (mW)																																			
		SSB												SSB												SSB in MIMO											
		Antenna G												Antenna E												MIMO											
		a		b		c		d		e		f		g		h		i		j		k		l		m		n		o							
Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm								
5 GHz WPI (20MHz BW)	UNII-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2A	13.0	12.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
5 GHz WPI (40MHz BW)	UNII-1			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2A			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2C			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-3			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
5 GHz WPI (80MHz BW)	UNII-1			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2A					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2C					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-3					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
5 GHz WPI (160MHz BW)	UNII-1					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2A					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-2C					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								
	UNII-3					14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0								

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 12 of 171

2.3.5 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- P_{max}

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5
		ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5
	UNII-6	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	UNII-7	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	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			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			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5
	UNII-6			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-8			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5
6 GHz WiFi (160MHz BW) - LPI	UNII-5			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-6			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-8			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
6 GHz WiFi (320MHz BW) - LPI	UNII-5					17.0	16.0					17.0	16.0					17.0	16.0
	UNII-6					17.0	16.0					17.0	16.0					17.0	16.0
	UNII-7					17.0	16.0					17.0	16.0					17.0	16.0
	UNII-8					17.0	16.0					17.0	16.0					17.0	16.0

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-7	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5
6 GHz WiFi (40MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					17.0	16.0					17.0	16.0					17.0	16.0
	UNII-7					17.0	16.0					17.0	16.0					17.0	16.0

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	4.0	3.0	5.0	4.0	5.0	4.0	4.0	3.0	5.0	4.0	5.0	4.0	4.0	3.0	5.0	4.0	5.0	4.0
	UNII-6/7/8	5.0	4.0	6.0	5.0	6.0	5.0	5.0	4.0	6.0	5.0	6.0	5.0	5.0	4.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-6/7/8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6/7/8			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-6/7/8			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-6/7/8					12.0	11.0					12.0	11.0					12.0	11.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 13 of 171

REV 22.0
03/30/2022

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The below table is applicable in the following conditions:

- DSI=0 (Body-worn or Phablet)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5
		ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5
	UNII-6	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	UNII-7	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	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
6 GHz WiFi (80MHz BW) - LPI	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
	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
6 GHz WiFi (160MHz BW) - LPI	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
	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
6 GHz WiFi (320MHz BW) - LPI	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
	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
6 GHz WiFi (20MHz BW) - SP	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
	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
6 GHz WiFi (40MHz BW) - SP	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
	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
6 GHz WiFi (80MHz BW) - SP	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
	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
6 GHz WiFi (160MHz BW) - SP	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
	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
6 GHz WiFi (320MHz BW) - SP	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
	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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 14 of 171

The below table is applicable in the following conditions:

- DSI=1 (Head)

		IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5	9.0	8.0	9.5	8.5	9.5	8.5
		ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5	ch. 2: 7.5	6.5
	UNII-6	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	UNII-7	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0	9.0	8.0	10.0	9.0	10.0	9.0
	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			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
6 GHz WiFi (80MHz BW) - LPI	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
	UNII-5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5
	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
6 GHz WiFi (160MHz BW) - LPI	UNII-8			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5
	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
6 GHz WiFi (320MHz BW) - LPI	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
	UNII-5					16.0	15.0					16.0	15.0					16.0	15.0
	UNII-6					16.0	15.0					16.0	15.0					16.0	15.0
	UNII-7					16.0	15.0					16.0	15.0					16.0	15.0
	UNII-8					16.0	15.0					16.0	15.0					16.0	15.0
		IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-7	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					16.0	15.0					16.0	15.0					16.0	15.0
	UNII-7					16.0	15.0					16.0	15.0					16.0	15.0
		IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna G						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	4.0	3.0	5.0	4.0	5.0	4.0	4.0	3.0	5.0	4.0	5.0	4.0	4.0	3.0	5.0	4.0	5.0	4.0
	UNII-6/7/8	5.0	4.0	6.0	5.0	6.0	5.0	5.0	4.0	6.0	5.0	6.0	5.0	5.0	4.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0
	UNII-6/7/8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6/7/8			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-6/7/8			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-6/7/8					12.0	11.0					12.0	11.0					12.0	11.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 15 of 171

2.3.6 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

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

Mode	Data Rate	Modulated Output Power (in dBm)							
		Single Antenna				Each Chain in Dual Mode		Each Chain in Dual Mode	
		Antenna G		Antenna I		Antenna G		Antenna I	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	20.0	19.0	19.0	18.0	15.0	14.0	14.0	13.0
Bluetooth EDR	2Mbps	17.0	16.0	16.0	15.0	13.0	12.0	10.5	9.5
Bluetooth EDR	3Mbps	17.0	16.0	16.0	15.0	13.0	12.0	10.5	9.5
Bluetooth LE	1Mbps	20.0	19.0	19.0	18.0	15.5	14.5	13.5	12.5
Bluetooth LE	2Mbps	20.0	19.0	19.0	18.0	15.5	14.5	13.5	12.5
Bluetooth LE	125kbps	11.5	10.5	11.5	10.5	N/A	N/A	N/A	N/A
Bluetooth LE	500kbps	11.5	10.5	11.5	10.5	N/A	N/A	N/A	N/A

2.4 DUT Antenna Locations

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

Table 2-1
Device Edges/Sides for SAR Testing

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

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

2.5 Near Field Communications (NFC) Antenna

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

2.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 16 of 171

REV 22.0
03/30/2022

Table 2-2
Simultaneous Transmission Scenarios

[illegible]

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 17 of 171

1. SISO represents 2.4 GHz WLAN/BT transmission on Ant G or Ant I, and 5/6 GHz transmission on Ant G or Ant E.
2. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
3. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or 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. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
13. LTE + 5G NR FR2 and 5G NR1 + 5G NR FR2 scenarios are limited to combinations with anchor bands as shown in the NR FR2 checklist.
14. UWB was evaluated for Head, Body-worn, and Phablet based on expected usage conditions.
15. WPT and NFC was evaluated for phablet based on expected usage conditions.
16. NB NTN-IoT only transmits only when the device is set to satellite mode and does not transmit with any other radios simultaneously.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, 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 G, 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 5/6 GHz
- c) Up to 20 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 4KQAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for 2.4 GHz Bluetooth Antenna I, 2.4 GHz Bluetooth MIMO, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 18 of 171

REV 22.0
03/30/2022



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

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

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

(B) Licensed Transmitter(s)

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

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

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

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

Per FCC KDB Publication 648474 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 supports LTE Carrier Aggregation (CA) for LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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

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).

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 19 of 171

REV 22.0
03/30/2022

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

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 0 – Bibliography) and the Multi-Tx and Antenna SAR Considerations Appendix.

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

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

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

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

2.8 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 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 2025 TCB Workshop Notes (Dynamic Antenna Tuning)
- October 2019 TCB Workshop Notes (IEEE 802.11ax)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes (6-8 GHz)
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

2.9 Device Serial Numbers

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 20 of 171

REV 22.0
03/30/2022

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2.10 Bibliography

Report Type	Report Serial Number
PD Part 1 Test Report	1M2508250078-04.A3L
PD Part 0 Test Report	
RF Exposure Part 2 Test Report	1M2508250078-03.A3L
RF Exposure Compliance Summary Report	1M2508250078-05.A3L
RF Exposure Part 0 Test Report	1M2508250078-02.A3L

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 21 of 171

REV 22.0
03/30/2022

3 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71: 665.5 - 695.5 MHz				
	LTE Band 12: 699.7 - 715.3 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 14: 780.5 - 795.5 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 30: 2307.5 - 2312.5 MHz				
	LTE Band 7: 2502.5 - 2567.5 MHz				
	LTE Band 41: 2498.5 - 2587.5 MHz				
	LTE Band 38: 2572.5 - 2617.5 MHz				
	LTE Band 48: 3552.5 - 3697.5 MHz				
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
	665.5 (133147)	680.5 (133297)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23029)	707.5 (23095)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	707.5 (23095)	711 (23130)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	(N/A)	782 (23230)	782 (23230)	(N/A)	
LTE Band 14: 5 MHz	790.5 (23305)	789 (23330)	789 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	(N/A)	793 (23330)	793 (23330)	(N/A)	
LTE Band 26: 1.4 MHz	814.7 (26697)	831.5 (26865)	831.5 (26865)	848.3 (27033)	
LTE Band 26: 3 MHz	815.5 (26705)	831.5 (26865)	831.5 (26865)	847.5 (27025)	
LTE Band 26: 5 MHz	816.5 (26715)	831.5 (26865)	831.5 (26865)	846.5 (27015)	
LTE Band 26: 10 MHz	819 (26740)	831.5 (26865)	831.5 (26865)	844 (26990)	
LTE Band 26: 15 MHz	821.5 (26765)	831.5 (26865)	831.5 (26865)	841.5 (26965)	
LTE Band 5: 1.4 MHz	824.7 (20407)	836.5 (20525)	836.5 (20525)	848.3 (20643)	
LTE Band 5: 3 MHz	825.5 (20415)	836.5 (20525)	836.5 (20525)	847.5 (20635)	
LTE Band 5: 5 MHz	826.5 (20425)	836.5 (20525)	836.5 (20525)	846.5 (20625)	
LTE Band 5: 10 MHz	829 (20450)	836.5 (20525)	836.5 (20525)	844 (20600)	
LTE Band 66: 1.4 MHz	1710.7 (131979)	1745 (132322)	1745 (132322)	1779.3 (132665)	
LTE Band 66: 3 MHz	1711.5 (131987)	1745 (132322)	1745 (132322)	1778.5 (132657)	
LTE Band 66: 5 MHz	1712.5 (131997)	1745 (132322)	1745 (132322)	1777.5 (132647)	
LTE Band 66: 10 MHz	1715 (132022)	1745 (132322)	1745 (132322)	1775 (132622)	
LTE Band 66: 15 MHz	1717.5 (132047)	1745 (132322)	1745 (132322)	1772.5 (132597)	
LTE Band 66: 20 MHz	1720 (132072)	1745 (132322)	1745 (132322)	1770 (132572)	
LTE Band 4: 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4: 3 MHz	1711.5 (19965)	1732.5 (20175)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4: 5 MHz	1712.5 (19975)	1732.5 (20175)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4: 10 MHz	1715 (20000)	1732.5 (20175)	1732.5 (20175)	1750 (20350)	
LTE Band 4: 15 MHz	1717.5 (20025)	1732.5 (20175)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4: 20 MHz	1720 (20050)	1732.5 (20175)	1732.5 (20175)	1745 (20300)	
LTE Band 25: 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25: 3 MHz	1851.5 (26055)	1882.5 (26365)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25: 5 MHz	1852.5 (26065)	1882.5 (26365)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25: 10 MHz	1855 (26090)	1882.5 (26365)	1882.5 (26365)	1910 (26640)	
LTE Band 25: 15 MHz	1857.5 (26115)	1882.5 (26365)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25: 20 MHz	1860 (26140)	1882.5 (26365)	1882.5 (26365)	1905 (26590)	
LTE Band 2: 1.4 MHz	1850.7 (18607)	1880 (18900)	1880 (18900)	1909.3 (19193)	
LTE Band 2: 3 MHz	1851.5 (18615)	1880 (18900)	1880 (18900)	1908.5 (19185)	
LTE Band 2: 5 MHz	1852.5 (18625)	1880 (18900)	1880 (18900)	1907.5 (19175)	
LTE Band 2: 10 MHz	1855 (18650)	1880 (18900)	1880 (18900)	1905 (19150)	
LTE Band 2: 15 MHz	1857.5 (18675)	1880 (18900)	1880 (18900)	1902.5 (19125)	
LTE Band 2: 20 MHz	1860 (18700)	1880 (18900)	1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	(N/A)	2310 (27710)	2310 (27710)	(N/A)	
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2535 (21100)	2560 (21350)	
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)
LTE Band 38: 5 MHz	2572.5 (27775)	2595 (38000)	2595 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)	2595 (38000)	2595 (38000)	2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)	2595 (38000)	2595 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)	2595 (38000)	2595 (38000)	2610 (38150)	
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	(N/A)	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	(N/A)	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	(N/A)	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(N/A)	3646.7 (56207)	3690 (56640)
UE Category	UL UE Cat 18, DL UE Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 5.2.3-6.2.5? (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 17. 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 17 Features are not supported: Relay, HeNet, Enhanced MIMO, eCIC, eMBMS, Wi-Fi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 22 of 171

REV 22.0
03/30/2022

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Frequency Range of each VHF transmission band	NR Information		Frequency Range	
	Channel Number	Frequency (MHz)	Channel Number	Frequency (MHz)
Channel 1	NR Band 1-1	655.5 (1311.0)	655.5 (1311.0)	655.5 (1311.0)
	NR Band 1-2	656.5 (1313.0)	656.5 (1313.0)	656.5 (1313.0)
	NR Band 1-3	657.5 (1315.0)	657.5 (1315.0)	657.5 (1315.0)
	NR Band 1-4	658.5 (1317.0)	658.5 (1317.0)	658.5 (1317.0)
	NR Band 1-5	659.5 (1319.0)	659.5 (1319.0)	659.5 (1319.0)
	NR Band 1-6	660.5 (1321.0)	660.5 (1321.0)	660.5 (1321.0)
	NR Band 1-7	661.5 (1323.0)	661.5 (1323.0)	661.5 (1323.0)
	NR Band 1-8	662.5 (1325.0)	662.5 (1325.0)	662.5 (1325.0)
	NR Band 1-9	663.5 (1327.0)	663.5 (1327.0)	663.5 (1327.0)
	NR Band 1-10	664.5 (1329.0)	664.5 (1329.0)	664.5 (1329.0)
Channel 2	NR Band 2-1	665.5 (1331.0)	665.5 (1331.0)	665.5 (1331.0)
	NR Band 2-2	666.5 (1333.0)	666.5 (1333.0)	666.5 (1333.0)
	NR Band 2-3	667.5 (1335.0)	667.5 (1335.0)	667.5 (1335.0)
	NR Band 2-4	668.5 (1337.0)	668.5 (1337.0)	668.5 (1337.0)
	NR Band 2-5	669.5 (1339.0)	669.5 (1339.0)	669.5 (1339.0)
	NR Band 2-6	670.5 (1341.0)	670.5 (1341.0)	670.5 (1341.0)
	NR Band 2-7	671.5 (1343.0)	671.5 (1343.0)	671.5 (1343.0)
	NR Band 2-8	672.5 (1345.0)	672.5 (1345.0)	672.5 (1345.0)
	NR Band 2-9	673.5 (1347.0)	673.5 (1347.0)	673.5 (1347.0)
	NR Band 2-10	674.5 (1349.0)	674.5 (1349.0)	674.5 (1349.0)
Channel 3	NR Band 3-1	675.5 (1351.0)	675.5 (1351.0)	675.5 (1351.0)
	NR Band 3-2	676.5 (1353.0)	676.5 (1353.0)	676.5 (1353.0)
	NR Band 3-3	677.5 (1355.0)	677.5 (1355.0)	677.5 (1355.0)
	NR Band 3-4	678.5 (1357.0)	678.5 (1357.0)	678.5 (1357.0)
	NR Band 3-5	679.5 (1359.0)	679.5 (1359.0)	679.5 (1359.0)
	NR Band 3-6	680.5 (1361.0)	680.5 (1361.0)	680.5 (1361.0)
	NR Band 3-7	681.5 (1363.0)	681.5 (1363.0)	681.5 (1363.0)
	NR Band 3-8	682.5 (1365.0)	682.5 (1365.0)	682.5 (1365.0)
	NR Band 3-9	683.5 (1367.0)	683.5 (1367.0)	683.5 (1367.0)
	NR Band 3-10	684.5 (1369.0)	684.5 (1369.0)	684.5 (1369.0)
Channel 4	NR Band 4-1	685.5 (1371.0)	685.5 (1371.0)	685.5 (1371.0)
	NR Band 4-2	686.5 (1373.0)	686.5 (1373.0)	686.5 (1373.0)
	NR Band 4-3	687.5 (1375.0)	687.5 (1375.0)	687.5 (1375.0)
	NR Band 4-4	688.5 (1377.0)	688.5 (1377.0)	688.5 (1377.0)
	NR Band 4-5	689.5 (1379.0)	689.5 (1379.0)	689.5 (1379.0)
	NR Band 4-6	690.5 (1381.0)	690.5 (1381.0)	690.5 (1381.0)
	NR Band 4-7	691.5 (1383.0)	691.5 (1383.0)	691.5 (1383.0)
	NR Band 4-8	692.5 (1385.0)	692.5 (1385.0)	692.5 (1385.0)
	NR Band 4-9	693.5 (1387.0)	693.5 (1387.0)	693.5 (1387.0)
	NR Band 4-10	694.5 (1389.0)	694.5 (1389.0)	694.5 (1389.0)
Channel 5	NR Band 5-1	695.5 (1391.0)	695.5 (1391.0)	695.5 (1391.0)
	NR Band 5-2	696.5 (1393.0)	696.5 (1393.0)	696.5 (1393.0)
	NR Band 5-3	697.5 (1395.0)	697.5 (1395.0)	697.5 (1395.0)
	NR Band 5-4	698.5 (1397.0)	698.5 (1397.0)	698.5 (1397.0)
	NR Band 5-5	699.5 (1399.0)	699.5 (1399.0)	699.5 (1399.0)
	NR Band 5-6	700.5 (1401.0)	700.5 (1401.0)	700.5 (1401.0)
	NR Band 5-7	701.5 (1403.0)	701.5 (1403.0)	701.5 (1403.0)
	NR Band 5-8	702.5 (1405.0)	702.5 (1405.0)	702.5 (1405.0)
	NR Band 5-9	703.5 (1407.0)	703.5 (1407.0)	703.5 (1407.0)
	NR Band 5-10	704.5 (1409.0)	704.5 (1409.0)	704.5 (1409.0)
Channel 6	NR Band 6-1	705.5 (1411.0)	705.5 (1411.0)	705.5 (1411.0)

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]

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 24 of 171

REV 22.0
03/30/2022

5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

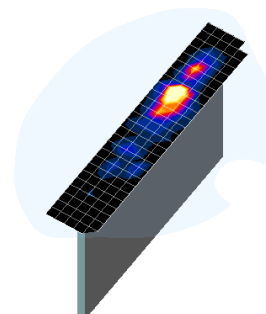


Figure 5-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 25 of 171

REV 22.0
03/30/2022

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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].

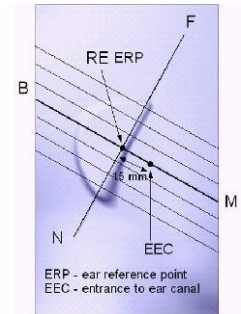


Figure 6-1
Close-Up Side view
of ERP

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

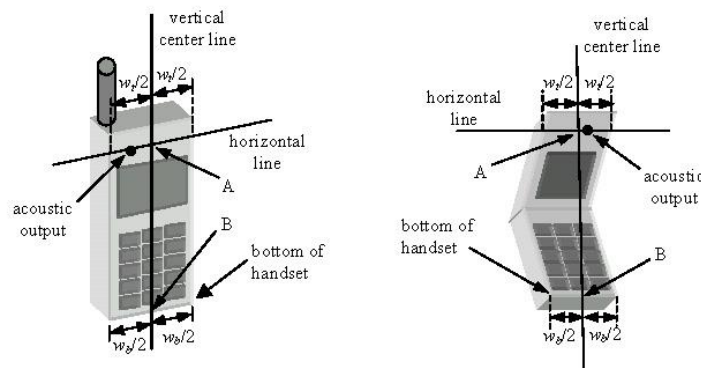


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 26 of 171

REV 22.0
03/30/2022

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.

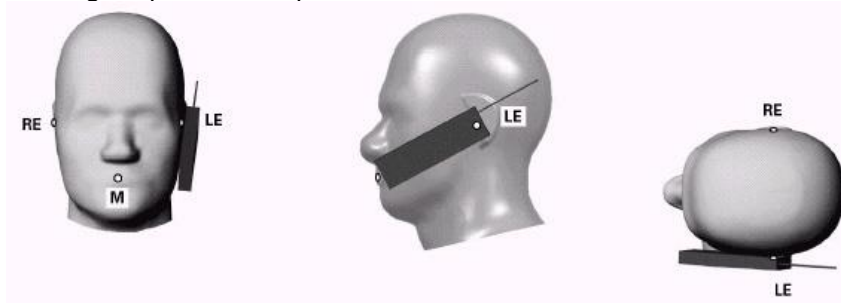


Figure 7-1 Front, Side and Top View of Cheek Position

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).

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 27 of 171

REV 22.0
03/30/2022

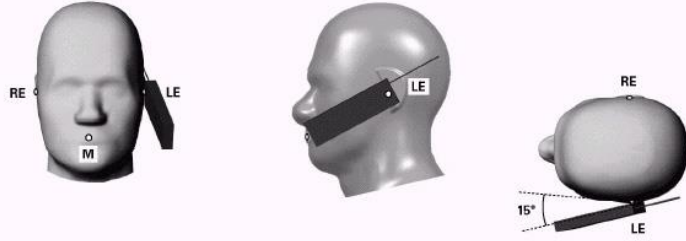


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

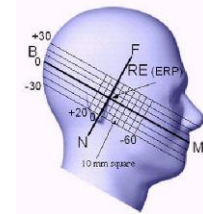


Figure 7-3 Side view w/ relevant markings

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.

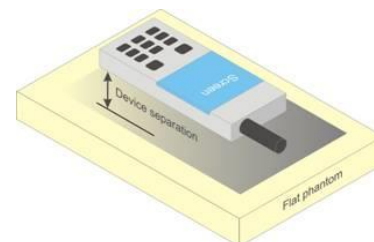


Figure 7-4 Sample Body-Worn Diagram

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 28 of 171

REV 22.0
03/30/2022



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

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

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

7.6 Extremity Exposure Configurations

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

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

7.7 Wireless Router Configurations

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

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

7.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ 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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 29 of 171

REV 22.0
03/30/2022

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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 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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 30 of 171

REV 22.0
03/30/2022

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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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 31 of 171

REV 22.0
03/30/2022

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 32 of 171

REV 22.0
03/30/2022

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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 33 of 171

REV 22.0
03/30/2022

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).

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 34 of 171

REV 22.0
03/30/2022

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 35 of 171

REV 22.0
03/30/2022

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 36 of 171

REV 22.0
03/30/2022

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 37 of 171

REV 22.0
03/30/2022



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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 38 of 171

REV 22.0
03/30/2022

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.48	32.51	31.09	29.17	27.45	26.47	24.92	23.03	22.01
	190	32.50	32.10	31.05	29.25	27.53	26.73	25.00	23.04	21.79
	251	32.45	32.52	31.61	29.12	27.49	26.60	24.83	23.00	21.81
GSM 1900	512	26.34	26.13	23.23	21.42	20.25	25.33	23.20	21.29	20.15
	661	26.52	26.15	23.64	21.71	20.58	25.65	23.53	21.73	20.57
	810	26.77	26.45	23.52	21.81	20.47	25.68	23.60	21.53	20.59

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	23.28	23.31	24.90	24.74	24.27	17.27	18.73	18.60	18.83
	190	23.30	22.90	24.86	24.82	24.35	17.53	18.81	18.61	18.61
	251	23.25	23.32	25.42	24.69	24.31	17.40	18.64	18.57	18.63
GSM 1900	512	17.14	16.93	17.04	16.99	17.07	16.13	17.01	16.86	16.97
	661	17.32	16.95	17.45	17.28	17.40	16.45	17.34	17.30	17.39
	810	17.57	17.25	17.33	17.38	17.29	16.48	17.41	17.10	17.41

GSM 850	Frame	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900	Avg.Targets:	17.80	17.80	17.81	17.77	17.82	16.80	17.81	17.57	17.82

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT						Approved by: Technical Manager			
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset						Page 39 of 171			

REV 22.0
03/30/2022

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	29.10	29.11	27.57	25.68	23.82	25.33	23.20	21.29	20.15
	661	29.30	29.36	27.74	25.71	24.31	25.65	23.53	21.73	20.57
	810	29.12	29.21	27.67	25.89	23.95	25.68	23.60	21.53	20.59

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	19.90	19.91	21.38	21.25	20.64	16.13	17.01	16.86	16.97
	661	20.10	20.16	21.55	21.28	21.13	16.45	17.34	17.30	17.39
	810	19.92	20.01	21.48	21.46	20.77	16.48	17.41	17.10	17.41

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.99	30.01	26.69	25.02	23.83	27.01	24.98	22.40	21.72
	190	29.50	29.61	26.49	24.98	23.98	27.22	25.65	22.79	21.80
	251	29.77	30.09	26.35	24.84	23.95	26.81	24.89	22.72	21.50

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	20.79	20.81	20.50	20.59	20.65	17.81	18.79	17.97	18.54
	190	20.30	20.41	20.30	20.55	20.80	18.02	19.46	18.36	18.62
	251	20.57	20.89	20.16	20.41	20.77	17.61	18.70	18.29	18.32

GSM 850	Frame Avg.Targets:	20.80	20.80	20.81	20.77	20.82	17.80	18.81	18.57	18.82
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FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 40 of 171

Table 10-4
Measured P_{limit} for DSI = 1 (Head) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.48	29.13	26.05	24.26	23.01	27.01	24.98	22.40	21.72
	190	29.17	29.11	26.35	24.37	23.31	27.22	25.65	22.79	21.80
	251	29.30	29.41	26.14	24.37	23.10	26.81	24.89	22.72	21.50

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	20.28	19.93	19.86	19.83	19.83	17.81	18.79	17.97	18.54
	190	19.97	19.91	20.16	19.94	20.13	18.02	19.46	18.36	18.62
	251	20.10	20.21	19.95	19.94	19.92	17.61	18.70	18.29	18.32

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

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

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



Figure 10-1
Power Measurement Setup

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 41 of 171

REV 22.0
03/30/2022

10.2 UMTS Conducted Powers

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.66	23.68	23.70	15.84	15.65	15.95	16.64	16.61	16.58	-
99		12.2 kbps AMR	23.69	23.71	23.73	15.80	15.73	15.93	16.67	16.93	16.75	-
6	HSDPA	Subtest 1	22.36	22.44	22.40	14.84	14.71	14.90	15.72	15.59	15.53	0
6		Subtest 2	22.38	22.41	22.38	14.81	14.75	14.87	15.62	15.60	15.58	0
6		Subtest 3	21.84	21.91	21.92	14.28	14.23	14.40	15.14	15.08	15.06	0.5
6		Subtest 4	21.83	21.91	21.90	14.31	14.24	14.39	15.10	15.10	15.03	0.5
6	HSUPA	Subtest 1	22.78	22.90	22.71	15.07	15.11	15.23	16.05	16.04	16.12	0
6		Subtest 2	20.74	20.83	20.70	13.07	13.14	13.21	14.02	14.10	14.11	2
6		Subtest 3	21.70	21.83	21.71	14.08	14.12	14.17	15.02	15.07	15.09	1
6		Subtest 4	20.74	20.85	20.74	13.10	13.15	13.19	13.99	14.09	14.05	2
6		Subtest 5	22.78	22.86	22.74	15.10	15.09	15.22	16.01	16.06	16.14	0
8	DC-HSDPA	Subtest 1	22.81	22.90	22.79	15.11	15.09	15.21	16.00	16.01	16.06	0
8		Subtest 2	22.75	22.89	22.75	15.08	15.13	15.19	15.98	16.09	16.10	0
8		Subtest 3	22.33	22.13	22.25	14.55	14.58	14.51	15.44	15.50	15.47	0.5
8		Subtest 4	22.23	22.36	22.22	14.44	14.54	14.43	15.38	14.55	15.51	0.5

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.40	22.25	22.46	22.25	22.20	22.19	-
99		12.2 kbps AMR	22.38	22.31	22.63	22.20	22.16	22.21	-
6	HSDPA	Subtest 1	21.40	21.28	21.51	21.21	21.18	21.16	0
6		Subtest 2	21.37	21.26	21.49	21.22	21.19	21.19	0
6		Subtest 3	20.91	20.78	20.97	20.71	20.70	20.69	0.5
6		Subtest 4	20.90	20.77	20.96	20.70	20.66	20.70	0.5
6	HSUPA	Subtest 1	22.07	22.03	22.10	21.70	21.77	21.83	0
6		Subtest 2	20.09	19.99	19.97	19.96	19.81	19.73	2
6		Subtest 3	20.88	20.72	21.00	20.98	20.92	20.87	1
6		Subtest 4	19.98	19.94	20.02	19.78	19.79	19.87	2
6		Subtest 5	22.10	22.01	21.98	21.78	21.98	21.91	0
8	DC-HSDPA	Subtest 1	22.03	22.01	22.10	21.98	21.93	21.89	0
8		Subtest 2	22.09	22.05	21.97	21.78	21.83	21.88	0
8		Subtest 3	21.23	21.19	21.10	21.08	21.02	20.98	0.5
8		Subtest 4	21.14	21.20	21.33	20.79	20.77	20.87	0.5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT		Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset		Page 42 of 171

REV 22.0
03/30/2022

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.80	20.94	20.77	-
99		12.2 kbps AMR	20.85	21.04	20.79	-
6	HSDPA	Subtest 1	19.56	19.67	19.55	0
6		Subtest 2	19.45	19.68	19.56	0
6		Subtest 3	18.93	19.01	18.92	0.5
6		Subtest 4	18.88	18.88	18.98	0.5
6	HSUPA	Subtest 1	19.58	19.61	19.53	0
6		Subtest 2	17.43	17.55	17.66	2
6		Subtest 3	18.67	18.43	18.36	1
6		Subtest 4	17.58	17.63	17.60	2
6		Subtest 5	19.69	19.53	19.61	0
8	DC-HSDPA	Subtest 1	19.94	19.92	19.87	0
8		Subtest 2	19.85	19.89	19.88	0
8		Subtest 3	19.42	19.39	19.29	0.5
8		Subtest 4	19.41	19.35	19.38	0.5

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	19.93	19.98	19.84	-
99		12.2 kbps AMR	19.94	19.99	19.88	-
6	HSDPA	Subtest 1	19.06	19.00	18.98	0
6		Subtest 2	19.04	19.05	18.99	0
6		Subtest 3	18.55	18.49	18.47	0.5
6		Subtest 4	18.57	18.56	18.51	0.5
6	HSUPA	Subtest 1	19.06	19.08	18.99	0
6		Subtest 2	17.04	17.07	17.01	2
6		Subtest 3	18.04	18.05	17.96	1
6		Subtest 4	16.94	16.99	16.91	2
6		Subtest 5	18.96	18.98	18.93	0
8	DC-HSDPA	Subtest 1	18.78	18.95	18.88	0
8		Subtest 2	19.08	19.05	18.87	0
8		Subtest 3	18.56	18.53	18.48	0.5
8		Subtest 4	18.55	18.56	18.51	0.5

DC-HSDPA considerations

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

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



Figure 10-2
Power Measurement Setup

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 43 of 171

REV 22.0
03/30/2022

10.3 LTE Conducted Powers

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

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

LTE Carrier Aggregation Notes:

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

10.3.1 LTE Band 71

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

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297.0 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.88	0	0
	1	50	23.54		0
	1	99	23.52		0
	50	0	22.51	0-1	1
	50	25	22.49		1
	50	50	22.40		1
	100	0	22.49		1
16QAM	1	0	22.88	0-1	1
	1	50	22.82		1
	1	99	22.51		1
	50	0	21.59	0-2	2
	50	25	21.48		2
	50	50	21.43		2
	100	0	21.51		2
64QAM	1	0	21.70	0-2	2
	1	50	21.66		2
	1	99	21.57		2
	50	0	20.50	0-3	3
	50	25	20.54		3
	50	50	20.39		3
	100	0	20.50		3
256QAM	1	0	18.71	0-5	5
	1	50	18.54		5
	1	99	18.34		5
	50	0	18.53		5
	50	25	18.49		5
	50	50	18.29		5
	100	0	18.44		5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 44 of 171

REV 22.0
03/30/2022

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

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297.0 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.59	0	0
	1	50	21.66		0
	1	99	21.50		0
	50	0	21.58	0-1	0
	50	25	21.54		0
	50	50	21.37		0
	100	0	21.44		0
16QAM	1	0	21.77	0-1	0
	1	50	21.55		0
	1	99	21.53		0
	50	0	21.56	0-2	0
	50	25	21.47		0
	50	50	21.48		0
	100	0	21.48		0
64QAM	1	0	21.83	0-2	0
	1	50	21.72		0
	1	99	21.72		0
	50	0	20.82	0-3	1
	50	25	20.74		1
	50	50	20.60		1
	100	0	20.76		1
256QAM	1	0	19.11	0-5	3
	1	50	18.69		3
	1	99	18.61		3
	50	0	18.74		3
	50	25	18.69		3
	50	50	18.63		3
	100	0	18.72		3

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

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297.0 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.35	0	0
	1	50	20.84		0
	1	99	20.42		0
	50	0	20.39	0-1	0
	50	25	20.30		0
	50	50	20.17		0
	100	0	20.34		0
16QAM	1	0	20.82	0-1	0
	1	50	20.68		0
	1	99	20.52		0
	50	0	20.35	0-2	0
	50	25	20.41		0
	50	50	20.30		0
	100	0	20.32		0
64QAM	1	0	20.80	0-2	0
	1	50	20.53		0
	1	99	20.38		0
	50	0	20.46	0-3	0
	50	25	20.30		0
	50	50	20.24		0
	100	0	20.36		0
256QAM	1	0	18.85	0-5	2
	1	50	18.65		2
	1	99	18.40		2
	50	0	18.63		2
	50	25	18.58		2
	50	50	18.40		2
	100	0	18.51		2

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 45 of 171

10.3.2 LTE Band 12

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.48	0	0
	1	25	23.62		0
	1	49	23.10		0
	25	0	22.39	0-1	1
	25	12	22.34		1
	25	25	22.37		1
	50	0	22.37		1
16QAM	1	0	22.54	0-1	1
	1	25	22.91		1
	1	49	22.40		1
	25	0	21.45	0-2	2
	25	12	21.37		2
	25	25	21.31		2
	50	0	21.45		2
64QAM	1	0	21.51	0-2	2
	1	25	21.64		2
	1	49	21.40		2
	25	0	20.44	0-3	3
	25	12	20.40		3
	25	25	20.35		3
	50	0	20.39		3
256QAM	1	0	18.51	0-5	5
	1	25	18.44		5
	1	49	18.16		5
	25	0	18.38		5
	25	12	18.34		5
	25	25	18.37		5
	50	0	18.35		5

Table 10-13
LTE Band 12 Ant E Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.59	0	0
	1	25	21.66		0
	1	49	21.50		0
	25	0	21.58	0-1	0
	25	12	21.54		0
	25	25	21.37		0
	50	0	21.44		0
16QAM	1	0	21.77	0-1	0
	1	25	21.55		0
	1	49	21.53		0
	25	0	21.56	0-2	0
	25	12	21.47		0
	25	25	21.48		0
	50	0	21.48		0
64QAM	1	0	21.83	0-2	0
	1	25	21.72		0
	1	49	21.72		0
	25	0	20.82	0-3	1
	25	12	20.74		1
	25	25	20.60		1
	50	0	20.76		1
256QAM	1	0	19.11	0-5	3
	1	25	18.69		3
	1	49	18.61		3
	25	0	18.74		3
	25	12	18.69		3
	25	25	18.63		3
	50	0	18.72		3

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 46 of 171

REV 22.0
03/30/2022

Table 10-14
LTE Band 12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.40	0	0
	1	25	20.53		0
	1	49	20.40		0
	25	0	20.28	0-1	0
	25	12	20.35		0
	25	25	20.18		0
	50	0	20.32		0
16QAM	1	0	20.63	0-1	0
	1	25	20.13		0
	1	49	20.39		0
	25	0	20.28	0-2	0
	25	12	20.31		0
	25	25	20.26		0
	50	0	20.28		0
64QAM	1	0	20.59	0-2	0
	1	25	20.73		0
	1	49	20.26		0
	25	0	20.49	0-3	0
	25	12	20.30		0
	25	25	20.25		0
	50	0	20.27		0
256QAM	1	0	18.63	0-5	2
	1	25	18.49		2
	1	49	18.24		2
	25	0	18.61		2
	25	12	18.48		2
	25	25	18.52		2
	50	0	18.41		2

10.3.3 LTE Band 13

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

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.78	0	0
	1	25	23.36		0
	1	49	23.44		0
	25	0	22.60	0-1	1
	25	12	22.37		1
	25	25	22.31		1
	50	0	22.50		1
16QAM	1	0	22.67	0-1	1
	1	25	22.35		1
	1	49	22.93		1
	25	0	21.70	0-2	2
	25	12	21.52		2
	25	25	21.51		2
	50	0	21.56		2
64QAM	1	0	21.79	0-2	2
	1	25	21.60		2
	1	49	21.39		2
	25	0	20.71	0-3	3
	25	12	20.51		3
	25	25	20.48		3
	50	0	20.63		3
256QAM	1	0	18.69	0-5	5
	1	25	18.51		5
	1	49	18.35		5
	25	0	18.66		5
	25	12	18.48		5
	25	25	18.38		5
	50	0	18.51		5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 47 of 171

REV 22.0
03/30/2022

Table 10-16
LTE Band 13 Ant E Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.63	0	0
	1	25	20.29		0
	1	49	20.25		0
	25	0	20.50	0-1	0
	25	12	20.37		0
	25	25	20.26		0
	50	0	20.32		0
16QAM	1	0	20.42	0-1	0
	1	25	20.62		0
	1	49	20.45		0
	25	0	20.45	0-2	0
	25	12	20.33		0
	25	25	20.21		0
	50	0	20.39		0
64QAM	1	0	20.84	0-2	0
	1	25	20.45		0
	1	49	20.59		0
	25	0	20.41	0-3	0
	25	12	20.34		0
	25	25	20.13		0
	50	0	20.46		0
256QAM	1	0	18.83	0-5	2
	1	25	18.62		2
	1	49	18.54		2
	25	0	18.62		2
	25	12	18.60		2
	25	25	18.48		2
	50	0	18.54		2

10.3.4 LTE Band 14

Table 10-17
LTE Band 14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330.0 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.30	0	0
	1	25	23.38		0
	1	49	23.30		0
	25	0	22.39	0-1	1
	25	12	22.38		1
	25	25	22.38		1
	50	0	22.35		1
16QAM	1	0	22.73	0-1	1
	1	25	22.72		1
	1	49	22.32		1
	25	0	21.47	0-2	2
	25	12	21.48		2
	25	25	21.38		2
	50	0	21.46		2
64QAM	1	0	21.65	0-2	2
	1	25	21.62		2
	1	49	21.41		2
	25	0	20.46	0-3	3
	25	12	20.43		3
	25	25	20.36		3
	50	0	20.38		3
256QAM	1	0	18.63	0-5	5
	1	25	18.50		5
	1	49	18.25		5
	25	0	18.40		5
	25	12	18.39		5
	25	25	18.24		5
	50	0	18.33		5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 48 of 171

Table 10-18
LTE Band 14 Ant E Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330.0 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.83	0	0
	1	25	20.54		0
	1	49	20.47		0
	25	0	20.75	0-1	0
	25	12	20.72		0
	25	25	20.63		0
	50	0	20.72		0
16QAM	1	0	21.00	0-1	0
	1	25	20.99		0
	1	49	21.00		0
	25	0	20.82	0-2	0
	25	12	20.80		0
	25	25	20.69		0
	50	0	20.77		0
64QAM	1	0	20.96	0-2	0
	1	25	20.93		0
	1	49	20.83		0
	25	0	20.80	0-3	0
	25	12	20.82		0
	25	25	20.62		0
	50	0	20.71		0
256QAM	1	0	18.99	0-5	2
	1	25	19.00		2
	1	49	18.81		2
	25	0	18.96		2
	25	12	18.99		2
	25	25	18.85		2
	50	0	18.93		2

10.3.5 LTE Band 26

Table 10-19
LTE Band 26 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.49	0	0
	1	36	23.64		0
	1	74	23.75		0
	36	0	22.47	0-1	1
	36	18	22.40		1
	36	37	22.44		1
	75	0	22.40		1
16QAM	1	0	22.83	0-1	1
	1	36	22.92		1
	1	74	22.52		1
	36	0	21.46	0-2	2
	36	18	21.43		2
	36	37	21.44		2
	75	0	21.41		2
64QAM	1	0	21.54	0-2	2
	1	36	21.58		2
	1	74	21.54		2
	36	0	20.55	0-3	3
	36	18	20.40		3
	36	37	20.43		3
	75	0	20.41		3
256QAM	1	0	18.66	0-5	5
	1	36	18.54		5
	1	74	18.34		5
	36	0	18.47		5
	36	18	18.50		5
	36	37	18.36		5
	75	0	18.35		5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 49 of 171

REV 22.0
03/30/2022

Table 10-20
LTE Band 26 Ant E Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) - 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.30	0	0
	1	36	20.35		0
	1	74	20.36		0
	36	0	20.24	0-1	0
	36	18	20.25		0
	36	37	20.22		0
	75	0	20.09		0
16QAM	1	0	20.63	0-1	0
	1	36	20.44		0
	1	74	20.31		0
	36	0	20.22	0-2	0
	36	18	20.21		0
	36	37	20.22		0
	75	0	20.14		0
64QAM	1	0	20.36	0-2	0
	1	36	20.61		0
	1	74	20.13		0
	36	0	20.23	0-3	0
	36	18	20.21		0
	36	37	20.19		0
	75	0	20.08		0
256QAM	1	0	18.61	0-5	2
	1	36	18.60		2
	1	74	18.33		2
	36	0	18.49		2
	36	18	18.42		2
	36	37	18.34		2
	75	0	18.41		2

10.3.6 LTE Band 66

Table 10-21
LTE Band 66 (AWS) Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 66							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.65	16.82	16.59	0	0
	1	50	16.79	16.99	16.69		0
	1	99	16.45	16.52	16.76		0
	50	0	16.63	16.72	16.65	0-1	0
	50	25	16.63	16.67	16.60		0
	50	50	16.64	16.74	16.60		0
	100	0	16.59	16.64	16.57		0
16QAM	1	0	16.85	16.87	17.03	0-1	0
	1	50	16.70	16.75	16.62		0
	1	99	16.76	16.50	16.50		0
	50	0	16.67	16.75	16.64	0-2	0
	50	25	16.74	16.69	16.63		0
	50	50	16.68	16.74	16.71		0
	100	0	16.60	16.59	16.59		0
64QAM	1	0	16.72	16.83	17.07	0-2	0
	1	50	16.80	16.98	16.73		0
	1	99	16.65	16.67	16.51		0
	50	0	16.53	16.72	16.68	0-3	0
	50	25	16.66	16.64	16.60		0
	50	50	16.68	16.73	16.57		0
	100	0	16.64	16.70	16.60		0
256QAM	1	0	16.57	16.83	16.55	0-5	0
	1	50	16.72	16.98	16.86		0
	1	99	16.66	16.61	16.61		0
	50	0	16.61	16.70	16.72		0
	50	25	16.67	16.77	16.66		0
	50	50	16.66	16.72	16.56		0
	100	0	16.77	16.68	16.64		0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 50 of 171

Table 10-22
LTE Band 66 (AWS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.21	23.25	23.24	0	0
	1	50	23.48	23.27	23.18		0
	1	99	23.20	23.17	23.17		0
	50	0	22.01	22.13	22.07	0-1	1
	50	25	22.14	22.12	22.10		1
	50	50	22.07	22.11	21.99		1
	100	0	22.12	22.11	22.10	1	
16QAM	1	0	22.69	22.25	22.40	0-1	1
	1	50	22.13	22.32	22.33		1
	1	99	22.24	22.53	22.19		1
	50	0	21.06	21.13	21.10	0-2	2
	50	25	21.09	21.13	21.22		2
	50	50	20.99	21.21	21.08		2
	100	0	21.16	21.07	21.21	2	
64QAM	1	0	21.24	21.18	21.42	0-2	2
	1	50	21.38	21.28	21.30		2
	1	99	21.28	21.31	21.31		2
	50	0	20.02	20.17	20.13	0-3	3
	50	25	20.12	20.08	20.12		3
	50	50	20.06	20.12	20.07		3
	100	0	20.04	20.08	20.17	3	
256QAM	1	0	17.94	18.16	18.09	0-5	5
	1	50	18.23	18.26	18.30		5
	1	99	18.06	18.12	18.12		5
	50	0	18.02	18.16	18.07	5	
	50	25	18.08	18.12	18.14	5	
	50	50	18.05	18.20	18.07	5	
	100	0	18.05	18.07	18.09	5	

Table 10-23
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.04	19.19	19.74	0	0
	1	50	19.62	19.28	19.57		0
	1	99	19.58	19.29	19.97		0
	50	0	19.37	19.38	19.41	0-1	0
	50	25	19.25	19.41	19.33		0
	50	50	19.24	19.49	19.34		0
16QAM	100	0	19.31	19.43	19.29	0-1	0
	1	0	19.35	19.74	19.68		0
	1	50	19.84	19.65	19.47		0
	1	99	19.51	19.42	19.40	0-2	0
	50	0	19.36	19.45	19.36		0
	50	25	19.34	19.40	19.51		0
64QAM	50	50	19.28	19.53	19.35	0-2	0
	100	0	19.36	19.39	19.40		0
	1	0	19.35	19.58	19.64		0-3
	1	50	19.42	19.58	19.89	0	
	1	99	19.37	19.70	19.61	0	
	50	0	19.34	19.48	19.51	0	
256QAM	50	25	19.36	19.42	19.49	0-5	0
	50	50	19.29	19.51	19.40		0
	100	0	19.36	19.42	19.29		0
	1	0	18.07	18.09	18.31	0-5	1.5
	1	50	18.17	18.28	18.23		1.5
	1	99	18.17	18.22	17.98		1.5
50	0	18.11	18.16	18.15	1.5		
50	25	18.13	18.13	18.06	1.5		
50	50	18.08	18.20	18.00	1.5		
100	0	18.07	18.17	18.07	1.5		

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 51 of 171

Table 10-24
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.14	17.38	17.59	0	0
	1	50	17.38	17.71	17.58		0
	1	99	17.05	17.47	17.41		0
	50	0	17.28	17.49	17.48	0-1	0
	50	25	17.34	17.46	17.33		0
	50	50	17.34	17.47	17.37		0
16QAM	100	0	17.27	17.44	17.30	0	
	1	0	17.33	17.79	17.89	0-1	0
	1	50	17.29	17.61	17.50		0
	1	99	17.52	17.67	17.33		0
	50	0	17.30	17.46	17.87	0-2	0
	50	25	17.32	17.46	17.25		0
50	50	17.50	17.56	17.68	0		
64QAM	100	0	17.39	17.38	17.70	0	
	1	0	17.35	17.27	17.79	0-2	0
	1	50	17.29	18.11	17.59		0
	1	99	17.52	17.56	17.80		0
	50	0	17.29	17.50	17.45	0-3	0
	50	25	17.33	17.50	17.36		0
50	50	17.19	17.50	17.39	0		
256QAM	100	0	17.37	17.40	17.41	0	
	1	0	17.24	17.40	17.47	0-5	0
	1	50	17.50	17.64	17.59		0
	1	99	17.42	17.47	17.24		0
	50	0	17.29	17.48	17.35		0
	50	25	17.35	17.44	17.27		0
50	50	17.39	17.46	17.35	0		
	100	0	17.37	17.43	17.35	0	

10.3.7 LTE Band 25

Table 10-25
LTE Band 25 (PCS) Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	16.56	16.44	16.69	0	0
	1	50	16.71	16.42	16.46		0
	1	99	16.70	16.51	16.70		0
	50	0	16.61	16.49	16.48	0-1	0
	50	25	16.69	16.52	16.52		0
	50	50	16.62	16.53	16.55		0
16QAM	100	0	16.56	16.47	16.43	0-1	0
	1	0	17.00	16.68	16.56		0
	1	50	16.83	16.73	16.70		0
	1	99	16.81	16.64	16.58	0-2	0
	50	0	16.64	16.56	16.44		0
	50	25	16.60	16.56	16.55		0
64QAM	50	50	16.65	16.52	16.54	0-2	0
	100	0	16.57	16.49	16.45		0
	1	0	16.73	16.52	16.54		0
	1	50	16.77	16.72	16.90	0-2	0
	1	99	16.63	16.64	16.54		0
	50	0	16.73	16.55	16.44		0
256QAM	50	25	16.57	16.56	16.56	0-3	0
	50	50	16.66	16.50	16.52		0
	100	0	16.63	16.48	16.51		0
	1	0	16.73	16.53	16.48	0-5	0
	1	50	16.73	16.71	16.57		0
	1	99	16.42	16.51	16.51		0
50	0	16.70	16.50	16.43	0		
50	25	16.65	16.60	16.53	0		
50	50	16.55	16.49	16.56	0		

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 52 of 171

REV 22.0
03/30/2022

Table 10-26
LTE Band 25 (PCS) Ant A Measured P_{Max} for DSI = 1 (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	22.97	23.30	22.82	0	0
	1	50	23.23	23.21	22.96		0
	1	99	23.27	23.05	23.05		0
	50	0	22.19	21.93	21.97	0-1	1
	50	25	22.20	22.21	22.14		1
	50	50	22.08	22.01	22.08		1
	100	0	22.12	22.13	22.03		1
16QAM	1	0	22.46	22.19	22.06	0-1	1
	1	50	22.18	22.22	22.34		1
	1	99	22.07	22.31	22.10		1
	50	0	21.26	21.00	20.95	0-2	2
	50	25	21.20	21.02	21.15		2
	50	50	21.10	21.07	21.13		2
	100	0	21.13	21.01	21.03		2
64QAM	1	0	21.26	21.00	21.19	0-2	2
	1	50	21.26	21.14	21.39		2
	1	99	21.10	21.22	21.07		2
	50	0	20.13	20.03	19.95	0-3	3
	50	25	20.14	20.03	20.04		3
	50	50	20.03	19.92	20.04		3
	100	0	20.12	19.96	20.12		3
256QAM	1	0	18.21	18.12	18.07	0-5	5
	1	50	18.19	18.15	18.05		5
	1	99	17.90	17.92	17.99		5
	50	0	18.21	17.95	17.95		5
	50	25	18.12	18.05	17.98		5
	50	50	18.05	18.00	17.99		5
	100	0	18.04	17.92	18.07		5

Table 10-27
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	19.58	19.58	19.02	0	0
	1	50	19.31	19.68	19.46		0
	1	99	19.12	19.99	19.53		0
	50	0	19.51	19.47	19.37	0-1	0
	50	25	19.49	19.44	19.40		0
	50	50	19.46	19.46	19.39		0
	100	0	19.46	19.31	19.37	0	
16QAM	1	0	19.61	19.64	19.33	0-1	0
	1	50	19.53	19.29	19.88		0
	1	99	19.55	19.45	19.68		0
	50	0	19.57	19.43	19.36	0-2	0
	50	25	19.57	19.47	19.43		0
	50	50	19.51	19.49	19.41		0
	100	0	19.53	19.38	19.42	0	
64QAM	1	0	19.77	19.62	19.50	0-2	0
	1	50	19.70	19.91	19.44		0
	1	99	19.67	19.75	19.40		0
	50	0	19.53	19.44	19.32	0-3	0
	50	25	19.59	19.43	19.35		0
	50	50	19.51	19.52	19.40		0
	100	0	19.53	19.42	19.37	0	
256QAM	1	0	18.35	18.25	18.24	0-5	1.5
	1	50	18.41	18.16	18.21		1.5
	1	99	18.20	18.09	18.13		1.5
	50	0	18.27	18.18	18.09		1.5
	50	25	18.26	18.11	18.10		1.5
	50	50	18.18	18.14	18.01		1.5
	100	0	18.24	18.13	18.16		1.5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 53 of 171

Table 10-28
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI = 1 (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	17.60	17.27	17.27	0	0
	1	50	17.62	17.60	17.59		0
	1	99	17.61	17.35	17.35		0
	50	0	17.58	17.43	17.30	0-1	0
	50	25	17.48	17.55	17.45		0
	50	50	17.51	17.43	17.37		0
	100	0	17.57	17.38	17.42		0
16QAM	1	0	17.83	17.73	17.61	0-1	0
	1	50	17.74	17.52	17.48		0
	1	99	17.46	17.63	17.46		0
	50	0	17.55	17.55	17.41	0-2	0
	50	25	17.53	17.43	17.34		0
	50	50	17.59	17.55	17.36		0
	100	0	17.47	17.43	17.36		0
64QAM	1	0	17.84	17.54	17.69	0-2	0
	1	50	17.53	17.59	17.24		0
	1	99	17.72	17.56	17.53		0
	50	0	17.59	17.52	17.35	0-3	0
	50	25	17.57	17.40	17.44		0
	50	50	17.55	17.54	17.37		0
	100	0	17.51	17.39	17.42		0
256QAM	1	0	17.39	17.46	17.62	0-5	0
	1	50	17.79	17.59	17.28		0
	1	99	17.40	17.47	17.31		0
	50	0	17.59	17.42	17.37		0
	50	25	17.58	17.43	17.47		0
	50	50	17.49	17.32	17.36		0
	100	0	17.64	17.45	17.31		0

10.3.8 LTE Band 30

Table 10-29
LTE Band 30 Ant A Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.41	0	0
	1	25	18.38		0
	1	49	18.14		0
	25	0	18.46	0-1	0
	25	12	18.49		0
	25	25	18.38		0
	50	0	18.40		0
16QAM	1	0	18.67	0-1	0
	1	25	18.64		0
	1	49	18.60		0
	25	0	18.53	0-2	0
	25	12	18.56		0
	25	25	18.48		0
	50	0	18.46		0
64QAM	1	0	18.72	0-2	0
	1	25	18.56		0
	1	49	18.62		0
	25	0	18.49	0-3	0
	25	12	18.50		0
	25	25	18.42		0
	50	0	18.43		0
256QAM	1	0	16.48	0-5	2
	1	25	16.70		2
	1	49	16.35		2
	25	0	16.56		2
	25	12	16.49		2
	25	25	16.38		2
	50	0	16.52		2

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 54 of 171

REV 22.0
03/30/2022

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

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.40	0	0
	1	25	21.54		0
	1	49	21.04		0
	25	0	20.48	0-1	1
	25	12	20.52		1
	25	25	20.35		1
16QAM	50	0	20.42	0-1	1
	1	0	20.88		1
	1	25	20.88		1
	1	49	20.52	0-2	1
	25	0	19.42		2
	25	12	19.54		2
64QAM	25	25	19.50	0-2	2
	50	0	19.45		2
	1	0	19.67	0-2	2
	1	25	19.58		2
	1	49	19.54		2
	25	0	18.53	0-3	3
256QAM	25	12	18.55		3
	25	25	18.40		3
	50	0	18.49	0-5	3
	1	0	16.62		5
	1	25	16.74		5
	1	49	16.30		5
	25	0	16.55		5
	25	12	16.55		5
	25	25	16.48		5
	50	0	16.47		5

Table 10-31
LTE Band 30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.48	0	0
	1	25	18.39		0
	1	49	18.37		0
	25	0	18.53	0-1	0
	25	12	18.39		0
	25	25	18.36		0
16QAM	50	0	18.43	0-1	0
	1	0	18.59		0
	1	25	18.86		0
	1	49	18.63	0-2	0
	25	0	18.57		0
	25	12	18.51		0
64QAM	25	25	18.42	0-2	0
	50	0	18.57		0
	1	0	18.81	0-2	0
	1	25	18.75		0
	1	49	18.45		0
	25	0	18.55	0-3	0
256QAM	25	12	18.54		0
	25	25	18.34		0
	50	0	18.54	0-5	0
	1	0	16.83		2
	1	25	16.98		2
	1	49	16.62		2
	25	0	16.82		2
	25	12	16.68		2
	25	25	16.68		2
	50	0	16.75		2

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 55 of 171

REV 22.0
03/30/2022

Table 10-32
LTE Band 30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710.0 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.50	0	0
	1	25	16.54		0
	1	49	16.89		0
	25	0	16.77	0-1	0
	25	12	16.52		0
	25	25	16.54		0
	50	0	16.50		0
16QAM	1	0	16.75	0-1	0
	1	25	16.99		0
	1	49	16.70		0
	25	0	16.60	0-2	0
	25	12	16.53		0
	25	25	16.44		0
	50	0	16.70		0
64QAM	1	0	16.94	0-2	0
	1	25	16.65		0
	1	49	16.39		0
	25	0	16.66	0-3	0
	25	12	16.54		0
	25	25	16.42		0
	50	0	16.58		0
256QAM	1	0	16.61	0-5	0
	1	25	16.63		0
	1	49	16.36		0
	25	0	16.67		0
	25	12	16.52		0
	25	25	16.48		0
	50	0	16.29		0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 56 of 171

REV 22.0
03/30/2022

10.3.9 LTE Band 7

Table 10-33

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

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850.0 (2510.0 MHz)	21100.0 (2535.0 MHz)	21350.0 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.58	17.64	17.82	0	0
	1	50	17.80	18.10	17.82		0
	1	99	17.53	18.16	18.09		0
	50	0	17.53	17.53	17.75	0-1	0
	50	25	17.60	17.61	17.54		0
	50	50	17.50	17.81	17.55		0
16QAM	100	0	17.58	17.42	17.73	0-1	0
	1	0	17.80	17.77	17.88		0
	1	50	17.68	17.74	17.85		0
	1	99	17.49	17.63	17.83	0-2	0
	50	0	17.52	17.62	17.68		0
	50	25	17.66	17.52	17.68		0
64QAM	50	50	17.56	17.60	17.64	0-2	0
	100	0	17.61	17.52	17.72		0
	1	0	17.67	17.49	17.88		0-2
	1	50	17.67	17.69	17.82	0	
	1	99	17.95	17.65	17.59	0	
	256QAM	50	0	17.59	17.54	17.65	0-3
50		25	17.56	17.58	17.68	0	
50		50	17.61	17.61	17.55	0	
100		0	17.53	17.52	17.62	0-5	0
1		0	17.59	17.62	17.72		0
1		50	17.68	17.68	17.59		0
1	99	17.46	17.58	17.57	0		
50	0	17.51	17.60	17.74	0		
256QAM	50	25	17.59	17.53	17.64	0-5	0
	50	50	17.60	17.58	17.50		0
	100	0	17.57	17.57	17.66		0

Table 10-34

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

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850.0 (2510.0 MHz)	21100.0 (2535.0 MHz)	21350.0 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.29	22.71	22.68	0	0
	1	50	22.34	22.80	22.42		0
	1	99	22.59	22.76	22.51		0
	50	0	21.53	21.51	21.67	0-1	1
	50	25	21.62	21.49	21.64		1
	50	50	21.54	21.68	21.65		1
16QAM	1	0	21.68	21.69	21.89	0-1	1
	1	50	21.74	21.69	21.70		1
	1	99	21.66	21.62	21.54		1
	50	0	20.55	20.54	20.68	0-2	2
	50	25	20.58	20.58	20.70		2
	50	50	20.62	20.65	20.60		2
64QAM	100	0	20.61	20.52	20.70	0-2	2
	1	0	20.56	20.77	20.57		2
	1	50	20.71	20.75	20.61		2
	1	99	20.60	20.98	20.76	0-3	2
	50	0	19.59	19.55	19.73		3
	50	25	19.60	19.51	19.68		3
50	50	19.64	19.63	19.67	3		
256QAM	100	0	19.72	19.60	19.78	0-5	3
	1	0	17.58	17.62	17.83		5
	1	50	17.56	17.65	17.69		5
	1	99	17.50	17.63	17.77		5
	50	0	17.50	17.61	17.74		5
	50	25	17.62	17.60	17.68		5
	50	50	17.55	17.60	17.62	5	
	100	0	17.62	17.57	17.67	5	

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 57 of 171

REV 22.0
03/30/2022

Table 10-35
LTE Band 7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850.0 (2510.0 MHz)	21100.0 (2535.0 MHz)	21350.0 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.72	18.77	18.64	0	0
	1	50	18.61	18.78	18.63		0
	1	99	18.63	18.48	18.47		0
	50	0	18.59	18.60	18.44	0-1	0
	50	25	18.55	18.50	18.39		0
	50	50	18.50	18.41	18.16		0
	100	0	18.51	18.56	18.30		0
16QAM	1	0	18.72	18.60	18.63	0-1	0
	1	50	18.72	18.42	18.79		0
	1	99	18.59	18.52	18.48		0
	50	0	18.64	18.58	18.35	0-2	0
	50	25	18.66	18.50	18.42		0
	50	50	18.54	18.36	18.29		0
	100	0	18.67	18.43	18.36		0
64QAM	1	0	18.91	18.67	18.63	0-2	0
	1	50	18.78	18.68	18.69		0
	1	99	18.72	18.48	18.40		0
	50	0	18.69	18.59	18.43	0-3	0
	50	25	18.62	18.44	18.38		0
	50	50	18.55	18.42	18.27		0
	100	0	18.66	18.39	18.39		0
256QAM	1	0	17.94	17.96	17.73	0-5	1
	1	50	17.94	17.89	17.72		1
	1	99	17.78	17.54	17.48		1
	50	0	17.97	17.80	17.64		1
	50	25	17.98	17.68	17.58		1
	50	50	17.72	17.66	17.50		1
	100	0	17.91	17.64	17.61		1

Table 10-36
LTE Band 7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850.0 (2510.0 MHz)	21100.0 (2535.0 MHz)	21350.0 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.39	16.07	16.02	0	0
	1	50	16.54	16.19	16.01		0
	1	99	16.23	15.99	15.93		0
	50	0	16.23	16.17	16.00	0-1	0
	50	25	16.14	16.03	15.96		0
	50	50	16.05	16.04	15.86		0
	100	0	16.11	15.88	15.98		0
16QAM	1	0	16.23	16.10	16.27	0-1	0
	1	50	16.18	16.16	15.84		0
	1	99	16.31	15.84	16.12		0
	50	0	16.20	16.10	16.10	0-2	0
	50	25	16.27	15.99	15.97		0
	50	50	16.02	15.92	15.99		0
	100	0	16.19	15.93	16.08		0
64QAM	1	0	16.27	16.51	16.24	0-2	0
	1	50	16.30	15.88	16.27		0
	1	99	16.29	16.06	15.85		0
	50	0	16.29	16.12	16.15	0-3	0
	50	25	16.23	16.03	16.02		0
	50	50	16.05	15.95	15.96		0
	100	0	16.24	15.96	15.94		0
256QAM	1	0	16.23	16.28	16.21	0-5	0
	1	50	16.19	16.10	15.98		0
	1	99	15.98	15.90	15.93		0
	50	0	16.29	16.14	16.02		0
	50	25	16.05	15.87	16.11		0
	50	50	16.14	15.97	15.91		0
	100	0	16.21	15.99	16.06		0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 58 of 171

10.3.10 LTE Band 41

Table 10-37

LTE Band 41 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	18.78	18.74	18.97	19.33	18.81	0	0
	1	50	18.73	18.76	18.81	19.05	18.66		0
	1	99	18.71	18.77	18.67	18.86	18.42		0
	50	0	18.99	18.93	19.09	19.44	18.98	0-1	0
	50	25	18.96	19.00	19.06	19.37	18.92		0
	50	50	18.92	18.98	19.00	19.15	18.72		0
	100	0	18.93	18.97	19.07	19.32	18.92		0
16QAM	1	0	18.92	18.80	19.34	19.56	19.18	0-1	0
	1	50	18.97	19.17	19.11	19.41	19.11		0
	1	99	18.91	19.14	18.91	19.24	18.96		0
	50	0	19.04	18.90	19.04	19.40	19.02	0-2	0
	50	25	19.05	18.97	19.06	19.34	18.96		0
	50	50	18.92	18.96	18.95	19.13	18.78		0
	100	0	18.99	18.93	19.02	19.29	18.95		0
64QAM	1	0	18.99	18.84	19.34	19.52	18.92	0-2	0
	1	50	18.88	19.00	19.04	19.22	18.97		0
	1	99	18.97	18.81	18.73	18.89	18.59		0
	50	0	18.99	18.87	19.06	19.44	19.02	0-3	0
	50	25	18.97	19.00	19.09	19.35	18.93		0
	50	50	18.94	18.94	18.96	19.15	18.74		0
	100	0	18.95	18.92	19.05	19.29	18.91		0
256QAM	1	0	18.72	18.62	18.93	19.16	18.96	0-5	0
	1	50	18.84	18.85	18.77	19.20	18.72		0
	1	99	18.63	18.58	18.60	18.92	18.31		0
	50	0	18.84	18.68	18.85	19.21	18.87		0
	50	25	18.78	18.80	18.87	19.16	18.77		0
	50	50	18.67	18.71	18.79	18.96	18.61		0
	100	0	18.75	18.75	18.73	19.12	18.78		0

Table 10-38

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

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	23.69	23.52	23.75	24.08	23.64	0	0
	1	50	23.56	23.49	23.61	23.88	23.51		0
	1	99	23.51	23.45	23.47	23.62	23.26		0
	50	0	22.84	22.68	22.82	23.23	22.85	0-1	1
	50	25	22.76	22.78	22.88	23.15	22.79		1
	50	50	22.72	22.75	22.79	22.96	22.60		1
	100	0	22.78	22.73	22.84	23.10	22.75		1
16QAM	1	0	22.96	22.87	22.93	23.48	22.97	0-1	1
	1	50	22.78	22.89	22.86	23.26	22.85		1
	1	99	22.60	22.93	22.53	22.89	22.53		1
	50	0	21.88	21.73	21.88	22.22	21.87	0-2	2
	50	25	21.82	21.82	21.89	22.16	21.79		2
	50	50	21.71	21.78	21.79	22.01	21.62		2
	100	0	21.79	21.78	21.84	22.16	21.79		2
64QAM	1	0	22.00	21.78	21.97	22.31	21.75	0-2	2
	1	50	21.83	21.79	21.90	22.18	21.56		2
	1	99	21.69	21.67	21.92	21.78	21.43		2
	50	0	20.84	20.75	20.84	21.19	20.85	0-3	3
	50	25	20.83	20.82	20.87	21.16	20.79		3
	50	50	20.74	20.76	20.78	20.97	20.60		3
	100	0	20.81	20.77	20.86	21.17	20.79		3
256QAM	1	0	18.71	18.62	18.81	19.31	18.80	0-5	5
	1	50	18.66	18.73	18.86	19.10	18.62		5
	1	99	18.49	18.68	18.59	18.81	18.40		5
	50	0	18.79	18.65	18.87	19.18	18.80		5
	50	25	18.76	18.78	18.80	19.10	18.72		5
	50	50	18.70	18.69	18.75	18.93	18.58		5
	100	0	18.73	18.73	18.84	19.10	18.71		5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 59 of 171

REV 22.0
03/30/2022

Table 10-39
LTE Band 41 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	20.36	20.15	20.23	20.25	20.17	0	0
	1	50	20.23	20.08	20.13	20.10	20.04		0
	1	99	20.12	20.01	19.89	19.87	19.80		0
	50	0	20.46	20.30	20.31	20.39	20.37	0-1	0
	50	25	20.41	20.31	20.33	20.32	20.31		0
	50	50	20.35	20.19	20.22	20.19	20.16		0
	100	0	20.35	20.25	20.31	20.30	20.25		0
16QAM	1	0	20.60	20.46	20.46	20.65	20.34	0-1	0
	1	50	20.67	20.34	20.30	20.41	20.35		0
	1	99	20.50	20.29	20.02	20.15	20.25		0
	50	0	20.48	20.32	20.38	20.40	20.39	0-2	0
	50	25	20.46	20.27	20.42	20.34	20.37		0
	50	50	20.40	20.19	20.36	20.17	20.21		0
	100	0	20.41	20.28	20.35	20.33	20.33		0
64QAM	1	0	20.41	20.30	20.44	20.52	20.44	0-2	0
	1	50	20.41	20.24	20.53	20.28	20.23		0
	1	99	20.35	20.19	20.11	19.98	20.10		0
	50	0	20.51	20.30	20.38	20.43	20.40	0-3	0
	50	25	20.43	20.30	20.39	20.38	20.31		0
	50	50	20.39	20.19	20.25	20.22	20.16		0
	100	0	20.41	20.25	20.34	20.36	20.34		0
256QAM	1	0	18.89	18.63	18.85	18.96	18.87	0-5	1.5
	1	50	18.98	18.71	18.78	18.86	18.74		1.5
	1	99	18.70	18.44	18.55	18.53	18.48		1.5
	50	0	18.96	18.78	18.84	18.91	18.88		1.5
	50	25	18.93	18.79	18.90	18.86	18.80		1.5
	50	50	18.91	18.67	18.77	18.70	18.67		1.5
	100	0	18.90	18.73	18.84	18.84	18.82		1.5

Table 10-40
LTE Band 41 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	18.08	17.67	17.80	17.77	17.69	0	0
	1	50	17.84	17.53	17.56	17.56	17.54		0
	1	99	17.77	17.50	17.40	17.42	17.38		0
	50	0	18.00	17.81	17.89	17.88	17.86		0
	50	25	17.91	17.79	17.83	17.84	17.80	0-1	0
	50	50	17.92	17.71	17.75	17.65	17.64		0
	100	0	17.87	17.77	17.81	17.79	17.76		0
16QAM	1	0	18.01	17.75	18.00	17.98	17.91	0-1	0
	1	50	18.06	17.88	18.04	17.89	17.91		0
	1	99	18.05	17.81	17.63	17.76	17.46		0
	50	0	17.99	17.83	17.89	17.93	17.88	0-2	0
	50	25	17.93	17.78	17.91	17.87	17.80		0
	50	50	17.89	17.70	17.79	17.69	17.65		0
	100	0	17.89	17.76	17.85	17.84	17.81		0
64QAM	1	0	18.02	17.88	18.03	17.80	17.94	0-2	0
	1	50	17.97	17.77	17.78	17.73	17.90		0
	1	99	17.92	17.73	17.46	17.60	17.60		0
	50	0	18.06	17.83	17.85	17.85	17.86	0-3	0
	50	25	17.95	17.81	17.86	17.81	17.78		0
	50	50	17.94	17.72	17.72	17.67	17.66		0
	100	0	17.89	17.77	17.85	17.80	17.82		0
256QAM	1	0	17.94	17.70	17.85	17.82	17.86	0-5	0
	1	50	17.95	17.78	17.75	17.71	17.68		0
	1	99	17.68	17.53	17.53	17.47	17.51		0
	50	0	17.96	17.77	17.84	17.86	17.88		0
	50	25	17.91	17.75	17.88	17.83	17.76		0
	50	50	17.90	17.68	17.72	17.64	17.63		0
	100	0	17.87	17.72	17.82	17.81	17.78		0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 60 of 171

 REV 22.0
03/30/2022

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10.3.11 LTE Band 48

Table 10-41
LTE Band 48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	18.56	18.58	18.98	19.01	0	0
	1	50	18.53	18.51	18.93	18.98		0
	1	99	18.58	18.61	19.06	18.92		0
	50	0	18.63	18.68	19.12	19.12	0-1	0
	50	25	18.75	18.77	19.17	19.09		0
	50	50	18.71	18.73	19.12	19.06		0
	100	0	18.71	18.71	19.05	19.04		0
16QAM	1	0	18.64	18.67	18.99	19.01	0-1	0
	1	50	18.54	18.68	19.09	19.01		0
	1	99	18.60	18.61	19.09	18.94		0
	50	0	18.62	18.63	19.12	19.07	0-2	0
	50	25	18.71	18.74	19.14	19.13		0
	50	50	18.73	18.75	19.17	19.06		0
	100	0	18.73	18.72	19.11	19.06		0
64QAM	1	0	18.60	18.64	19.12	19.17	0-2	0
	1	50	18.67	18.73	19.07	19.08		0
	1	99	18.64	18.78	19.16	19.06		0
	50	0	18.62	18.69	19.14	19.12	0-3	0
	50	25	18.76	18.77	19.19	19.14		0
	50	50	18.73	18.75	19.14	19.08		0
	100	0	18.70	18.75	19.15	19.08		0
256QAM	1	0	16.51	16.39	16.92	16.94	0-5	2
	1	50	16.59	16.67	17.11	17.00		2
	1	99	16.46	16.68	16.98	16.78		2
	50	0	16.63	16.65	17.13	17.11		2
	50	25	16.75	16.75	17.16	17.11		2
	50	50	16.74	16.73	17.17	17.09		2
	100	0	16.74	16.74	17.12	17.07		2

Table 10-42
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE Band 48	20	55773	3603.3	55773	3603.3	QPSK	1	99	LTE Band 48	20	55971	3623.1	55971	3623.1	QPSK	1	0	18.77	18.61

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT														Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset														Page 61 of 171

REV 22.0
03/30/2022

Table 10-43
LTE Band 48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340.0 (3560.0 MHz)	55773.0 (3603.3 MHz)	56207.0 (3646.7 MHz)	56640.0 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	16.33	16.28	16.51	16.41	0	0
	1	50	16.06	15.96	16.42	16.46		0
	1	99	16.09	16.05	16.47	16.42		0
	50	0	16.30	16.08	16.51	16.53	0-1	0
	50	25	16.52	16.39	16.52	16.61		0
	50	50	16.23	16.32	16.64	16.55		0
	100	0	16.22	16.17	16.50	16.48		0
16QAM	1	0	16.14	16.09	16.41	16.44	0-1	0
	1	50	16.13	16.16	16.60	16.50		0
	1	99	16.08	16.16	16.57	16.49		0
	50	0	16.19	16.07	16.54	16.59	0-2	0
	50	25	16.30	16.21	16.52	16.67		0
	50	50	16.27	16.16	16.62	16.62		0
	100	0	16.24	16.16	16.51	16.62		0
64QAM	1	0	16.21	16.21	16.55	16.57	0-2	0
	1	50	16.27	16.26	16.59	16.74		0
	1	99	16.26	16.21	16.59	16.63		0
	50	0	16.16	16.17	16.49	16.56	0-3	0
	50	25	16.28	16.20	16.54	16.69		0
	50	50	16.24	16.19	16.64	16.60		0
	100	0	16.26	16.19	16.52	16.60		0
256QAM	1	0	16.16	16.11	16.38	16.50	0-5	0
	1	50	16.21	16.23	16.54	16.55		0
	1	99	16.10	16.08	16.43	16.45		0
	50	0	16.18	16.12	16.54	16.61		0
	50	25	16.30	16.24	16.63	16.72		0
	50	50	16.22	16.18	16.62	16.60		0
	100	0	16.27	16.21	16.55	16.64		0

Table 10-44
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 48 CA#1 - Split Carrier Aggregation measured 7.1mm101.201.1 (Head) - 20 MHz Bandwidth																						
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC						Power				
					PCC DL Channel	PCC DL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]				SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Pow (dBm)
CA_48C	LTE Band 48	20	55773	3603.3	55773	3603.3			QPSK	50	50	LTE Band 48	20	55971	3623.1	55971	3623.1	QPSK	50	0	16.6	16.32



Figure 10-3
Power Measurement Setup

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 62 of 171

REV 22.0
03/30/2022

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 10-45
NR Band n71 Ant A Measured P_{Max} for all DSI - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.20	0	0.0
	1	94	23.94		0.0
	1	186	23.58		0.0
	90	0	23.12	0-1	1.0
	90	49	23.90	0	0.0
	90	98	22.88		1.0
	180	0	22.88		1.0
DFT-s-OFDM 16QAM	1	1	22.95	0-1	1.0
CP-OFDM QPSK	1	1	22.94	0-1.5	1.5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 63 of 171

REV 22.0
03/30/2022

Table 10-46
NR Band n71 Ant E Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.62	0	0.0
	1	94	21.41		0.0
	1	186	21.21		0.0
	90	0	21.58	0-1	0.0
	90	49	21.48	0	0.0
	90	98	21.29	0-1	0.0
	180	0	21.43		0.0
DFT-s-OFDM 16QAM	1	1	21.17	0-1	0.0
CP-OFDM QPSK	1	1	21.95	0-1.5	0.0

Table 10-47
NR Band n71 Ant E Measured P_{Limit} for DSI = 1 (Head) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.90	0	0.0
	1	94	20.63		0.0
	1	186	20.28		0.0
	90	0	20.78	0-1	0.0
	90	49	20.59	0	0.0
	90	98	20.25	0-1	0.0
	180	0	20.76		0.0
DFT-s-OFDM 16QAM	1	1	20.77	0-1	0.0
CP-OFDM QPSK	1	1	21.23	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 64 of 171

REV 22.0
03/30/2022

10.4.2 NR Band n12

Table 10-48
NR Band n12 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.74	0	0.0
	1	40	23.56		0.0
	1	77	23.63		0.0
	36	0	22.82	0-1	1.0
	36	22	23.63	0	0.0
	36	43	22.63	0-1	1.0
	75	0	22.69		1.0
DFT-s-OFDM 16QAM	1	1	22.52	0-1	1.0
CP-OFDM QPSK	1	1	22.48	0-1.5	1.5

Table 10-49
NR Band n12 Ant E Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.49	0	0.0
	1	40	21.11		0.0
	1	77	21.30		0.0
	36	0	21.53	0-1	0.0
	36	22	21.35	0	0.0
	36	43	21.28	0-1	0.0
	75	0	21.34		0.0
DFT-s-OFDM 16QAM	1	1	21.09	0-1	0.0
CP-OFDM QPSK	1	1	21.70	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 65 of 171

REV 22.0
03/30/2022

Table 10-50
NR Band n12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.81	0	0.0
	1	40	20.36		0.0
	1	77	20.42		0.0
	36	0	20.72	0-1	0.0
	36	22	20.56	0	0.0
	36	43	20.53	0-1	0.0
	75	0	20.66		0.0
DFT-s-OFDM 16QAM	1	1	20.41	0-1	0.0
CP-OFDM QPSK	1	1	20.81	0-1.5	0.0

10.4.3 NR Band n14

Table 10-51
NR Band n14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.76	0	0.0
	1	26	23.69		0.0
	1	50	23.60		0.0
	25	0	22.78	0-1	1.0
	25	14	23.68	0	0.0
	25	27	22.73	0-1	1.0
	50	0	22.75		1.0
DFT-s-OFDM 16QAM	1	1	22.51	0-1	1.0
CP-OFDM QPSK	1	1	22.40	0-1.5	1.5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 66 of 171

REV 22.0
03/30/2022

Table 10-52
NR Band n14 Ant E Measured P_{Limit} for all DSI - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.69	0	0.0
	1	26	20.67		0.0
	1	50	20.57		0.0
	25	0	20.81	0-1	0.0
	25	14	20.65	0	0.0
	25	27	20.70	0-1	0.0
	50	0	20.68		0.0
DFT-s-OFDM 16QAM	1	1	20.40	0-1	0.0
CP-OFDM QPSK	1	1	20.82	0-1.5	0.0

10.4.4 NR Band n26

Table 10-53
NR Band n26 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.72	0	0.0
	1	53	23.81		0.0
	1	104	23.87		0.0
	50	0	22.84	0-1	1.0
	50	28	23.92	0	0.0
	50	56	22.89	0-1	1.0
	100	0	22.82		1.0
DFT-s-OFDM 16QAM	1	1	22.39	0-1	1.0
CP-OFDM QPSK	1	1	22.45	0-1.5	1.5

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 67 of 171

REV 22.0
03/30/2022

Table 10-54
NR Band n26 Ant E Measured P_{Limit} for all DSI - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.35	0	0.0
	1	53	20.57		0.0
	1	104	20.26		0.0
	50	0	20.43	0-1	0.0
	50	28	20.51	0	0.0
	50	56	20.50	0-1	0.0
	100	0	20.50		0.0
DFT-s-OFDM 16QAM	1	1	20.31	0-1	0.0
CP-OFDM QPSK	1	1	20.49	0-1.5	0.0

10.4.5 NR Band n70

Table 10-55
NR Band n70 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.43	0	0.0
	1	40	17.48		0.0
	1	77	17.58		0.0
	36	0	17.58	0-1	0.0
	36	22	17.54	0	0.0
	36	43	17.61	0-1	0.0
	75	0	17.56		0.0
DFT-s-OFDM 16QAM	1	1	17.23	0-1	0.0
CP-OFDM QPSK	1	1	17.68	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 68 of 171

REV 22.0
03/30/2022

Table 10-56
NR Band n70 Ant A Measured P_{Max} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.52	0	0.0
	1	40	23.51		0.0
	1	77	23.58		0.0
	36	0	22.56	0-1	1.0
	36	22	23.67	0	0.0
	36	43	22.66	0-1	1.0
	75	0	22.60		1.0
DFT-s-OFDM 16QAM	1	1	22.34	0-1	1.0
CP-OFDM QPSK	1	1	22.09	0-1.5	1.5

Table 10-57
NR Band n70 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.16	0	0.0
	1	40	19.25		0.0
	1	77	19.13		0.0
	36	0	19.17	0-1	0.0
	36	22	19.24	0	0.0
	36	43	19.23	0-1	0.0
	75	0	19.23		0.0
DFT-s-OFDM 16QAM	1	1	18.97	0-1	0.0
CP-OFDM QPSK	1	1	19.33	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 69 of 171

REV 22.0
03/30/2022

Table 10-58
NR Band n70 Ant F Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.15	0	0.0
	1	40	17.11		0.0
	1	77	17.13		0.0
	36	0	17.26	0-1	0.0
	36	22	17.31	0	0.0
	36	43	17.29	0-1	0.0
	75	0	17.14		0.0
DFT-s-OFDM 16QAM	1	1	17.06	0-1	0.0
CP-OFDM QPSK	1	1	17.37	0-1.5	0.0

10.4.6 NR Band n66

Table 10-59
NR Band n66 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.90	0	0.0
	1	121	17.06		0.0
	1	240	17.02		0.0
	120	0	17.13	0-1	0.0
	120	61	16.93	0	0.0
	120	122	17.02	0-1	0.0
	240	0	17.04		0.0
DFT-s-OFDM 16QAM	1	1	16.76	0-1	0.0
CP-OFDM QPSK	1	1	17.04	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 70 of 171

REV 22.0
03/30/2022

Table 10-60
NR Band n66 Ant A Measured P_{Max} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.76	0	0.0
	1	121	23.95		0.0
	1	240	23.86		0.0
	120	0	22.91	0-1	1.0
	120	61	23.71	0	0.0
	120	122	22.87	0-1	1.0
	240	0	22.84		1.0
DFT-s-OFDM 16QAM	1	1	22.75	0-1	1.0
CP-OFDM QPSK	1	1	22.38	0-1.5	1.5

Table 10-61
NR Band n66 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.46	0	0.0
	1	121	19.76		0.0
	1	240	19.48		0.0
	120	0	19.77	0-1	0.0
	120	61	19.68	0	0.0
	120	122	19.73	0-1	0.0
	240	0	19.75		0.0
DFT-s-OFDM 16QAM	1	1	19.32	0-1	0.0
CP-OFDM QPSK	1	1	19.50	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 71 of 171

REV 22.0
03/30/2022

Table 10-62
NR Band n66 Ant F Measured P_{Limit} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.53	0	0.0
	1	121	17.78		0.0
	1	240	17.61		0.0
	120	0	17.73	0-1	0.0
	120	61	17.68	0	0.0
	120	122	17.78	0-1	0.0
	240	0	17.77		0.0
DFT-s-OFDM 16QAM	1	1	17.16	0-1	0.0
CP-OFDM QPSK	1	1	17.48	0-1.5	0.0

10.4.7 NR Band n25

Table 10-63
NR Band n25 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.84	0	0.0
	1	108	17.67		0.0
	1	214	17.64		0.0
	108	0	17.79	0-1	0.0
	108	54	17.76	0	0.0
	108	108	17.70	0-1	0.0
	216	0	17.75		0.0
DFT-s-OFDM 16QAM	1	1	17.68	0-1	0.0
CP-OFDM QPSK	1	1	17.96	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 72 of 171

REV 22.0
03/30/2022

Table 10-64
NR Band n25 Ant A Measured P_{Max} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.40	0	0.0
	1	108	23.22		0.0
	1	214	23.27		0.0
	108	0	22.41	0-1	1.0
	108	54	23.31	0	0.0
	108	108	22.18	0-1	1.0
	216	0	22.35		1.0
DFT-s-OFDM 16QAM	1	1	22.19	0-1	1.0
CP-OFDM QPSK	1	1	21.98	0-1.5	1.5

Table 10-65
NR Band n25 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.63	0	0.0
	1	108	19.61		0.0
	1	214	19.36		0.0
	108	0	19.73	0-1	0.0
	108	54	19.68	0	0.0
	108	108	19.56	0-1	0.0
	216	0	19.56		0.0
DFT-s-OFDM 16QAM	1	1	19.27	0-1	0.0
CP-OFDM QPSK	1	1	19.82	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 73 of 171

REV 22.0
03/30/2022

Table 10-66
NR Band n25 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.63	0	0.0
	1	108	17.65		0.0
	1	214	17.47		0.0
	108	0	17.73	0-1	0.0
	108	54	17.69	0	0.0
	108	108	17.55	0-1	0.0
	216	0	17.60		0.0
DFT-s-OFDM 16QAM	1	1	17.25	0-1	0.0
CP-OFDM QPSK	1	1	17.82	0-1.5	0.0

10.4.8 NR Band n30

Table 10-67
NR Band n30 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.35	0	0.0
	1	26	18.47		0.0
	1	50	18.44		0.0
	25	0	18.44	0-1	0.0
	25	14	18.48	0	0.0
	25	27	18.51	0-1	0.0
	50	0	18.42		0.0
DFT-s-OFDM 16QAM	1	1	18.29	0-1	0.0
CP-OFDM QPSK	1	1	18.45	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 74 of 171

REV 22.0
03/30/2022

Table 10-68
NR Band n30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.39	0	0.0
	1	26	21.47		0.0
	1	50	21.37		0.0
	25	0	20.42	0-1	1.0
	25	14	21.43	0	0.0
	25	27	20.38	0-1	1.0
	50	0	20.42		1.0
DFT-s-OFDM 16QAM	1	1	20.33	0-1	1.0
CP-OFDM QPSK	1	1	19.88	0-1.5	1.5

Table 10-69
NR Band n30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.69	0	0.0
	1	26	18.81		0.0
	1	50	18.79		0.0
	25	0	18.85	0-1	0.0
	25	14	18.89	0	0.0
	25	27	18.77	0-1	0.0
	50	0	18.80		0.0
DFT-s-OFDM 16QAM	1	1	18.66	0-1	0.0
CP-OFDM QPSK	1	1	18.79	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 75 of 171

REV 22.0
03/30/2022

Table 10-70
NR Band n30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.76	0	0.0
	1	26	16.83		0.0
	1	50	16.69		0.0
	25	0	16.90	0-1	0.0
	25	14	16.87	0	0.0
	25	27	16.78	0-1	0.0
	50	0	16.82		0.0
DFT-s-OFDM 16QAM	1	1	17.00	0-1	0.0
CP-OFDM QPSK	1	1	16.87	0-1.5	0.0

10.4.9 NR Band n7

Table 10-71
NR Band n7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.12	0	0.0
	1	135	17.95		0.0
	1	268	17.93		0.0
	135	0	18.13	0-1	0.0
	135	68	17.96	0	0.0
	135	135	17.89	0-1	0.0
	270	0	17.93		0.0
DFT-s-OFDM 16QAM	1	1	17.86	0-1	0.0
CP-OFDM QPSK	1	1	18.37	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 76 of 171

REV 22.0
03/30/2022

Table 10-72
NR Band n7 Ant B Measured P_{Max} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.11	0	0.0
	1	135	22.91		0.0
	1	268	22.93		0.0
	135	0	22.16	0-1	1.0
	135	68	23.02	0	0.0
	135	135	21.96	0-1	1.0
	270	0	22.03		1.0
DFT-s-OFDM 16QAM	1	1	21.72	0-1	1.0
CP-OFDM QPSK	1	1	21.34	0-1.5	1.5

Table 10-73
NR Band n7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.26	0	0.0
	1	135	19.01		0.0
	1	268	18.90		0.0
	135	0	19.30	0-1	0.0
	135	68	19.20	0	0.0
	135	135	18.94	0-1	0.0
	270	0	19.15		0.0
DFT-s-OFDM 16QAM	1	1	18.89	0-1	0.0
CP-OFDM QPSK	1	1	19.53	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 77 of 171

REV 22.0
03/30/2022

Table 10-74
NR Band n7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.77	0	0.0
	1	135	16.56		0.0
	1	268	16.31		0.0
	135	0	16.92	0-1	0.0
	135	68	16.67	0	0.0
	135	135	16.48	0-1	0.0
	270	0	16.63		0.0
DFT-s-OFDM 16QAM	1	1	16.84	0-1	0.0
CP-OFDM QPSK	1	1	16.64	0-1.5	0.0

10.4.10 NR Band n41

Table 10-75
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.60	0	0.0
	1	137	18.52		0.0
	1	271	18.62		0.0
	135	0	18.55	0-1	0.0
	135	69	18.55	0	0.0
	135	138	18.65	0-1	0.0
	270	0	18.61		0.0
DFT-s-OFDM 16QAM	1	1	18.52	0-1	0.0
CP-OFDM QPSK	1	1	18.61	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 78 of 171

REV 22.0
03/30/2022

Table 10-76
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.06	0	0.0
	1	137	16.04		0.0
	1	271	16.10		0.0
	135	0	16.14	0-1	0.0
	135	69	16.07	0	0.0
	135	138	16.16	0-1	0.0
	270	0	16.10		0.0
DFT-s-OFDM 16QAM	1	1	16.09	0-1	0.0
CP-OFDM QPSK	1	1	15.95	0-1.5	0.0

Table 10-77
NR Band n41 PC2 Antenna B, E, D Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	17.40
SRS #3 Ant E	15.75
SRS #4 Ant D	15.73

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 79 of 171

REV 22.0
03/30/2022

Table 10-78

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

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	21.23
SRS #3 Ant E	14.75
SRS #4 Ant D	14.71

Table 10-79

NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.36	0	0.0
	1	137	17.16		0.0
	1	271	17.47		0.0
	135	0	17.32	0-1	0.0
	135	69	17.19	0	0.0
	135	138	17.37	0-1	0.0
	270	0	17.36		0.0
DFT-s-OFDM 16QAM	1	1	17.29	0-1	0.0
CP-OFDM QPSK	1	1	17.24	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 80 of 171

REV 22.0
03/30/2022

Table 10-80
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.17	0	0.0
	1	137	21.14		0.0
	1	271	21.25		0.0
	135	0	21.15	0-1	0.0
	135	69	21.13	0	0.0
	135	138	21.23	0-1	0.0
	270	0	21.20		0.0
DFT-s-OFDM 16QAM	1	1	21.25	0-1	0.0
CP-OFDM QPSK	1	1	21.00	0-1.5	0.0

Table 10-81
NR Band n41 PC2 Antenna F, E, & D Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	18.95
SRS #3 Ant D	15.80
SRS #4 Ant E	16.06

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 81 of 171

REV 22.0
03/30/2022

Table 10-82
NR Band n41 PC2 Antenna F, E, & D Path 2 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	16.11
SRS #3 Ant D	14.64
SRS #4 Ant E	14.89

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 82 of 171

REV 22.0
03/30/2022

10.4.11 NR Band n48

Table 10-83

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

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	17.18	17.61	17.76	0	0.0
	1	53	17.06	17.25	17.57		0.0
	1	104	17.27	17.51	17.47		0.0
	50	0	17.15	17.62	17.69	0-1	0.0
	50	28	17.24	17.40	17.64	0	0.0
	50	56	17.29	17.52	17.53	0-1	0.0
	100	0	17.20	17.62	17.65		0.0
DFT-s-OFDM 16QAM	1	1	17.00	17.96	17.85	0-1	0.0
CP-OFDM QPSK	1	1	17.31	17.72	17.92	0-1.5	0.0

Table 10-84

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

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	15.02	14.79	14.93	0	0.0
	1	53	14.98	15.01	14.98		0.0
	1	104	15.07	15.00	15.10		0.0
	50	0	15.11	14.95	15.02	0-1	0.0
	50	28	15.12	15.03	15.14	0	0.0
	50	56	15.03	14.96	15.08	0-1	0.0
	100	0	14.99	15.01	15.06		0.0
DFT-s-OFDM 16QAM	1	1	15.02	14.95	14.94	0-1	0.0
CP-OFDM QPSK	1	1	15.02	15.04	15.12	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT		Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset		Page 83 of 171

REV 22.0
03/30/2022

Table 10-85
NR Band n48 Antenna C, H, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	12.85	12.79	12.84
SRS #3 Ant H	16.81	17.11	17.25
SRS #4 Ant D	12.35	12.61	12.42

Table 10-86
NR Band n48 Antenna C, H, D Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	10.07	10.17	10.41
SRS #3 Ant H	14.65	14.68	14.81
SRS #4 Ant D	9.86	10.03	10.04

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 84 of 171

REV 22.0
03/30/2022

10.4.12 NR Band n77

Table 10-87

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

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.20	0	0.0
	1	137	15.39		0.0
	1	271	15.56		0.0
	135	0	15.35	0-1	0.0
	135	69	15.44	0	0.0
	135	138	15.60	0-1	0.0
	270	0	15.33		0.0
DFT-s-OFDM 16QAM	1	1	15.26	0-1	0.0
CP-OFDM QPSK	1	1	15.17	0-1.5	0.0

Table 10-88

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

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	14.79	15.24	0	0.0
	1	137	15.15	14.77		0.0
	1	271	15.33	15.26		0.0
	135	0	14.94	14.97	0-1	0.0
	135	69	15.20	14.92	0	0.0
	135	138	15.26	14.99	0-1	0.0
	270	0	14.99	14.98		0.0
DFT-s-OFDM 16QAM	1	1	14.45	15.15	0-1	0.0
CP-OFDM QPSK	1	1	14.43	15.24	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT		Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset		Page 85 of 171

REV 22.0
03/30/2022

Table 10-89
NR Band n77 DoD PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.93	0	0.0
	1	137	16.71		0.0
	1	271	17.07		0.0
	135	0	16.72	0-1	0.0
	135	69	16.77	0	0.0
	135	138	17.19	0-1	0.0
	270	0	16.95		0.0
DFT-s-OFDM 16QAM	1	1	17.07	0-1	0.0
CP-OFDM QPSK	1	1	17.11	0-1.5	0.0

Table 10-90
NR Band n77 PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	16.97	17.13	0	0.0
	1	137	16.72	16.74		0.0
	1	271	16.47	16.55		0.0
	135	0	16.81	17.06	0-1	0.0
	135	69	16.75	16.76	0	0.0
	135	138	16.64	16.81	0-1	0.0
	270	0	16.77	16.88		0.0
DFT-s-OFDM 16QAM	1	1	16.94	17.13	0-1	0.0
CP-OFDM QPSK	1	1	16.99	17.09	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 86 of 171

REV 22.0
03/30/2022

Table 10-91
NR Band n77 DoD PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.59	0	0.0
	1	137	15.55		0.0
	1	271	15.75		0.0
	135	0	15.68	0-1	0.0
	135	69	15.64	0	0.0
	135	138	15.67	0-1	0.0
	270	0	15.67		0.0
DFT-s-OFDM 16QAM	1	1	15.61	0-1	0.0
CP-OFDM QPSK	1	1	15.55	0-1.5	0.0

Table 10-92
NR Band n77 PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	15.59	15.91	0	0.0
	1	137	15.50	15.32		0.0
	1	271	15.44	15.40		0.0
	135	0	15.61	15.67	0-1	0.0
	135	69	15.47	15.41	0	0.0
	135	138	15.44	15.35	0-1	0.0
	270	0	15.49	15.44		0.0
DFT-s-OFDM 16QAM	1	1	15.60	15.92	0-1	0.0
CP-OFDM QPSK	1	1	15.67	15.74	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 87 of 171

REV 22.0
03/30/2022

Table 10-93
NR Band n77 DoD PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.95	0	0.0
	1	137	16.65		0.0
	1	271	16.96		0.0
	135	0	16.87	0-1	0.0
	135	69	16.76	0	0.0
	135	138	16.77	0-1	0.0
	270	0	16.85		0.0
DFT-s-OFDM 16QAM	1	1	16.96	0-1	0.0
CP-OFDM QPSK	1	1	17.20	0-1.5	0.0

Table 10-94
NR Band n77 PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	16.84	17.48	0	0.0
	1	137	16.64	17.29		0.0
	1	271	16.63	17.12		0.0
	135	0	16.77	17.46	0-1	0.0
	135	69	16.65	17.25	0	0.0
	135	138	16.69	17.29	0-1	0.0
	270	0	16.64	17.28		0.0
DFT-s-OFDM 16QAM	1	1	16.85	17.47	0-1	0.0
CP-OFDM QPSK	1	1	16.77	17.49	0-1.5	0.0

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 88 of 171

REV 22.0
03/30/2022

Table 10-95

NR Band n77 DoD PC1.5 Antenna H, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #3 Ant H	14.91
SRS #4 Ant D	15.12

Table 10-96

NR Band n77 PC1.5 Antenna H, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #3 Ant H	15.03	15.04
SRS #4 Ant D	14.90	15.12

Table 10-97

NR Band n77 DoD PC1.5 Antenna H, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #3 Ant H	16.21
SRS #4 Ant D	16.77

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 89 of 171

REV 22.0
03/30/2022

Table 10-98

NR Band n77 PC1.5 Antenna H, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #3 Ant H	16.34	16.35
SRS #4 Ant D	16.22	16.69

Table 10-99

NR Band n77 DoD PC2 Default Antenna C, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	10.71
SRS #4 Ant D	10.06

Table 10-100

NR Band n77 PC2 Default Antenna C, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	10.41	9.62
SRS #4 Ant D	9.90	9.76

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 90 of 171

REV 22.0
03/30/2022

Table 10-101

NR Band n77 DoD PC2 Default Antenna C, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	12.26
SRS #4 Ant D	11.38

Table 10-102

NR Band n77 PC2 Default Antenna C, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	11.94	11.06
SRS #4 Ant D	11.26	11.48



Figure 10-4
Power Measurement Setup – NR FDD

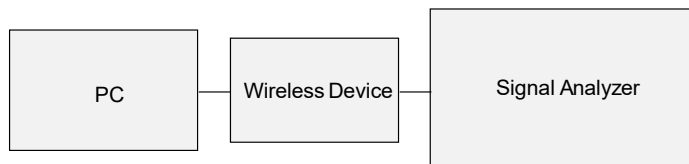


Figure 10-5
Power Measurement Setup – NR TDD

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 91 of 171

REV 22.0
03/30/2022

10.5 NTN Band 255 Conducted Powers

Table 10-103
NTN Band b255 Antenna F Measured P_{limit} for DSI = 0 (Body-worn, Hotspot and Phablet) - 20 MHz Bandwidth

SCS	SC Size	Channel	Frequency [MHz]	Conducted Power [dBm]	
				BPSK	QPSK
3.75kHz	1SC0	261505	1626.6	21.76	21.71
	1SC24	261505	1626.6	22.34	22.23
	1SC47	261505	1626.6	21.83	21.83
15kHz	1SC0	261505	1626.6	22.06	22.19
	1SC6	261505	1626.6	22.35	22.37
	1SC11	261505	1626.6	22.00	22.01
	3SC0	261505	1626.6	N/A	21.75
	3SC6	261505	1626.6	N/A	21.90
	3SC9	261505	1626.6	N/A	22.09
	6SC0	261505	1626.6	N/A	22.03
	6SC6	261505	1626.6	N/A	22.05
	12SC0	261505	1626.6	N/A	21.93
3.75kHz	1SC0	261674	1643.5	21.60	21.62
	1SC24	261674	1643.5	21.95	22.16
	1SC47	261674	1643.5	21.72	21.60
15kHz	1SC0	261674	1643.5	21.74	21.79
	1SC6	261674	1643.5	22.16	22.17
	1SC11	261674	1643.5	21.77	21.72
	3SC0	261674	1643.5	N/A	21.89
	3SC6	261674	1643.5	N/A	22.15
	3SC9	261674	1643.5	N/A	21.99
	6SC0	261674	1643.5	N/A	22.01
	6SC6	261674	1643.5	N/A	22.07
	12SC0	261674	1643.5	N/A	22.00
3.75kHz	1SC0	261843	1660.4	21.36	21.60
	1SC24	261843	1660.4	21.99	22.01
	1SC47	261843	1660.4	21.30	21.36
15kHz	1SC0	261843	1660.4	21.90	21.81
	1SC6	261843	1660.4	22.15	22.18
	1SC11	261843	1660.4	21.72	21.70
	3SC0	261843	1660.4	N/A	21.92
	3SC6	261843	1660.4	N/A	21.88
	3SC9	261843	1660.4	N/A	21.97
	6SC0	261843	1660.4	N/A	21.93
	6SC6	261843	1660.4	N/A	21.95
	12SC0	261843	1660.4	N/A	21.85

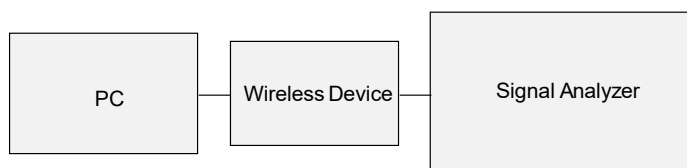


Figure 10-6
Power Measurement Setup – NTN

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 92 of 171

REV 22.0
03/30/2022

10.6 WLAN Conducted Powers

Table 10-104

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

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.37
2437	6		15.33
2462	11		15.17

Table 10-105

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

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.65
2437	6		14.66
2462	11		14.56

Table 10-106

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

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	15.02	14.43	17.75
2437	6		14.99	14.25	17.65
2462	11		14.85	14.41	17.65

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 93 of 171

REV 22.0
03/30/2022

Table 10-107
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant G

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.45
2437	6		19.67
2462	11		19.23
2.4GHz WIFI (20MHz 802.11g SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.48
2417	2		17.10
2437	6		17.15
2462	11		17.00
2.4GHz WIFI (20MHz 802.11n SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.96
2417	2		17.12
2437	6		17.17
2457	10		16.93
2462	11		16.02
2.4GHz WIFI (20MHz 802.11ac SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.94
2417	2		17.17
2437	6		17.30
2457	10		16.99
2462	11		16.17
2.4GHz WIFI (20MHz 802.11ax SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.48
2417	2		17.69
2437	6		17.67
2457	10		17.49
2462	11		16.62
2.4GHz WIFI (20MHz 802.11be SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.49
2417	2		17.72
2437	6		17.72
2457	10		17.47
2462	11		16.67

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 94 of 171

 REV 22.0
03/30/2022

Table 10-108
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant I

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.87
2437	6		19.32
2462	11		19.78
2.4GHz WIFI (20MHz 802.11g SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.94
2417	2		17.00
2437	6		17.02
2462	11		16.78
2.4GHz WIFI (20MHz 802.11n SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.21
2417	2		17.07
2437	6		17.14
2457	10		17.17
2462	11		15.75
2.4GHz WIFI (20MHz 802.11ac SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.22
2417	2		17.13
2437	6		17.12
2457	10		17.20
2462	11		15.82
2.4GHz WIFI (20MHz 802.11ax SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.05
2417	2		17.67
2437	6		17.55
2457	10		17.71
2462	11		16.41
2.4GHz WIFI (20MHz 802.11be SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.09
2417	2		17.65
2437	6		17.62
2457	10		17.74
2462	11		16.49

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 95 of 171

 REV 22.0
03/30/2022

Table 10-109
2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	16.37	16.11	19.25
2417	2		17.37	17.32	20.36
2437	6		17.45	17.22	20.35
2462	11		17.30	17.13	20.23

Table 10-110
5 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Head) – Ant G

5GHz WIFI (80MHz 802.11ac SISO Ant G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.24
UNII-2A	5290	58	15.63
UNII-2C	5530	106	15.88
	5610	122	15.85
	5690	138	15.82
UNII-3	5775	155	15.34
UNII-4	5855	171	15.31
5GHz WIFI (80MHz 802.11ax SISO Ant G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.82
UNII-2A	5290	58	15.21
UNII-2C	5530	106	15.77
	5610	122	15.56
	5690	138	15.63
UNII-3	5775	155	15.65
UNII-4	5855	171	15.05
5GHz WIFI (80MHz 802.11be SISO Ant G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.79
UNII-2A	5290	58	15.22
UNII-2C	5530	106	15.80
	5610	122	15.54
	5690	138	15.65
UNII-3	5775	155	15.68
UNII-4	5855	171	15.10

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 96 of 171

 REV 22.0
03/30/2022

Table 10-111
5 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Head) – Ant E

5GHz WIFI (80MHz 802.11ac SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.15
UNII-2A	5290	58	15.83
UNII-2C	5530	106	15.87
	5610	122	15.90
	5690	138	15.84
UNII-3	5775	155	15.38
UNII-4	5855	171	15.40
5GHz WIFI (80MHz 802.11ax SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.85
UNII-2A	5290	58	15.47
UNII-2C	5530	106	15.73
	5610	122	15.99
	5690	138	15.76
UNII-3	5775	155	15.91
UNII-4	5855	171	15.61
5GHz WIFI (80MHz 802.11be SISO Ant E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.87
UNII-2A	5290	58	15.47
UNII-2C	5530	106	15.79
	5610	122	15.99
	5690	138	15.74
UNII-3	5775	155	15.93
UNII-4	5855	171	15.61

Table 10-112
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	15.40	15.01	18.22
UNII-2A	5290	58	15.70	15.36	18.54
UNII-2C	5530	106	15.95	15.75	18.86
	5610	122	15.80	15.85	18.84
	5690	138	15.87	15.78	18.84
UNII-3	5775	155	15.33	15.33	18.34
UNII-4	5855	171	15.25	15.25	18.26

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 97 of 171

REV 22.0
03/30/2022

Table 10-113
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant G

5GHz WIFI (80MHz 802.11ac SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.34
UNII-2A	5290	58	13.87
UNII-2C	5530	106	13.96
	5610	122	13.95
	5690	138	13.87
UNII-3	5775	155	13.48
UNII-4	5855	171	13.34

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

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	13.42
UNII-2A	5290	58	13.89
UNII-2C	5530	106	13.99
	5610	122	13.97
	5690	138	13.79
UNII-3	5775	155	13.31
UNII-4	5855	171	13.34

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

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	13.21	13.20	16.22
UNII-2A	5290	58	13.88	13.63	16.77
UNII-2C	5530	106	13.95	13.82	16.90
	5610	122	13.93	13.95	16.95
	5690	138	13.80	13.73	16.78
UNII-3	5775	155	13.52	13.25	16.40
UNII-4	5855	171	13.32	13.21	16.28

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 98 of 171

 REV 22.0
03/30/2022

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

6GHz WIFI (160MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.84
	6345	79	11.79
UNII-6	6505	111	11.45
UNII-7	6665	143	11.44
UNII-8	6985	207	11.58

Table 10-117
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot, or Phablet) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.39
	6345	79	10.65
UNII-6	6505	111	11.95
UNII-7	6665	143	11.27
UNII-8	6985	207	11.64

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

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	11.62	11.78	14.71
	6345	79	11.28	11.29	14.30
UNII-6	6505	111	11.08	11.78	14.45
UNII-7	6665	143	11.15	11.46	14.32
UNII-8	6985	207	11.77	11.77	14.78

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 99 of 171

 REV 22.0
03/30/2022

Table 10-119
6 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Head) – Ant G

6GHz WIFI (160MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	15.43
	6345	79	15.57
UNII-6	6505	111	15.08
UNII-7	6665	143	15.07
UNII-8	6985	207	15.62

Table 10-120
6 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Head) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	15.30
	6345	79	14.70
UNII-6	6505	111	15.81
UNII-7	6665	143	15.52
UNII-8	6985	207	15.82

Table 10-121
6 GHz WLAN Measured P_{limit} Average RF Power for DSI = 1 (Head) – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	15.35	15.44	18.41
	6345	79	15.60	14.85	18.25
UNII-6	6505	111	15.03	15.92	18.51
UNII-7	6665	143	15.13	15.25	18.20
UNII-8	6985	207	15.56	15.72	18.65

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

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

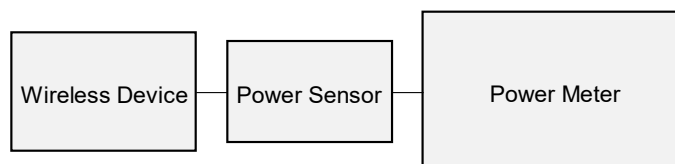


Figure 10-7
Power Measurement Setup

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 100 of 171

REV 22.0
03/30/2022

10.7 Bluetooth Conducted Powers

Table 10-122
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	19.81	95.719
2441	1.0	39	19.82	95.940
2480	1.0	78	19.33	85.704
2402	2.0	0	16.22	41.879
2441	2.0	39	16.33	42.954
2480	2.0	78	15.80	38.019
2402	3.0	0	16.25	42.170
2441	3.0	39	16.36	43.251
2480	3.0	78	15.85	38.459

Table 10-123
Bluetooth Measured P_{max} Average RF Power for all DSI – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.31	67.764
2441	1.0	39	18.56	71.779
2480	1.0	78	17.95	62.373
2402	2.0	0	15.10	32.359
2441	2.0	39	15.10	32.359
2480	2.0	78	14.63	29.040
2402	3.0	0	15.14	32.659
2441	3.0	39	15.20	33.113
2480	3.0	78	14.43	27.733

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 101 of 171

REV 22.0
03/30/2022

Table 10-124
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	14.35	27.227	12.23	16.711	16.43	43.938
2441	1.0	39	14.73	29.717	12.88	19.409	16.91	49.126
2480	1.0	78	14.61	28.907	13.02	20.045	16.90	48.952
2402	2.0	0	12.15	16.406	8.89	7.745	13.83	24.151
2441	2.0	39	12.34	17.140	9.91	9.795	14.30	26.934
2480	2.0	78	11.89	15.453	9.51	8.933	13.87	24.386
2402	3.0	0	12.21	16.634	8.79	7.568	13.84	24.202
2441	3.0	39	12.38	17.298	9.80	9.550	14.29	26.848
2480	3.0	78	11.90	15.488	9.61	9.141	13.91	24.629

Table 10-125
Bluetooth LE Measured P_{max} Average 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	10.52	11.269
2440	125 kbps	19	LE	10.86	12.184
2480	125 kbps	39	LE	10.67	11.671
2402	500 kbps	0	LE	10.55	11.353
2440	500 kbps	19	LE	10.87	12.221
2480	500 kbps	39	LE	10.72	11.814
2402	1 Mbps	0	LE	19.68	92.832
2440	1 Mbps	19	LE	19.88	97.208
2480	1 Mbps	39	LE	19.54	90.033
2402	2 Mbps	0	LE	19.87	97.096
2440	2 Mbps	19	LE	19.74	94.124
2480	2 Mbps	39	LE	19.59	90.928

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 102 of 171

REV 22.0
03/30/2022

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

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	10.34	10.802
2440	125 kbps	19	LE	11.14	12.996
2480	125 kbps	39	LE	11.04	12.712
2402	500 kbps	0	LE	10.39	10.932
2440	500 kbps	19	LE	11.21	13.225
2480	500 kbps	39	LE	11.12	12.936
2402	1 Mbps	0	LE	18.47	70.356
2440	1 Mbps	19	LE	18.59	72.260
2480	1 Mbps	39	LE	17.81	60.325
2402	2 Mbps	0	LE	18.25	66.788
2440	2 Mbps	19	LE	18.59	72.194
2480	2 Mbps	39	LE	18.08	64.239

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

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Bluetooth Mode	ANT1 Peak Conducted Power		ANT2 Peak Conducted Power		Dual Peak Conducted Power	
						[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	GFSK	ePA	0	LE	14.65	29.154	11.99	15.802	16.53	44.956
2440	1 Mbps	GFSK	ePA	19	LE	15.00	31.630	12.71	18.668	17.02	50.298
2480	1 Mbps	GFSK	ePA	39	LE	14.70	29.492	13.06	20.230	16.97	49.722
2402	2 Mbps	GFSK	iPA	0	LE	14.70	29.519	11.99	15.802	16.56	45.320
2440	2 Mbps	GFSK	iPA	19	LE	15.03	31.857	12.74	18.806	17.05	50.663
2480	2 Mbps	GFSK	iPA	39	LE	15.03	31.871	13.28	21.286	17.26	53.158

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 103 of 171

REV 22.0
03/30/2022

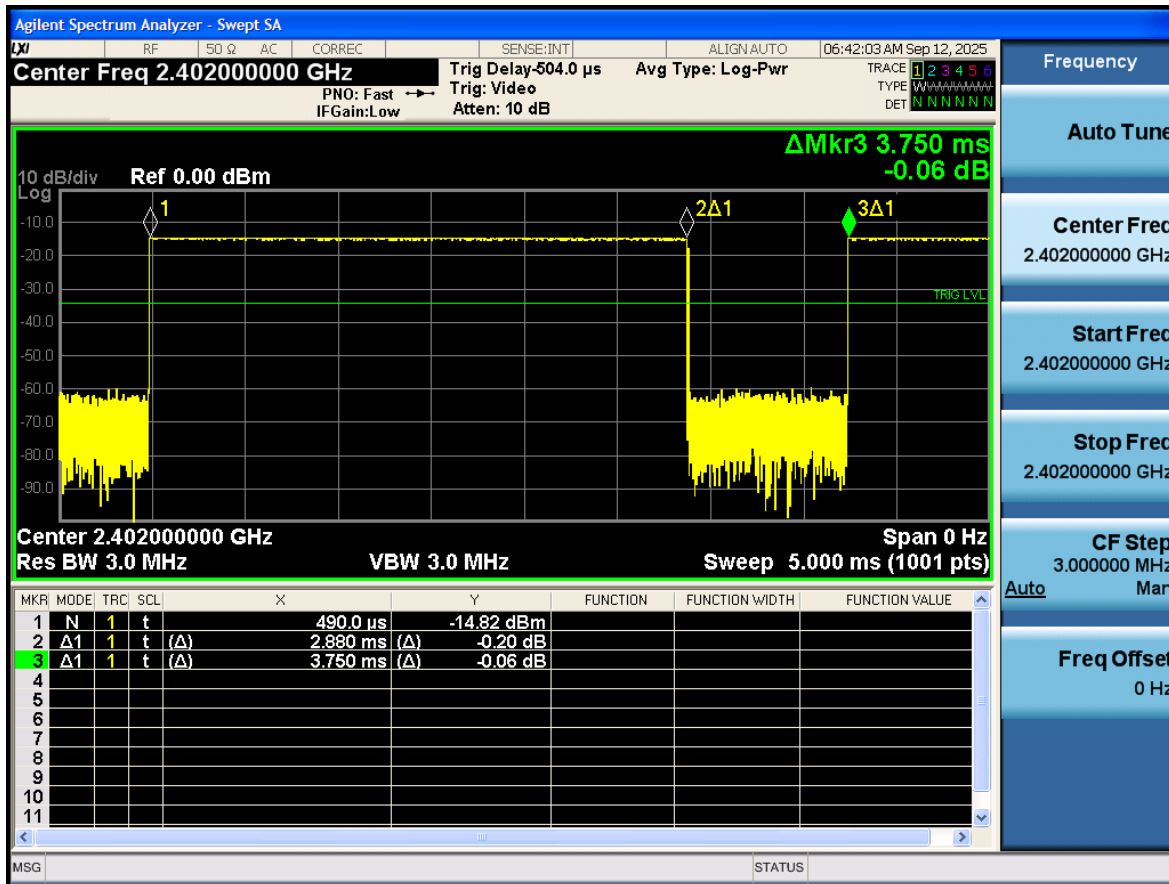


Figure 10-8
Bluetooth Antenna G Transmission Plot

Equation 10-1
Bluetooth Antenna G Duty Cycle Calculation

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 104 of 171

REV 22.0
03/30/2022

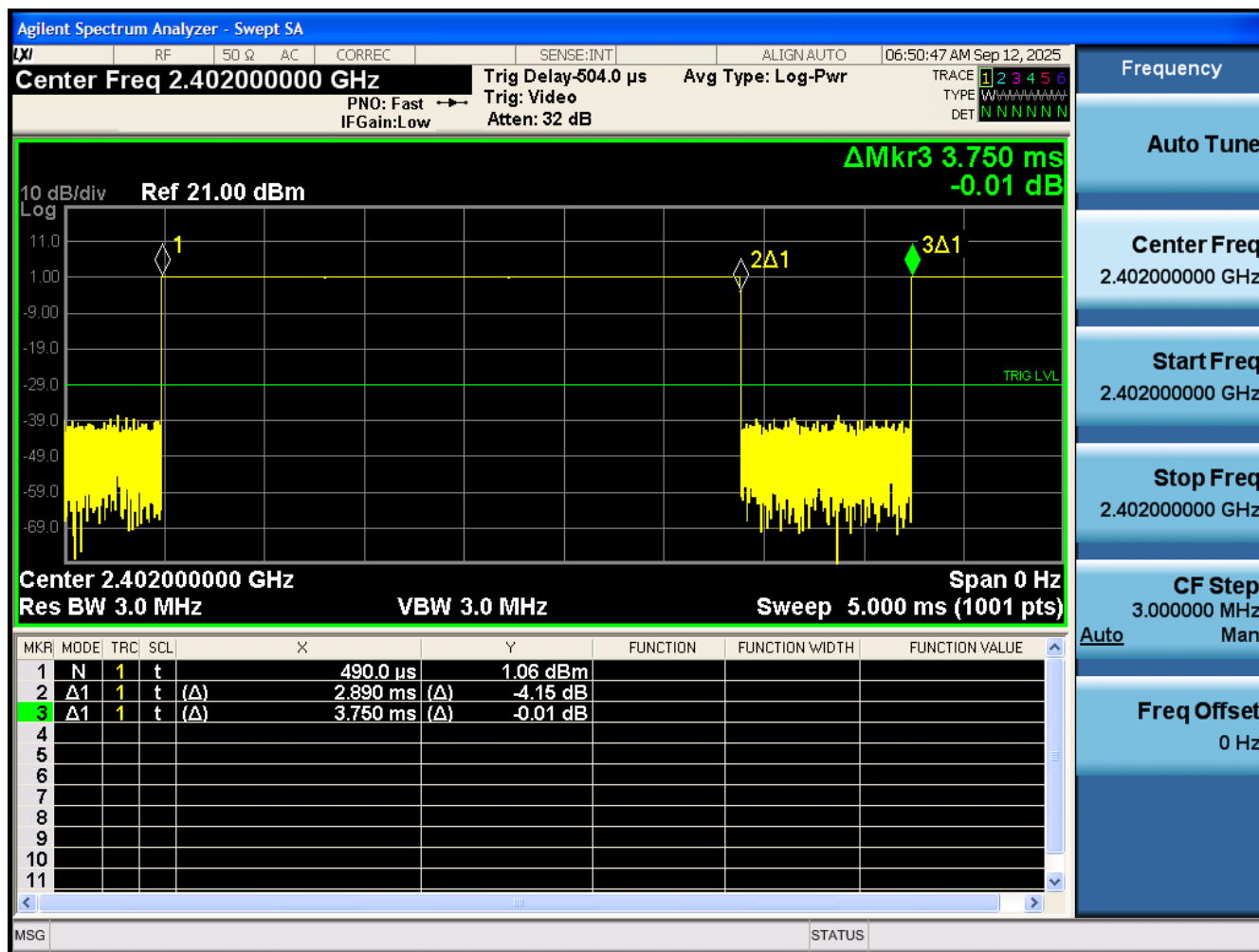


Figure 10-10
Bluetooth MIMO Transmission Plot

Equation 10-3
Bluetooth MIMO Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.890ms}{3.750ms} * 100\% = 77.1\%$$

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 106 of 171

REV 22.0
03/30/2022

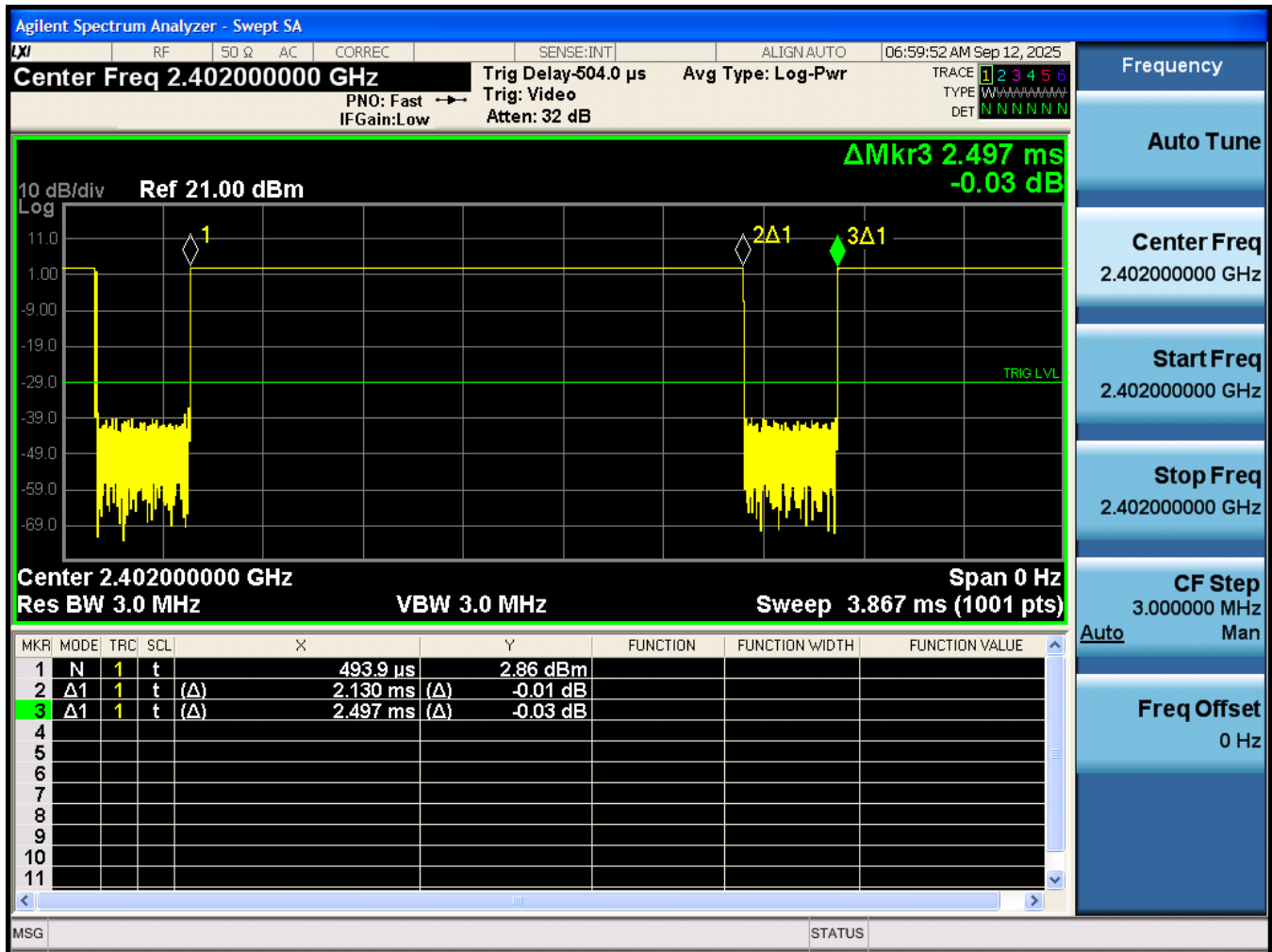


Figure 10-11
Bluetooth LE Antenna G Transmission Plot

Equation 10-4
Bluetooth LE Antenna G Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.130\text{ms}}{2.497\text{ms}} * 100\% = 85.3\%$$

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 107 of 171

REV 22.0
03/30/2022

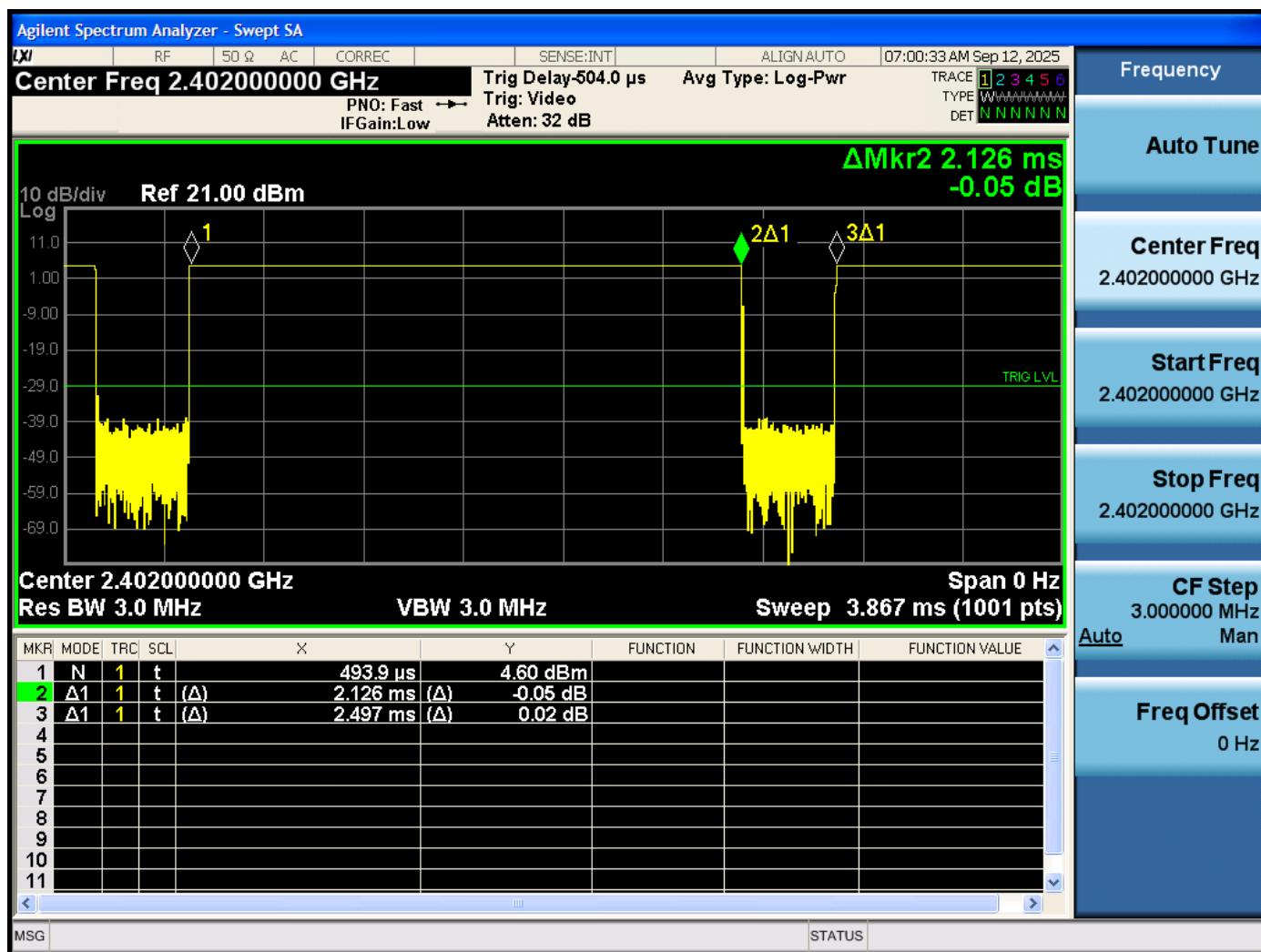


Figure 10-12
Bluetooth LE Antenna I Transmission Plot

Equation 10-5
Bluetooth LE Antenna I Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.126\text{ms}}{2.497\text{ms}} * 100\% = 85.1\%$$

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 108 of 171

REV 22.0
03/30/2022

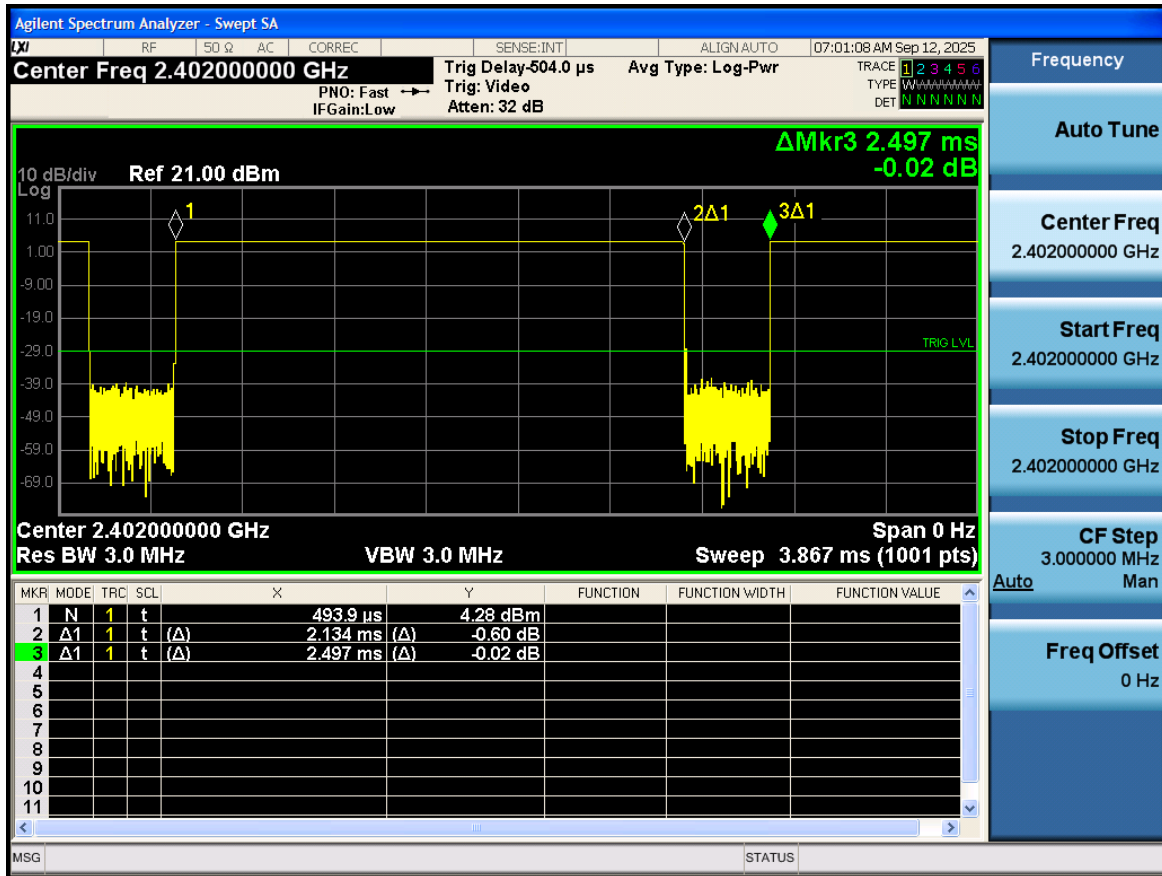


Figure 10-13
Bluetooth LE MIMO Transmission Plot

Equation 10-6
Bluetooth LE MIMO Duty Cycle Calculation

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

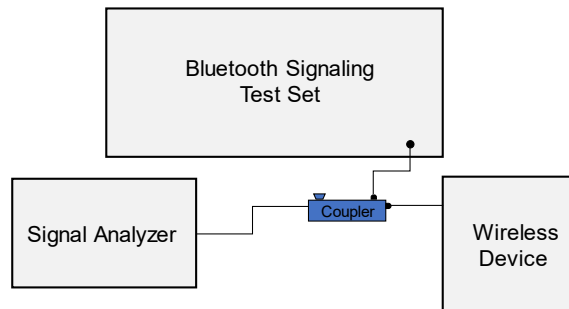


Figure 10-14
Power Measurement Setup

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 109 of 171

REV 22.0
03/30/2022

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
08/27/2025	30 Head	22.8	12	0.728	53.233	0.750	55.000	-2.93%	-3.71%
			13	0.728	53.536	0.750	55.000	-2.93%	-2.66%
			14	0.728	53.642	0.750	55.000	-2.93%	-2.47%
			680	0.872	40.516	0.888	42.305	-1.80%	-4.23%
09/01/2025	750 Head	24.0	695	0.879	40.486	0.889	42.227	-1.12%	-4.12%
			710	0.886	40.465	0.890	42.149	-0.45%	-4.00%
			725	0.892	40.445	0.891	42.071	0.11%	-3.86%
			750	0.899	40.385	0.894	41.942	0.56%	-3.71%
			770	0.902	40.307	0.895	41.838	0.78%	-3.66%
			785	0.905	40.234	0.896	41.760	1.00%	-3.65%
			800	0.910	40.173	0.897	41.682	1.45%	-3.62%
			820	0.913	40.117	0.888	42.305	-2.82%	-2.81%
09/02/2025	750 Head	23.2	680	0.863	41.117	0.888	42.305	-2.82%	-2.81%
			695	0.867	41.054	0.889	42.227	-2.47%	-2.78%
			710	0.872	40.991	0.890	42.149	-2.02%	-2.75%
			725	0.876	40.934	0.891	42.071	-1.68%	-2.70%
			750	0.883	40.867	0.894	41.942	-1.23%	-2.56%
			770	0.889	40.822	0.895	41.838	-0.67%	-2.43%
			785	0.893	40.771	0.896	41.760	-0.33%	-2.37%
			800	0.897	40.711	0.897	41.682	0.00%	-2.33%
09/08/2025	750 Head	22.2	680	0.845	40.968	0.888	42.305	-4.84%	-3.16%
			695	0.850	40.952	0.889	42.227	-4.39%	-3.02%
			700	0.852	40.944	0.889	42.201	-4.16%	-2.98%
			710	0.855	40.919	0.890	42.149	-3.93%	-2.92%
			725	0.859	40.857	0.891	42.071	-3.59%	-2.89%
			750	0.866	40.745	0.894	41.942	-3.13%	-2.85%
			770	0.872	40.680	0.895	41.838	-2.57%	-2.74%
			785	0.878	40.628	0.896	41.760	-2.01%	-2.64%
09/10/2025	750 Head	21.5	680	0.853	41.283	0.888	42.305	-3.94%	-2.42%
			695	0.858	41.222	0.889	42.227	-3.49%	-2.38%
			700	0.859	41.204	0.889	42.201	-3.37%	-2.36%
			710	0.863	41.165	0.890	42.149	-3.03%	-2.33%
			725	0.868	41.118	0.891	42.071	-2.58%	-2.27%
			750	0.876	41.074	0.894	41.942	-2.01%	-2.07%
			770	0.883	41.038	0.895	41.838	-1.34%	-1.91%
			785	0.888	40.988	0.896	41.760	-0.89%	-1.85%
09/15/2025	750 Head	22.5	800	0.892	40.917	0.897	41.682	-0.56%	-1.84%
			680	0.862	41.210	0.888	42.305	-2.93%	-2.59%
			695	0.866	41.183	0.889	42.227	-2.59%	-2.47%
			710	0.870	41.152	0.890	42.149	-2.25%	-2.37%
			725	0.875	41.109	0.891	42.071	-1.80%	-2.29%
			750	0.883	41.029	0.894	41.942	-1.23%	-2.18%
			770	0.889	40.969	0.895	41.838	-0.67%	-2.08%
			785	0.894	40.921	0.896	41.760	-0.22%	-2.01%
09/01/2025	835 Head	24.0	800	0.899	40.889	0.897	41.682	0.22%	-1.88%
			815	0.917	40.127	0.898	41.594	2.12%	-3.53%
			820	0.920	40.113	0.899	41.578	2.34%	-3.52%
			835	0.927	40.088	0.900	41.500	3.00%	-3.40%
			850	0.934	40.073	0.916	41.500	1.97%	-3.44%
			815	0.897	40.843	0.898	41.594	-0.11%	-1.81%
			820	0.899	40.822	0.899	41.578	0.00%	-1.82%
			835	0.904	40.777	0.900	41.500	0.44%	-1.74%
09/15/2025	835 Head	22.5	850	0.909	40.762	0.916	41.500	-0.78%	-1.78%
			815	0.903	40.820	0.898	41.594	0.56%	-1.86%
			820	0.906	40.806	0.899	41.578	0.67%	-1.86%
			835	0.909	40.784	0.900	41.500	1.00%	-1.77%
			850	0.914	40.741	0.916	41.500	-0.22%	-1.83%
			815	0.860	42.650	0.898	41.594	-4.23%	2.54%
			820	0.862	42.629	0.899	41.578	-4.12%	2.53%
			835	0.866	42.578	0.900	41.500	-3.78%	2.60%
09/15/2025	835 Head	21.7	850	0.971	42.546	0.916	41.500	-4.91%	2.52%
			1610	1.244	38.323	1.290	40.300	-3.57%	-4.91%
			1620	1.248	38.300	1.296	40.284	-3.70%	-4.93%
			1640	1.258	38.275	1.307	40.253	-3.75%	-4.91%
			1650	1.263	38.267	1.313	40.237	-3.81%	-4.90%
			1700	1.315	40.963	1.343	40.145	-2.08%	2.04%
			1705	1.319	40.959	1.345	40.141	-1.93%	2.04%
			1710	1.322	40.955	1.348	40.136	-1.93%	2.04%
09/01/2025	1750 Head	19.2	1720	1.328	40.940	1.354	40.126	-1.92%	2.03%
			1745	1.341	40.901	1.368	40.087	-1.97%	2.03%
			1750	1.343	40.891	1.371	40.079	-2.04%	2.03%
			1770	1.353	40.849	1.383	40.047	-2.17%	2.00%
			1790	1.366	40.803	1.394	40.016	-2.01%	1.97%
			1700	1.323	40.186	1.343	40.145	-1.49%	0.10%
			1705	1.326	40.176	1.345	40.141	-1.41%	0.09%
			1710	1.329	40.165	1.348	40.136	-1.41%	0.07%
09/04/2025	1750 Head	20.9	1720	1.335	40.145	1.354	40.126	-1.40%	0.08%
			1745	1.351	40.112	1.368	40.087	-1.24%	0.06%
			1750	1.355	40.107	1.371	40.079	-1.17%	0.07%
			1770	1.367	40.091	1.383	40.047	-1.16%	0.11%
			1790	1.378	40.052	1.394	40.016	-1.15%	0.11%
			1700	1.308	38.897	1.343	40.145	-2.61%	-3.11%
			1705	1.310	38.888	1.345	40.141	-2.60%	-3.12%
			1710	1.313	38.879	1.348	40.136	-2.60%	-3.13%
09/08/2025	1750 Head	20.4	1720	1.318	38.861	1.354	40.126	-2.66%	-3.15%
			1745	1.332	38.823	1.368	40.087	-2.63%	-3.15%
			1750	1.336	38.814	1.371	40.079	-2.55%	-3.16%
			1770	1.348	38.789	1.383	40.047	-2.53%	-3.14%
			1790	1.359	38.758	1.394	40.016	-2.51%	-3.14%
			1700	1.289	41.347	1.343	40.145	-4.02%	2.99%
			1705	1.291	41.340	1.345	40.141	-4.01%	2.99%
			1710	1.293	41.333	1.348	40.136	-4.06%	2.98%
09/12/2025	1750 Head	21.5	1720	1.298	41.320	1.354	40.126	-4.14%	2.98%
			1745	1.311	41.298	1.368	40.087	-4.17%	3.02%
			1750	1.314	41.293	1.371	40.079	-4.16%	3.03%
			1770	1.324	41.263	1.383	40.047	-4.27%	3.09%
			1790	1.334	41.271	1.394	40.016	-4.30%	3.14%
			1700	1.308	38.897	1.343	40.145	-2.61%	-3.11%
			1705	1.310	38.888	1.345	40.141	-2.60%	-3.12%
			1710	1.313	38.879	1.348	40.136	-2.60%	-3.13%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 110 of 171

REV 22.0
03/30/2022

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
09/04/2025	1900 Head	20.9	1850	1.411	39.505	1.400	40.000	0.79%	-0.16%
			1860	1.416	39.503	1.400	40.000	1.29%	-0.19%
			1880	1.430	39.898	1.400	40.000	2.14%	-0.25%
			1900	1.441	39.874	1.400	40.000	2.93%	-0.31%
			1905	1.444	39.867	1.400	40.000	3.14%	-0.33%
			1910	1.447	39.862	1.400	40.000	3.36%	-0.34%
			1920	1.452	39.847	1.400	40.000	3.71%	-0.38%
			1850	1.397	38.796	1.400	40.000	-0.21%	-3.04%
			1860	1.403	38.774	1.400	40.000	0.21%	-3.07%
			1880	1.416	38.750	1.400	40.000	1.14%	-3.13%
09/04/2025	1900 Head	20.3	1900	1.427	38.734	1.400	40.000	1.93%	-3.17%
			1905	1.430	38.730	1.400	40.000	2.14%	-3.18%
			1910	1.433	38.726	1.400	40.000	2.36%	-3.19%
			1920	1.438	38.716	1.400	40.000	2.71%	-3.21%
			1850	1.391	38.646	1.400	40.000	-0.64%	-3.39%
			1860	1.397	38.633	1.400	40.000	-0.21%	-3.42%
			1880	1.408	38.608	1.400	40.000	0.57%	-3.48%
			1890	1.410	38.598	1.400	40.000	1.36%	-3.52%
			1905	1.422	38.597	1.400	40.000	1.57%	-3.53%
			1910	1.425	38.585	1.400	40.000	1.79%	-3.54%
09/08/2025	1900 Head	20.4	1920	1.431	38.575	1.400	40.000	2.21%	-3.56%
			1850	1.365	41.174	1.400	40.000	-2.50%	2.94%
			1860	1.371	41.163	1.400	40.000	-2.07%	2.91%
			1880	1.382	41.148	1.400	40.000	-1.29%	2.87%
			1900	1.392	41.127	1.400	40.000	-0.57%	2.82%
			1905	1.395	41.121	1.400	40.000	-0.36%	2.80%
			1910	1.397	41.116	1.400	40.000	-0.21%	2.79%
			1920	1.402	41.103	1.400	40.000	0.14%	2.76%
			1850	1.370	40.989	1.400	40.000	-2.14%	1.21%
			1860	1.376	40.977	1.400	40.000	-1.71%	1.19%
09/12/2025	1900 Head	21.5	1880	1.387	40.454	1.400	40.000	-0.93%	1.14%
			1900	1.397	40.422	1.400	40.000	-0.21%	1.05%
			1905	1.399	40.414	1.400	40.000	-0.07%	1.04%
			1910	1.401	40.406	1.400	40.000	0.07%	1.02%
			1920	1.406	40.392	1.400	40.000	0.43%	0.98%
			2300	1.701	38.500	1.670	39.500	1.86%	-1.04%
			2310	1.711	38.294	1.679	39.480	1.91%	-3.00%
			2320	1.720	38.292	1.687	39.460	1.96%	-2.96%
			2400	1.770	38.151	1.756	39.289	0.80%	-2.90%
			2450	1.815	38.095	1.800	39.200	0.83%	-2.82%
09/01/2025	2450 Head	20.1	2480	1.833	38.041	1.833	39.162	0.00%	-2.86%
			2500	1.844	38.005	1.855	39.136	-0.59%	-2.89%
			2510	1.852	37.985	1.866	39.123	-0.75%	-2.91%
			2535	1.876	37.947	1.893	39.092	-0.90%	-2.93%
			2550	1.892	37.929	1.909	39.073	-0.89%	-2.93%
			2560	1.901	37.911	1.920	39.060	-0.99%	-2.94%
			2600	1.923	37.856	1.964	39.009	-1.78%	-2.96%
			2650	1.967	37.742	2.018	38.945	-2.53%	-3.09%
			2680	1.999	37.689	2.051	38.907	-2.54%	-3.13%
			2700	2.014	37.673	2.073	38.882	-2.85%	-3.11%
09/11/2025	2450 Head	20.2	2300	1.691	41.236	1.670	39.500	1.26%	4.39%
			2310	1.697	41.227	1.679	39.480	1.07%	4.43%
			2320	1.705	41.216	1.687	39.460	1.07%	4.50%
			2400	1.772	41.148	1.756	39.289	0.91%	4.73%
			2450	1.814	41.074	1.800	39.200	0.78%	4.78%
			2480	1.837	41.016	1.833	39.162	0.22%	4.73%
			2500	1.851	40.980	1.855	39.136	-0.22%	4.71%
			2510	1.856	40.961	1.866	39.123	-0.54%	4.70%
			2535	1.878	40.915	1.893	39.092	-0.75%	4.64%
			2550	1.889	40.873	1.909	39.073	-1.05%	4.61%
09/15/2025	2450 Head	20.0	2560	1.899	40.840	1.920	39.060	-1.09%	4.56%
			2600	1.931	40.771	1.964	39.009	-1.68%	4.52%
			2650	1.970	40.666	2.018	38.945	-2.38%	4.42%
			2680	1.995	40.616	2.051	38.907	-2.73%	4.39%
			2700	2.013	40.613	2.073	38.882	-2.89%	4.45%
			2300	1.731	40.957	1.670	39.500	3.65%	3.69%
			2310	1.739	40.941	1.679	39.480	3.57%	3.70%
			2320	1.749	40.939	1.687	39.460	3.68%	3.75%
			2400	1.813	40.802	1.756	39.289	3.25%	3.85%
			2450	1.852	40.692	1.800	39.200	2.89%	3.81%
09/15/2025	2450 Head	20.3	2480	1.872	40.633	1.833	39.162	2.13%	3.76%
			2500	1.885	40.596	1.855	39.136	1.62%	3.73%
			2510	1.891	40.579	1.866	39.123	1.34%	3.72%
			2535	1.912	40.527	1.893	39.092	1.00%	3.67%
			2550	1.924	40.510	1.909	39.073	0.79%	3.66%
			2560	1.934	40.496	1.920	39.060	0.73%	3.65%
			2600	1.964	40.427	1.964	39.009	0.00%	3.64%
			2650	2.006	40.358	2.018	38.945	-0.59%	3.63%
			2680	2.033	40.314	2.051	38.907	-0.88%	3.62%
			2700	2.051	40.302	2.073	38.882	-1.06%	3.65%
09/15/2025	2450 Head	20.5	2300	1.698	40.927	1.670	39.500	1.68%	3.61%
			2310	1.706	40.911	1.679	39.480	1.61%	3.62%
			2320	1.716	40.908	1.687	39.460	1.72%	3.67%
			2400	1.778	40.763	1.756	39.289	1.25%	3.75%
			2450	1.815	40.660	1.800	39.200	0.83%	3.72%
			2480	1.836	40.602	1.833	39.162	0.16%	3.68%
			2500	1.850	40.569	1.855	39.136	-0.27%	3.66%
			2510	1.855	40.555	1.866	39.123	-0.54%	3.65%
			2535	1.875	40.503	1.893	39.092	-0.95%	3.61%
			2550	1.886	40.480	1.909	39.073	-1.20%	3.60%
09/15/2025	2450 Head	20.5	2560	1.894	40.459	1.920	39.060	-1.35%	3.58%
			2600	1.926	40.407	1.964	39.009	-1.93%	3.58%
			2650	1.964	40.345	2.018	38.945	-2.68%	3.59%
			2680	1.989	40.300	2.051	38.907	-3.02%	3.58%
			2700	2.009	40.291	2.073	38.882	-3.09%	3.62%
			2400	1.752	38.940	1.756	39.289	-0.23%	-0.89%
			2450	1.793	38.903	1.800	39.200	-0.39%	-0.76%
			2480	1.813	38.808	1.833	39.162	-1.09%	-0.90%
			2500	1.830	38.762	1.855	39.136	-1.35%	-0.96%
			2510	1.840	38.751	1.866	39.123	-1.39%	-0.95%
09/15/2025	2450 Head	20.5	2535	1.863	38.745	1.893	39.092	-1.58%	-0.89%
			2550	1.874	38.733	1.909	39.073	-1.83%	-0.87%
			2560	1.881	38.710	1.920	39.060	-2.03%	-0.90%
			2600	1.910	38.598	1.964	39.009	-2.73%	-1.08%
			2650	1.950	38.529	2.018	38.945	-3.12%	-1.07%
			2680	1.975	38.477	2.051	38.907	-3.71%	-1.11%
			2700	1.987	38.427	2.073	38.882	-4.15%	-1.17%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 111 of 171

REV 22.0
03/30/2022

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
09/18/2025	2450 Head	21.5	2300	1.708	39.567	1.670	39.500	2.28%	0.17%
			2310	1.716	39.556	1.679	39.480	2.20%	0.19%
			2320	1.724	39.551	1.687	39.460	2.19%	0.23%
			2400	1.784	39.487	1.758	39.289	1.59%	0.50%
			2450	1.827	39.324	1.800	39.200	1.50%	0.44%
			2480	1.849	39.343	1.833	39.162	0.87%	0.46%
			2500	1.867	39.304	1.855	39.136	0.65%	0.43%
			2510	1.876	39.298	1.866	39.123	0.54%	0.44%
			2535	1.897	39.230	1.893	39.092	0.21%	0.35%
			2550	1.908	39.193	1.909	39.073	-0.05%	0.31%
			2560	1.916	39.153	1.920	39.060	-0.21%	0.24%
			2600	1.948	39.119	1.964	39.009	-0.81%	0.28%
			2650	1.980	38.987	2.018	38.945	-1.39%	0.11%
			2680	2.014	38.917	2.051	38.907	-1.80%	0.03%
			2700	2.030	38.890	2.073	38.882	-2.07%	0.02%
			2300	1.727	40.976	1.670	39.500	3.41%	3.74%
			2310	1.735	40.970	1.679	39.480	3.34%	3.77%
			2320	1.744	40.967	1.687	39.460	3.38%	3.82%
			2400	1.805	40.907	1.758	39.289	2.65%	4.12%
			2450	1.850	40.795	1.800	39.200	2.78%	4.07%
09/18/2025	2450 Head	20.1	2480	1.873	40.779	1.833	39.162	2.18%	4.13%
			2500	1.891	40.736	1.855	39.136	1.94%	4.09%
			2510	1.900	40.722	1.866	39.123	1.82%	4.05%
			2535	1.921	40.663	1.893	39.092	1.48%	4.02%
			2550	1.933	40.623	1.909	39.073	1.26%	3.97%
			2560	1.942	40.584	1.920	39.060	1.19%	3.90%
			2600	1.977	40.598	1.964	39.009	0.66%	3.97%
			2650	2.022	40.431	2.018	38.945	0.20%	3.82%
			2680	2.047	40.355	2.051	38.907	-0.20%	3.72%
			2700	2.064	40.328	2.073	38.882	-0.43%	3.72%
			2300	1.863	39.151	1.670	39.500	-0.42%	-0.88%
			2310	1.870	39.147	1.679	39.480	-0.54%	-0.86%
			2320	1.878	39.143	1.687	39.460	-0.53%	-0.80%
			2400	1.736	38.997	1.758	39.289	-1.14%	-0.74%
			2450	1.775	38.947	1.800	39.200	-1.39%	-0.69%
			2480	1.796	38.882	1.833	39.162	-2.02%	-0.71%
			2500	1.811	38.845	1.855	39.136	-2.37%	-0.74%
			2510	1.820	38.826	1.866	39.123	-2.47%	-0.76%
			2535	1.842	38.801	1.893	39.092	-2.69%	-0.74%
09/25/2025	2450 Head	20.1	2550	1.855	38.786	1.909	39.073	-2.83%	-0.73%
			2560	1.863	38.771	1.920	39.060	-2.97%	-0.74%
			2600	1.893	38.685	1.964	39.009	-3.62%	-0.83%
			2650	1.935	38.598	2.018	38.945	-4.11%	-0.89%
			2680	1.958	38.554	2.051	38.907	-4.53%	-0.91%
			2700	1.972	38.528	2.073	38.882	-4.87%	-0.93%
			2300	1.720	39.752	1.670	39.500	2.89%	0.64%
			2310	1.727	39.739	1.679	39.480	2.86%	0.66%
			2320	1.735	39.727	1.687	39.460	2.85%	0.68%
			2400	1.795	39.632	1.758	39.289	2.22%	0.87%
			2450	1.835	39.498	1.800	39.200	1.94%	0.76%
			2480	1.858	39.474	1.833	39.162	1.36%	0.80%
			2500	1.875	39.427	1.855	39.136	1.08%	0.74%
			2510	1.883	39.410	1.866	39.123	0.91%	0.73%
			2535	1.901	39.385	1.893	39.092	0.42%	0.67%
			2550	1.911	39.319	1.909	39.073	0.10%	0.63%
			2560	1.918	39.283	1.920	39.060	-0.10%	0.57%
			2600	1.950	39.258	1.964	39.009	-0.71%	0.64%
			2650	1.989	39.148	2.018	38.945	-1.44%	0.52%
09/12/2025	3600 Head	20.2	2680	2.012	39.080	2.051	38.907	-1.90%	0.44%
			2700	2.030	39.059	2.073	38.882	-2.07%	0.46%
			3300	2.610	39.947	2.708	38.157	-3.82%	4.43%
			3350	2.652	39.754	2.759	38.100	-3.88%	4.34%
			3450	2.742	39.603	2.861	37.986	-4.16%	4.31%
			3500	2.785	39.514	2.913	37.929	-4.36%	4.18%
			3550	2.839	39.399	2.984	37.871	-4.22%	4.03%
			3560	2.848	39.329	2.974	37.860	-4.24%	3.88%
			3600	2.862	39.304	3.015	37.814	-4.08%	3.94%
			3650	2.936	39.202	3.066	37.757	-4.24%	3.82%
			3660	2.973	39.190	3.107	37.711	-4.31%	3.82%
			3700	2.984	39.099	3.117	37.700	-4.27%	3.71%
			3750	3.028	39.045	3.169	37.643	-4.81%	3.72%
			3800	3.173	38.784	3.323	37.471	-4.33%	3.50%
			3830	3.207	38.772	3.353	37.437	-4.35%	3.57%
			4100	3.393	38.486	3.528	37.243	-3.83%	3.28%
			4150	3.457	38.413	3.579	37.186	-3.41%	3.30%
			3300	2.778	38.005	2.708	38.157	2.28%	-0.40%
09/15/2025	3600 Head	20.0	3350	2.814	37.853	2.759	38.100	1.92%	-0.44%
			3450	2.897	37.853	2.861	37.986	1.26%	-0.38%
			3500	2.937	37.804	2.913	37.929	0.82%	-0.33%
			3550	2.980	37.721	2.984	37.871	0.54%	-0.40%
			3560	2.988	37.637	2.974	37.860	0.47%	-0.59%
			3600	3.028	37.673	3.015	37.814	0.43%	-0.37%
			3650	3.071	37.577	3.066	37.757	0.16%	-0.48%
			3660	3.089	37.525	3.107	37.711	-0.29%	-0.49%
			3700	3.107	37.491	3.117	37.700	-0.32%	-0.67%
			3750	3.144	37.413	3.169	37.643	-0.79%	-0.61%
			3800	3.265	37.242	3.323	37.471	-1.75%	-0.61%
			3830	3.295	37.235	3.353	37.437	-1.73%	-0.54%
			4100	3.443	36.987	3.528	37.243	-2.41%	-0.69%
			4150	3.500	36.909	3.579	37.186	-2.21%	-0.69%
			3300	2.987	38.496	2.708	38.157	-4.47%	0.89%
			3350	2.939	38.403	2.759	38.100	-4.35%	0.80%
			3450	2.733	38.168	2.861	37.986	-4.47%	0.48%
			3500	2.772	38.153	2.913	37.929	-4.64%	0.59%
09/22/2025	3600 Head	20.5	3550	2.921	38.063	2.984	37.871	-4.82%	0.51%
			3560	2.833	38.022	2.974	37.860	-4.74%	0.43%
			3600	2.865	37.868	3.015	37.814	-4.98%	0.14%
			3650	2.919	37.806	3.066	37.757	-4.79%	0.13%
			3660	2.959	37.774	3.107	37.711	-4.76%	0.17%
			3700	2.966	37.758	3.117	37.700	-4.84%	0.19%
			3750	3.021	37.649	3.169	37.643	-4.67%	0.02%
			3800	3.174	37.343	3.323	37.471	-4.48%	-0.34%
			3830	3.265	37.276	3.353	37.437	-4.41%	-0.16%
			4100	3.381	37.079	3.528	37.243	-4.17%	-0.44%
			4150	3.431	36.992	3.579	37.186	-4.14%	-0.52%
			3300	2.988	37.870	2.708	38.157	-4.06%	-0.75%
			3350	2.642	37.763	2.759	38.100	-4.24%	-0.83%
			3450	2.735	37.665	2.861	37.986	-4.40%	-1.11%
			3500	2.777	37.473	2.913	37.929	-4.67%	-1.20%
			3550	2.833	37.396	2.984	37.871	-4.42%	-1.25%
			3560	2.844	37.359	2.974	37.860	-4.37%	-1.32%
			3600	2.890	37.341	3.015	37.814	-4.19%	-1.25%
			3650	2.903	37.166	3.066	37.757	-4.34%	-1.23%
09/25/2025	3600 Head	19.9	3660	2.966	37.136	3.107	37.711	-4.54%	-1.52%
			3700	2.976	37.139	3.117	37.700	-4.52%	-1.49%
			3750	3.033	36.998	3.169	37.643	-4.29%	-1.75%
			3800	3.190	36.749	3.323	37.471	-3.70%	-1.83%
			3830	3.217	36.742	3.353	37.437	-3.06%	-1.88%
			4100	3.404	36.325	3.528	37.243	-3.51%	-2.46%
			4150	3.455	36.309	3.579	37.186	-3.46%	-2.38%

Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/15/2025	5200-5800 Head	20.3	5150	4.553	34.964	4.608	36.050	-1.19%	-3.01%
			5160	4.556	34.927	4.618	36.040	-1.34%	-3.09%
			5170	4.571	34.828	4.629	36.030	-1.25%	-3.06%
			5180	4.572	34.809	4.635	36.009	-1.36%	-3.02%
			5190	4.550	34.958	4.645	35.988	-1.16%	-2.85%
			5200	4.593	34.916	4.655	35.966	-1.33%	-2.97%
			5210	4.609	34.861	4.666	35.975	-1.22%	-3.10%
			5220	4.628	34.861	4.676	35.963	-1.03%	-3.06%
			5240	4.645	34.863	4.696	35.940	-1.09%	-3.00%
			5250	4.649	34.764	4.706	35.929	-1.21%	-3.24%
			5260	4.667	34.751	4.717	35.917	-1.06%	-3.28%
			5270	4.688	34.776	4.727	35.906	-0.83%	-3.15%
			5280	4.715	34.816	4.737	35.894	-0.46%	-3.00%
			5290	4.722	34.752	4.748	35.883	-0.55%	-3.15%
			5300	4.713	34.678	4.758	35.871	-0.95%	-3.33%
			5310	4.697	34.683	4.768	35.860	-1.49%	-3.28%
			5320	4.702	34.733	4.778	35.849	-1.59%	-3.11%
			5330	4.698	34.733	4.783	35.843	-1.25%	-3.96%
			5340	4.908	34.270	4.973	35.632	-1.31%	-3.82%
			5350	4.922	34.323	4.983	35.620	-1.22%	-3.64%
			5360	4.944	34.261	4.994	35.609	-1.00%	-3.79%
			5370	4.948	34.155	5.004	35.597	-1.12%	-4.05%
			5380	4.959	34.146	5.014	35.586	-1.10%	-4.05%
			5390	4.971	34.209	5.024	35.574	-1.05%	-3.84%
			5400	5.011	34.109	5.045	35.551	-0.67%	-4.06%
			5410	5.039	34.071	5.065	35.529	-0.51%	-4.10%
			5420	5.059	34.154	5.076	35.518	-0.33%	-3.84%
			5430	5.160	34.094	5.096	35.506	-0.39%	-3.98%
			5440	5.083	33.978	5.106	35.483	-0.45%	-4.24%
			5450	5.121	34.056	5.127	35.460	-0.12%	-3.96%
			5460	5.122	33.980	5.137	35.449	-0.29%	-4.20%
			5470	5.133	33.917	5.147	35.437	-0.27%	-4.29%
			5480	5.142	33.844	5.158	35.426	-0.31%	-4.18%
			5490	5.155	34.005	5.168	35.414	-0.25%	-3.98%
			5500	5.165	33.959	5.176	35.403	-0.28%	-4.08%
			5510	5.170	33.845	5.188	35.391	-0.35%	-4.37%
			5520	5.214	33.880	5.214	35.383	0.00%	-4.19%
			5530	5.214	33.849	5.219	35.357	-0.10%	-4.27%
			5540	5.226	33.831	5.224	35.351	0.04%	-4.30%
			5550	5.231	33.755	5.234	35.340	-0.06%	-4.49%
			5560	5.250	33.770	5.245	35.329	0.10%	-4.41%
			5570	5.253	33.880	5.255	35.317	0.16%	-4.21%
			5580	5.270	33.814	5.265	35.305	0.09%	-4.22%
			5590	5.269	33.783	5.270	35.300	-0.02%	-4.30%
			5600	5.269	33.783	5.270	35.300	-0.02%	-4.30%
			5610	5.272	33.718	5.275	35.294	-0.08%	-4.47%
			5620	5.291	33.688	5.296	35.271	-0.02%	-4.46%
			5630	5.322	33.730	5.305	35.230	0.32%	-4.28%
			5640	5.343	33.689	5.315	35.210	0.53%	-4.29%
			5650	5.342	33.646	5.320	35.200	0.41%	-4.41%
			5660	5.342	33.610	5.325	35.197	0.32%	-4.51%
			5670	5.346	33.619	5.336	35.190	0.19%	-4.46%
			5680	5.346	33.619	5.336	35.190	0.19%	-4.46%
			5690	5.346	33.619	5.336	35.190	0.19%	-4.46%
			5700	5.361	33.673	5.347	35.163	0.26%	-4.29%
			5710	5.381	33.610	5.357	35.177	0.45%	-4.45%
			5720	5.391	33.520	5.379	35.163	0.22%	-4.67%
			5730	4.456	35.910	4.608	36.050	-3.30%	-0.39%
09/22/2025	5200-5800 Head	21.7	5150	4.467	35.898	4.618	36.040	-3.27%	-0.39%
			5160	4.458	35.868	4.629	36.030	-3.67%	-0.46%
			5170	4.475	35.865	4.635	36.009	-3.43%	-0.40%
			5180	4.489	35.836	4.645	35.988	-3.36%	-0.45%
			5190	4.506	35.857	4.655	35.966	-3.20%	-0.38%
			5200	4.512	35.838	4.666	35.975	-3.30%	-0.38%
			5210	4.517	35.789	4.676	35.963	-3.40%	-0.51%
			5220	4.549	35.764	4.696	35.940	-3.13%	-0.49%
			5240	4.560	35.713	4.706	35.929	-3.10%	-0.60%
			5250	4.574	35.705	4.717	35.917	-3.03%	-0.59%
			5260	4.587	35.707	4.727	35.906	-2.96%	-0.55%
			5270	4.592	35.691	4.737	35.894	-3.06%	-0.57%
			5280	4.598	35.668	4.748	35.883	-3.16%	-0.60%
			5290	4.613	35.639	4.758	35.871	-3.05%	-0.65%
			5300	4.627	35.629	4.768	35.860	-2.96%	-0.64%
			5310	4.635	35.607	4.778	35.849	-2.96%	-0.66%
			5320	4.630	35.302	4.963	35.643	-2.65%	-0.95%
			5330	4.646	35.283	4.973	35.632	-2.55%	-0.98%
			5340	4.652	35.261	4.983	35.620	-2.43%	-1.01%
			5350	4.674	35.249	4.994	35.609	-2.40%	-1.01%
			5360	4.695	35.221	5.004	35.597	-2.36%	-1.06%
			5370	4.696	35.199	5.014	35.586	-2.35%	-1.09%
			5380	4.906	35.190	5.024	35.574	-2.35%	-1.08%
			5390	4.925	35.157	5.045	35.551	-2.38%	-1.11%
			5400	4.951	35.133	5.065	35.529	-2.25%	-1.11%
			5410	4.963	35.111	5.076	35.518	-2.23%	-1.15%
			5420	4.978	35.073	5.086	35.506	-2.12%	-1.22%
			5430	4.985	35.065	5.106	35.483	-2.37%	-1.18%
			5440	5.012	35.044	5.127	35.460	-2.24%	-1.17%
			5450	5.038	35.025	5.137	35.449	-1.93%	-1.20%
			5460	5.045	35.004	5.147	35.437	-1.98%	-1.22%
			5470	5.059	34.980	5.158	35.426	-1.92%	-1.26%
			5480	5.066	34.960	5.168	35.414	-1.97%	-1.28%
			5490	5.074	34.915	5.178	35.403	-2.01%	-1.38%
			5500	5.073	34.863	5.188	35.391	-2.22%	-1.38%
			5510	5.124	34.902	5.214	35.363	-1.72%	-1.30%
			5520	5.128	34.888	5.219	35.357	-1.74%	-1.33%
			5530	5.131	34.876	5.224	35.351	-1.78%	-1.34%
			5540	5.147	34.829	5.234	35.340	-1.66%	-1.45%
			5550	5.159	34.829	5.245	35.329	-1.72%	-1.42%
			5560	5.165	34.771	5.255	35.317	-1.71%	-1.55%
			5570	5.160	34.756	5.265	35.305	-1.99%	-1.56%
			5580	5.170	34.782	5.270	35.300	-1.90%	-1.47%
			5590	5.170	34.782	5.270	35.300	-1.90%	-1.47%
			5600	5.170	34.797	5.275	35.294	-1.90%	-1.47%
			5610	5.216	34.775	5.296	35.271	-1.51%	-1.41%
			5620	5.223	34.714	5.305	35.230	-1.55%	-1.46%
			5630	5.231	34.681	5.315	35.210	-1.58%	-1.50%
			5640	5.236	34.679	5.320	35.200	-1.59%	-1.49%
			5650	5.243	34.667	5.325	35.197	-1.54%	-1.51%
			5660	5.251	34.659	5.336	35.190	-1.59%	-1.51%
			5670	5.251	34.659	5.336	35.190	-1.59%	-1.51%
			5680	5.251	34.659	5.336	35.190	-1.59%	-1.51%
			5690	5.253	34.659	5.347	35.183	-1.57%	-1.64%
			5700	5.271	34.609	5.357	35.177	-1.61%	-1.62%
			5710	5.290	34.645	5.379	35.163	-1.60%	-1.47%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 113 of 171

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
10/20/2025	5200-5800 Head	19.8	5150	4.694	35.997	4.608	36.050	1.87%	-0.15%
			5160	4.709	36.002	4.618	36.040	1.97%	-0.11%
			5170	4.714	35.967	4.629	36.030	1.84%	-0.17%
			5180	4.737	35.961	4.635	36.009	2.20%	-0.13%
			5190	4.754	35.934	4.645	35.998	2.35%	-0.18%
			5200	4.765	35.962	4.655	35.986	2.36%	-0.07%
			5210	4.777	35.953	4.666	35.975	2.38%	-0.06%
			5220	4.788	35.881	4.676	35.963	2.40%	-0.23%
			5240	4.817	35.841	4.696	35.940	2.58%	-0.28%
			5250	4.822	35.790	4.706	35.929	2.46%	-0.39%
			5260	4.837	35.782	4.717	35.917	2.54%	-0.38%
			5270	4.851	35.797	4.727	35.906	2.62%	-0.30%
			5280	4.856	35.775	4.737	35.894	2.51%	-0.33%
			5290	4.872	35.739	4.748	35.883	2.61%	-0.40%
			5300	4.899	35.683	4.758	35.871	2.96%	-0.52%
			5310	4.906	35.688	4.768	35.860	2.89%	-0.48%
			5320	4.894	35.698	4.778	35.849	2.43%	-0.42%
			5500	5.126	35.317	4.963	35.643	3.28%	-0.91%
			5510	5.136	35.284	4.973	35.632	3.28%	-0.98%
			5520	5.152	35.258	4.983	35.620	3.39%	-1.02%
			5530	5.165	35.245	4.994	35.609	3.42%	-1.02%
			5540	5.178	35.219	5.004	35.597	3.48%	-1.06%
			5550	5.191	35.191	5.014	35.586	3.53%	-1.11%
			5560	5.198	35.164	5.024	35.574	3.46%	-1.15%
			5580	5.224	35.126	5.045	35.551	3.55%	-1.20%
			5600	5.252	35.118	5.065	35.529	3.69%	-1.16%
			5610	5.248	35.116	5.076	35.518	3.39%	-1.13%
			5620	5.254	35.073	5.086	35.506	3.30%	-1.22%
			5640	5.280	35.025	5.106	35.483	3.41%	-1.29%
			5660	5.331	34.973	5.127	35.460	3.98%	-1.37%
			5670	5.359	34.945	5.137	35.449	4.32%	-1.42%
			5680	5.367	34.929	5.147	35.437	4.27%	-1.43%
			5690	5.368	34.934	5.158	35.426	4.07%	-1.39%
			5700	5.373	34.927	5.168	35.414	3.97%	-1.38%
			5710	5.384	34.918	5.178	35.403	3.98%	-1.37%
			5720	5.387	34.895	5.188	35.391	3.84%	-1.40%
			5745	5.433	34.837	5.214	35.363	4.20%	-1.49%
			5750	5.440	34.830	5.219	35.357	4.23%	-1.49%
			5755	5.444	34.817	5.224	35.351	4.21%	-1.51%
			5765	5.453	34.800	5.234	35.340	4.18%	-1.53%
			5775	5.467	34.759	5.245	35.329	4.23%	-1.61%
			5785	5.475	34.737	5.255	35.317	4.19%	-1.64%
			5795	5.480	34.714	5.265	35.305	4.08%	-1.67%
			5800	5.492	34.728	5.270	35.300	4.21%	-1.62%
			5805	5.502	34.726	5.275	35.294	4.30%	-1.61%
			5825	5.529	34.700	5.296	35.271	4.40%	-1.62%
			5835	5.535	34.661	5.305	35.230	4.34%	-1.62%
			5845	5.549	34.615	5.315	35.210	4.40%	-1.69%
			5850	5.557	34.604	5.320	35.200	4.45%	-1.69%
			5855	5.564	34.589	5.325	35.197	4.49%	-1.73%
			5865	5.581	34.550	5.336	35.190	4.59%	-1.82%
			5875	5.583	34.545	5.347	35.183	4.41%	-1.81%
			5885	5.590	34.558	5.357	35.177	4.35%	-1.76%
			5905	5.623	34.548	5.379	35.163	4.54%	-1.75%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 114 of 171

REV 22.0
03/30/2022

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
09/04/2025	6000 Head	22.1	5935	5.245	35.161	5.411	35.143	-3.07%	0.05%
			5970	5.266	35.114	5.448	35.120	-3.34%	-0.02%
			5985	5.286	35.078	5.464	35.110	-3.26%	-0.09%
			6000	5.315	35.046	5.480	35.100	-3.01%	-0.15%
			6025	5.364	35.023	5.510	35.070	-2.65%	-0.15%
			6065	5.400	34.977	5.557	35.022	-2.83%	-0.13%
			6075	5.403	34.964	5.569	35.010	-2.98%	-0.13%
			6085	5.411	34.939	5.580	34.998	-3.03%	-0.17%
			6185	5.558	34.792	5.698	34.878	-2.46%	-0.25%
			6275	5.691	34.597	5.805	34.770	-1.96%	-0.50%
			6285	5.698	34.601	5.816	34.758	-2.03%	-0.45%
			6305	5.705	34.612	5.840	34.734	-2.31%	-0.35%
			6345	5.750	34.489	5.887	34.686	-2.33%	-0.57%
			6475	5.926	34.252	6.041	34.530	-1.90%	-0.81%
			6485	5.939	34.248	6.052	34.518	-1.87%	-0.78%
			6500	5.955	34.270	6.070	34.500	-1.89%	-0.67%
			6505	5.965	34.277	6.076	34.494	-1.94%	-0.63%
			6545	5.990	34.228	6.122	34.446	-2.16%	-0.64%
			6665	6.127	33.949	6.265	34.302	-2.20%	-1.03%
			6675	6.135	33.904	6.273	34.290	-2.20%	-1.13%
			6685	6.147	33.878	6.285	34.278	-2.20%	-1.17%
			6715	6.199	33.849	6.319	34.242	-1.90%	-1.15%
			6785	6.271	33.708	6.400	34.158	-2.02%	-1.32%
			6825	6.329	33.668	6.447	34.110	-1.83%	-1.30%
			6985	6.506	33.473	6.633	33.918	-1.91%	-1.31%
			6995	6.511	33.466	6.644	33.906	-2.00%	-1.30%
			7000	6.513	33.459	6.650	33.900	-2.06%	-1.30%
			7005	6.516	33.449	6.656	33.894	-2.10%	-1.31%
			7025	6.531	33.393	6.680	33.870	-2.23%	-1.41%
			7500	7.144	32.556	7.240	33.300	-1.33%	-2.23%
			7980	7.703	31.811	7.816	32.724	-1.45%	-2.75%
			8000	7.742	31.892	7.840	32.700	-1.25%	-2.47%
09/08/2025	6000 Head	22.1	5935	5.507	36.152	5.411	35.143	1.77%	2.87%
			5970	5.517	36.130	5.448	35.120	1.27%	2.88%
			5985	5.539	36.072	5.464	35.110	1.37%	2.74%
			6000	5.515	36.024	5.480	35.100	0.64%	2.63%
			6025	5.531	35.925	5.510	35.070	0.38%	2.44%
			6065	5.603	35.878	5.557	35.022	0.83%	2.44%
			6075	5.607	35.832	5.569	35.010	0.68%	2.35%
			6085	5.612	35.804	5.580	34.998	0.57%	2.30%
			6185	5.782	35.654	5.698	34.878	1.47%	2.22%
			6275	5.912	35.458	5.805	34.770	1.84%	1.98%
			6285	5.911	35.481	5.816	34.758	1.63%	2.08%
			6305	5.935	35.497	5.840	34.734	1.63%	2.20%
			6345	5.980	35.327	5.887	34.686	1.58%	1.85%
			6475	6.142	35.060	6.041	34.530	1.67%	1.53%
			6485	6.165	35.058	6.052	34.518	1.87%	1.56%
			6500	6.181	35.085	6.070	34.500	1.83%	1.70%
			6505	6.183	35.095	6.076	34.494	1.76%	1.74%
			6545	6.205	35.017	6.122	34.446	1.36%	1.66%
			6665	6.316	34.742	6.265	34.302	0.81%	1.28%
			6675	6.338	34.703	6.273	34.290	1.04%	1.20%
			6685	6.360	34.658	6.285	34.278	1.19%	1.11%
			6715	6.402	34.669	6.319	34.242	1.31%	1.25%
			6785	6.476	34.460	6.400	34.158	1.19%	0.88%
			6825	6.555	34.443	6.447	34.110	1.68%	0.98%
			6985	6.713	34.228	6.633	33.918	1.21%	0.91%
			6995	6.697	34.239	6.644	33.906	0.80%	0.98%
			7000	6.697	34.229	6.650	33.900	0.71%	0.97%
			7005	6.690	34.209	6.656	33.894	0.65%	0.93%
			7025	6.754	34.028	6.680	33.870	1.11%	0.47%
09/17/2025	6000 Head	21.6	5935	5.270	34.224	5.411	35.143	-2.61%	-2.62%
			5970	5.303	34.154	5.448	35.120	-2.66%	-2.75%
			5985	5.320	34.120	5.464	35.110	-2.64%	-2.82%
			6000	5.343	34.114	5.480	35.100	-2.50%	-2.81%
			6025	5.393	34.086	5.510	35.070	-2.12%	-2.81%
			6065	5.435	34.014	5.557	35.022	-2.20%	-2.88%
			6075	5.441	33.969	5.569	35.010	-2.30%	-2.97%
			6085	5.443	33.957	5.580	34.998	-2.46%	-2.97%
			6185	5.582	33.806	5.698	34.878	-2.04%	-3.07%
			6275	5.703	33.619	5.805	34.770	-1.76%	-3.31%
			6285	5.709	33.627	5.816	34.758	-1.84%	-3.25%
			6305	5.725	33.650	5.840	34.734	-1.97%	-3.12%
			6345	5.777	33.551	5.887	34.686	-1.87%	-3.27%
			6475	5.933	33.307	6.041	34.530	-1.79%	-3.54%
			6485	5.955	33.311	6.052	34.518	-1.60%	-3.50%
			6500	5.977	33.317	6.070	34.500	-1.53%	-3.43%
			6505	5.984	33.330	6.076	34.494	-1.51%	-3.37%
			6545	6.015	33.253	6.122	34.446	-1.75%	-3.46%
			6665	6.137	32.998	6.265	34.302	-2.04%	-3.80%
			6675	6.156	32.980	6.273	34.290	-1.87%	-3.82%
			6685	6.175	32.933	6.285	34.278	-1.75%	-3.92%
			6715	6.197	32.945	6.319	34.242	-1.93%	-3.79%
			6785	6.299	32.758	6.400	34.158	-1.58%	-4.10%
			6825	6.338	32.732	6.447	34.110	-1.69%	-4.04%
			6985	6.511	32.537	6.633	33.918	-1.84%	-4.07%
			6995	6.508	32.549	6.644	33.906	-2.05%	-4.00%
			7000	6.514	32.547	6.650	33.900	-2.05%	-3.99%
			7005	6.524	32.535	6.656	33.894	-1.98%	-4.01%
			7025	6.571	32.410	6.680	33.870	-1.63%	-4.31%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 115 of 171

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
10/08/2025	6000 Head	21.7	5935	5.391	35.410	5.411	35.143	-0.37%	0.76%
			5970	5.414	35.376	5.448	35.120	-0.62%	0.73%
			5985	5.423	35.331	5.464	35.110	-0.75%	0.63%
			6000	5.437	35.281	5.480	35.100	-0.78%	0.52%
			6025	5.477	35.244	5.510	35.070	-0.60%	0.50%
			6065	5.529	35.175	5.557	35.022	-0.50%	0.44%
			6075	5.538	35.160	5.569	35.010	-0.56%	0.43%
			6085	5.546	35.137	5.580	34.998	-0.61%	0.40%
			6185	5.699	34.943	5.698	34.878	0.02%	0.19%
			6275	5.811	34.785	5.805	34.770	0.10%	0.04%
			6285	5.818	34.784	5.816	34.758	0.03%	0.07%
			6305	5.835	34.777	5.840	34.734	-0.09%	0.12%
			6345	5.888	34.650	5.887	34.686	0.02%	-0.10%
			6475	6.056	34.431	6.041	34.530	0.25%	-0.29%
			6485	6.066	34.438	6.052	34.518	0.23%	-0.23%
			6500	6.078	34.464	6.070	34.500	0.13%	-0.10%
			6505	6.080	34.471	6.076	34.494	0.07%	-0.07%
			6545	6.122	34.369	6.122	34.446	0.00%	-0.22%
			6665	6.250	34.123	6.265	34.302	-0.24%	-0.52%
			6675	6.258	34.077	6.273	34.290	-0.24%	-0.62%
			6685	6.273	34.048	6.285	34.278	-0.19%	-0.67%
			6715	6.326	34.008	6.319	34.242	0.11%	-0.68%
			6785	6.399	33.871	6.400	34.158	-0.02%	-0.84%
			6825	6.467	33.825	6.447	34.110	0.31%	-0.84%
			6985	6.631	33.631	6.633	33.918	-0.03%	-0.85%
			6995	6.629	33.618	6.644	33.906	-0.23%	-0.85%
			7000	6.629	33.608	6.650	33.900	-0.32%	-0.86%
			7005	6.630	33.593	6.656	33.894	-0.39%	-0.89%
			7025	6.654	33.518	6.680	33.870	-0.39%	-1.04%
			7500	7.290	32.649	7.240	33.300	0.69%	-1.95%
			7980	7.912	31.902	7.816	32.724	1.23%	-2.51%
			8000	7.919	31.993	7.840	32.700	1.01%	-2.16%

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: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 116 of 171

REV 22.0
03/30/2022

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	08/27/2025	21.6	21.6	1.00	1002	7539	1415	0.51	0.52	0.51	-1.73%	0.32	0.33	0.32	-1.23%	N/A	N/A	0.01	N/A
O	750	HEAD	09/01/2025	21.7	22.0	0.20	1054	7718	1407	1.71	8.68	8.55	-1.50%	1.14	5.61	5.70	1.60%	N/A	N/A	N/A	N/A
G	750	HEAD	09/02/2025	22.0	22.0	0.20	1054	7488	1415	1.62	8.68	8.10	-6.68%	1.09	5.61	5.45	-2.85%	N/A	N/A	N/A	N/A
O	750	HEAD	09/08/2025	21.1	20.8	0.20	1161	7718	1407	1.63	8.36	8.15	-2.51%	1.08	5.41	5.40	-0.18%	N/A	N/A	N/A	N/A
S	750	HEAD	09/10/2025	23.2	19.6	0.20	1161	7661	1558	1.69	8.36	8.45	1.08%	1.13	5.41	5.65	4.44%	N/A	N/A	N/A	N/A
G	750	HEAD	09/15/2025	22.7	21.6	0.20	1054	7488	1415	1.85	8.68	9.25	6.57%	1.23	5.61	6.15	9.63%	N/A	N/A	N/A	N/A
O	835	HEAD	09/01/2025	21.7	22.0	0.20	49047	7718	1407	2.00	9.94	10.00	5.93%	1.31	6.09	6.55	7.55%	N/A	N/A	N/A	N/A
S	835	HEAD	09/10/2025	23.2	19.6	0.20	46133	7661	1558	1.93	9.94	9.65	-2.92%	1.28	6.49	6.40	-1.39%	N/A	N/A	N/A	N/A
L	835	HEAD	09/15/2025	20.1	20.0	0.20	46133	7659	1272	1.96	9.94	9.80	-1.41%	1.32	6.49	6.60	1.69%	N/A	N/A	N/A	N/A
G	835	HEAD	09/15/2025	22.7	21.6	0.20	46133	7488	1415	2.07	9.94	10.35	4.12%	1.37	6.49	6.85	5.55%	N/A	N/A	N/A	N/A
G	1640	HEAD	10/06/2025	20.3	24.1	0.10	321	7539	1415	3.38	34.50	32.80	-2.03%	1.86	18.50	18.60	0.54%	N/A	N/A	N/A	N/A
M	1750	HEAD	09/01/2025	20.3	19.2	0.10	1150	7713	1530	3.93	36.40	39.30	7.97%	2.11	19.40	21.10	8.76%	N/A	N/A	N/A	N/A
M	1750	HEAD	09/04/2025	22.7	20.9	0.10	1148	7713	1530	3.98	36.90	39.80	7.86%	2.13	19.60	21.30	8.67%	N/A	N/A	N/A	N/A
N	1750	HEAD	09/08/2025	21.3	20.4	0.10	1150	7410	1213	3.67	36.40	36.70	0.82%	1.96	19.40	19.60	1.03%	N/A	N/A	N/A	N/A
L	1750	HEAD	09/12/2025	20.2	20.5	0.10	1150	7659	1272	3.69	36.40	36.90	1.37%	2.02	19.40	20.20	4.12%	N/A	N/A	N/A	N/A
N	1900	HEAD	09/04/2025	21.0	20.0	0.10	54148	7410	1213	4.21	39.60	42.10	6.31%	2.19	20.90	21.90	4.78%	N/A	N/A	N/A	N/A
M	1900	HEAD	09/04/2025	22.7	20.9	0.10	50800	7713	1530	4.23	40.20	42.30	5.22%	2.26	21.20	22.60	6.60%	N/A	N/A	N/A	N/A
N	1900	HEAD	09/08/2025	21.3	20.4	0.10	54148	7410	1213	4.25	39.60	42.50	7.32%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
L	1900	HEAD	09/12/2025	20.2	20.5	0.10	54148	7659	1272	4.33	39.60	43.30	9.34%	2.28	20.90	22.80	9.09%	N/A	N/A	N/A	N/A
L	1900	HEAD	09/17/2025	21.3	21.2	0.10	54148	7659	1272	4.33	39.60	43.30	9.34%	2.28	20.90	22.80	9.09%	N/A	N/A	N/A	N/A
Q	2300	HEAD	09/01/2025	24.4	20.1	0.10	1073	3914	1639	5.20	48.60	52.00	7.00%	2.50	23.50	25.00	6.38%	N/A	N/A	N/A	N/A
S3	2300	HEAD	09/11/2025	20.7	20.2	0.10	1117	7640	1645	4.95	49.40	49.50	0.20%	2.38	23.90	23.80	-0.42%	N/A	N/A	N/A	N/A
S3	2300	HEAD	09/18/2025	20.5	20.1	0.10	1008	7640	1645	5.12	49.40	51.20	3.64%	2.47	23.70	24.70	4.22%	N/A	N/A	N/A	N/A
S3	2300	HEAD	09/25/2025	20.7	20.1	0.10	1008	7640	1645	5.22	49.40	52.20	5.67%	2.51	23.70	25.10	5.91%	N/A	N/A	N/A	N/A
S3	2450	HEAD	09/11/2025	20.7	20.2	0.10	882	7640	1645	5.49	53.70	54.90	2.23%	2.57	25.10	25.70	2.39%	N/A	N/A	N/A	N/A
S3	2450	HEAD	09/15/2025	20.5	20.3	0.10	882	7640	1645	5.51	53.70	55.10	2.61%	2.59	25.10	25.90	3.19%	N/A	N/A	N/A	N/A
S5	2450	HEAD	09/15/2025	22.1	20.0	0.10	882	7565	1466	5.66	53.70	56.60	5.40%	2.64	25.10	26.40	5.18%	N/A	N/A	N/A	N/A
S	2450	HEAD	09/18/2025	21.7	20.6	0.10	797	7661	1558	4.99	52.00	49.90	-4.04%	2.36	24.40	23.60	-3.28%	N/A	N/A	N/A	N/A
S3	2450	HEAD	09/18/2025	20.5	20.1	0.10	882	7640	1645	5.69	53.70	56.90	5.96%	2.66	25.10	26.60	5.98%	N/A	N/A	N/A	N/A
S5	2450	HEAD	09/18/2025	22.2	21.5	0.10	945	7565	1466	4.83	52.90	48.30	-8.70%	2.29	25.00	22.90	-8.40%	N/A	N/A	N/A	N/A
S3	2600	HEAD	09/11/2025	20.7	20.2	0.10	1009	7640	1645	5.91	56.50	59.10	4.60%	2.66	25.40	26.60	4.72%	N/A	N/A	N/A	N/A
S	2600	HEAD	09/15/2025	23.1	21.0	0.10	1064	7661	1558	5.42	56.10	54.20	-3.39%	2.49	25.20	24.90	-1.19%	N/A	N/A	N/A	N/A
S3	2600	HEAD	09/15/2025	20.5	20.3	0.10	1009	7640	1645	5.85	56.50	58.50	3.54%	2.65	25.40	26.50	4.33%	N/A	N/A	N/A	N/A
S3	2600	HEAD	09/18/2025	20.5	20.1	0.10	1009	7640	1645	6.06	56.50	60.60	7.26%	2.74	25.40	27.40	7.87%	N/A	N/A	N/A	N/A
S3	2600	HEAD	09/25/2025	20.7	20.1	0.10	1009	7640	1645	5.79	56.50	57.90	2.48%	2.63	25.40	26.30	3.54%	N/A	N/A	N/A	N/A
S2	3500	HEAD	09/12/2025	20.9	20.2	0.10	1068	7402	1502	6.48	65.10	64.80	-0.46%	2.49	24.70	24.90	0.81%	N/A	N/A	N/A	N/A
S2	3500	HEAD	09/15/2025	20.3	20.0	0.10	1127	7402	1502	6.90	64.90	69.00	6.32%	2.57	24.70	25.70	4.05%	N/A	N/A	N/A	N/A
J	3500	HEAD	09/22/2025	21.9	20.6	0.10	1097	7660	1678	6.45	65.40	64.50	-1.38%	2.49	24.70	24.90	0.81%	N/A	N/A	N/A	N/A
J	3500	HEAD	09/25/2025	22.3	20.5	0.10	1097	7660	1678	6.71	65.40	67.10	2.60%	2.59	24.70	25.90	4.86%	N/A	N/A	N/A	N/A
S2	3700	HEAD	09/12/2025	20.9	20.2	0.10	1029	7402	1502	6.41	68.80	64.10	-6.83%	2.39	25.30	23.90	-5.53%	N/A	N/A	N/A	N/A
S2	3700	HEAD	09/15/2025	20.3	20.0	0.10	1096	7402	1502	6.57	69.60	65.70	-5.60%	2.38	25.60	23.80	-7.03%	N/A	N/A	N/A	N/A
J	3700	HEAD	09/22/2025	21.9	20.6	0.10	1067	7660	1678	6.36	66.90	63.60	-4.93%	2.36	24.30	23.60	-2.88%	N/A	N/A	N/A	N/A
J	3700	HEAD	09/25/2025	22.3	20.5	0.10	1067	7660	1678	6.67	66.90	66.70	-0.30%	2.48	24.30	24.80	2.06%	N/A	N/A	N/A	N/A
J	3900	HEAD	09/22/2025	21.9	20.6	0.10	1056	7660	1678	6.97	68.20	69.70	2.20%	2.48	23.80	24.80	4.20%	N/A	N/A	N/A	N/A
J	3900	HEAD	09/25/2025	22.3	20.5	0.10	1073	7660	1678	7.28	69.50	72.80	4.75%	2.59	24.30	25.90	6.58%	N/A	N/A	N/A	N/A
S1	5250	HEAD	09/15/2025	21.6	20.3	0.05	1237	7637	1652	3.77	79.50	75.40	-5.16%	1.07	22.60	21.40	-5.31%	N/A	N/A	N/A	N/A
S1	5250	HEAD	09/22/2025	21.7	21.7	0.05	1237	7637	1652	3.99	79.50	79.80	0.38%	1.15	22.60	23.00	1.77%	N/A	N/A	N/A	N/A
S5	5250	HEAD	10/20/2025	20.8	19.8	0.05	1237	7546	1368	3.74	79.50	74.80	-5.91%	1.06	22.60	21.20	-6.19%	N/A	N/A	N/A	N/A
S1	5600	HEAD	09/15/2025	21.6	20.3	0.05	1237	7637	1652	4.25	82.20	85.00	3.41%	1.20	23.60	24.00	1.69%	N/A	N/A	N/A	N/A
S1	5600	HEAD	09/22/2025	21.7	21.7	0.05	1237	7637	1652	4.30	82.20	86.00	4.62%	1.21	23.60	24.20	2.54%	N/A	N/A	N/A	N/A
S5	5600	HEAD	10/20/2025	20.8	19.8	0.05	1237	7546	1368	4.16	82.20	83.20	1.22%	1.18	23.60	23.60	0.00%	N/A	N/A	N/A	N/A
S1	5750	HEAD	09/15/2025	21.6	20.3	0.05	1237	7637	1652	3.83	79.00	76.60	-3.04%	1.09	22.40	21.80	-2.68%	N/A	N/A	N/A	N/A
S1	5750	HEAD	09/22/2025	21.7	21.7	0.05	1237	7637	1652	4.12	79.00	82.40	4.30%	1.18	22.40	23.60	5.36%	N/A	N/A	N/A	N/A
S5	5750	HEAD	10/20/2025	20.8	19.8	0.05	1237	7546	1368	3.73	79.00	74.60	-5.57%	1.06	22.40	21.20	-5.36%	N/A	N/A	N/A	N/A
S1	5850	HEAD	09/15/2025	21.6	20.3	0.05	1237	7637	1652	4.17	82.00	83.40	1.71%	1.17	23.40	23.40	0.00%	N/A	N/A	N/A	N/A
S1	5850	HEAD	09/22/2025	21.7	21.7	0.05	1237	7637	1652	4.23	82.00	84.60	3.17%	1.20	23.40	24.00	2.56%	N/A	N/A	N/A	N/A
S5	5850	HEAD	10/20/2025	20.8	19.8	0.05	1237	7546	1368	3.89	82.00	77.80	-5.12%	1.09	23.40	21.80	-6.84%	N/A	N/A	N/A	N/A
R	6500	HEAD	09/04/2025	22.6	22.1	0															

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.

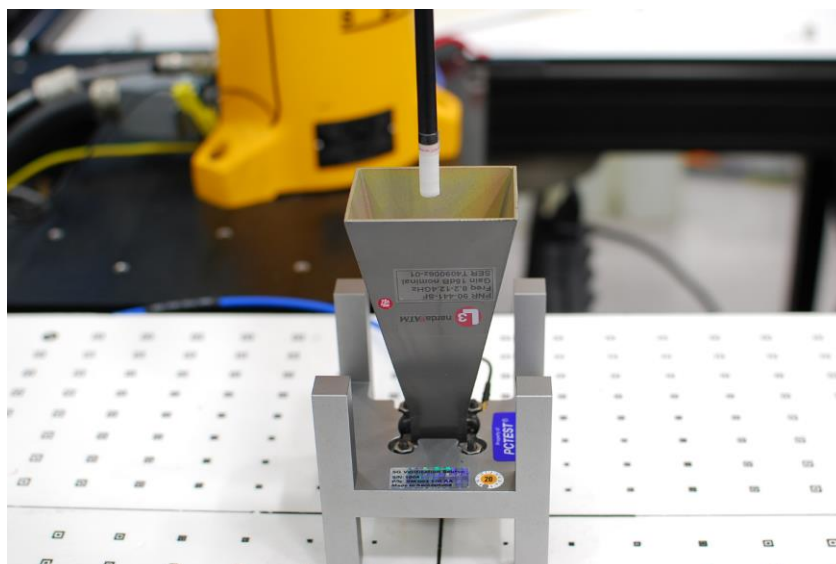


Figure 11-3
System Verification Setup Photo

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	
Q	10	10/01/2025	1002	9389	93.3	49.80	53.80	-0.34	50.00	54.00	-0.33
Q	10	10/11/2025	1002	9389	93.3	51.40	53.80	-0.20	51.80	54.00	-0.18

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 118 of 171

REV 22.0
03/30/2022

12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]		
Head	GSM 850	GSM	A	0546M	1:8.3	0.02	836.60	190	33.5	32.50	Right Cheek	0	0.044	1.259	0.055	0.183	0.114		36.8				
Head	GSM 850	GSM	A	0546M	1:8.3	-0.17	836.60	190	33.5	32.50	Right Tilt	0	0.033	1.259	0.042	0.138	0.086		38.1	35.8	29.5		
Head	GSM 850	GSM	A	0546M	1:8.3	0.15	836.60	190	33.5	32.50	Left Cheek	0	0.055	1.259	0.069	0.229	0.143		35.8				
Head	GSM 850	GSM	A	0546M	1:8.3	-0.14	836.60	190	33.5	32.50	Left Tilt	0	0.032	1.259	0.040	0.133	0.083		38.2				
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 12-2 | Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	GSM 850	GSM	E	0546M	1:8.3	0.01	824.20	128	30.5	29.48	Right Cheek	0	0.397	1.265	0.502	0.638	0.399		24.2		
Head	GSM 850	GSM	E	0546M	1:8.3	-0.13	824.20	128	30.5	29.48	Right Tilt	0	0.337	1.265	0.426	0.541	0.338		25.0	23.7	20.3
Head	GSM 850	GSM	E	0546M	1:8.3	0.05	824.20	128	30.5	29.48	Left Cheek	0	0.453	1.265	0.573	0.728	0.455	Plot	23.7		
Head	GSM 850	GSM	E	0546M	1:8.3	0.11	824.20	128	30.5	29.48	Left Tilt	0	0.431	1.265	0.545	0.692	0.433		23.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak											Head										
Uncontrolled Exposure/General Population											1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Limit (dBm)	Overall Limit (dBm)	EPS Limit (dBm)
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0546M	1:2.76	-0.11	836.60	190	30.5	29.25	Back	5	0.364	1.334	0.486	0.735	0.459		29.2		
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0546M	1:2.76	0.01	836.60	190	30.5	29.25	Front	5	0.193	1.334	0.257	0.389	0.243		31.9		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0546M	1:2.76	-0.01	836.60	190	30.5	29.25	Bottom	10	0.043	1.334	0.057	0.087	0.054		38.4	29.2	27.9
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0546M	1:2.76	0.09	836.60	190	30.5	29.25	Right	10	0.068	1.334	0.117	0.178	0.111		35.1		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0546M	1:2.76	-0.10	836.60	190	30.5	29.25	Left	10	0.097	1.334	0.129	0.196	0.123		34.9		
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 12-4 | 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)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Limit (dBm)	Overall Limit (dBm)	EPS Limit (dBm)
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0546M	1:2.076	-0.03	836.60	190	25.0	23.98	Back	5	0.604	1.265	0.764	0.970	0.606	Plot	22.9		
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0546M	1:2.076	-0.07	836.60	190	25.0	23.98	Front	5	0.434	1.265	0.549	0.697	0.436		24.4	22.9	20.8
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0546M	1:2.076	0.00	836.60	190	25.0	23.98	Top	10	0.207	1.265	0.262	0.333	0.208		27.6		
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0546M	1:2.076	0.01	836.60	190	25.0	23.98	Right	10	0.128	1.265	0.162	0.206	0.129		29.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population													averaged over 1 gram								

12.2 GSM 1900 Standalone SAR

Table 12-5 | Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	GSM 1900	GSM	A	0546M	1:8.3	0.01	1880.00	661	30.5	29.30	Right Cheek	0	0.049	1.318	0.065	0.246	0.154	Plot	33.1		
Head	GSM 1900	GSM	A	0546M	1:8.3	-0.07	1880.00	661	30.5	29.30	Right Tilt	0	0.026	1.318	0.034	0.130	0.081		35.9	33.1	27.1
Head	GSM 1900	GSM	A	0546M	1:8.3	0.09	1880.00	661	30.5	29.30	Left Cheek	0	0.032	1.318	0.042	0.160	0.100		35.0		
Head	GSM 1900	GSM	A	0546M	1:8.3	0.04	1880.00	661	30.5	29.30	Left Tilt	0	0.034	1.318	0.045	0.170	0.106		34.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 119 of 171

REV 22.0
03/30/2022

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Table 12-6 | Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.08	1850.20	512	22.0	20.25	Back	5	0.705	1.496	1.055	1.339	0.837	Plot	18.5		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	-0.02	1880.00	661	22.0	20.58	Back	5	0.578	1.387	0.802	1.018	0.636		19.7		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.07	1909.80	810	22.0	20.47	Back	5	0.684	1.422	0.973	1.235	0.772		18.9		
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.20	1880.00	661	22.0	20.58	Front	5	0.553	1.387	0.973	0.973	0.605		19.9		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.05	1850.20	512	22.0	20.25	Bottom	10	0.497	1.496	0.744	0.944	0.590		20.1	18.5	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	-0.16	1880.00	661	22.0	20.58	Bottom	10	0.598	1.387	0.829	1.053	0.658		19.6		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.02	1909.80	810	22.0	20.47	Bottom	10	0.597	1.422	0.849	1.078	0.674		19.5		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	0.15	1880.00	661	22.0	20.58	Right	10	0.029	1.387	0.040	0.051	0.032		32.7		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0546M	1:2.076	-0.16	1880.00	661	22.0	20.58	Left	10	0.025	1.387	0.035	0.044	0.028		33.4		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																					

12.3 UMTS 850 Standalone SAR

Table 12-7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	UMTS 850	RMC	A	0546M	1:1	0.13	846.60	4233	25.0	23.70	Right Cheek	0	27	0.108	1.349	0.146	0.211	0.132		33.3		
Head	UMTS 850	RMC	A	0546M	1:1	-0.08	846.60	4233	25.0	23.70	Right Tilt	0	27	0.072	1.349	0.097	0.140	0.088		35.1	33.2	26.6
Head	UMTS 850	RMC	A	0546M	1:1	-0.04	846.60	4233	25.0	23.70	Left Cheek	0	27	0.111	1.349	0.150	0.216	0.125		33.2		
Head	UMTS 850	RMC	A	0546M	1:1	0.10	846.60	4233	25.0	23.70	Left Tilt	0	27	0.062	1.349	0.084	0.121	0.076		35.7		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT												Head 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																						

Table 12-8 | Plot A5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	UMTS 850	RMC	E	0546M	1:1	0.00	836.60	4183	21.0	19.98	Right Cheek	0	0.505	1.265	0.639	0.811	0.507		22.9		
Head	UMTS 850	RMC	E	0546M	1:1	0.00	836.60	4183	21.0	19.98	Right Tilt	0	0.445	1.265	0.563	0.715	0.447		23.4		
Head	UMTS 850	RMC	E	0546M	1:1	0.01	826.40	4132	21.0	19.93	Left Cheek	0	0.632	1.279	0.808	1.027	0.642		21.9	21.6	20.0
Head	UMTS 850	RMC	E	0546M	1:1	0.03	836.60	4183	21.0	19.98	Left Cheek	0	0.643	1.265	0.813	1.033	0.546		21.8		
Head	UMTS 850	RMC	E	0546M	1:1	0.04	846.60	4233	21.0	19.84	Left Cheek	0	0.666	1.306	0.870	1.105	0.691	Plot	21.6		
Head	UMTS 850	RMC	E	0546M	1:1	0.04	836.60	4183	21.0	19.98	Left Tilt	0	0.610	1.265	0.772	0.980	0.613		22.1		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT												Head 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																					

Table 12-9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A	0546M	1:1	0.00	826.40	4132	25.0	23.66	Back	5	27	0.595	1.361	0.810	0.829	0.518		25.9		
Body-worn/Hotspot	UMTS 850	RMC	A	0546M	1:1	-0.12	836.60	4183	25.0	23.68	Back	5	27	0.626	1.355	0.848	0.868	0.543		25.7		
Body-worn/Hotspot	UMTS 850	RMC	A	0546M	1:1	0.01	846.60	4233	25.0	23.70	Back	5	27	0.639	1.349	0.862	0.882	0.551		25.6		
Body-worn/Hotspot	UMTS 850	RMC	A	0546M	1:1	0.05	846.60	4233	25.0	23.70	Front	5	27	0.306	1.349	0.413	0.422	0.264		28.8	25.6	25.1
Hotspot	UMTS 850	RMC	A	0546M	1:1	-0.01	846.60	4233	25.0	23.70	Bottom	10	27	0.074	1.349	0.100	0.102	0.064		35.0		
Hotspot	UMTS 850	RMC	A	0546M	1:1	-0.13	846.60	4233	25.0	23.70	Right	10	27	0.119	1.349	0.161	0.164	0.103		32.9		
Hotspot	UMTS 850	RMC	A	0546M	1:1	0.02	846.60	4233	25.0	23.70	Left	10	27	0.128	1.349	0.174	0.178	0.111		32.5		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																						

Table 12-10 | 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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	0546M	1:1	-0.04	826.40	4132	22.0	20.80	Back	5	0.735	1.318	0.969	1.230	0.769		22.1		
Body-worn/Hotspot	UMTS 850	RMC	E	0546M	1:1	-0.04	836.60	4183	22.0	20.94	Back	5	0.792	1.276	1.011	1.283	0.802		21.9		
Body-worn/Hotspot	UMTS 850	RMC	E	0546M	1:1	0.01	846.60	4233	22.0	20.77	Back	5	0.812	1.327	1.078	1.368	0.855	Plot	21.6		
Body-worn/Hotspot	UMTS 850	RMC	E	0546M	1:1	-0.07	846.60	4233	22.0	20.71	Back	5	0.811	1.327	1.076	1.367	0.854		21.6	21.6	21.0
Body-worn/Hotspot	UMTS 850	RMC	E	0546M	1:1	-0.10	836.60	4183	22.0	20.94	Front	5	0.580	1.276	0.740	0.940	0.588		23.3		
Hotspot	UMTS 850	RMC	E	0546M	1:1	0.01	836.60	4183	22.0	20.94	Top	10	0.219	1.276	0.279	0.355	0.222		27.5		
ANSI/IEEE CS9.1.1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																					

Note: Blue entry represents variability measurement

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager									
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset										Page 120 of 171									

REV 22.0

03/30/2022

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12.4 UMTS 1750 Standalone SAR

Table 12-11 | 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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 1750	RMC	A	0546M	1:1	0.00	1752.60	1513	24.0	22.46	Right Cheek	0	109	0.114	1.426	0.163	0.224	0.140	Plot	31.8	31.8	25.4
Head	UMTS 1750	RMC	A	0546M	1:1	-0.11	1752.60	1513	24.0	22.46	Right Tilt	0	109	0.056	1.426	0.080	0.110	0.069				
Head	UMTS 1750	RMC	A	0546M	1:1	0.20	1752.60	1513	24.0	22.46	Left Cheek	0	109	0.047	1.426	0.067	0.092	0.058				
Head	UMTS 1750	RMC	A	0546M	1:1	0.03	1752.60	1513	24.0	22.46	Left Tilt	0	109	0.048	1.426	0.068	0.094	0.059			35.6	
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-12 | 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]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	A	0546M	1:1	0.01	1712.40	1312	17.0	15.84	Back	5	99	0.751	1.306	0.981	1.246	0.779	Plot	17.0		
Body-worn/Hotspot	UMTS 1750	RMC	A	0546M	1:1	0.02	1732.40	1412	17.0	15.65	Back	5	99	0.776	1.305	1.059	1.345	0.841		16.7		
Body-worn/Hotspot	UMTS 1750	RMC	A	0546M	1:1	-0.01	1752.60	1513	17.0	15.95	Back	5	99	0.715	1.274	0.911	1.157	0.723		17.4		
Body-worn/Hotspot	UMTS 1750	RMC	A	0546M	1:1	-0.12	1752.60	1513	17.0	15.95	Front	5	99	0.605	1.274	0.771	0.979	0.612		18.1		
Hotspot	UMTS 1750	RMC	A	0546M	1:1	0.01	1752.60	1513	17.0	15.95	Bottom	10	99	0.582	1.274	0.741	0.942	0.589		18.3		
Hotspot	UMTS 1750	RMC	A	0546M	1:1	0.11	1752.60	1513	17.0	15.95	Right	10	99	0.043	1.274	0.055	0.070	0.044		29.6		
Hotspot	UMTS 1750	RMC	A	0546M	1:1	-0.13	1752.60	1513	17.0	15.95	Left	10	99	0.035	1.274	0.045	0.057	0.036		30.5		
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.5 UMTS 1900 Standalone SAR

Table 12-13 | Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	UMTS 1900	RMC	A	0546M	1:1	0.09	1852.40	9262	24.0	22.25	Right Cheek	0	109	0.136	1.496	0.203	0.213	0.133	Plot	30.9		
Head	UMTS 1900	RMC	A	0546M	1:1	-0.17	1852.40	9262	24.0	22.25	Right Tilt	0	109	0.057	1.496	0.085	0.089	0.056		34.6		
Head	UMTS 1900	RMC	A	0546M	1:1	-0.06	1852.40	9262	24.0	22.25	Left Cheek	0	109	0.069	1.496	0.103	0.108	0.068		33.8		
Head	UMTS 1900	RMC	A	0546M	1:1	-0.18	1852.40	9262	24.0	22.25	Left Tilt	0	109	0.081	1.496	0.121	0.127	0.079		33.1		
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-14 | Plot A10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.02	1852.40	9262	18.0	16.64	Back	5	99	0.782	1.368	1.070	1.359	0.849	Plot	17.7		
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.09	1880.00	9400	18.0	16.61	Back	5	99	0.671	1.377	0.924	1.173	0.733		18.3		
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.08	1907.60	9538	18.0	16.58	Back	5	99	0.719	1.387	0.985	1.251	0.782		18.0		
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.04	1852.40	9262	18.0	16.64	Front	5	99	0.679	1.368	0.929	1.180	0.738		18.3		
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.00	1880.00	9400	18.0	16.61	Front	5	99	0.695	1.377	0.933	1.058	0.661		18.7		
Body-worn/Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.01	1907.60	9538	18.0	16.58	Front	5	99	0.640	1.387	0.888	1.127	0.704		18.5		
Hotspot	UMTS 1900	RMC	A	0546M	1:1	-0.01	1852.40	9262	18.0	16.64	Bottom	10	99	0.686	1.368	0.938	1.192	0.745		18.2		
Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.01	1880.00	9400	18.0	16.61	Bottom	10	99	0.646	1.377	0.890	1.130	0.706		18.5		
Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.05	1907.60	9538	18.0	16.58	Bottom	10	99	0.725	1.387	1.010	1.282	0.805		17.9		
Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.16	1852.40	9262	18.0	16.64	Right	10	99	0.035	1.368	0.048	0.061	0.038		31.1		
Hotspot	UMTS 1900	RMC	A	0546M	1:1	0.07	1852.40	9262	18.0	16.64	Left	10	99	0.033	1.368	0.045	0.057	0.036		31.4		
ANSI/IEEE CS1.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.6 LTE Band 71 Standalone SAR

Table 12-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.08	680.50	131297	0.0	25.0	21.89	1	0	Right Cheek	0	117	0.105	1.294	0.136	0.188	0.118	11.8			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.08	680.50	131297	1.0	24.0	21.51	50	0	Right Cheek	0	117	0.091	1.409	0.111	0.229	0.143	12.8			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.20	680.50	131297	0.0	25.0	21.88	1	0	Right Tilt	0	117	0.099	1.294	0.076	0.305	0.066	36.1			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.19	680.50	131297	1.0	24.0	21.51	50	0	Right Tilt	0	117	0.047	1.409	0.066	0.115	0.072	35.7			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.05	680.50	131297	0.0	25.0	21.88	1	0	Left Cheek	0	117	0.094	1.294	0.122	0.388	0.305	34.1		32.8	26.4
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.00	680.50	131297	1.0	24.0	21.51	50	0	Left Cheek	0	117	0.086	1.409	0.121	0.211	0.132	33.1			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	0.04	680.50	131297	0.0	25.0	21.88	1	0	Left Tilt	0	117	0.077	1.294	0.074	0.202	0.064	36.2			
Head	LTE Band 71	20	QPSK	A	0546M	1:1	-0.07	680.50	131297	1.0	24.0	21.51	50	0	Left Tilt	0	117	0.044	1.409	0.062	0.108	0.068	36.0			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 121 of 171

REV 22.0

03/30/2022

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Table 12-16 | Plot A11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	FFS Limit [dBm]
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.01	680.50	133297	0.0	22.0	20.84	1	50	Right Cheek	0	0.500	1.306	0.653	0.829	0.518		23.8		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.03	680.50	133297	0.0	22.0	20.39	50	0	Right Cheek	0	0.490	1.449	0.710	0.902	0.564		23.4		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.02	680.50	133297	0.0	22.0	20.84	1	50	Right Tib	0	0.562	1.896	0.473	0.601	0.376		25.2		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	0.03	680.50	133297	0.0	22.0	20.39	50	0	Right Tib	0	0.590	1.449	0.507	0.644	0.463		24.9		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	0.03	680.50	133297	0.0	22.0	20.84	1	50	Left Cheek	0	0.573	1.306	0.748	0.950	0.594	Plot	23.2		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.04	680.50	133297	0.0	22.0	20.29	50	0	Left Cheek	0	0.525	1.440	0.761	0.966	0.605		25.1		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.01	680.50	133297	0.0	22.0	20.84	1	50	Left Tib	0	0.483	1.306	0.631	0.803	0.500		24.0		
Head	LTE Band 71	20	QPSK	E	0546M	1:1	-0.01	680.50	133297	0.0	22.0	20.39	50	0	Left Tib	0	0.452	1.449	0.655	0.832	0.519		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								

Table 12-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	FFS Limit [dBm]
Body-worn/hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	0.02	680.50	133297	0.0	25.0	23.88	1	0	Back	5	117	0.511	1.294	0.661	0.892	0.558		26.7		
Body-worn/hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.01	680.50	133297	1.0	24.0	22.51	50	0	Back	5	117	0.387	1.409	0.550	0.950	0.584		26.5		
Body-worn/hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	0.13	680.50	133297	0.0	25.0	23.88	1	0	Front	5	117	0.290	1.294	0.324	0.437	0.273		29.9		
Body-worn/hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.02	680.50	133297	1.0	24.0	22.51	50	0	Front	5	117	0.200	1.409	0.282	0.479	0.299		29.4		
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.02	680.50	133297	0.0	25.0	23.88	1	0	Bottom	10	117	0.266	1.294	0.058	0.079	0.049		37.1		
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	0.10	680.50	133297	1.0	24.0	22.51	50	0	Bottom	10	117	0.031	1.409	0.044	0.074	0.046		37.5	26.3	26.3
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.04	680.50	133297	0.0	25.0	23.88	1	0	Right	10	117	0.167	1.294	0.216	0.292	0.183		31.6		
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.01	680.50	133297	1.0	24.0	22.51	50	0	Right	10	117	0.132	1.409	0.186	0.316	0.198		31.3		
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	0.13	680.50	133297	0.0	25.0	23.88	1	0	Left	10	117	0.175	1.294	0.226	0.306	0.191		31.4		
Hotspot	LTE Band 71	20	QPSK	A	0546M	1:1	-0.02	680.50	133297	1.0	24.0	22.51	50	0	Left	10	117	0.139	1.409	0.196	0.333	0.208		31.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-18 | Plot A12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	FFS Limit [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	0.03	680.50	133297	0.0	23.0	21.66	1	50	Back	5	0.176	1.361	0.784	0.996	0.632	Plot	24.0		
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.02	680.50	133297	0.0	23.0	21.58	50	0	Back	5	0.139	1.387	0.748	0.950	0.594		24.2		
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.12	680.50	133297	0.0	23.0	21.66	1	50	Front	5	0.432	1.361	0.588	0.747	0.467		25.3		
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.01	680.50	133297	0.0	23.0	21.66	50	0	Front	5	0.394	1.387	0.546	0.693	0.429		26.2		
Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.02	680.50	133297	0.0	23.0	21.66	1	50	Top	10	0.217	1.361	0.295	0.375	0.234		28.2	24.0	22.0
Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.02	680.50	133297	0.0	23.0	21.58	50	0	Top	10	0.233	1.387	0.323	0.410	0.257		27.9		
Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	0.03	680.50	133297	0.0	23.0	21.66	1	50	Right	10	0.093	1.361	0.275	0.348	0.215		28.5		
Hotspot	LTE Band 71	20	QPSK	E	0546M	1:1	-0.03	680.50	133297	0.0	23.0	21.58	50	0	Right	10	0.202	1.387	0.280	0.356	0.222		28.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.7 LTE Band 12 Standalone SAR

Table 12-19

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPE (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Limit (dBm)	Overall Limit (dBm)	FFS Limit (dBm)
Head	LTE Band 12	10	QPSK	A	0546M	1:1	-0.07	707.50	23095	0.0	25.0	23.62	1	25	Right Cheek	0	27	0.102	1.174	0.450	0.222	0.133		33.5		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	0.09	707.50	23095	1.0	24.0	22.39	25	0	Right Cheek	0	27	0.084	1.449	0.122	0.231	0.145		33.1		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	0.04	707.50	23095	0.0	25.0	23.62	1	25	Right Tib	0	27	0.098	1.374	0.080	0.121	0.076		35.0		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	-0.02	707.50	23095	1.0	24.0	22.39	25	0	Right Tib	0	27	0.086	1.449	0.079	0.127	0.079		35.7		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	-0.07	707.50	23095	0.0	25.0	23.62	1	25	Left Cheek	0	27	0.097	1.374	0.131	0.260	0.126		33.7		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	-0.05	707.50	23095	1.0	24.0	22.39	25	0	Left Cheek	0	27	0.083	1.449	0.120	0.229	0.143		33.1		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	0.05	707.50	23095	0.0	25.0	23.62	1	25	Left Tib	0	27	0.094	1.374	0.074	0.112	0.070		36.2		
Head	LTE Band 12	10	QPSK	A	0546M	1:1	-0.09	707.50	23095	1.0	24.0	22.39	25	0	Left Tib	0	27	0.067	1.449	0.068	0.130	0.081		35.6		
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 12-20 | Plot A13

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	FFS Limit [dBm]
Head	LTE Band 12	10	QPSK	E	0546M	1:1	-0.02	707.50	23095	0.0	22.0	20.53	1	25	Right Cheek	0	0.578	1.403	0.811	1.030	0.644		22.9		
Head	LTE Band 12	10	QPSK	F	0546M	1:1	0.00	707.50	23095	0.0	22.0	20.35	25	12	Right Cheek	0	0.579	1.462	0.846	1.074	0.672		22.7		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.01	707.50	23095	0.0	22.0	20.32	50	0	Right Cheek	0	0.565	1.472	0.832	1.057	0.660		22.7		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.08	707.50	23095	0.0	22.0	20.53	1	25	Right Tib	0	0.444	1.403	0.623	0.791	0.494		24.0		
Head	LTE Band 12	10	QPSK	F	0546M	1:1	-0.02	707.50	23095	0.0	22.0	20.35	25	12	Right Tib	0	0.448	1.462	0.655	0.832	0.539		23.8		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.03	707.50	23095	0.0	22.0	20.53	1	25	Left Cheek	0	0.564	1.403	0.791	1.005	0.627		23.0		21.0
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.00	707.50	23095	0.0	22.0	20.35	25	12	Left Cheek	0	0.593	1.462	0.667	1.001	0.688	Plot	22.6		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.01	707.50	23095	0.0	22.0	20.32	50	0	Left Cheek	0	0.589	1.472	0.838	1.064	0.665		22.7		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.07	707.50	23095	0.0	22.0	20.53	1	25	Left Tib	0	0.544	1.403	0.791	1.005	0.627		23.0		
Head	LTE Band 12	10	QPSK	E	0546M	1:1	0.04	707.50	23095	0.0	22.0	20.35	25	12	Left Tib	0	0.567	1.462	0.829	1.053	0.658		22.8		
Head	LTE Band 12	10	QPSK	F	0546M	1:1	-0.01	707.50	23095	0.0	22.0	20.32	50	0	Left Tib	0	0.555	1.472	0.817	1.038	0.649		22.8		
Annoyed: C95.1.1092 - SAFETY LIMIT																	Head								
Spatial Peak																	1.4 W/kg (mW/g)								
Uncontrolled Region: General Population																	averaged over 10 min								

Table 12-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body worn/hotspot	LTE Band 12	10	QPSK	A	0546M	1:1	-0.09	707.50	23095	0.0	25.0	23.62	1	25	Back	5	63	0.537	1.374	0.738	0.950	0.594		26.3			
Body worn/hotspot	LTE Band 12	10	QPSK	A	0546M	1:1	-0.01	707.50	23095	1.0	24.0	22.39	25	0	Back	5	63	0.423	1.449	0.611	0.992	0.620		26.1			
Body worn/hotspot	LTE Band 12	10	QPSK	A	0546M	1:1	-0.01	707.50	23095	0.0	25.0	23.62	1	25	Front	5	63	0.326	1.374	0.807	0.532	0.320		26.0			
Body worn/hotspot	LTE Band 12	10	QPSK	A	0546M	1:1	-0.03	707.50	23095	1.0	24.0	22.39	25	0	Front	5	63	0.226	1.449	0.332	0.538	0.336		28.7			
Hotspot	LTE Band 12	10	QPSK	A	0546M	1:1	0.02	707.50	23095	0.0	25.0	23.62	1	25	Bottom	10	63	0.044	1.374	0.060	0.078	0.049		37.1			
	LTE Band 12	10	QPSK	A	0546M	1:1	-0.01	707.50	23095	1.0	24.0	22.39	25	0	Bottom	10	63	0.054	1.449	0.040	0.080	0.050		37.0		26.1	
	LTE Band 12	10	QPSK	A	0546M	1:1	0.00	707.50	23095	0.0	25.0	23.62	1	25	Right	10	63	0.190	1.374	0.139	0.179	0.112		33.5			
	LTE Band 12	10	QPSK	A	0546M	1:1	-0.03	707.50	23095	1.0	24.0	22.39	25	0	Right	10	63	0.040	1.449	0.119	0.193	0.121		33.2			
	LTE Band 12	10	QPSK	A	0546M	1:1	-0.00	707.50	23095	0.0	25.0	23.62	1	25	Left	10	63	0.194	1.374	0.198	0.295	0.339		32.0			
	LTE Band 12	10	QPSK	A	0546M	1:1	-0.04	707.50	23095	1.0	24.0	22.39	25	0	Left	10	63	0.112	1.449	0.162	0.263	0.164		31.8			
ANS/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-22 | Plot A14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.00	707.50	23095	0.0	23.0	21.66	1	25	Back	5	0.707	1.363	0.962	1.222	0.763		23.1		
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.10	707.50	23095	0.0	23.0	21.58	25	0	Back	5	0.708	1.367	0.966	1.252	0.782	Plot	23.0		
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	-0.01	707.50	23095	0.0	23.0	21.44	50	0	Back	5	0.685	1.432	0.981	1.246	0.779		23.0		
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.02	707.50	23095	0.0	23.0	21.66	1	25	Front	5	0.188	1.363	0.800	1.016	0.635		23.9		
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.02	707.50	23095	0.0	23.0	21.58	25	0	Front	5	0.189	1.367	0.819	1.053	0.638		23.8		
Body worn/Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	-0.03	707.50	23095	0.0	23.0	21.44	50	0	Front	5	0.609	1.432	0.872	1.107	0.692		23.5		
Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	-0.04	707.50	23095	0.0	23.0	21.66	1	25	Top	10	0.146	1.363	0.471	0.598	0.373		26.2		
Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	-0.03	707.50	23095	0.0	23.0	21.58	25	0	Top	10	0.152	1.387	0.478	0.620	0.387		26.1		
Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.07	707.50	23095	0.0	23.0	21.66	1	25	Right	10	0.199	1.363	0.271	0.344	0.215		28.6		
Hotspot	LTE Band 12	10	QPSK	E	0546M	1:1	0.03	707.50	23095	0.0	23.0	21.58	25	0	Right	10	0.201	1.387	0.279	0.354	0.221		28.5		
ANS/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 13 Standalone SAR

Table 12-23

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPE (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EPS Plimit (dBm)
Head	LTE Band 13	10	QPSK	A	0546M	1:1	0.01	782.00	23230	0.0	25.0	23.78	1	0	Right Cheek	0	130	0.094	1.324	0.124	0.172	0.108		34.0		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	0.00	782.00	23230	1.0	24.0	22.60	25	0	Right Cheek	0	130	0.070	1.380	0.097	0.168	0.105		34.1		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	-0.03	782.00	23230	0.0	25.0	23.78	1	0	Right Tilt	0	130	0.069	1.324	0.079	0.110	0.069		35.0		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	-0.04	782.00	23230	1.0	24.0	22.60	25	0	Right Tilt	0	130	0.051	1.380	0.070	0.127	0.076		35.3		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	-0.07	782.00	23230	0.0	25.0	23.78	1	0	Left Cheek	0	130	0.107	1.324	0.142	0.196	0.123		33.4		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	-0.05	782.00	23230	1.0	24.0	22.60	25	0	Left Cheek	0	130	0.081	1.380	0.112	0.184	0.121		33.5		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	-0.14	782.00	23230	0.0	25.0	23.78	1	0	Left Tilt	0	130	0.069	1.324	0.078	0.108	0.068		36.0		
Head	LTE Band 13	10	QPSK	A	0546M	1:1	0.01	782.00	23230	1.0	24.0	22.60	25	0	Left Tilt	0	130	0.048	1.380	0.066	0.115	0.072		35.7		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																										
Spatial Peak																		Head								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-24 | Plot A15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.03	782.00	23230	0.0	22.0	20.63	1	0	Right Cheek	0	0.600	1.375	0.823	1.045	0.653		22.8		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.00	782.00	23230	0.0	22.0	20.50	25	0	Right Cheek	0	0.599	1.413	0.846	1.074	0.672		22.7		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	-0.09	782.00	23230	0.0	22.0	20.32	50	0	Right Cheek	0	0.600	1.472	0.883	1.121	0.701		22.5		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	-0.07	782.00	23230	0.0	22.0	20.63	1	0	Right Tilt	0	0.444	1.375	0.609	0.773	0.484		24.1		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.01	782.00	23230	0.0	22.0	20.68	25	0	Right Tilt	0	0.446	1.413	0.610	0.800	0.500		24.0		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	-0.01	782.00	23230	0.0	22.0	20.32	50	0	Right Tilt	0	0.445	1.375	0.612	0.786	0.474		22.4		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.02	782.00	23230	0.0	22.0	20.50	25	0	Left Cheek	0	0.445	1.413	0.911	1.157	0.723		22.4		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.03	782.00	23230	0.0	22.0	20.32	50	0	Left Cheek	0	0.415	1.472	0.905	1.149	0.729		22.4		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.05	782.00	23230	0.0	22.0	20.63	1	0	Left Tilt	0	0.506	1.375	0.831	1.055	0.659		22.6		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	0.02	782.00	23230	0.0	22.0	20.50	25	0	Left Tilt	0	0.606	1.413	0.856	1.087	0.679		22.6		
Head	LTE Band 13	10	QPSK	E	0546M	1:1	-0.01	782.00	23230	0.0	22.0	20.32	50	0	Left Tilt	0	0.408	1.472	0.895	1.137	0.710		22.4		
ANS/IEEE C95.1-1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
1.6 W/kg (mW/g) averaged over 1 gram																									

Table 12-25 | Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body worn/Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.00	782.00	23230	0.0	25.0	23.78	1	0	Back	5	130	0.795	1.324	1.053	1.053	0.658	Plot	24.7			
Body worn/Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	-0.01	782.00	23230	1.0	24.0	22.60	25	0	Back	5	130	0.818	1.380	1.053	1.057	0.558		24.8			
Body worn/Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	-0.04	782.00	23230	1.0	24.0	22.50	30	0	Back	5	130	0.830	1.413	0.890	0.999	0.624		24.5			
Body worn/Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.00	782.00	23230	0.0	25.0	23.78	0	0	Front	5	130	0.586	1.324	0.527	0.527	0.329		27.7			
Body worn/Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.00	782.00	23230	1.0	24.0	22.60	25	0	Front	5	130	0.640	1.380	0.415	0.466	0.291		27.8			
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.09	782.00	23230	0.0	25.0	23.78	1	0	Bottom	10	130	0.086	1.324	0.130	0.130	0.081		38.8	24.5	24.5	
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	-0.02	782.00	23230	1.0	24.0	22.60	25	0	Bottom	10	130	0.076	1.380	0.095	0.118	0.074		39.7			
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	-0.03	782.00	23230	1.0	24.0	22.40	30	0	Right	10	130	0.066	1.324	0.087	0.104	0.053		35.5			
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.02	782.00	23230	1.0	24.0	22.60	25	0	Right	10	130	0.051	1.380	0.070	0.079	0.049		35.5			
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.18	782.00	23230	0.0	25.0	23.78	1	0	Left	10	130	0.183	1.324	0.242	0.242	0.151		31.1			
Hotspot	LTE Band 13	10	QPSK	A	0546M	1.1	0.00	782.00	23230	1.0	24.0	22.60	25	0	Left	10	130	0.149	1.380	0.193	0.217	0.138		31.1			
AND/SEE CTS 1.192 - SAFETY LIMIT																											
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled (General Population)																		Averaged over 1.0 m/g									



12.9 LTE Band 14 Standalone SAR

Table 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	ETS Plmit [dBm]
Head	LTE Band 14	10	QPSK	A	0546M	1:1	-0.05	793.00	23330	0.0	25.0	23.38	1	25	Right Cheek	0	137	0.068	1.452	0.099	0.193	0.121		35.0		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	0.06	793.00	23330	1.0	24.0	22.39	25	0	Right Cheek	0	137	0.064	1.449	0.078	0.192	0.120		35.0		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	-0.06	793.00	23330	0.0	25.0	23.38	1	25	Right TIR	0	137	0.062	1.453	0.080	0.176	0.118		35.4		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Right TIR	0	137	0.050	1.449	0.072	0.178	0.111		35.4		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	0.06	793.00	23330	0.0	25.0	23.38	1	25	Left Cheek	0	137	0.058	1.453	0.113	0.221	0.136		34.4		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Left Cheek	0	137	0.061	1.449	0.088	0.217	0.136		34.5		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	-0.09	793.00	23330	0.0	25.0	23.38	1	25	Left TIR	0	137	0.053	1.452	0.077	0.150	0.094		36.1		
Head	LTE Band 14	10	QPSK	A	0546M	1:1	-0.08	793.00	23330	1.0	24.0	22.39	25	0	Left TIR	0	137	0.066	1.449	0.067	0.164	0.103		35.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-28 | Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	ETS Plmit [dBm]
Head	LTE Band 14	10	QPSK	E	0546M	1:1	-0.03	793.00	23330	0.0	22.0	20.83	1	0	Right Cheek	0	0	0.164	1.309	0.718	0.937	0.585		23.3		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	-0.03	793.00	23330	0.0	22.0	20.75	25	0	Right Cheek	0	0	0.180	1.304	0.774	0.981	0.615		23.1		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	0.06	793.00	23330	0.0	22.0	20.83	1	0	Right TIR	0	0	0.413	1.309	0.541	0.687	0.429		24.6		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	-0.02	793.00	23330	0.0	22.0	20.75	25	0	Right TIR	0	0	0.433	1.314	0.578	0.734	0.458		24.3		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	0.03	793.00	23330	0.0	22.0	20.83	1	0	Left Cheek	0	0	0.442	1.309	0.840	1.067	0.667	Plot	22.7		21.0
Head	LTE Band 14	10	QPSK	E	0546M	1:1	-0.01	793.00	23330	0.0	22.0	20.75	25	0	Left Cheek	0	0	0.443	1.314	0.855	1.086	0.678		22.6		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	-0.01	793.00	23330	0.0	22.0	20.72	50	0	Left Cheek	0	0	0.419	1.314	0.811	1.053	0.609		22.8		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	0.01	793.00	23330	0.0	22.0	20.83	1	0	Left TIR	0	0	0.406	1.309	0.793	1.007	0.630		22.0		
Head	LTE Band 14	10	QPSK	E	0546M	1:1	0.00	793.00	23330	0.0	22.0	20.75	25	0	Left TIR	0	0	0.097	1.334	0.796	1.011	0.632		22.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-29 | Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	ETS Plmit [dBm]
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	-0.04	793.00	23330	0.0	25.0	23.38	1	25	Back	5	82	0.704	1.452	1.153	1.153	0.721	Plot	24.8		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Back	5	82	0.390	1.449	0.865	0.931	0.582		24.6		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	-0.03	793.00	23330	1.0	24.0	22.35	50	0	Back	5	82	0.637	1.462	0.931	0.998	0.624		24.3		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	0.0	25.0	23.38	1	25	Front	5	82	0.386	1.452	0.959	0.959	0.540		27.5		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Front	5	82	0.297	1.449	0.490	0.461	0.288		27.5		
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.05	793.00	23330	0.0	25.0	23.38	1	25	Bottom	10	82	0.097	1.452	0.141	0.141	0.088		33.5		24.3
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Bottom	10	82	0.076	1.449	0.110	0.110	0.074		33.5		
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	-0.10	793.00	23330	0.0	25.0	23.38	1	25	Right	10	82	0.041	1.452	0.060	0.060	0.038		37.2		
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	-0.06	793.00	23330	1.0	24.0	22.39	25	0	Right	10	82	0.039	1.449	0.057	0.061	0.038		36.4		
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	-0.01	793.00	23330	0.0	25.0	23.38	1	25	Left	10	82	0.151	1.452	0.219	0.219	0.137		31.5		
Hotspot	LTE Band 14	10	QPSK	A	0546M	1:1	0.00	793.00	23330	1.0	24.0	22.39	25	0	Left	10	82	0.123	1.449	0.178	0.193	0.119		31.4		
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 12-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	ETS Plmit [dBm]
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	0.04	793.00	23330	0.0	22.0	20.83	1	0	Back	5	0	0.121	1.309	0.682	0.886	0.541		23.6		
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	-0.03	793.00	23330	0.0	22.0	20.75	25	0	Back	5	0	0.144	1.314	0.726	0.922	0.577		23.3		
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	-0.02	793.00	23330	0.0	22.0	20.83	1	0	Front	5	0	0.443	1.309	0.580	0.737	0.481		24.3		
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	-0.07	793.00	23330	0.0	22.0	20.75	25	0	Front	5	0	0.451	1.314	0.602	0.765	0.478		24.2		
Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	0.07	793.00	23330	0.0	22.0	20.83	1	0	Top	10	0	0.248	1.309	0.325	0.413	0.218		26.8		21.0
Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	-0.02	793.00	23330	0.0	22.0	20.75	25	0	Top	10	0	0.368	1.314	0.358	0.455	0.281		26.4		
Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	0.03	793.00	23330	0.0	22.0	20.83	1	0	Right	10	0	0.149	1.309	0.195	0.248	0.155		29.0		
Hotspot	LTE Band 14	10	QPSK	E	0546M	1:1	-0.03	793.00	23330	0.0	22.0	20.75	25	0	Right	10	0	0.149	1.354	0.199	0.253	0.157		29.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-32 | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.03	831.50	26865	0.0	22.0	20.36	1	74	Right Cheek	0	0.627	1.459	0.915	1.162	0.726	22.3			
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.03	831.50	26865	0.0	22.0	20.25	36	18	Right Cheek	0	0.600	1.496	0.898	1.140	0.712	22.4			
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.03	831.50	26865	0.0	22.0	20.09	75	0	Right Cheek	0	0.604	1.552	0.937	1.190	0.744	22.2			
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.07	831.50	26865	0.0	22.0	20.36	1	74	Right Tilt	0	0.493	1.459	0.719	0.913	0.570	22.4			
Head	LTE Band 26	15	QPSK	E	0546M	1:1	0.03	831.50	26865	0.0	22.0	20.25	36	18	Right Tilt	0	0.468	1.496	0.700	0.889	0.556	23.5			
Head	LTE Band 26	15	QPSK	E	0546M	1:1	0.03	831.50	26865	0.0	22.0	20.36	1	74	Left Cheek	0	0.734	1.459	1.071	1.260	0.850	Plot	21.7	21.7	
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.03	831.50	26865	0.0	22.0	20.25	36	18	Left Cheek	0	0.677	1.496	1.013	1.297	0.804			21.0	
Head	LTE Band 26	15	QPSK	E	0546M	1:1	0.05	831.50	26865	0.0	22.0	20.09	75	0	Left Cheek	0	0.654	1.552	1.015	1.289	0.805				
Head	LTE Band 26	15	QPSK	E	0546M	1:1	-0.03	831.50	26865	0.0	22.0	20.25	36	18	Left Tilt	0	0.729	1.459	1.064	1.351	0.845				
Head	LTE Band 26	15	QPSK	E	0546M	1:1	0.03	831.50	26865	0.0	22.0	20.36	1	74	Left Tilt	0	0.695	1.496	1.011	1.275	0.795				
Head	LTE Band 26	15	QPSK	E	0546M	1:1	0.00	831.50	26865	0.0	22.0	20.09	75	0	Left Tilt	0	0.656	1.552	1.018	1.293	0.808	21.9			
ANSI/IEEE C63.1.1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-33 | Plot A20

Exposure	Band / Mode	Bandwidth [kHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.30	831.50	26865	0.0	25.0	23.75	1	74	Back	5	120	0.607	1.334	0.876	0.917	0.573	Plot	25.5		
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.01	831.50	26865	1.0	24.0	22.47	36	0	Back	5	120	0.509	1.422	0.715	0.943	0.589		25.4		
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.00	831.50	26865	1.0	24.0	22.40	75	0	Back	5	120	0.514	1.445	0.743	0.979	0.612		25.2		
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.19	831.50	26865	0.0	25.0	23.75	1	74	Front	5	120	0.576	1.334	0.902	0.925	0.528		27.9		
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.02	831.50	26865	1.0	24.0	22.47	36	0	Front	5	120	0.581	1.422	0.840	0.927	0.629		27.9		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.00	831.50	26865	0.0	25.0	23.75	1	74	Bottom	10	120	0.671	1.334	0.905	0.909	0.562		35.2	25.2	25.2
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.03	831.50	26865	1.0	24.0	22.47	36	0	Bottom	10	120	0.689	1.422	0.970	0.992	0.588		35.6		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.17	831.50	26865	0.0	25.0	23.75	1	74	Right	10	120	0.694	1.334	0.925	0.931	0.582		34.0		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.02	831.50	26865	1.0	24.0	22.47	36	0	Right	10	120	0.677	1.422	0.909	0.944	0.590		33.5		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.01	831.50	26865	0.0	25.0	23.75	1	74	Left	10	120	0.526	1.334	0.905	0.904	0.521		32.3		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	-0.03	831.50	26865	1.0	24.0	22.47	36	0	Left	10	120	0.596	1.422	0.915	0.959	0.524		32.2		
ANSI/IEEE C63.1.1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0546M	1:1	-0.07	831.50	26865	0.0	22.0	20.36	1	74	Back	5	0.626	1.459	0.913	1.160	0.725		22.3		
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0546M	1:1	-0.01	831.50	26865	0.0	22.0	20.25	36	18	Back	5	0.575	1.496	0.860	1.092	0.683		22.6		
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0546M	1:1	-0.05	831.50	26865	0.0	22.0	20.36	75	0	Back	5	0.560	1.552	0.869	1.104	0.690		22.6		
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0546M	1:1	-0.05	831.50	26865	0.0	22.0	20.36	1	74	Front	5	0.508	1.459	0.741	0.941	0.588		23.3		
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0546M	1:1	0.01	831.50	26865	0.0	22.0	20.25	36	18	Front	5	0.482	1.496	0.721	0.916	0.573		23.4		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.05	831.50	26865	0.0	25.0	23.75	1	74	Top	10	0.724	1.459	0.800	0.908	0.528		25.9		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.01	831.50	26865	0.0	22.0	20.25	36	18	Top	10	0.562	1.496	0.392	0.498	0.311		26.0		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.08	831.50	26865	0.0	22.0	20.36	1	74	Right	10	0.170	1.459	0.248	0.315	0.197		28.0		
Hotspot	LTE Band 26	15	QPSK	A	0546M	1:1	0.10	831.50	26865	0.0	22.0	20.25	36	18	Right	10	0.163	1.496	0.229	0.291	0.182		28.4		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

12.11 LTE Band 66 (AWS) Standalone SAR

Table 12-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.19	1720.00	132072	0.0	24.5	23.48	1	50	Right Cheek	0	99	0.135	1.265	0.186	0.239	0.149		32.3		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.04	1720.00	132072	1.0	23.5	22.14	50	25	Right Cheek	0	99	0.099	1.368	0.135	0.246	0.154		32.1		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	-0.12	1720.00	132072	0.0	24.5	23.48	1	50	Right Tilt	0	99	0.068	1.265	0.086	0.124	0.078		35.1		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.01	1720.00	132072	1.0	23.5	22.14	50	25	Right Tilt	0	99	0.252	1.368	0.071	0.229	0.140		34.0		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.03	1720.00	132072	0.0	24.5	23.48	1	50	Left Cheek	0	99	0.013	1.265	0.016	0.024	0.005		42.3	32.1	26.1
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.02	1720.00	132072	1.0	23.5	22.14	50	25	Left Cheek	0	99	0.013	1.368	0.018	0.032	0.020		41.9		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	0.03	1720.00	132072	0.0	24.5	23.48	1	50	Left Tilt	0	99	0.007	1.265	0.001	0.122	0.083		34.3		
Head	LTE Band 66	20	QPSK	A	0546M	1:1	-0.12	1720.00	132072	1.0	23.5	22.14	50	25	Left Tilt	0	99	0.006	1.368	0.077	0.139	0.087		34.6		
ANSI/IEEE C63.1.1982 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-36 | Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.08	1720.00	132072	0.0	19.0	17.38	1	50	Right Cheek	0	0.613	1.452	0.890	1.130	0.706		19.5		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.13	1745.00	132322	0.0	19.0	17.71	1	50	Right Cheek	0	0.736	1.346	0.977	1.241	0.776	Plot	19.1		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.01	1720.00	132072	0.0	19.0	17.50	1	0	Right Cheek	0	0.671	1.384	0.929	1.180	0.729		19.3		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.10	1720.00	132072	0.0	19.0	17.34	50	25	Right Cheek	0	0.683	1.466	1.001	1.271	0.795		18.9		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.07	1745.00	132322	0.0	19.0	17.49	50	0	Right Cheek	0	0.704	1.416	0.987	1.266	0.791		19.0		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.05	1720.00	132072	0.0	19.0	17.38	50	0	Right Cheek	0	0.708	1.410	0.955	1.276	0.796		18.9		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.09	1745.00	132322	0.0	19.0	17.49	100	0	Right Cheek	0	0.704	1.416	0.987	1.266	0.791		19.0		
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.07	1720.00	132072	0.0	19.0	17.38	1	50	Right Tilt	0	0.618	1.452	0.897	1.139	0.712	19.4			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.05	1745.00	132322	0.0	19.0	17.71	1	50	Right Tilt	0	0.748	1.346	0.961	1.220	0.761	19.1			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.05	1720.00	132072	0.0	19.0	17.34	50	25	Right Tilt	0	0.683	1.466	1.001	1.271	0.795	18.9			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	-0.02	1720.00	132072	0.0	19.0	17.34	50	25	Right Tilt	0	0.618	1.456	0.951	1.187	0.742	19.2			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.05	1745.00	132322	0.0	19.0	17.49	50	0	Right Tilt	0	0.708	1.410	0.955	1.276	0.796	19.1			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	-0.02	1720.00	132072	0.0	19.0	17.34	50	25	Right Tilt	0	0.618	1.456	0.951	1.187	0.742	19.2			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.01	1745.00	132322	0.0	19.0	17.50	1	0	Right Tilt	0	0.671	1.384	0.929	1.180	0.729	19.3			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	-0.03	1720.00	132072	0.0	19.0	17.34	100	0	Right Tilt	0	0.683	1.466	1.001	1.271	0.795	18.9			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.01	1745.00	132322	0.0	19.0	17.50	100	0	Right Tilt	0	0.684	1.452	0.979	1.243	0.777	19.0			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	-0.02	1745.00	132322	0.0	19.0	17.71	1	50	Left Cheek	0	0.748	1.346	0.961	1.220	0.761	19.1			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.00	1745.00	132322	0.0	19.0	17.49	50	0	Left Cheek	0	0.708	1.416	0.951	1.262	0.794	21.8			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.00	1720.00	132072	0.0	19.0	17.71	1	50	Left Tilt	0	0.474	1.346	0.686	0.810	0.507	20.9			
Head	LTE Band 66	20	QPSK	F	0708M	1:1	0.00	1745.00	132322	0.0	19.0	17.49	50	0	Left Tilt	0	0.456	0.866	0.620	0.820	0.511	20.9			
Annuited CSR 1.1992 - SARITY Unit																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure / General Population																	averaged over 10 min								

Table 12-37 | Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfR [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Rate [1g SAR]	Plot #	Film# [dBm]	Overall Film# [dBm]	TVS Film# [dBm]	
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.03	1720.00	132072	0.0	18.0	16.75	1	50	Back	5	109	0.0056	1.321	0.801	1.057	0.636	18.9				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.01	1745.00	132322	0.0	18.0	16.99	1	50	Back	5	109	0.0502	1.262	0.823	1.045	0.653	18.8				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.01	1720.00	132572	0.0	18.0	16.74	1	50	Back	5	109	0.0506	1.330	0.841	1.072	0.681	18.7				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.09	1720.00	132072	0.0	18.0	16.64	50	Back	5	109	0.0506	1.330	0.841	1.072	0.681	18.8					
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.09	1745.00	132322	0.0	18.0	16.74	50	Back	5	109	0.0443	1.337	0.802	1.092	0.683	18.6					
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.03	1720.00	132572	0.0	18.0	16.64	100	0	Front	5	109	0.0506	1.330	0.841	1.072	0.681	18.7				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.07	1745.00	132322	0.0	18.0	16.64	100	0	Front	5	109	0.0422	1.368	0.851	1.081	0.676	18.7				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.01	1720.00	132072	0.0	18.0	16.75	1	50	Back	5	109	0.720	1.321	0.964	1.224	0.766	18.1				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.07	1745.00	132322	0.0	18.0	16.99	1	50	Front	5	109	0.1297	1.262	0.946	1.229	0.768	18.1				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.03	1720.00	132572	0.0	18.0	16.76	1	99	Front	5	109	0.0600	1.330	0.904	1.148	0.718	18.4				
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.06	1720.00	132072	0.0	18.0	16.64	50	Front	5	109	0.0506	1.368	0.910	1.156	0.723	18.4					
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.01	1745.00	132322	0.0	18.0	16.75	50	Front	5	109	0.703	1.337	0.917	1.217	0.713	18.2					
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.08	1720.00	132572	0.0	18.0	16.65	50	Front	5	109	0.0481	1.365	0.930	1.181	0.738	18.3					
Body worn/Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.09	1745.00	132322	0.0	18.0	16.64	100	0	Front	5	109	0.0506	1.368	0.910	1.156	0.723	18.4				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.00	1720.00	132072	0.0	18.0	16.75	1	50	Bottom	10	109	0.1931	1.321	0.931	1.181	0.692	0.620	18.9	18.1	17.0	
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.02	1745.00	132322	0.0	18.0	16.99	1	50	Bottom	10	109	0.0488	1.262	0.830	1.054	0.659	18.9				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.00	1720.00	132072	0.0	18.0	16.75	1	50	Bottom	10	109	0.2119	1.330	0.919	1.169	0.693	18.9				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.00	1745.00	132322	0.0	18.0	16.64	50	Bottom	10	109	0.0500	1.368	0.939	1.097	0.630	18.8					
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.02	1720.00	132572	0.0	18.0	16.65	50	Bottom	10	109	0.0485	1.367	0.934	1.097	0.630	18.8					
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.02	1745.00	132322	0.0	18.0	16.65	50	Bottom	10	109	0.0485	1.367	0.934	1.097	0.630	18.8					
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	-0.01	1745.00	132322	0.0	18.0	16.64	100	0	Bottom	10	109	0.0427	1.368	0.858	1.090	0.681	18.6				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.16	1745.00	132322	0.0	18.0	16.99	50	Right	10	109	0.0486	1.262	0.830	1.054	0.659	18.9					
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.08	1745.00	132322	0.0	18.0	16.74	50	50	Right	10	109	0.0495	1.337	0.860	0.976	0.648	18.7				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.01	1745.00	132322	0.0	18.0	16.99	1	50	Left	10	109	0.0315	1.262	0.039	0.050	0.040	30.2				
Hotspot	LTE Band 66	20	QPSK	A	0708M	1.1	0.03	1745.00	132322	0.0	18.0	16.74	50	50	Left	10	109	0.0312	1.337	0.041	0.055	0.034	31.6				
AND/SEE CW 1.1 1092 - SAFETY LIMIT																		Body									
																		1.6 W/kg (W/kg)									
																		averaged over 1 gram									
Uncontrolled Exposure/Safety Limit																											

Table 12-38

[illegible]

12.12 LTE Band 25 (PCS) Standalone SAR

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dBm]	Frequency [MHz]	Channel #	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Tune state	Measured L1 SAE [W/kg]	Power Scaling Factor	Reported L1 SAE [W/kg]	Adjusted L1 SAE [W/kg]	Exposure Rate [L1 SAE]	Plot #	Flank [dBm]	Overall Flank [dBm]	LFS Flank [dBm]
Head	LTE Band 25	20	QPSK	A	0540M	1:1	-0.15	1892.50	26365	0.0	24.5	23.30	1	0	Right Chest	0	99	0.136	1.118	0.179	0.248	0.155		31.9		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	-0.06	1892.50	26365	0.0	23.5	22.21	0	25	Right Chest	0	99	0.090	1.148	0.137	0.239	0.149		31.9		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	0.00	1892.50	26365	0.0	24.5	23.30	1	0	Right Trt	0	99	0.090	1.118	0.079	0.169	0.068		35.5		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	0.07	1892.50	26365	1.0	23.5	22.21	0	25	Right Trt	0	99	0.047	1.146	0.061	0.100	0.069	35.4	31.9	25.0	
Head	LTE Band 25	20	QPSK	A	0540M	1:1	-0.13	1892.50	26365	1.0	24.5	23.30	1	1	Left Chest	0	99	0.090	1.118	0.124	0.171	0.107		33.5		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	0.02	1892.50	26365	1.0	23.5	22.21	0	25	Left Chest	0	99	0.073	1.146	0.098	0.171	0.107		33.5		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	-0.11	1892.50	26365	1.0	24.5	23.30	1	0	Left Trt	0	99	0.086	1.118	0.127	0.175	0.109		33.4		
Head	LTE Band 25	20	QPSK	A	0540M	1:1	-0.01	1892.50	26365	1.0	23.5	22.21	0	25	Left Trt	0	99	0.079	1.146	0.106	0.166	0.116		33.2		
ANSI/IEEE C95.1-1992 - Safety Limit																		Head								
Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-40 | Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfnt [dBm]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Head		Reported SAR [W/kg]	Adjusted SAR [W/kg]	Exposure Ratio (eq SAR)	Plot #	Plant [dBm]	Overall Plant [dBm]	EFS Plant [dBm]
																	Measured SAR [W/kg]	Power Scaling Factor							
Head	LTE Band 25	20	GPSS	F	0708M	1:1	-0.02	1860.00	26340	0.0	19.0	17.62	1	50	Right Cheek	0	0.635	1.374	0.872	1.107	0.692	19.5			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	-0.06	1860.00	26340	0.0	19.0	17.40	1	50	Right Cheek	0	0.609	1.360	0.880	1.118	0.699	19.5			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.03	1905.00	26590	0.0	19.0	17.59	1	50	Right Cheek	0	0.603	1.384	0.918	1.166	0.729	Plot	19.3		
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.03	1860.00	26340	0.0	19.0	17.58	1	50	Right Cheek	0	0.634	1.387	0.979	1.116	0.697	19.5			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.01	1860.00	26340	0.0	19.0	17.62	1	50	Right Cheek	0	0.661	1.387	0.869	1.129	0.687	19.5			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.02	1905.00	26590	0.0	19.0	17.45	50	25	Right Cheek	0	0.602	1.429	0.946	1.201	0.751	19.2			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.01	1860.00	26340	0.0	19.0	17.57	100	0	Right Cheek	0	0.625	1.390	0.869	1.104	0.690	19.6	19.2	18.0	
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.08	1860.00	26340	0.0	19.0	17.62	1	50	Right Trl	0	0.460	1.374	0.632	0.803	0.562	20.9			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	-0.07	1860.00	26340	0.0	19.0	17.40	1	50	Right Trl	0	0.617	1.387	0.623	0.793	0.563	20.9			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.08	1860.00	26340	0.0	19.0	17.62	1	50	Left Cheek	0	0.586	1.374	0.530	0.673	0.420	21.7			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.01	1860.00	26340	0.0	19.0	17.58	50	0	Left Cheek	0	0.576	1.387	0.522	0.663	0.414	21.8			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	-0.01	1860.00	26340	0.0	19.0	17.63	1	50	Left Trl	0	0.625	1.374	0.584	0.742	0.464	21.4			
Head	LTE Band 25	20	GPSS	F	0708M	1:1	0.07	1860.00	26340	0.0	19.0	17.58	50	0	Left Trl	0	0.606	1.387	0.632	0.803	0.562	20.9			
Analogized C95.1.1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)					
Spatial Peak																		SAR		10 W/kg (mW/g)					
Unadjusted Exposure to General Population																		Head		1.6 W/kg (mW/g)					

Table 12-41 | Plot A24, A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Daily Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	MFB [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAE [W/kg]	Power Scaling Factor	Reported 1g SAE [W/kg]	Adjusted 1g SAE [W/kg]	Exposure Ratio (1g SAE)	Plot #	Flank [dBm]	Overall Flank [dBm]	RF Flank [dBm]	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.15	1860.00	26140	0.0	18.67	1	50	Back	5	112	0.624	1.346	0.840	1.067	0.567	0.567	18.7				
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.16	1882.50	26365	0.0	18.60	1	99	Back	5	112	0.539	1.409	0.731	0.908	0.580	0.580	19.3				
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.13	1900.00	26590	0.0	18.0	16.50	1	99	Back	5	112	0.608	1.349	0.889	1.128	0.705	0.705	18.5			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.09	1882.50	26365	0.0	18.0	16.60	1	99	Back	5	112	0.539	1.409	0.731	0.908	0.580	0.580	18.8			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.04	1882.50	26365	0.0	18.0	16.50	1	99	Back	5	112	0.615	1.406	0.863	1.096	0.685	0.685	18.6			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.00	1860.00	26140	0.0	18.0	16.50	1	99	Back	5	112	0.608	1.349	0.927	1.165	0.736	0.736	18.4			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.16	1860.00	26140	0.0	18.0	16.50	1	99	Back	5	112	0.725	1.393	1.052	1.283	0.823	0.823	18.2			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1860.00	26140	0.0	18.0	16.71	1	50	Front	5	112	0.609	1.346	0.944	1.195	0.747	0.747	18.7			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1882.50	26365	0.0	18.0	16.50	1	99	Back	5	112	0.633	1.409	0.833	1.070	0.693	0.693	18.4			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.01	1900.00	26590	0.0	18.0	16.50	1	99	Front	5	112	0.679	1.349	0.911	1.157	0.723	0.723	18.4			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1860.00	26140	0.0	18.0	16.70	1	25	Front	5	112	0.722	1.352	0.976	1.240	0.775	0.775	18.1			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.07	1882.50	26365	0.0	18.0	16.50	1	99	Back	5	112	0.639	1.403	0.833	1.070	0.693	0.693	18.4			
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.05	1900.00	26590	0.0	18.0	16.50	1	50	Front	5	112	0.608	1.396	0.919	1.167	0.729	0.729	18.3		17.8	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1860.00	26140	0.0	18.0	16.50	1	99	Back	5	112	0.696	1.393	0.961	1.223	0.765	0.765	18.1		17.0	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1882.50	26365	0.0	18.0	16.71	1	99	Back	5	112	0.608	1.346	0.944	1.195	0.747	0.747	18.7			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.07	1882.50	26365	0.0	18.0	16.51	1	25	Bottom	50	112	0.657	1.409	0.926	1.176	0.735	0.735	18.3			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.06	1900.00	26590	0.0	18.0	16.50	1	99	Bottom	50	112	0.696	1.349	0.926	1.176	0.735	0.735	18.3			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.00	1860.00	26140	0.0	18.0	16.69	50	25	Bottom	50	112	0.754	1.352	1.019	1.294	0.809	0.779	17.9			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.01	1882.50	26365	0.0	18.0	16.53	1	50	Bottom	50	112	0.635	1.403	0.891	1.123	0.707	0.707	18.5			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.01	1900.00	26590	0.0	18.0	16.50	1	50	Bottom	50	112	0.685	1.396	0.944	1.176	0.735	0.735	18.1			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.04	1860.00	26140	0.0	18.0	16.56	100	0	Bottom	50	112	0.741	1.393	1.035	1.314	0.822	0.778	17.7			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.13	1860.00	26140	0.0	18.0	16.71	1	50	Right	50	112	0.637	1.346	0.956	1.064	0.699	0.699	31.0			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.01	1860.00	26140	0.0	18.0	16.69	1	50	Right	50	112	0.698	1.352	0.965	1.065	0.694	0.694	30.8			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	-0.10	1860.00	26140	0.0	18.0	16.71	1	50	Left	50	112	0.693	1.346	0.944	0.956	0.696	0.696	31.0			
Hotspot	LTE Band 25	20	QPSK	A	0708M	1..1	0.00	1860.00	26140	0.0	18.0	16.69	50	25	Left	50	112	0.692	1.352	0.943	0.956	0.694	0.694	31.6			
AN/ELEX CP-3.1 1992 - SAFETY UNIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Unconcentrated (Unconcentrated Limit)																		Reported value (mW/g)									

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RF EXPOSURE PART 1 TEST REPORT

DUT Type:
Portable Handset

Approved by:
Technical Man

Page 126 of 171

REV 22.0

03/30/2022

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Table 12-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.07	1882.50	26365	0.0	21.0	19.99	1	99	Back	5	0.425	1.262	0.536	0.681	0.425		23.7		
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.11	1860.00	26340	0.0	21.0	19.51	50	0	Back	5	0.417	1.409	0.588	0.747	0.467		23.3		
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.13	1882.50	26365	0.0	21.0	19.99	1	99	Front	5	0.417	1.262	0.536	0.668	0.418		23.7		
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.05	1860.00	26340	0.0	21.0	19.51	50	0	Front	5	0.405	1.409	0.576	0.732	0.457		23.3		
Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.01	1882.50	26365	0.0	21.0	19.99	1	99	Top	10	0.477	1.262	0.602	0.765	0.478	23.7	22.7	20.0	
Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	0.00	1860.00	26340	0.0	21.0	19.51	50	0	Top	10	0.477	1.409	0.672	0.853	0.533	22.7	22.7	20.0	
Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	-0.09	1882.50	26365	0.0	21.0	19.99	1	99	Left	10	0.482	1.262	0.616	0.747	0.493	30.3	30.3	20.0	
Hotspot	LTE Band 25	20	QPSK	F	0708M	1:1	0.03	1860.00	26340	0.0	21.0	19.51	50	0	Left	10	0.480	1.409	0.672	0.853	0.530	29.9	29.9	20.0	
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

12.13 LTE Band 30 Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 30	10	QPSK	A	0510M	1:1	0.06	2310.00	27710	0.0	23.0	21.94	1	25	Right Cheek	0	0.011	1.400	0.015	0.114	0.071		41.1		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	-0.14	2310.00	27710	1.0	22.0	20.52	25	12	Right Cheek	0	0.008	1.406	0.011	0.105	0.066		41.4		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	0.01	2310.00	27710	0.0	23.0	21.94	1	25	Right TIR	0	0.013	1.400	0.018	0.135	0.084		40.4		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	0.09	2310.00	27710	1.0	22.0	20.52	25	12	Right TIR	0	0.010	1.406	0.014	0.131	0.082		40.5		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	0.03	2310.00	27710	0.0	23.0	21.94	1	25	Left Cheek	0	0.010	1.400	0.025	0.187	0.117		38.9		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	0.11	2310.00	27710	1.0	22.0	20.52	25	12	Left Cheek	0	0.015	1.406	0.021	0.187	0.123		38.7		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	-0.17	2310.00	27710	0.0	23.0	21.94	1	25	Left TIR	0	0.013	1.400	0.018	0.135	0.084		40.4		
Head	LTE Band 30	10	QPSK	A	0510M	1:1	-0.14	2310.00	27710	1.0	22.0	20.52	25	12	Left TIR	0	0.008	1.406	0.011	0.105	0.066		41.4		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-44 | Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.01	2310.00	27710	0.0	18.0	16.89	1	49	Right Cheek	0	0.712	1.291	0.919	1.107	0.729		18.3		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	-0.04	2310.00	27710	0.0	18.0	16.77	25	0	Right Cheek	0	0.712	1.327	0.945	1.200	0.750		18.2		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	-0.04	2310.00	27710	0.0	18.0	16.50	50	0	Right Cheek	0	0.718	1.413	1.016	1.290	0.806		17.9		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.03	2310.00	27710	0.0	18.0	16.89	1	49	Right TIR	0	0.729	1.291	0.941	1.195	0.747	Plot	18.2		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	-0.03	2310.00	27710	0.0	18.0	16.77	25	0	Right TIR	0	0.713	1.327	0.946	1.200	0.753		18.2		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.00	2310.00	27710	0.0	18.0	16.50	50	0	Right TIR	0	0.725	1.413	1.024	1.301	0.813		17.8		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	-0.09	2310.00	27710	0.0	18.0	16.89	1	49	Left Cheek	0	0.714	1.291	0.943	0.613	0.383		21.1		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.00	2310.00	27710	0.0	18.0	16.77	25	0	Left Cheek	0	0.704	1.327	0.933	0.664	0.445		20.8		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.03	2310.00	27710	0.0	18.0	16.89	1	49	Left TIR	0	0.718	1.291	0.969	0.849	0.531		19.7		
Head	LTE Band 30	10	QPSK	F	0510M	1:1	0.00	2310.00	27710	0.0	18.0	16.77	25	0	Left TIR	0	0.706	1.327	0.971	0.853	0.533		19.7		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Head								
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g)								
Spatial Peak																	averaged over 1 gram								
Uncontrolled Exposure/General Population																									

Table 12-45 | Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [Power dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 5g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	-0.01	2310.00	27710	0.0	20.0	18.41	1	0	Back	5	0.743	1.442	1.071	1.371	0.851		19.7		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	-0.02	2310.00	27710	0.0	20.0	18.49	25	12	Back	5	0.766	1.416	1.085	1.368	0.861		19.6		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.01	2310.00	27710	0.0	20.0	18.40	50	0	Back	5	0.738	1.445	1.095	1.391	0.869		19.6		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.14	2310.00	27710	0.0	20.0	18.41	1	0	Front	5	0.744	1.442	1.073	1.363	0.852		19.6		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	-0.02	2310.00	27710	0.0	20.0	18.49	25	12	Front	5	0.743	1.416	1.052	1.336	0.835		19.7		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.01	2310.00	27710	0.0	20.0	18.40	50	0	Front	5	0.736	1.445	1.064	1.351	0.844		19.7		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	-0.05	2310.00	27710	0.0	20.0	18.45	1	0	Bottom	10	0.635	1.442	0.916	1.105	0.727		20.9	19.0	19.0
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	-0.01	2310.00	27710	0.0	20.0	18.49	25	12	Bottom	10	0.634	1.416	0.898	1.140	0.753		20.4		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.05	2310.00	27710	0.0	20.0	18.40	50	0	Bottom	10	0.602	1.445	0.902	1.145	0.716		20.4		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.04	2310.00	27710	0.0	20.0	18.41	1	0	Right	10	0.595	1.442	0.909	0.911	0.607		40.6		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.02	2310.00	27710	0.0	20.0	18.49	25	12	Right	10	0.605	1.416	0.907	0.909	0.606		41.5		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.05	2310.00	27710	0.0	20.0	18.41	1	0	Left	10	0.604	1.442	0.949	0.962	0.639		13.0		
Hotspot	LTE Band 30	10	QPSK	A	0510M	1:1	0.04	2310.00	27710	0.0	20.0	18.49	25	12	Left	10	0.606	1.416	0.951	0.965	0.641		12.9		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								



12.14 LTE Band 7 Standalone SAR

Table 12-47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2535.00	21100	0.0	24.0	22.80	1	50	Right Cheek	0	0.045	1.318	0.059	0.247	0.154		36.2	36.2	30.2
Head	LTE Band 7	20	QPSK	B	0510M	1:1	0.01	2535.00	21100	1.0	23.0	21.69	50	50	Right Cheek	0	0.034	1.355	0.046	0.242	0.151		36.3		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	0.06	2535.00	21100	0.0	24.0	22.80	1	50	Right Tilt	0	0.035	1.338	0.046	0.192	0.120		37.3		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	0.09	2535.00	21100	1.0	23.0	21.69	50	50	Right Tilt	0	0.026	1.355	0.035	0.185	0.116		37.5		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	-0.05	2535.00	21100	0.0	24.0	22.80	1	50	Left Cheek	0	0.036	1.318	0.047	0.198	0.124		37.2		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	-0.10	2535.00	21100	1.0	23.0	21.69	50	50	Left Cheek	0	0.025	1.355	0.034	0.178	0.111		37.7		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	0.21	2535.00	21100	0.0	24.0	22.80	1	50	Left Tilt	0	0.028	1.318	0.037	0.154	0.096		38.3		
Head	LTE Band 7	20	QPSK	B	0510M	1:1	-0.01	2535.00	21100	1.0	23.0	21.69	50	50	Left Tilt	0	0.022	1.355	0.030	0.156	0.098		38.2		
ANSI/IEEE C63.19-2 SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-48 | Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.06	2510.00	20950	0.0	17.5	16.54	1	50	Right Cheek	0	0.056	1.247	0.818	1.039	0.649		18.3		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	21100	0.0	17.5	16.19	1	50	Right Cheek	0	0.037	1.352	0.861	1.094	0.688		18.1		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.02	2590.00	21350	0.0	17.5	16.02	1	0	Right Cheek	0	0.025	1.406	0.879	1.116	0.698		18.0		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	20950	0.0	17.5	16.23	50	0	Right Cheek	0	0.084	1.340	0.917	1.164	0.728		17.8		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.01	2510.00	21100	0.0	17.5	16.17	50	0	Right Cheek	0	0.061	1.358	0.908	1.140	0.711		17.9		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2560.00	21350	0.0	17.5	16.00	50	0	Right Cheek	0	0.052	1.413	0.921	1.170	0.731		17.8		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.03	2510.00	20950	0.0	17.5	16.11	100	0	Right Cheek	0	0.067	1.377	0.918	1.186	0.729		17.8		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.02	2510.00	20950	0.0	17.5	16.25	1	50	Right Tilt	0	0.002	1.247	1.000	1.270	0.794		17.4		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.02	2535.00	21100	0.0	17.5	16.19	1	50	Right Tilt	0	0.075	1.352	1.048	1.331	0.832		17.2		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.01	2560.00	21350	0.0	17.5	16.02	1	0	Right Tilt	0	0.039	1.406	1.039	1.320	0.825		17.3		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.03	2510.00	20950	0.0	17.5	16.23	50	0	Right Tilt	0	0.004	1.340	1.077	1.368	0.855	Plot	17.1		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.02	2535.00	21100	0.0	17.5	16.17	50	0	Right Tilt	0	0.098	1.358	1.085	1.378	0.861		17.1		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2560.00	21350	0.0	17.5	16.00	50	0	Right Tilt	0	0.072	1.413	1.081	1.385	0.866		17.1		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	20950	0.0	17.5	16.11	100	0	Right Tilt	0	0.098	1.377	1.085	1.378	0.861		17.1		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.02	2510.00	20950	0.0	17.5	16.54	1	50	Left Cheek	0	0.003	1.247	0.378	0.480	0.300		21.2		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	20950	0.0	17.5	16.23	50	0	Left Cheek	0	0.015	1.340	0.422	0.536	0.335		21.2		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	-0.06	2510.00	20950	0.0	17.5	16.54	1	50	Left Tilt	0	0.016	1.247	0.519	0.659	0.412		20.3		
Head	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	20950	0.0	17.5	16.23	50	0	Left Tilt	0	0.043	1.340	0.594	0.754	0.471		19.7		
ANSI/IEEE C63.19-2 SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-49 | Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Shift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.03	2510.00	20950	0.0	19.0	17.80	1	50	Back	5	0.749	1.318	0.987	1.254	0.784		19.0		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.01	2510.00	21100	0.0	19.0	18.16	1	99	Back	5	0.800	1.213	1.007	1.279	0.799		18.9		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.05	2560.00	21350	0.0	19.0	18.00	1	99	Back	5	0.846	1.231	1.043	1.325	0.829		18.8		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2510.00	20950	0.0	19.0	17.60	50	25	Back	5	0.763	1.380	1.053	1.337	0.836		18.7		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2510.00	21100	0.0	19.0	17.81	50	50	Back	5	0.845	1.315	1.111	1.411	0.882		18.5		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.05	2560.00	21350	0.0	19.0	17.75	50	0	Back	5	0.887	1.334	1.181	1.503	0.939		18.2		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2560.00	21350	0.0	19.0	17.73	100	0	Back	5	0.880	1.340	1.193	1.515	0.947	Hot	18.2	18.0	
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.01	2510.00	21100	0.0	19.0	18.16	1	99	Front	5	0.517	1.213	0.627	0.796	0.498		21.0		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2510.00	21100	0.0	19.0	17.81	50	50	Front	5	0.532	1.335	1.000	0.888	0.555		20.5		
Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.04	2535.00	21100	0.0	19.0	18.16	1	99	Bottom	10	0.514	1.213	0.381	0.484	0.303		23.1		
Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.01	2510.00	21100	0.0	19.0	17.81	50	50	Bottom	10	0.524	1.315	0.426	0.541	0.338		22.7		
Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	-0.02	2510.00	21100	0.0	19.0	18.16	1	99	Right	10	0.452	1.213	0.233	0.296	0.185		25.3		
Hotspot	LTE Band 7	20	QPSK	B	0510M	1:1	0.00	2510.00	21100	0.0	19.0	17.81	50	50	Right	10	0.194	1.315	0.255	0.324	0.203		24.9		
ANSI/IEEE C63.19-2 SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.02	2510.00	20950	0.0	20.0	18.72	1	0	Back	5	0.744	1.343	0.999	1.269	0.783		20.0		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	21100	0.0	20.0	18.78	1	50	Back	5	0.689	1.324	0.918	1.185	0.728		19.9		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.01	2560.00	21350	0.0	20.0	18.64	1	0	Back	5	0.797	1.368	1.000	1.385	0.866		19.6		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.01	2510.00	20950	0.0	20.0	18.59	50	0	Back	5	0.762	1.384	1.055	1.339	0.837		19.7		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	-0.01	2510.00	21100	0.0	20.0	18.60	50	0	Back	5	0.687	1.382	0.948	1.204	0.753		20.2		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	-0.02	2560.00	21350	0.0	20.0	18.44	50	0	Back	5	0.795	1.432	1.124	1.428	0.889		19.4		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	-0.01	2510.00	21100	0.0	20.0	18.56	100	0	Back	5	0.676	1.393	0.940	1.194	0.746		20.2	19.0	
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	-0.02	2510.00	21100	0.0	20.0	18.78	1	50	Front	5	0.521	1.324	0.600	0.876	0.548		21.6		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.01	2510.00	21100	0.0	20.0	18.60	50	0	Back	5	0.687	1.382	0.948	1.204	0.753		20.2		
Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.01	2510.00	21100	0.0	20.0	18.78	1	50	Top	10	0.981	1.324	0.518	0.657	0.411		22.8		
Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.00	2510.00	21100	0.0	20.0	18.60	50	0	Top	10	0.409	1.380	0.564	0.717	0.448		22.4		
Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	-0.11	2510.00	21100	0.0	20.0	18.78	1	50	Left	10	0.989	1.324	0.502	0.666	0.401		22.8		
Hotspot	LTE Band 7	20	QPSK	F	0510M	1:1	0.01	2510.00	21100	0.0	20.0	18.60	50	0	Left	10	0.988	1.380	0.552	0.607	0.452		22.8		
Analogized CS5.3.1092 - SAFETY LIMIT																	Body								
Spatial Power Density [mW/kg]																	1.6 W/kg [mW/kg]								
Exposure [General Population]																	Exposure [General Population]								



12.15 LTE Band 41 Standalone SAR

Table 12-51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.04	2636.50	41055	0.0	25.0	24.08	1	0	Right Cheek	0	0.061	1.236	0.051	0.243	0.152		35.9		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.04	2636.50	41055	1.0	24.0	23.23	50	0	Right Cheek	0	0.031	1.194	0.037	0.223	0.139		36.3		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.05	2636.50	41055	0.0	25.0	24.08	1	0	Right Tilt	0	0.053	1.236	0.041	0.195	0.127		36.6		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.10	2636.50	41055	1.0	24.0	23.23	50	0	Right Tilt	0	0.024	1.194	0.029	0.173	0.108		37.4		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.05	2636.50	41055	0.0	25.0	24.08	1	0	Left Cheek	0	0.029	1.236	0.036	0.172	0.108		37.4		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.03	2636.50	41055	1.0	24.0	23.23	50	0	Left Cheek	0	0.021	1.194	0.025	0.151	0.094		38.0		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.00	2636.50	41055	0.0	25.0	24.08	1	0	Left Tilt	0	0.025	1.236	0.031	0.148	0.093		38.1		
Head	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.10	2636.50	41055	1.0	24.0	23.23	50	0	Left Tilt	0	0.017	1.194	0.020	0.122	0.076		38.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																	Head 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																									

Table 12-52 | Plot A30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plmit [dBm]	Overall Plmit [dBm]	EPS Plmit [dBm]
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2506.00	39750	0.0	19.0	18.08	1	0	Right Cheek	0	0.748	1.236	0.925	1.175	0.734		17.3	16.7	16.0
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.02	2549.50	40185	0.0	19.0	17.67	1	0	Right Cheek	0	0.626	1.308	0.850	1.080	0.624		17.7		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2593.00	40620	0.0	19.0	17.80	1	0	Right Cheek	0	0.614	1.318	0.809	1.027	0.643		17.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.01	2616.50	41055	0.0	19.0	17.77	1	0	Right Cheek	0	0.596	1.327	0.924	1.173	0.734		17.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.06	2680.00	41490	0.0	19.0	17.69	1	0	Right Cheek	0	0.619	1.362	0.837	1.063	0.664		17.7		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.02	2506.00	39750	0.0	19.0	18.08	50	0	Right Cheek	0	0.697	1.259	0.878	1.115	0.697		17.5		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2549.50	40185	0.0	19.0	17.81	50	0	Right Cheek	0	0.611	1.315	0.803	1.020	0.638		17.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.01	2593.00	40620	0.0	19.0	17.89	50	0	Right Cheek	0	0.629	1.291	0.812	1.031	0.645		17.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.03	2636.50	41055	0.0	19.0	17.88	50	0	Right Cheek	0	0.681	1.294	0.881	1.119	0.700		17.5		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.86	50	0	Right Cheek	0	0.611	1.300	0.794	1.008	0.630		18.0		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.01	2506.00	39750	0.0	19.0	17.87	100	0	Right Cheek	0	0.672	1.297	0.872	1.107	0.692		17.6		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.08	1	0	Right Tilt	0	0.617	1.236	1.010	1.263	0.801	Plot	16.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.05	2549.50	40185	0.0	19.0	17.67	1	0	Right Tilt	0	0.685	1.358	0.930	1.181	0.738		17.3	16.7	
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.02	2593.00	40620	0.0	19.0	17.80	1	0	Right Tilt	0	0.689	1.318	0.908	1.153	0.721		17.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.00	2636.50	41055	0.0	19.0	17.77	1	0	Right Tilt	0	0.783	1.327	1.052	1.336	0.836		16.7		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.05	2680.00	41490	0.0	19.0	17.69	1	0	Right Tilt	0	0.675	1.362	0.913	1.160	0.725		16.9		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.08	50	0	Right Tilt	0	0.605	1.259	1.007	1.279	0.799		17.5		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2549.50	40185	0.0	19.0	17.81	50	0	Right Tilt	0	0.677	1.315	0.890	1.130	0.708		17.4		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.02	2593.00	40620	0.0	19.0	17.89	50	0	Right Tilt	0	0.780	1.291	0.904	1.148	0.718		17.5		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2636.50	41055	0.0	19.0	17.88	50	0	Right Tilt	0	0.612	1.294	1.051	1.335	0.841		16.8		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.01	2680.00	41490	0.0	19.0	17.86	50	0	Right Tilt	0	0.674	1.300	0.876	1.113	0.696		17.5		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.00	2506.00	39750	0.0	19.0	17.87	100	0	Right Tilt	0	0.771	1.297	1.000	1.270	0.794		17.0		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.06	2506.00	39750	0.0	19.0	18.08	1	0	Left Cheek	0	0.318	1.236	0.384	0.500	0.312		21.0		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.03	2506.00	39750	0.0	19.0	18.00	50	0	Left Cheek	0	0.309	1.259	0.389	0.494	0.309		21.1		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.08	1	0	Left Tilt	0	0.402	1.286	0.497	0.631	0.395		20.0		
Head	LTE Band 41	20	QPSK	F	0510M	1:1.58	-0.02	2506.00	39750	0.0	19.0	18.00	50	0	Left Tilt	0	0.360	1.259	0.453	0.575	0.359		20.4		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																									

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.05	2506.00	39750	0.0	20.0	18.78	1	0	Back	5	0.604	1.324	0.800	1.016	0.635		18.9		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.04	2549.50	40185	0.0	20.0	18.77	1	99	Back	5	0.666	1.327	0.928	1.178	0.736		18.3		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.00	2593.00	40620	0.0	20.0	18.97	1	0	Back	5	0.625	1.368	1.046	1.329	0.831	17.7			
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.02	2636.50	41055	0.0	20.0	19.33	1	0	Back	5	0.790	1.167	0.922	1.171	0.732		18.3		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.00	2680.00	41490	0.0	20.0	18.81	1	0	Back	5	0.753	1.161	0.980	1.258	0.778		17.9		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.03	2506.00	39750	0.0	20.0	18.96	50	0	Back	5	0.614	1.262	0.775	0.984	0.615	19.1			
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.01	2549.50	40185	0.0	20.0	18.80	50	25	Back	5	0.707	1.259	0.890	1.130	0.750		18.5		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.01	2593.00	40620	0.0	20.0	19.09	50	0	Back	5	0.612	1.233	1.026	1.303	0.814		17.9		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.05	2636.50	41055	0.0	20.0	18.44	50	0	Back	5	0.788	1.138	0.827	1.139	0.712		18.4	17.8	17.0
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.01	2680.00	41490	0.0	20.0	18.40	50	0	Back	5	0.769	1.261	0.950	1.219	0.842		18.1		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.02	2636.50	41055	0.0	20.0	19.32	100	0	Back	5	0.788	1.169	0.898	1.140	0.713		18.4		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.00	2506.00	39750	0.0	20.0	19.01	50	0	Back	5	0.657	1.259	0.867	1.071	0.694		18.4		
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.07	2636.50	41055	0.0	20.0	19.33	1	0	Front	5	0.680	1.167	0.940	0.711	0.444	20.5			
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.03	2636.50	41055	0.0	20.0	19.34	50	0	Front	5	0.480	1.136	0.546	0.694	0.434		20.6		
Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.02	2636.50	41055	0.0	20.0	19.33	1	0	Bottom	10	0.183	1.167	0.357	0.454	0.284		24.7		
Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.05	2636.50	41055	0.0	20.0	19.44	50	0	Bottom	10	0.188	1.136	0.351	0.445	0.278		22.5		
Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	-0.07	2636.50	41055	0.0	20.0	19.33	1	0	Right	10	0.183	1.167	0.214	0.271	0.169		24.7		
Hotspot	LTE Band 41	20	QPSK	B	0510M	1:1.58	0.02	2636.50	41055	0.0	20.0	19.44	50	0	Right	10	0.181	1.136	0.206	0.262	0.164		24.8		
UNCLASSIFIED CTS-1.1992 - SAFETY LIMIT																	1.6 W/kg (mW/g)								
Annoyed/Exposed/General Population																	averaged over 1 gram								



12.16 LTE Band 48 Standalone SAR

Table 12-55 | Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Df [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.05	3560.00	53340	0.0	17.5	16.33	1	0	Right Cheek	0	N/A	0.674	1.309	0.882	1.120	0.700		16.0		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.04	3603.30	53373	0.0	17.5	16.26	1	0	Right Cheek	0	N/A	0.705	1.324	0.895	1.137	0.711		16.0		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.05	3646.70	53207	0.0	17.5	16.51	1	0	Right Cheek	0	N/A	0.626	1.255	0.785	0.999	0.624		16.5		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.04	3690.00	56640	0.0	17.5	16.46	1	30	Right Cheek	0	N/A	0.583	1.271	0.716	0.909	0.588		16.0		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3560.00	53340	0.0	17.5	16.33	50	25	Right Cheek	0	N/A	0.683	1.353	0.867	1.101	0.689		16.1		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3603.30	53373	0.0	17.5	16.39	50	25	Right Cheek	0	N/A	0.672	1.291	0.868	1.102	0.689		16.1		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.02	3646.70	56207	0.0	17.5	16.64	50	50	Right Cheek	0	N/A	0.626	1.219	0.783	0.989	0.606		16.6		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3690.00	56640	0.0	17.5	16.51	50	25	Right Cheek	0	N/A	0.588	1.277	0.697	0.885	0.593		17.0		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	17.5	16.50	100	0	Right Cheek	0	N/A	0.631	1.309	0.787	0.999	0.624		16.5		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3560.00	53340	0.0	17.5	16.33	1	0	Right Tilt	0	N/A	0.789	1.389	1.041	1.122	0.826		15.3		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3603.30	53373	0.0	17.5	16.28	1	0	Right Tilt	0	N/A	0.791	1.324	1.047	1.100	0.831		15.3		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.02	3646.70	56207	0.0	17.5	16.51	1	0	Right Tilt	0	N/A	0.740	1.256	0.936	1.188	0.743		15.8		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3690.00	56640	0.0	17.5	16.46	1	50	Right Tilt	0	N/A	0.595	1.271	0.684	1.088	0.656		16.1		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3560.00	53340	0.0	17.5	16.32	50	25	Right Tilt	0	N/A	0.634	1.263	1.045	1.127	0.829		15.3		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.02	3603.30	53373	0.0	17.5	16.39	50	25	Right Tilt	0	N/A	0.613	1.291	1.050	1.133	0.833		15.3		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.04	3603.30	53373	0.0	17.5	16.32	50	50	Right Tilt	0	N/A	0.577	1.312	0.886	1.178	0.861		15.1		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	17.5	16.64	50	50	Right Tilt	0	N/A	0.753	1.219	0.918	1.166	0.729		15.8		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.04	3690.00	56640	0.0	17.5	16.51	50	25	Right Tilt	0	N/A	0.700	1.227	0.859	1.091	0.882		16.1		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	17.5	16.50	100	0	Right Tilt	0	N/A	0.748	1.259	0.942	1.156	0.748		15.7		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	17.5	16.51	1	0	Left Cheek	0	N/A	0.756	1.256	0.922	1.068	0.755		20.4		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	17.5	16.54	50	50	Left Cheek	0	N/A	0.752	1.219	0.907	0.990	0.844		20.6		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.02	3646.70	56207	0.0	17.5	16.51	1	0	Left Tilt	0	N/A	0.758	1.256	0.924	0.912	0.758		20.4		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.10	3646.70	56207	0.0	17.5	16.64	50	50	Left Tilt	0	N/A	0.703	1.219	0.908	0.992	0.745		20.6		
Head	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3603.30	53373	0.0	17.5	16.39	50	50	Left Tilt	0	ULCA 4BC	0.840	1.230	1.033	1.112	0.820	Plot	15.3		
ANG/IEEE C95.1-1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak																		Head		1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																		Head		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-56 | Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Df [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.02	3560.00	53340	0.0	20.0	18.08	1	99	Back	5	N/A	0.802	1.387	1.112	1.413	0.883		17.5		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.06	3603.30	53373	0.0	20.0	18.77	1	99	Back	5	N/A	0.813	1.377	1.076	1.492	0.913		17.5		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.06	1	99	Back	5	N/A	0.804	1.247	1.121	1.406	0.901		17.5		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3690.00	56640	0.0	20.0	19.01	1	0	Back	5	N/A	0.805	1.256	1.074	1.304	0.913		17.7		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3560.00	53340	0.0	20.0	18.76	50	25	Back	5	N/A	0.805	1.316	1.074	1.364	0.913		17.7		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3603.30	53373	0.0	20.0	18.77	50	25	Back	5	N/A	0.877	1.327	1.164	1.478	0.924		17.1		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.17	50	25	Back	5	N/A	0.835	1.211	1.132	1.418	0.899	Plot	17.4		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3690.00	56640	0.0	20.0	19.17	50	0	Back	5	N/A	0.848	1.225	1.089	1.319	0.924		17.8		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.05	100	0	Back	5	N/A	0.868	1.245	1.078	1.369	0.856		17.6		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.14	3646.70	56207	0.0	20.0	19.06	1	99	Front	5	N/A	0.707	1.242	0.981	0.984	0.703		22.2		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.17	1	99	Front	5	N/A	0.709	1.211	0.974	0.905	0.707		22.2		
Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.05	3646.70	56207	0.0	20.0	19.06	1	99	Top	10	N/A	0.755	1.242	0.940	0.913	0.751		21.0		
Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.17	30	25	Top	10	N/A	0.758	1.211	0.900	0.906	0.758		22.0		
Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3646.70	56207	0.0	20.0	19.06	1	99	Top	10	N/A	0.755	1.242	0.956	0.971	0.944		20.5		
Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.10	3646.70	56207	0.0	20.0	19.17	50	25	Left	10	N/A	0.749	1.211	0.959	0.975	0.747		30.2		
Body worn/Hotspot	LTE Band 48	20	QPSK	F	0488M	1:1.58	-0.01	3603.30	53373	0.0	20.0	18.77	1	0	Back	5	ULCA 4BC	0.881	1.327	1.169	1.485	0.928		17.3		
ANG/IEEE C95.1-1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak																		Body		1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																		Body		1.6 W/kg (mW/g) averaged over 1 gram						

12.17 NR Band n71 Standalone SAR

Table 12-57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Df [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.20	1	1	Right Cheek	0	117	0.905	1.202	0.114	0.208	0.130		34.4		
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	80	40	Right Cheek	0	117	0.907	1.206	0.125	0.217	0.142		34.9		
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.18	680.50	136100	CP-OFDM	1.5	23.5	22.94	1	1	Right Cheek	0	117	0.971	1.138	0.081	0.205	0.130		34.4		
Head	NR Band n71	35	QPSK	A	0513M	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	25.0	24.60	1	1	Right Tib	0	117	0.906	1.202	0.090	0.208	0.128		34.4		
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	80	40	Right Tib	0	117	0.903	1.208	0.066	0.210	0.137		34.9		
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.04	80	40	Left Cheek	0	117	0.907	1.206	0.126	0.210	0.142		34.9		
Head	NR Band n71	35	QPSK	A	0513M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	80	40	Left Tib	0	117	0.906	1.208	0.124	0.225	0.141		34.4		
Head	NR Band n71	35	QPSK	A	0513M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.50	1	1	Left Tib	0	117	0.917	1.202	0.044	0.081	0.051		38.5		
Head	NR Band n71	35	QPSK	A	0513M	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	80	40	Left Tib	0	117	0.901	1.208	0.053	0.086	0.060		37.7		
ANSI/IEEE C63.1982 - SAFETY LIMIT																				Head							
Spatial Peak																				1.6 W/kg (avg) over 10 g mass							
Uncontrolled Exposure, General Population																											



Table 12-59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel#	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body-worn/Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.20	1	1	Back	5	130	0.963	1.202	0.436	0.562	0.351		28.6		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.90	90	49	Back	5	130	0.466	1.288	0.574	0.740	0.461		27.4		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	0.01	680.50	136100	CP-OFDM	1.5	23.1	23.94	1	1	Back	5	130	0.389	1.188	0.306	0.557	0.348		28.6		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	1	1	Front	5	130	0.589	1.202	0.227	0.293	0.183		31.4		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	23.90	90	49	Front	5	130	0.214	1.288	0.276	0.355	0.222		29.5		
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	1	1	Bottom	40	130	0.002	1.202	0.038	0.050	0.031		30.1	27.4	26.1
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	23.30	90	49	Bottom	10	130	0.057	1.288	0.048	0.061	0.038		38.2		
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.30	1	1	Right	10	130	0.007	1.202	0.249	0.321	0.201		31.0		
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	23.30	90	49	Right	10	130	0.184	1.288	0.237	0.305	0.195		31.2		
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	23.30	1	1	Left	10	130	0.224	1.202	0.180	0.239	0.149		32.3		
Hotspot	NR Band n71	35	QPSK	A	0513M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.90	90	49	Left	10	130	0.170	1.288	0.219	0.282	0.176		31.5		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-60 | Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]		Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]		
Body worn/Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	23.0	23.62	1	1	Back	5		0.498	1.374	0.629	0.799	0.499		25.0				
Body worn/Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	23.0	23.18	90	0	Back	5		0.161	1.387	0.796	1.021	0.632	Plot	23.5				
Body worn/Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.03	680.50	136100	CP-OFDM	0.0	23.0	23.96	1	1	Back	5		0.122	1.274	0.729	0.925	0.578		24.3				
Body worn/Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	23.62	1	1	Front	5		0.277	1.374	0.181	0.483	0.302		27.1				
Body worn/Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.0	23.18	90	0	Front	5		0.089	1.387	0.498	0.632	0.391		26.6	23.0			
Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	23.0	23.62	1	1	Top	10		0.115	1.374	0.158	0.201	0.126		31.0				
Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	23.0	23.18	90	0	Top	10		0.183	1.387	0.276	0.287	0.179		29.4				
Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	23.0	23.18	1	1	Right	10		0.086	1.287	0.202	0.257	0.161		29.9				
Hotspot	NR Band n71	35	QPSK	E	0513M	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	23.0	23.18	90	0	Right	10		0.179	1.387	0.248	0.315	0.187		29.0				
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.18 NR Band n12 Standalone SAR

Table 12-61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel#	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.05	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Right Cheek	0	27	0.102	1.337	0.136	0.226	0.141		33.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Right Cheek	0	27	0.100	1.371	0.137	0.228	0.140		33.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.01	707.50	141500	CP-OFDM	1.5	25.5	22.46	1	1	Right Cheek	0	27	0.005	1.260	0.005	0.222	0.129		34.7		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Right Tib	0	27	0.005	1.387	0.080	0.133	0.083		35.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Right Tib	0	27	0.005	1.371	0.069	0.114	0.073		36.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.10	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Left Cheek	0	27	0.000	1.387	0.058	0.120	0.079		36.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.14	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Left Cheek	0	27	0.000	1.371	0.137	0.228	0.143		33.6		
Head	NR Band n12	15	QPSK	A	0513M	1:1	0.03	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Left Tib	0	27	0.048	1.337	0.004	0.106	0.066		36.9		
Head	NR Band n12	15	QPSK	A	0513M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Left Tib	0	27	0.007	1.371	0.058	0.086	0.060		37.1		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-62 | Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Head	NR Band n12	15	QPSK	E	0513M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.81	1	1	Right Cheek	0	0.487	1.315	0.654	0.831	0.519		23.8			
Head	NR Band n12	15	QPSK	E	0513M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	22.0	20.72	36	0	Right Cheek	0	0.109	1.343	0.697	0.885	0.554		23.5			
Head	NR Band n12	15	QPSK	E	0513M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.81	1	1	Right Tib	0	0.446	1.315	0.586	0.744	0.463		24.1			
Head	NR Band n12	15	QPSK	E	0513M	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	22.0	20.72	36	0	Right Tib	0	0.487	1.343	0.667	0.847	0.530		23.6			
Head	NR Band n12	15	QPSK	E	0517M	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	22.0	20.83	1	1	Left Cheek	0	0.632	1.315	0.813	1.005	0.639		22.6			
Head	NR Band n12	15	QPSK	E	0517M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.73	36	0	Left Cheek	0	0.409	1.343	0.860	1.092	0.683	Plot	23.1	21.0		
Head	NR Band n12	15	QPSK	E	0517M	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	22.0	20.86	75	0	Left Cheek	0	0.089	1.303	0.815	1.035	0.646		22.8			
Head	NR Band n12	15	QPSK	E	0517M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.83	1	1	Left Tib	0	0.632	1.315	0.817	1.038	0.649		22.6			
Head	NR Band n12	15	QPSK	E	0517M	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	22.0	20.81	1	1	Left Tib	0	0.176	1.315	0.750	0.965	0.603		23.1			
Head	NR Band n12	15	QPSK	E	0517M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.72	36	0	Left Tib	0	0.586	1.343	0.787	0.999	0.625		23.0			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-63

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel#	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Back	5	27	0.528	1.337	0.706	0.909	0.568		26.3			
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Back	5	27	0.005	1.371	0.761	0.980	0.613		26.1			
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.01	707.50	141500	CP-OFDM	1.5	25.5	22.46	1	1	Back	5	27	0.384	1.260	0.488	0.707	0.567		26.5			
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Front	5	27	0.504	1.357	0.653	0.855	0.584		26.5			
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Front	5	27	0.013	1.371	0.761	0.980	0.613		26.1			
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	-0.17	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Bottom	10	27	0.021	1.337	0.628	0.836	0.623		40.5	26.1		
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Bottom	10	27	0.002	1.371	0.761	0.980	0.613		40.5	26.1		
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Right	10	27	0.046	1.337	0.662	0.879	0.649		37.1			
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.01	707.50	141500	DFT-s-OFDM	1.5	25.5	22.46	1	1	Right	10	27	0.001	1.371	0.761	0.980	0.613		37.1			
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	-0.33	707.50	141500	DFT-s-OFDM	0.0	25.0	23.74	1	1	Left	10	27	0.017	1.337	0.676	0.886	0.661		37.1			
Hotspot	NR Band n12	15	QPSK	A	0513M	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	25.0	23.63	36	22	Left	10	27	0.007	1.371	0.761	0.980	0.613		37.1			
FEDEREE C611-09 Safety Limit																												
Spatial Peak																			Body									
Uncontrolled Exposure - General Population																			averaged over 10 g/m									



12.19 NR Band n14 Standalone SAR

Table 12-65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinth [dBm]	Overall Pinth [dBm]	EFS Pinth [dBm]
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Right Cheek	0	137	0.060	1.130	0.080	0.145	0.095	35.9	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Right Cheek	0	137	0.063	1.155	0.085	0.155	0.097	35.6	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.07	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Right Tit	0	137	0.055	1.130	0.075	0.139	0.093	36.3	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.11	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Right Tit	0	137	0.054	1.155	0.075	0.137	0.083	36.3	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Left Cheek	0	137	0.052	1.130	0.122	0.223	0.139	34.1	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.14	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Left Cheek	0	137	0.054	1.155	0.114	0.207	0.129	34.1	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.03	793.00	158600	CP-OFDM	1.5	23.5	22.40	1	1	Left Cheek	0	137	0.064	1.288	0.082	0.212	0.133	34.1	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Left Tit	0	137	0.057	1.130	0.076	0.138	0.096	36.2	34.1	27.6	
Head	NR Band n14	10	QPSK	A	0531M	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Left Tit	0	137	0.051	1.155	0.068	0.126	0.079	36.2	34.1	27.6	
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																			Head 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																											

Table 12-66 | Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinth [dBm]	Overall Pinth [dBm]	EFS Pinth [dBm]	
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Right Cheek	0	0.467	1.152	0.631	0.801	0.500	23.0	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.10	793.00	158600	DFT-s-OFDM	0.0	22.0	20.81	25	0	Right Cheek	0	0.467	1.115	0.654	0.831	0.519	23.6	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.12	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Right Tit	0	0.468	1.152	0.546	0.693	0.433	24.6	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	22.0	20.81	25	0	Right Tit	0	0.460	1.115	0.592	0.752	0.470	24.2	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Left Cheek	0	0.444	1.152	0.898	1.140	0.712	22.4	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	25	0	Left Cheek	0	0.479	1.115	0.873	1.114	0.709	22.4	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.16	793.00	158600	DFT-s-OFDM	0.0	22.0	20.68	50	0	Left Cheek	0	0.462	1.155	0.897	1.139	0.727	22.4	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.15	793.00	158600	CP-OFDM	0.0	22.0	20.82	1	1	Left Cheek	0	0.494	1.312	0.911	1.157	0.723	Plot 22.4	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Left Tit	0	0.421	1.152	0.840	1.067	0.667	22.7	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.81	25	0	Left Tit	0	0.426	1.115	0.823	1.045	0.653	22.8	21.0	21.0		
Head	NR Band n14	10	QPSK	E	0531M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	22.0	20.68	50	0	Left Tit	0	0.409	1.155	0.825	1.068	0.655	22.8	21.0	21.0		
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																			Head 1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																											

Table 12-67 | Plot A39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinth [dBm]	Overall Pinth [dBm]	EFS Pinth [dBm]
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Back	5	10	0.544	1.130	0.857	0.918	0.574	25.6	25.6	25.6	25.6
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	25	14	Back	5	10	0.462	1.155	0.926	0.987	0.622	25.3	25.6	25.6	25.6
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.05	793.00	158600	DFT-s-OFDM	1.0	24.0	22.75	50	0	Back	5	10	0.549	1.134	0.739	0.788	0.618	25.3	25.6	25.6	25.6
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.02	793.00	158600	CP-OFDM	1.5	23.5	22.40	1	1	Back	5	10	0.455	1.288	0.587	0.689	0.556	25.8	25.6	25.6	25.6
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Front	5	10	0.417	1.130	0.948	1.081	0.801	28.4	25.6	25.6	25.6
Body-worn/Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Front	5	10	0.368	1.155	0.486	0.531	0.332	28.0	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Bottom	10	10	0.057	1.130	0.049	0.053	0.033	38.0	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.06	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Bottom	10	10	0.058	1.155	0.051	0.055	0.034	37.8	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.14	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Right	10	10	0.025	1.130	0.033	0.036	0.023	39.7	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Right	10	10	0.046	1.155	0.030	0.033	0.020	40.3	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.76	1	1	Left	10	10	0.063	1.130	0.084	0.090	0.056	35.7	25.6	25.6	25.6
Hotspot	NR Band n14	10	QPSK	A	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.68	25	14	Left	10	10	0.058	1.155	0.079	0.084	0.053	36.0	25.6	25.6	25.6
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																			Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																											

Table 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dfth [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinth [dBm]	Overall Pinth [dBm]	EFS Pinth [dBm]						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Back	5	10	0.190	1.152	0.798	1.013	0.634	22.5	22.5	22.5	22.5						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	22.0	20.81	25	0	Back	5	10	0.444	1.115	0.847	1.076	0.672	22.7	22.5	22.5	22.5						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.68	50	0	Back	5	10	0.447	1.155	0.877	1.114	0.696	22.5	22.5	22.5	22.5						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	CP-OFDM	1.0	22.0	20.69	1	1	Back	5	10	0.408	1.115	0.808	1.006	0.641	22.5	22.5	22.5	22.5						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.07	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Front	5	10	0.397	1.152	0.537	0.682	0.427	24.7	22.5	22.5	22.5						
Body-worn/Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	25	0	Front	5	10	0.444	1.115	0.571	0.725	0.455	24.7	22.5	22.5	22.5						
Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	1	1	Top	10	10	0.180	1.152	0.445	0.509	0.303	28.1	28.1	28.1	28.1						
Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.69	25	0	Top	10	10	0.391	1.115	0.240	0.270	0.164	27.9	27.9	27.9	27.9						
Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	22.0	20.81	1	1	Right	10	10	0.170	1.152	0.238	0.302	0.189	28.2	28.2	28.2	28.2						
Hotspot	NR Band n14	10	QPSK	E	0531M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.68	50	0	Right	10	10	0.184	1.115	0.255	0.304	0.202	27.9	27.9	27.9	27.9						
ANSI/IEEE C63.1992 - SAFETY LIMIT																			Body														
Uncontrolled Exposure/General Population																			1.6 W/kg (mW/g) averaged over 1 g mass														



Table 12-70 | Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Right Cheek	0	0.579	1.390	0.796	1.033	0.632		22.0		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Right Cheek	0	0.627	1.409	0.883	1.121	0.705		22.5		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	20.50	1	53	Right Cheek	0	0.538	1.413	0.760	0.965	0.603		23.1		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Right Tilt	0	0.663	1.390	0.630	0.800	0.500		24.0		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Right Tilt	0	0.485	1.409	0.685	0.867	0.542		23.6		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Left Cheek	0	0.702	1.390	0.976	1.260	0.775		23.1		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Left Cheek	0	0.705	1.409	0.993	1.261	0.789	Plot	22.0		21.0
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	22.0	20.56	200	0	Left Cheek	0	0.760	1.413	0.989	1.256	0.765		22.0		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	CP-OFDM	0.0	22.0	20.49	1	1	Left Cheek	0	0.686	1.405	0.943	1.158	0.748		22.2		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Left Tilt	0	0.646	1.390	0.898	1.140	0.732		22.4		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Left Tilt	0	0.668	1.409	0.941	1.195	0.747		22.2		
Head	NR Band n26	20	QPSK	E	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.50	100	0	Left Tilt	0	0.665	1.413	0.940	1.194	0.747		22.2		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak																		1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure/General Population																										

Table 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	23.87	1	104	Back	5	137	0.570	1.297	0.739	0.889	0.556		26.3		
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.92	50	28	Back	5	137	0.611	1.282	0.810	0.975	0.609		25.3		
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	1.0	24.0	22.82	100	0	Back	5	137	0.502	1.332	0.659	0.897	0.623		25.8		
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.03	831.50	166300	CP-OFDM	1.5	23.5	22.45	1	1	Back	5	137	0.653	1.274	0.462	0.785	0.491	Plot	26.8		
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	23.87	1	104	Front	5	137	0.287	1.297	0.372	0.448	0.385		29.1		
Body worn/Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.92	50	28	Front	5	137	0.527	1.282	0.413	0.497	0.311		28.8		25.8
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.87	1	104	Bottom	10	137	0.659	1.297	0.056	0.044	0.028		39.3		
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	25.0	23.92	50	28	Bottom	10	137	0.605	1.282	0.032	0.030	0.024		39.9		
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.87	1	104	Right	10	137	0.563	1.297	0.056	0.067	0.042		37.5		
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	23.92	50	28	Right	10	137	0.609	1.282	0.063	0.076	0.048		37.0		
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	23.87	1	104	Left	10	137	0.568	1.297	0.075	0.080	0.056		36.2		
Hotspot	NR Band n26	20	QPSK	A	0513M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.92	50	28	Left	10	137	0.588	1.282	0.074	0.080	0.056		36.2		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak																		1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																											

Table 12-72 | Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Back	5	0.586	1.390	0.815	1.035	0.646		22.6		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Back	5	0.606	1.409	0.854	1.085	0.678		22.6		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.56	200	0	Back	5	0.569	1.413	0.864	1.224	0.766	Plot	22.2		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	CP-OFDM	0.0	22.0	20.49	1	1	Back	5	0.552	1.416	0.782	0.993	0.621		23.0		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.11	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Front	5	0.421	1.390	0.585	0.743	0.465		24.3		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Front	5	0.648	1.409	0.640	0.833	0.528		24.3		
Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Top	10	0.583	1.390	0.268	0.340	0.213		27.7		
Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Top	10	0.513	1.409	0.297	0.377	0.236		27.2		
Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	20.57	1	53	Right	10	0.479	1.390	0.318	0.404	0.253		26.5		
Hotspot	NR Band n26	20	QPSK	E	0513M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.53	50	28	Right	10	0.512	1.409	0.299	0.380	0.237		27.2		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Body								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

12.21 NR Band n70 Standalone SAR

Table 12-73

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RF Pinch [dBm]		
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.13	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.58	1	77	Right Cheek	0	99	0.138	1.236	0.171	0.315	0.136		32.1				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.14	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	36	22	Right Cheek	0	99	0.158	1.231	0.191	0.241	0.151		31.8				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.09	1702.50	340500	CP-OFDM	1.5	23.0	22.09	1	1	Right Cheek	0	99	0.107	1.233	0.132	0.235	0.147	Plot	31.7				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.09	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.58	1	77	Right Tilt	0	99	0.098	1.236	0.022	0.028	0.018		41.0				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	36	22	Right Tilt	0	99	0.024	1.231	0.017	0.021	0.013		42.2	31.6	25.5		
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.09	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.58	1	77	Left Cheek	0	99	0.088	1.236	0.084	0.106	0.069		35.2				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	36	22	Left Cheek	0	99	0.006	1.231	0.001	0.001	0.001		35.4				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.15	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.58	1	77	Left Tilt	0	99	0.052	1.236	0.064	0.081	0.051		36.4				
Head	NR Band n70	15	QPSK	A	0735M	1:1	-0.14	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	36	22	Left Tilt	0	99	0.024	1.231	0.000	0.133	0.071		34.9				
ANSI/IEEE C63.1902 - SAFETY LIMIT																				Head									
Spatial Peak																				1.6 W/kg (mW/g)									
Uncontrolled Exposure: General Population																				reported over 1 g mass									



Table 12-75 | Plot A43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.04	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.68	1	77	Back	5	99	0.781	1.236	0.965	1.226	0.766	Plot	18.6		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	0.06	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.61	36	48	Back	5	99	0.740	1.227	0.945	1.205	0.751		18.7		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.02	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.66	75	0	Back	5	99	0.776	1.242	0.964	1.204	0.766		18.6		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	0.00	1702.50	345000	CP-OFDM	0.0	18.5	17.68	1	1	Back	5	99	0.715	1.208	0.864	1.097	0.886		19.1		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.03	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.58	1	77	Front	5	99	0.696	1.236	0.960	1.093	0.886		19.1		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.02	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.61	36	45	Front	5	99	0.695	1.227	0.853	1.083	0.877		19.1		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.56	75	0	Front	5	99	0.688	1.242	0.867	1.103	0.886		19.1		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.00	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.58	1	77	Bottom	10	99	0.689	1.236	0.852	1.082	0.877		19.1		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	0.00	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.61	36	43	Bottom	10	99	0.669	1.227	0.821	1.043	0.852		19.1		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	0.04	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.58	75	0	Bottom	10	99	0.669	1.242	0.830	1.041	0.852		19.1		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	0.04	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.58	1	77	Right	10	99	0.643	1.236	0.953	0.967	0.942		19.2		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.02	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.61	36	43	Right	10	99	0.645	1.227	0.955	0.970	0.943		19.0		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.58	1	77	Left	10	99	0.660	1.236	0.949	0.962	0.939		19.1		
Hotspot	NR Band n70	15	QPSK	A	0735M	1:1	-0.16	1702.50	345000	DFT-s-OFDM	0.0	18.5	17.61	36	43	Left	10	99	0.637	1.227	0.945	0.957	0.936		19.1		
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																				Spatial Peak		1.6 W/kg (mW/g)		averaged over 1 gram			
Uncontrolled Exposure/General Population																											

Table 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.11	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.25	1	40	Back	5	99	0.604	1.496	0.904	1.148	0.718		21.4		
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	0.02	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.24	36	22	Back	5	99	0.602	1.500	0.915	1.162	0.726		21.4		
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	0.02	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.23	75	0	Back	5	99	0.617	1.503	0.927	1.177	0.735		21.3		
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.01	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.25	1	1	Back	5	99	0.602	1.499	0.914	1.153	0.723		21.4		
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.03	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.25	1	40	Front	5	99	0.594	1.496	0.899	1.148	0.687		21.3		
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.03	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.24	36	22	Front	5	99	0.603	1.500	0.902	0.765	0.718		21.3		
Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	0.02	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.25	1	40	Top	10	99	0.487	1.496	0.744	0.945	0.593		22.1		
Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	0.00	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.24	36	22	Top	10	99	0.480	1.500	0.728	0.925	0.578		22.2		
Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.05	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.25	1	40	Left	10	99	0.083	1.496	0.121	0.154	0.097		30.0		
Hotspot	NR Band n70	15	QPSK	F	0735M	1:1	-0.06	1702.50	345000	DFT-s-OFDM	0.0	21.0	19.24	36	22	Left	10	99	0.083	1.500	0.125	0.159	0.099		30.1		
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																				Spatial Peak		1.6 W/kg (mW/g)		averaged over 1 gram			
Uncontrolled Exposure/General Population																											

12.22 NR Band n66 Standalone SAR

Table 12-77

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	1	121	Right Cheek	0	108	0.361	1.135	0.183	0.225	0.144		31.8		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	120	0	Back	5	99	0.360	1.135	0.183	0.225	0.144		31.8		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.11	1745.00	349000	CP-OFDM	1.5	23.0	22.50	1	1	Right Cheek	0	108	0.320	1.153	0.138	0.240	0.150		31.4		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	1	121	Right Tib	0	108	0.300	1.135	0.011	0.014	0.009		43.9		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	120	0	Right Tib	0	108	0.300	1.135	0.189	0.223	0.144		31.8		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	1	121	Left Cheek	0	108	0.360	1.135	0.068	0.084	0.053		36.1		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	120	0	Left Cheek	0	108	0.360	1.135	0.068	0.084	0.053		36.1		
Head	NR Band n66	45	QPSK	A	0735M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	1	121	Left Tib	0	108	0.300	1.135	0.086	0.106	0.065		35.1		
Head	NR Band n66	45	QPSK	A	0735M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.95	120	0	Left Tib	0	108	0.300	1.135	0.086	0.106	0.065		35.1		
ANSI/IEEE C63.1.1-1992 - SAFETY LIMIT																				Spatial Peak		1.6 W/kg (mW/g)		averaged over 1 gram			
Uncontrolled Exposure/General Population																											

Table 12-78 | Plot A44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimb [dBm]	Overall Plimb [dBm]	EFS Plimb [dBm]
Head	NR Band n66	45	QPSK	F	0735M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	1	121	Right Cheek	0	0.561	1.324	0.743	0.944	0.189		20.2		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	120	122	Right Cheek	0	0.560	1.324	0.741	0.941	0.188		20.2		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	1	121	Right Tib	0	0.563	1.324	0.878	1.115	0.097	Plot	19.5		
Head	NR Band n66	45	QPSK	F	0735M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	120	122	Right Tib	0	0.560	1.324	0.871	1.106	0.091		19.5		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.77	240	0	Right Tib	0	0.611	1.327	0.864	1.097	0.086		19.3		
Head	NR Band n66	45	QPSK	F	0735M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	19.0	17.48	1	1	Right Tib	0	0.545	1.419	0.915	1.162	0.726		19.3		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	1	121	Left Cheek	0	0.560	1.324	0.845	0.965	0.351		22.1		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	120	122	Left Cheek	0	0.560	1.324	0.843	0.963	0.351		22.1		
Head	NR Band n66	45	QPSK	F	0735M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	1	121	Left Tib	0	0.536	1.324	0.567	0.720	0.410		21.4		
Head	NR Band n66	45	QPSK	F	0735M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	19.0	17.78	120	122	Left Tib	0	0.486	1.324	0.577	0.723	0.458		21.3		
ANSI/IEEE C63.1992 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
1.6 W/kg (mW/g) averaged over 1 gram																										



Table 12-80

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1int [dBm]	Overall P1int [dBm]	EFS P1int [dBm]
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.76	1	121	Back	5	0.668	1.330	0.888	1.128	0.705		21.5		
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.77	120	0	Back	5	0.650	1.327	0.856	1.062	0.664		21.7		
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.75	280	0	Back	5	0.642	1.324	0.865	1.087	0.679		21.6		
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	0.05	1745.00	349000	CP-OFDM	0.0	21.0	19.50	1	1	Back	5	0.624	1.313	0.882	1.120	0.700		21.5		
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.76	1	121	Front	5	0.628	1.290	0.936	0.906	0.642		22.5		
Body worn/Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.77	120	0	Front	5	0.603	1.327	0.935	0.879	0.624		23.1		
Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	0.14	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.76	1	121	Top	10	0.450	1.330	0.599	0.761	0.475		23.2		
Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.77	120	0	Top	10	0.449	1.327	0.594	0.754	0.474		23.2		
Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.76	1	121	Left	10	0.604	1.330	0.059	0.075	0.047		33.1		
Hotspot	NR Band n25	45	QPSK	F	0735M	1:1	-0.12	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.77	120	0	Left	10	0.605	1.327	0.073	0.089	0.058		32.3		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.23 NR Band n25 Standalone SAR

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1int [dBm]	Overall P1int [dBm]	EFS P1int [dBm]
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.08	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.40	1	1	Right Cheek	0	99	0.119	1.288	0.153	0.198	0.124		32.8		
Head	NR Band n25	40	QPSK	A	0735M	1:1	0.02	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.31	108	54	Right Cheek	0	99	0.114	1.315	0.150	0.193	0.121		32.7		
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	CP-OFDM	0.0	24.5	23.40	1	1	Right Cheek	0	99	0.119	1.288	0.153	0.198	0.124		32.8		
Head	NR Band n25	40	QPSK	A	0735M	1:1	0.01	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.40	1	1	Right Tilt	0	99	0.095	1.288	0.006	0.008	0.005		46.1		
Head	NR Band n25	40	QPSK	A	0735M	1:1	0.03	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.31	108	54	Right Tilt	0	99	0.095	1.315	0.007	0.008	0.005		46.1		
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.02	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.40	1	1	Left Cheek	0	99	0.097	1.288	0.073	0.075	0.059		35.8	31.7	25.6
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.31	108	54	Left Cheek	0	99	0.097	1.315	0.088	0.113	0.071		35.0		
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.10	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.40	1	1	Left Tilt	0	99	0.098	1.288	0.063	0.081	0.051		36.4		
Head	NR Band n25	40	QPSK	A	0735M	1:1	-0.07	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.31	108	54	Left Tilt	0	99	0.095	1.315	0.076	0.088	0.061		35.6		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																				Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-82 | Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1int [dBm]	Overall P1int [dBm]	EFS P1int [dBm]
Head	NR Band n25	40	QPSK	F	0735M	1:1	0.02	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.65	1	108	Right Cheek	0	0.125	1.365	0.717	0.911	0.589		20.4		
Head	NR Band n25	40	QPSK	F	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.73	108	0	Right Cheek	0	0.125	1.340	0.717	0.911	0.589		20.4		
Head	NR Band n25	40	QPSK	F	0735M	1:1	0.18	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.65	1	108	Right Tilt	0	99	0.095	1.365	0.826	1.049	0.655		19.8	
Head	NR Band n25	40	QPSK	F	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.73	108	0	Right Tilt	0	99	0.098	1.340	0.828	1.052	0.658		19.8	
Head	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.66	1	108	Right Tilt	0	99	0.098	1.365	0.845	1.074	0.672		19.7	
Head	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	CP-OFDM	0.0	19.0	17.82	1	1	Right Tilt	0	99	0.047	1.312	0.849	1.076	0.674	Plot	15.7	18.0
Head	NR Band n25	40	QPSK	F	0735M	1:1	-0.08	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.65	1	108	Left Cheek	0	99	0.118	1.365	0.434	0.551	0.344		22.6	
Head	NR Band n25	40	QPSK	F	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.73	108	0	Left Cheek	0	99	0.123	1.340	0.433	0.550	0.344		22.6	
Head	NR Band n25	40	QPSK	F	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.65	1	108	Left Tilt	0	99	0.423	1.365	0.577	0.733	0.458		21.3	
Head	NR Band n25	40	QPSK	F	0735M	1:1	0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.73	108	0	Left Tilt	0	99	0.416	1.340	0.557	0.707	0.442		21.3	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1int [dBm]	Overall P1int [dBm]	EFS P1int [dBm]
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.84	1	1	Back	5	99	0.187	1.038	0.609	0.773	0.484		20.1		
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.79	108	0	Back	5	99	0.190	1.050	0.620	0.787	0.493		20.0		
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.84	1	1	Front	5	99	0.176	1.038	0.588	0.759	0.475		20.0		
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	0.09	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.79	108	0	Front	5	99	0.196	1.050	0.626	0.795	0.497		20.0		
Body-worn/Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.06	1882.50	376000	CP-OFDM	0.0	18.0	17.86	1	1	Front	5	99	0.175	1.059	0.578	0.734	0.458		20.0		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.00	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.84	1	1	Bottom	10	99	0.335	1.038	0.445	0.602	0.431		20.6		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.79	108	0	Bottom	10	99	0.347	1.050	0.495	0.746	0.472		20.2		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.84	1	1	Right	10	99	0.091	1.038	0.036	0.048	0.029		32.3		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	0.08	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.79	108	0	Right	10	99	0.096	1.050	0.038	0.048	0.030		32.2		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.84	1	1	Left	10	99	0.042	1.038	0.013	0.043	0.027		32.7		
Hotspot	NR Band n25	40	QPSK	A	0735M	1:1	-0.02	1882.50	376000	DFT-s-OFDM	0.0	18.0	17.79	108	0	Left	10	99	0.042	1.050	0.034	0.043	0.027		32.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

Table 12-84 | Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1int [dBm]	Overall P1int [dBm]	EFS P1int [dBm]
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	1	1	Back	5	0.162	1.371	0.757	0.961	0.605		22.2		
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	-0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.73	508	0	Back	5	0.155	1.340	0.744	0.945	0.595	22.2			
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	1	1	Front	5	0.162	1.371	0.775	0.984	0.610		22.2		
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	CP-OFDM	0.0	21.0	19.82	1	1	Back	5	0.060	1.312	0.787	0.999	0.626	Pct1	22.0		
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	-0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	1	1	Front	5	0.155	1.372	0.744	0.945	0.595		22.0		
Body worn/Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.13	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.73	508	0	Front	1	0.158	1.340	0.480	0.630	0.381	24.1	22.0	20.0	
Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.02	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	1	1	Top	10	0.446	1.371	0.611	0.776	0.485				
Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	508	0	Front	10	0.440	1.340	0.600	0.770	0.480				
Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	-0.40	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.63	1	1	Left	10	0.075	1.372	0.103	0.131	0.081				
Hotspot	NR Band n25	40	QPSK	F	0735M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	21.0	19.73	508	0	Left	10	0.081	1.340	0.109	0.138	0.086				
ANSI C63.1992 - SAFETY LIMIT																										
Spot Power												Body														
Uncontrolled Exposure/General Population												1.6 W/kg averaged over 1 gram														



12.24 NR Band n30 Standalone SAR

Table 12-85

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n30	10	CPSK	A	0537M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.47	1	26	Right Cheek	0	0.030	1.422	0.028	0.197	0.123		38.4		
Head	NR Band n30	10	CPSK	A	0538M	1:1	0.09	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.43	25	14	Right Cheek	0	0.005	1.435	0.007	0.050	0.031		44.4		
Head	NR Band n30	10	CPSK	A	0539M	1:1	0.05	2310.00	462000	CP-OFDM	1.5	21.5	19.88	1	1	Right Cheek	0	0.003	1.452	0.004	0.043	0.027		45.1		
Head	NR Band n30	10	CPSK	A	0539M	1:1	-0.18	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.47	1	26	Right Tilt	0	0.006	1.422	0.009	0.059	0.037		43.0		
Head	NR Band n30	10	CPSK	A	0539M	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.43	25	14	Right Tilt	0	0.005	1.435	0.001	0.010	0.006		51.4		
Head	NR Band n30	10	CPSK	A	0539M	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.47	1	26	Left Cheek	0	0.007	1.422	0.010	0.069	0.043		43.0	38.4	
Head	NR Band n30	10	CPSK	A	0539M	1:1	-0.11	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.48	25	14	Left Cheek	0	0.004	1.430	0.006	0.060	0.025		45.4		
Head	NR Band n30	10	CPSK	A	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.47	1	26	Left Tilt	0	0.007	1.422	0.010	0.069	0.043		43.0		
Head	NR Band n30	10	CPSK	A	0539M	1:1	0.20	2310.00	462000	DFT-s-OFDM	0.0	23.0	21.43	25	14	Left Tilt	0	0.006	1.435	0.009	0.060	0.038		43.0		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT Spatial Peak																		Head								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-86 | Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n30	10	QPSK	F	0510M	1:1	-0.13	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.83	1	26	Right Cheek	0	0.642	1.309	0.840	1.067	0.667		18.7		
Head	NR Band n30	10	QPSK	F	0510M	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.90	25	0	Right Cheek	0	0.726	1.288	0.933	1.184	0.740		18.1		
Head	NR Band n30	10	QPSK	F	0510M	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.82	10	0	Right Cheek	0	0.736	1.312	0.966	1.226	0.766	Plot	18.1		
Head	NR Band n30	10	QPSK	F	0510M	1:1	-0.02	2310.00	462000	CP-OFDM	0.0	18.0	16.97	1	26	Right Cheek	0	0.642	1.309	0.840	1.067	0.667		18.7		
Head	NR Band n30	10	QPSK	F	0510M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.83	1	26	Right Tilt	0	0.708	1.300	0.928	1.179	0.737		18.3		
Head	NR Band n30	10	QPSK	F	0510M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.90	25	0	Right Tilt	0	0.688	1.288	0.860	1.093	0.683		18.2		
Head	NR Band n30	10	QPSK	F	0510M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.83	1	26	Bottom	10	0.644	1.309	0.840	1.067	0.667		18.7	18.1	17.0
Head	NR Band n30	10	QPSK	F	0537M	1:1	0.11	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.83	1	26	Left Cheek	0	0.469	1.309	0.601	0.763	0.477		20.6		
Head	NR Band n30	10	QPSK	F	0537M	1:1	-0.12	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.90	25	0	Left Cheek	0	0.449	1.288	0.578	0.734	0.459		20.3		
Head	NR Band n30	10	QPSK	F	0537M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.83	1	26	Left Tilt	0	0.549	1.309	0.725	0.951	0.576		19.3		
Head	NR Band n30	10	QPSK	F	0537M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	18.0	16.90	25	0	Left Tilt	0	0.543	1.288	0.699	0.888	0.555		19.5		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT Spatial Peak																		Head								
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-87 | Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	1	26	Back	5	0.451	1.422	0.641	0.814	0.509		21.9		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.51	25	77	Back	5	0.462	1.409	0.651	0.827	0.517		21.8		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	1	26	Front	5	0.444	1.422	0.673	0.809	0.493		20.5		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.51	25	27	Front	5	0.438	1.409	0.641	0.814	0.491		20.6		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	10	0	Front	5	0.614	1.439	0.888	1.128	0.705	20.5			
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.00	2310.00	462000	CP-OFDM	0.0	20.0	18.47	10	0	Front	5	0.629	1.429	0.888	1.128	0.705	20.5			
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	1	26	Bottom	10	0.464	1.422	0.702	0.892	0.568	Plot	21.3	20.5	19.0
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.51	25	27	Bottom	10	0.505	1.409	0.706	0.897	0.540	21.5			
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	1	26	Right	10	0.504	1.422	0.606	0.808	0.505		42.4		
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.51	25	77	Right	10	0.495	1.409	0.607	0.809	0.505		41.6		
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	-0.21	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.47	1	26	Left	10	0.409	1.422	0.041	0.052	0.033		33.8		
Hotspot	NR Band n30	10	QPSK	A	0539M	1:1	-0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.51	25	27	Left	10	0.035	1.409	0.044	0.056	0.036		33.5		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-88

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0510M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.81	1	26	Back	5	0.405	1.315	0.801	1.017	0.516		20.5		
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0510M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.85	25	14	Back	5	0.506	1.291	0.718	0.912	0.570		21.4		
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.80	50	0	Back	5	0.430	1.318	0.804	1.021	0.539		20.9		
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	0.01	2310.00	462000	CP-OFDM	0.0	20.0	18.79	1	1	Back	5	0.460	1.321	0.804	1.021	0.539		20.9		
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.81	1	26	Front	5	0.468	1.315	0.655	0.832	0.519		21.0		
Body-worn/Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.89	25	14	Front	5	0.500	1.291	0.666	0.820	0.513		21.5		
Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.61	1	26	Top	10	0.410	1.315	0.551	0.700	0.437		22.5		
Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.89	25	14	Top	10	0.410	1.291	0.541	0.687	0.429		22.6		
Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.81	1	26	Left	10	0.055	1.315	0.072	0.091	0.027		31.4		
Hotspot	NR Band n30	10	CPSK	F	0539M	1:1	-0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	18.89	25	14	Left	10	0.066	1.295	0.072	0.091	0.027		31.4		
ANR/NER CCS-1102 - SAFETY LIMIT																										
Uncontrolled Exposure/General Population												Spatial Peak 1.6 W/kg (mW/g) averaged over 1g of mass														

Table 12-90 | Plot A50

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DBr (dB)	Frequency (MHz)	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured Iq (µg)	Power Scaling Factor	Reported Iq (µg)	Adjusted Iq (µg)	Exposure Rate (Iq SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	RF5 Plimit (dBm)
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.15	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.77	1	1	Right Cheek	0	0.631	1.183	0.746	0.948	0.593		18.7		
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.01	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.83	250	0	Right Cheek	0	0.599	1.183	0.685	0.870	0.544		19.3		
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.02	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.63	270	0	Right Cheek	0	0.590	1.222	0.721	0.916	0.573		18.8		
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.05	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.77	1	1	Right Tilt	0	0.788	1.183	0.952	1.184	0.740		17.8		
Head	NB Band #0	50	QPSK	F	0336M	1:1	-0.01	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.83	135	0	Right Tilt	0	0.525	1.183	0.871	1.106	0.691		18.4		
Head	NB Band #0	50	QPSK	F	0336M	1:1	-0.05	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.83	270	0	Right Tilt	0	0.735	1.222	0.898	1.141	0.713		17.9	17.5	
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.05	2335.00	507000	CF-OFDM	0.0	17.5	16.84	1	1	Neck Tilt	0	0.853	1.219	0.995	1.262	0.789	Post	17.5		
Head	NB Band #0	50	QPSK	F	0336M	1:1	-0.11	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.77	0.415	0	Left Cheek	0	0.525	1.183	0.871	1.106	0.691		18.4		
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.01	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.83	135	0	Left Cheek	0	0.587	1.143	0.328	0.417	0.261		21.3		
Head	NB Band #0	50	QPSK	F	0336M	1:1	0.01	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.77	135	0	Left Tilt	0	0.587	1.183	0.434	0.544	0.344		22.1		
Head	NB Band #0	50	QPSK	F	0336M	1:1	-0.01	2335.00	507000	DTF+Q-OFDM	0.0	17.5	16.82	135	0	Left Tilt	0	0.392	1.143	0.462	0.511	0.319		21.4		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head		Spot/ Peak						
Uncontrolled Exposure/General Population																		1.6 W/kg (µW/g)		averaged over 1 gram						

Table 12-91 | Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfM [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured E1 SAR [W/kg]	Power Scaling Factor	Reported E1 SAR [W/kg]	Adjusted E1 SAR [W/kg]	Exposure Rate [μg SAR]	P1#	P1int [dBm]	Overall P1int [dBm]	RFSPint [dBm]
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.04	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.12	1	1	Back	5	0.728	1.225	0.892	1.133	0.788			19.4	
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.17	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.13	135	0	Back	5	0.814	1.222	0.995	1.263	0.709			18.0	
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.13	135	0	Front	5	0.804	1.222	1.071	1.301	0.913	Ph1		18.0	
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.04	2535.00	507000	CP-OFDM	0.0	19.0	18.37	1	1	Back	5	0.743	1.156	0.857	1.088	0.680			18.0	
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	0.05	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.12	1	1	Front	5	0.945	1.225	0.545	0.892	0.433			21.6	
Body-worn/Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.13	135	0	Front	5	0.878	1.222	0.862	0.795	0.747			21.6	
Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.12	1	1	Bottom	10	0.282	1.225	0.345	0.459	0.274			23.6	
Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.13	135	0	Bottom	10	0.322	1.225	0.385	0.516	0.316			23.6	
Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.13	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.12	1	1	Right	10	0.189	1.225	0.232	0.294	0.184			25.3	
Hotspot	NR Band n7	50	QPSK	B	CS16A1	1.1	-0.08	2535.00	507000	DFT-s-OFDM	0.0	19.0	18.13	135	0	Right	10	0.225	1.222	0.263	0.304	0.209			24.8	
ANALYZE CH1 DfM1 - SAR1 Limit																					Body					
Uncontrolled Exposure/General Population																					E1 W/kg (mW/kg)					
																					Lower Limb (mW/kg)					

Table 12-92

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB [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 Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Rate [g SAR]	Pot #	Pfimt [dFm]	Overall Pfimt [dFm]	RFs Pfimt [dFm]
Body-worn/hotspot	NB Band #7	50	QPSK	F	0535M	1:1	-0.07	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.26	1	1	Back	5	0.647	1.186	0.737	0.905	0.584	21.1			
Body-worn/hotspot	NB Band #7	50	QPSK	F	0535M	1:1	-0.02	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.30	135	0	Front	5	0.647	1.175	0.760	0.905	0.584	21.2			
Body-worn/hotspot	NB Band #7	50	QPSK	F	0535M	1:1	-0.08	2535.00	507000	CP-OFDM	0.0	20.0	19.53	1	1	Back	5	0.663	1.114	0.739	0.938	0.586	21.3			
Body-worn/hotspot	NB Band #7	50	QPSK	F	0535M	1:1	-0.07	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.26	1	1	Front	5	0.645	1.186	0.699	0.905	0.484	21.5			
Body-worn/hotspot	NB Band #7	50	QPSK	F	0535M	1:1	-0.05	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.30	135	0	Front	5	0.646	1.175	0.523	0.964	0.415	22.8		21.1	19.0
Hotspot	NB Band #7	50	QPSK	F	0563M	1:1	-0.08	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.26	1	1	Top	10	0.387	1.195	0.458	0.951	0.363	23.3			
Hotspot	NB Band #7	50	QPSK	F	0563M	1:1	-0.07	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.30	135	0	Left	10	0.389	1.175	0.437	0.947	0.347	23.5			
Hotspot	NB Band #7	50	QPSK	F	0535M	1:1	0.04	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.26	1	1	Left	10	0.987	1.186	0.044	0.056	0.035	33.5			
Hotspot	NB Band #7	50	QPSK	F	0535M	1:1	0.03	2535.00	507000	DFT-t-OFDM	0.0	20.0	19.30	135	0	Left	10	0.089	1.175	0.039	0.049	0.033	34.1			
ANSI/IEEE C61.158-1 SAFETY LIMIT																			Body							
Spatial Peak																			1.6 W/kg (mW/g)							
Unmodulated CW/Spread Modulation																			Unmodulated CW/Spread Modulation							

12.26 NR Band n41 Standalone SAR

Table 12-93 | Plot A52

ANSI/IEEE C63.1-1992 - SAFETY LIMIT																											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured SAR [W/kg]	Power Scaling Factor	Reported SAR [W/kg]	Adjusted SAR [W/kg]	Exposure Ratio [μSAR]	Plot #	Plimit [dBm]	EP5 Plimit [dBm]	
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.03	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	1	271	Right Cheek	0	0.690	1.230	0.849	1.078	0.674		17.7	17.0	16.0
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.16	135	138	Right Cheek	0	0.646	1.230	0.784	0.976	0.622		18.0		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	120	0	Right Cheek	0	0.690	1.230	0.849	1.078	0.674		18.1		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	0.02	2592.99	518098	OFDM + OFDM	0.0	17.0	16.16	1	271	Right Tilt	0	0.766	1.230	0.979	1.243	0.777	Plot #	17.9		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	135	138	Right Tilt	0	0.738	1.230	0.895	1.137	0.739		17.4		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	120	0	Right Tilt	0	0.679	1.230	0.835	1.060	0.683		17.7		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	0.00	2592.99	518098	OFDM + OFDM	0.0	17.0	15.95	1	1	Right Tilt	0	0.626	1.224	0.788	1.013	0.634		17.9		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	15.95	135	138	Right Cheek	0	0.678	1.224	0.840	1.065	0.684		17.7		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	0.00	2592.99	518098	OFDM + OFDM	0.0	17.0	16.16	135	138	Left Cheek	0	0.626	1.224	0.788	1.013	0.634		17.9		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	1	271	Left Tilt	0	0.678	1.224	0.840	1.065	0.684		17.7		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	0.00	2592.99	518098	OFDM + OFDM	0.0	17.0	16.16	135	138	Left Cheek	0	0.626	1.224	0.788	1.013	0.634		17.9		
Head	NR Band n41	100	QPSK	F	1	0510M4	1:1	-0.01	2592.99	518098	OFDM + OFDM	0.0	17.0	16.35	1	271	Left Tilt	0	0.678	1.224	0.840	1.065	0.684		17.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Spatial Peak							
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g) averaged over 1 gram							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured SAR [W/kg]	Power Scaling Factor	Reported SAR [W/kg]	Adjusted SAR [W/kg]	Exposure Ratio [μSAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EP5 Plimit [dBm]				
Head	NR Band n41	100	F	2	0510M4	1:1	0.09	2592.99	518098	CW/SRS	17.0	16.11	Right Tilt	0	0.789	1.227	0.968	1.229	0.768		17.1	17.1	16.0				
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Spatial Peak							
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-94

TABLE 12-04																												
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.05	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	1	273	Right Cheek	0	0.056	1.194	0.019	0.024	0.025		39.2			
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.06	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	135	138	Right Cheek	0	0.055	1.194	0.018	0.023	0.024		39.4			
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	0.12	2592.99	518988	CP-OFDM	0.0	22.0	21.06	1	1	Right Cheek	0	0.053	1.259	0.029	0.037	0.023		37.8			
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.11	2592.99	518988	DFT+CP-OFDM	0.0	22.0	22.0	22.0	1	273	Right Tilt	0	0.050	1.189	0.012	0.025	0.009		41.2		
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.14	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	135	138	Right Tilt	0	0.052	1.194	0.014	0.026	0.011		40.1	37.3	21.0	
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	0.14	2592.99	518988	DFT+CP-OFDM	0.0	22.0	22.0	22.0	1	273	Left Cheek	0	0.056	1.189	0.019	0.024	0.025		39.2		
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.05	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	135	138	Left Cheek	0	0.054	1.194	0.014	0.023	0.024		41.4			
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.03	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	1	273	Left Tilt	0	0.055	1.189	0.006	0.005	0.005		41.6			
Head	NR Band n41	100	QPSK	8	2	0510M4	1:1	-0.16	2592.99	518988	DFT+CP-OFDM	0.0	22.0	21.23	135	138	Left Tilt	0	0.009	1.194	0.011	0.014	0.009		41.6			
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]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]					
Head	NR Band n41	100	B	1	0510M1	1:1	-0.13	2592.99	518988	CW/SRS	22.0	21.23	Right Cheek	0	0.026		1.194	0.031	0.039	0.024		37.0	37.0	21.0				
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																												
Spatial Peak																												
Uncontrolled Exposure/General Population																												
1.6 W/kg (mW/g)																												

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 137 of 171

REV 22.0
03/30/2022

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Table 12-95

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Head	NR Band n41	100	E	1	0510M	1:1	-0.01	2592.99	518598	CW/SRS	15.5	14.75	Right Cheek	0	0.159	1.189	0.189	0.240	0.150		22.7		
Head	NR Band n41	100	E	1	0510M	1:1	0.02	2592.99	518598	CW/SRS	15.5	14.75	Right Tilt	0	0.152	1.189	0.181	0.230	0.144		22.9		
Head	NR Band n41	100	E	1	0510M	1:1	0.04	2592.99	518598	CW/SRS	15.5	14.75	Left Cheek	0	0.443	1.189	0.527	0.669	0.418		18.2		14.5
Head	NR Band n41	100	E	1	0510M	1:1	-0.02	2592.99	518598	CW/SRS	15.5	14.75	Left Tilt	0	0.358	1.189	0.426	0.541	0.338		19.2		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Head	NR Band n41	100	E	2	0510M	1:1	0.08	2592.99	518598	CW/SRS	15.5	14.89	Left Cheek	0	0.428	1.151	0.493	0.626	0.391		18.5	18.5	14.5
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-96

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Head	NR Band n41	100	D	1	0510M	1:1	0.02	2592.99	518598	CW/SRS	15.5	14.71	Right Cheek	0	0.000	1.199	0.000	0.000	0.000		54.7		
Head	NR Band n41	100	D	1	0510M	1:1	0.09	2592.99	518598	CW/SRS	15.5	14.71	Right Tilt	0	0.000	1.199	0.000	0.000	0.000		54.7		
Head	NR Band n41	100	D	1	0510M	1:1	0.01	2592.99	518598	CW/SRS	15.5	14.71	Left Cheek	0	0.000	1.199	0.000	0.000	0.000		54.7		
Head	NR Band n41	100	D	1	0510M	1:1	0.03	2592.99	518598	CW/SRS	15.5	14.71	Left Tilt	0	0.000	1.199	0.000	0.000	0.000		54.7		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Head	NR Band n41	100	D	2	0510M	1:1	0.05	2592.99	518598	CW/SRS	15.5	14.64	Right Tilt	0	0.000	1.219	0.000	0.000	0.000		54.6	54.6	14.5
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-97

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	19.1	18.62	1	271	Back	5	0.866	1.225	1.001	1.347	0.842		19.2		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.09	2592.99	518598	DTF+OFDM	0.0	19.1	18.65	135	138	Back	5	0.893	1.216	1.001	1.271	0.796		19.1		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	19.1	18.40	270	0	Back	5	0.723	1.227	0.898	1.141	0.713		19.9		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.03	2592.99	518598	OF-OFDM	0.0	19.1	18.43	1	1	Back	5	0.897	1.237	0.950	1.024	0.440		20.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.01	2592.99	518598	DTF+OFDM	0.0	19.1	18.62	1	271	Front	5	0.543	1.225	0.565	0.845	0.528		21.2		18.5
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.07	2592.99	518598	DTF+OFDM	0.0	19.1	18.65	135	138	Front	5	0.520	1.216	0.620	0.789	0.493		21.5		
Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.09	2592.99	518598	DTF+OFDM	0.0	19.1	18.62	1	271	Top	10	0.894	1.225	0.483	0.653	0.383		22.6		
Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.02	2592.99	518598	DTF+OFDM	0.0	19.1	18.65	135	138	Top	10	0.899	1.216	0.473	0.601	0.376		22.7		
Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.02	2592.99	518598	DTF+OFDM	0.0	19.1	18.62	135	271	Left	10	0.895	1.225	0.656	0.672	0.045		31.9		
Hotspot	NR Band n41	100	QPSK	F	1	0510M	1:1	0.02	2592.99	518598	DTF+OFDM	0.0	19.1	18.65	135	138	Left	10	0.898	1.216	0.699	0.680	0.031		31.1		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]				
Body-worn/Hotspot	NR Band n41	100	F	2	0510M	1:1	0.08	2592.99	518598	CW/SRS	19.5	18.95	Back	5	0.932	1.135	1.058	1.343	0.839		19.2	19.2	18.5				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 12-98 | Plot A53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	18.0	17.47	1	271	Back	5	0.706	1.130	0.493	1.134	0.709		18.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.05	2592.99	518598	DTF+OFDM	0.0	18.0	17.37	135	138	Back	5	0.714	1.156	0.895	1.136	0.710		18.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.05	2592.99	518598	DTF+OFDM	0.0	18.0	17.36	270	0	Back	5	0.722	1.159	0.895	1.136	0.710		18.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.02	2592.99	518598	OF-OFDM	0.0	18.0	17.41	1	1	Back	5	0.869	1.151	1.130	1.435	0.897	Plot 17	17.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.06	2592.99	518598	OF-OFDM	0.0	18.0	17.38	1	1	Back	5	0.671	1.191	0.997	1.166	0.739		18.0		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.06	2592.99	518598	DTF+OFDM	0.0	18.0	17.47	1	271	Front	5	0.524	1.156	0.561	0.738	0.460		20.3		17.4
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.07	2592.99	518598	DTF+OFDM	0.0	18.0	17.37	135	138	Front	5	0.507	1.156	0.586	0.744	0.465		20.3		17.0
Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	18.0	17.47	1	271	Bottom	10	0.545	1.130	0.357	0.453	0.283		22.4		
Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.03	2592.99	518598	DTF+OFDM	0.0	18.0	17.37	135	138	Bottom	10	0.533	1.156	0.350	0.445	0.278		22.5		
Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.08	2592.99	518598	DTF+OFDM	0.0	18.0	17.47	1	271	Right	10	0.496	1.130	0.210	0.267	0.167		24.7		
Hotspot	NR Band n41	100	QPSK	B	2	0510M	1:1	0.02	2592.99	518598	DTF+OFDM	0.0	18.0	17.37	135	138	Right	10	0.494	1.156	0.224	0.285	0.178		24.4		
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																											
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	RF5 PLimit [dBm]				
Body-worn/Hotspot	NR Band n41	100	B	1	0510M	1:1	-0.06	2592.99	518598	CW/SRS	18.0	17.40	Back	5	0.841	1.148	0.965	1.226	0.766		18.1	18.1	17.0				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: Blue entry represents variability measurement

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 138 of 171

Table 12-99

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	0510M	1:1	-0.09	2592.99	518598	CW/SRS	16.5	15.75	Back	5	0.427	1.189	0.508	0.645	0.403		19.4		
Body-worn/Hotspot	NR Band n41	100	E	1	0510M	1:1	-0.09	2592.99	518598	CW/SRS	16.5	15.75	Front	5	0.296	1.189	0.352	0.447	0.279		21.0		
Hotspot	NR Band n41	100	E	1	0510M	1:1	-0.07	2592.99	518598	CW/SRS	16.5	15.75	Top	10	0.067	1.189	0.080	0.101	0.063		27.4	19.4	15.5
Hotspot	NR Band n41	100	E	1	0510M	1:1	0.05	2592.99	518598	CW/SRS	16.5	15.75	Right	10	0.147	1.189	0.175	0.222	0.139		24.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	2	0510M	1:1	-0.03	2592.99	518598	CW/SRS	16.5	16.06	Back	5	0.535	1.107	0.592	0.752	0.470		18.7	18.7	15.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g) averaged over 1 gram							
Uncontrolled Exposure/General Population																							

Table 12-100

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body-worn/hotspot	NR Band n41	100	D	1	0510M	1:1	0.08	2592.99	518598	CW/SRS	16.5	15.73	Back	5	0.758	1.194	0.905	1.149	0.718		16.9		
Body-worn/hotspot	NR Band n41	100	D	1	0510M	1:1	-0.12	2592.99	518598	CW/SRS	16.5	15.73	Front	5	0.010	1.194	0.012	0.015	0.009		35.7		
Hotspot	NR Band n41	100	D	1	0510M	1:1	0.08	2592.99	518598	CW/SRS	16.5	15.73	Bottom	10	0.021	1.194	0.025	0.032	0.020		32.5	16.9	15.5
Hotspot	NR Band n41	100	D	1	0510M	1:1	-0.17	2592.99	518598	CW/SRS	16.5	15.73	Left	10	0.003	1.194	0.004	0.005	0.003		40.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body												
Spatial Peak											1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																							
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]
Body-worn/hotspot	NR Band n41	100	D	2	0510M	1:1	0.02	2592.99	518598	CW/SRS	16.5	15.80	Back	5	0.770	1.175	0.905	1.149	0.718		16.9	16.9	15.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Body												
Spatial Peak											1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																							

12.27 NR Band n48 Standalone SAR

Table 12-101 | Plot A54

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]	
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.02	3679.98	638000	DFT-s-OFDM	0.0	15.5	15.07	1	104	Right Cheek	0	0.770	1.104	0.850	1.080	0.875		16.2			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.05	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.03	1	53	Right Cheek	0	0.769	1.119	0.794	1.009	0.831		16.4			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.09	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.10	1	104	Right Cheek	0	0.689	1.096	0.666	0.829	0.519		17.3			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.08	3679.98	638000	DFT-s-OFDM	0.0	15.5	15.12	50	28	Right Cheek	0	0.794	1.091	0.869	1.180	0.968		16.1			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.02	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.05	50	28	Right Cheek	0	0.729	1.114	0.812	1.031	0.644		16.4			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.03	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.14	50	28	Right Cheek	0	0.634	1.086	0.689	0.874	0.546		17.1			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.06	100	0	Right Cheek	0	0.644	1.107	0.713	0.905	0.566		16.9			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.07	1	104	Right TIR	0	0.809	1.104	0.959	1.218	0.762	Plot	15.6			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.05	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.01	1	53	Right TIR	0	0.795	1.119	0.885	1.124	0.703		16.0			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.08	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.10	1	104	Right TIR	0	0.666	1.096	0.720	0.927	0.579		16.5			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.12	50	28	Right TIR	0	0.804	1.091	0.932	1.183	0.739		15.8			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.09	3679.98	641666	DFT-s-OFDM	0.0	15.5	15.03	50	28	Right TIR	0	0.618	1.114	0.911	1.157	0.723		15.9			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.14	50	28	Right TIR	0	0.719	1.088	0.778	0.988	0.618		16.1			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.06	100	0	Right TIR	0	0.726	1.107	0.804	1.021	0.638		16.4			
Head	NR Band n48	40	QPSK	F	0485M	1:1	-0.02	3679.98	645332	CP-OFDM	0.0	15.5	15.12	1	1	Right TIR	0	0.677	1.091	0.779	0.938	0.586		16.8			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.11	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.05	1	104	Left Cheek	0	0.648	1.096	0.973	0.473	0.296		19.1			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.14	50	28	Left Cheek	0	0.128	1.086	0.356	0.452	0.283		19.9			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.11	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.10	1	104	Left TIR	0	0.464	1.096	0.498	0.632	0.395		18.5			
Head	NR Band n48	40	QPSK	F	0485M	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	15.5	15.14	50	28	Left TIR	0	0.607	1.086	0.507	0.644	0.403		18.4			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								1.6 W/kg (mW/g) averaged over 1 gram			
Spatial Peak																											
Uncontrolled Exposure/General Population																											

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	RF Plimit [dBm]			
Head	NR Band n48	40	C	0485M	1:1	0.05	3679.98	645332	CW/SRS	11.0	10.41	Right Cheek	0	0.013	1.146	0.015	0.019	0.012		29.2		10.0			
Head	NR Band n48	40	C	0485M	1:1	0.00	3679.98	645332	CW/SRS	11.0	10.41	Right Tilt	0	0.002	1.146	0.002	0.003	0.002		37.3					
Head	NR Band n48	40	C	0485M	1:1	0.07	3679.98	645332	CW/SRS	11.0	10.41	Left Cheek	0	0.000	1.146	0.000	0.000	0.000		50.4					
Head	NR Band n48	40	C	0485M	1:1	0.09	3679.98	645332	CW/SRS	11.0	10.41	Left Tilt	0	0.009	1.146	0.010	0.013	0.008		30.8					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																		Head							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)				averaged over 1 gram			



Table 12-104

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n48	40	D	0486M	1:1	0.09	3679.98	645332	CW/SRS	11.0	10.04	Right Cheek	0	0.000	1.247	0.000	0.000	0.000		50.0		
Head	NR Band n48	40	D	0486M	1:1	-0.02	3679.98	645332	CW/SRS	11.0	10.04	Right Tit	0	0.000	1.247	0.000	0.000	0.000		50.0		
Head	NR Band n48	40	D	0486M	1:1	-0.07	3679.98	645332	CW/SRS	11.0	10.04	Left Cheek	0	0.000	1.247	0.000	0.000	0.000		50.0	50.0	10.0
Head	NR Band n48	40	D	0486M	1:1	0.06	3679.98	645332	CW/SRS	11.0	10.04	Left Tit	0	0.000	1.247	0.000	0.000	0.000		50.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																						
Uncontrolled Exposure/General Population																						

Table 12-105 | Plot A55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	18.0	17.27	1	104	Back	5	0.074	1.183	1.080	1.372	0.858		17.6		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.08	3624.99	641666	DFT-s-OFDM	0.0	18.0	17.61	1	1	Back	5	0.093	1.094	1.066	1.363	0.846		17.7		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.76	1	1	Back	5	0.066	1.057	1.030	1.283	0.803		17.9		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	18.0	17.29	50	56	Back	5	0.630	1.178	0.888	1.255	0.784		18.0		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	18.0	17.60	50	0	Back	5	0.074	1.094	1.066	1.363	0.846		18.1		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.69	50	0	Back	5	0.035	1.074	1.004	1.275	0.787		17.8		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.65	50	0	Back	5	0.066	1.057	0.996	1.265	0.791		18.0		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.01	3679.98	645332	CP-OFDM	0.0	18.0	17.82	1	1	Back	5	0.046	1.019	0.963	1.223	0.764		18.1		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.76	1	1	Front	5	0.014	1.057	0.438	0.556	0.348		21.5		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.10	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.76	1	1	Left	10	0.062	1.057	0.055	0.070	0.044		30.6		
Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.76	1	1	Top	10	0.180	1.057	0.349	0.443	0.277		22.5		
Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.05	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.69	50	0	Top	10	0.124	1.074	0.348	0.442	0.276		22.5		
Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	-0.10	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.76	1	1	Left	10	0.062	1.057	0.055	0.070	0.044		30.6		
Hotspot	NR Band n48	40	QPSK	F	0486M	1:1	0.07	3679.98	645332	DFT-s-OFDM	0.0	18.0	17.69	50	0	Left	10	0.040	1.074	0.053	0.067	0.042		30.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body		1.6 W/kg (mW/g) averaged over 1 gram												
Spatial Peak												Uncontrolled Exposure/General Population														

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-106

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]						
Body-worn/Hotspot	NR Band n48	40	C	0486M	1:1	0.02	3570.00	638000	CW/SRS	13.5	12.85	Back	5	0.225	1.161	0.261	0.332	0.208		19.3								
Body-worn/Hotspot	NR Band n48	40	C	0486M	1:1	-0.04	3570.00	638000	CW/SRS	13.5	12.85	Front	5	0.172	1.161	0.200	0.254	0.159		20.4								
Hotspot	NR Band n48	40	C	0486M	1:1	0.03	3570.00	638000	CW/SRS	13.5	12.85	Bottom	10	0.063	1.161	0.050	0.063	0.028		26.5								
Hotspot	NR Band n48	40	C	0486M	1:1	-0.07	3570.00	638000	CW/SRS	13.5	12.85	Right	10	0.145	1.161	0.168	0.214	0.134		21.2								
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body		1.6 W/kg (mW/g)												
Spatial Peak										Uncontrolled Exposure/General Population																		

Table 12-107

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n48	40	H	0486M	1:1	0.00	3679.98	645332	CW/SRS	18.0	17.25	Back	5	0.476	1.189	0.566	0.719	0.449		20.4		
Body-worn/Hotspot	NR Band n48	40	H	0486M	1:1	0.00	3679.98	645332	CW/SRS	18.0	17.25	Front	5	0.420	1.189	0.499	0.634	0.396		21.0	20.4	17.0
Hotspot	NR Band n48	40	H	0486M	1:1	-0.12	3679.98	645332	CW/SRS	18.0	17.25	Left	10	0.059	1.189	0.070	0.089	0.056		29.5		
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 12-108

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]				
Body-worn/Hotspot	NR Band n48	40	D	0486M	1:1	-0.09	3624.99	641666	CW/SRS	13.5	12.61	Back	5	0.122	1.227	0.150	0.190	0.119		21.7						
Body-worn/Hotspot	NR Band n48	40	D	0486M	1:1	0.05	3624.99	641666	CW/SRS	13.5	12.61	Front	5	0.000	1.227	0.000	0.000	0.000		52.6						
Hotspot	NR Band n48	40	D	0486M	1:1	0.04	3624.99	641666	CW/SRS	13.5	12.61	Bottom	10	0.000	1.227	0.000	0.000	0.000		52.6		12.5				
Hotspot	NR Band n48	40	D	0486M	1:1	0.09	3624.99	641666	CW/SRS	13.5	12.61	Left	10	0.000	1.227	0.000	0.000	0.000		52.6						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body		1.6 W/kg (mW/g) averaged over 1 gram												
Spatial Peak												Uncontrolled Exposure/General Population														

12.28 NR Band n77 Standalone SAR

Table 12-109 | Plot A56

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.56	1	271	Right Cheek	0	0.850	1.107	0.919	1.167	0.729		16.3		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.10	1	271	Right Cheek	0	0.541	1.167	0.631	0.802	0.560		17.9		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	-0.07	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.26	1	271	Right Cheek	0	0.822	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.80	135	135	Right Cheek	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.18	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.36	135	135	Right Cheek	0	0.525	1.186	0.582	0.886	0.541		17.9		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.49	135	135	Right Cheek	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.11	3500.01	633334	DFT-s-OFDM	0.0	16.0	16.10	135	135	Right Cheek	0	0.848	1.167	0.990	1.257	0.786		16.0		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.36	1	271	Right Tit	0	0.850	1.107	0.919	1.167	0.729		16.3		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.04	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.83	1	271	Right Tit	0	0.811	1.167	0.713	0.906	0.546		17.4		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.10	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.20	1	271	Right Tit	0	0.544	1.186	0.574	0.729	0.456		15.8		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.04	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.60	135	135	Right Tit	0	0.852	1.096	0.932	1.131	0.810		16.4		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.49	135	135	Right Tit	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.36	135	135	Right Tit	0	0.615	1.186	0.733	0.956	0.598		17.2		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.49	135	135	Right Tit	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.11	135	135	Right Tit	0	0.803	1.167	1.007	1.229	0.799		15.5		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.10	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.17	1	1	Right Tit	0	0.855	1.211	0.987	1.233	0.781		16.0		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.49	135	135	Right Tit	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.01	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.16	1	271	Left Tit	0	0.850	1.207	0.476	0.605	0.378		19.2		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.11	1	271	Left Tit	0	0.617	1.186	0.466	0.605	0.378		19.2		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.12	3500.01	633334	DFT-s-OFDM	0.0	16.0	16.00	135	135	Left Cheek	0	0.843	1.096	0.442	0.565	0.351		19.0		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.26	135	135	Left Cheek	0	0.518	1.186	0.440	0.578	0.311		19.1		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3500.00	633334	DFT-s-OFDM	0.0	16.0	15.49	135	135	Left Cheek	0	0.850	1.106	0.910	1.148	0.405		17.8		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.10	1	271	Left Tit	0	0.267	1.167	0.312	0.396	0.248		21.0		
Head	NR Band n77 DSD	100	QPSK	F	UL-MIMO	0703M	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.20	135	135	Left Tit	0	0.408	1.056	0.486	0.709	0.480		20.4		
Head	NR Band n77	100	QPSK	F	UL-MIMO	0703M	1:1	0.10	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.10	135	135	Left Tit	0	0.297	1.166	0.352	0.447	0.275		20.1		
AND/SEE CRS 1.1092 - SAFETY LIMIT														Head										1.6 W/kg (W/kg)			
Unconcentrated Exposure/General Population														averaged over 1 gram													

Table 12-110

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n7 DoD	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3500.01	633334	DFT+OFDM	0.0	16.0	15.75	1	271	Right Cheek	0	0.185	1.059	0.186	0.249	0.156	23.0			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3500.00	662000	DFT+OFDM	0.0	16.0	15.84	1	1	Right Cheek	0	0.209	1.021	0.204	0.259	0.162	21.8			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.02	3500.00	662000	DFT+OFDM	0.0	16.0	15.87	135	0	Right Cheek	0	0.189	1.029	0.204	0.259	0.162	22.9			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.16	3500.00	662000	CP-OFDM	0.0	16.0	15.74	1	1	Right Cheek	0	0.204	1.062	0.217	0.275	0.172	22.6			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3500.00	662000	DFT+OFDM	0.0	16.0	15.82	1	1	Right Ttr	0	0.096	1.021	0.097	0.073	0.046	28.4			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.05	3500.00	662000	DFT+OFDM	0.0	16.0	15.47	135	0	Right Ttr	0	0.051	1.079	0.055	0.070	0.044	28.5			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3500.00	662000	DFT+OFDM	0.0	16.0	15.92	1	1	Left Cheek	0	0.204	1.021	0.205	0.244	0.159	20.5			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0747M	1:1	0.02	3500.00	662000	DFT+OFDM	0.0	16.0	15.87	135	0	Left Cheek	0	0.024	1.079	0.026	0.033	0.021	31.8			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.13	3500.00	662000	DFT+OFDM	0.0	16.0	15.81	1	1	Left Ttr	0	0.089	1.021	0.091	0.089	0.024	31.1			
Head	NR Band n7	100	QPSK	C	UL-MIMO	0735M	1:1	0.09	3500.00	662000	DFT+OFDM	0.0	16.0	15.47	135	0	Left Ttr	0	0.027	1.079	0.029	0.037	0.023	31.3			
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.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]				
Head	NR Band n7 DoD	100	C	Default	0735M	1:1	0.10	3500.01	633334	CW/SRS	11.0	10.71	Right Cheek	0	0.067	1.069	0.072	0.093	0.057		22.4	22.2	10.0				
Head	NR Band n7	100	C	Default	0735M	1:1	-0.12	3750.00	650000	CW/SRS	11.0	10.45	Right Cheek	0	0.066	1.076	0.096	0.060			22.2						
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 12-111

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n7 DoD	100	H	UL-MIMO	0735M	1:1	0.01	3500.01	633334	CW/SRS	16.0	14.91	Right Cheek	0	0.465	1.285	0.598	0.759	0.474		18.2		
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	-0.03	3750.00	650000	CW/SRS	16.0	15.09	Right Cheek	0	0.553	1.250	0.691	0.878	0.549		17.6		
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	0.10	3500.00	662000	CW/SRS	16.0	15.04	Right Cheek	0	0.869	1.247	1.008	1.290	0.800		15.9		
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	0.02	3500.00	662000	CW/SRS	16.0	15.04	Right Tilt	0	0.130	1.247	0.162	0.206	0.129		23.9	15.9	15.0
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	-0.04	3750.00	650000	CW/SRS	16.0	15.03	Left Cheek	0	0.421	1.250	0.526	0.668	0.418		18.7		
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	0.06	3500.00	662000	CW/SRS	16.0	15.04	Left Cheek	0	0.650	1.247	0.811	1.029	0.643		16.9		
Head	NR Band n7	100	H	UL-MIMO	0735M	1:1	0.00	3500.00	662000	CW/SRS	16.0	15.04	Left Tilt	0	0.108	1.247	0.135	0.171	0.107		24.7		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT															Head								
Spatial Peak															1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								

Table 12-112

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n77 DoD	100	D	UL-MIMO	0735M	1:1	0.09	3500.01	633334	CW/SRS	16.0	15.12	Right Cheek	0	0.000	1.225	0.000	0.000	0.000		55.1		
Head	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.07	3930.00	662000	CW/SRS	16.0	15.12	Right Cheek	0	0.000	1.225	0.000	0.000	0.000		55.1		
Head	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.05	3930.00	662000	CW/SRS	16.0	15.12	Right Tilt	0	0.000	1.225	0.000	0.000	0.000		55.1		15.0
Head	NR Band n77	100	D	UL-MIMO	0735M	1:1	-0.11	3930.00	662000	CW/SRS	16.0	15.12	Left Cheek	0	0.000	1.225	0.000	0.000	0.000		55.1		
Head	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.05	3930.00	662000	CW/SRS	16.0	15.12	Left Tilt	0	0.000	1.225	0.000	0.000	0.000		55.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT													Head										
Spatial Peak													1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population													averaged over 1 gram										
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n77 DoD	100	D	Default	0735M	1:1	0.02	3500.01	633334	CW/SRS	11.0	10.06	Right Cheek	0	0.000	1.242	0.000	0.000	0.000		50.0		
Head	NR Band n77	100	D	Default	0735M	1:1	0.16	3750.00	650000	CW/SRS	11.0	9.90	Right Cheek	0	0.000	1.288	0.000	0.000	0.000		49.8		10.0
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 12-113 | Plot A57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.01	3750.00	650000	DFT+OFDM	0.0	17.5	16.97	1	1	Back	5	0.804	1.130	0.909	1.154	0.721		17.9			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.02	3500.00	662000	DFT+OFDM	0.0	17.5	17.13	1	1	Back	5	0.789	1.089	0.899	1.091	0.682		18.1			
Body-worn/Hotspot	NR Band n7 DoD	100	QPSK	F	UL-MIMO	0735M	1:1	0.02	3500.01	633334	DFT+OFDM	0.0	17.5	17.29	135	138	Back	5	0.673	1.074	0.723	0.918	0.574		18.9			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.02	3750.00	650000	DFT+OFDM	0.0	17.5	16.81	135	0	Back	5	0.734	1.172	0.849	1.029	0.674		18.7			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.01	3500.00	662000	DFT+OFDM	0.0	17.5	16.88	270	0	Back	5	0.743	1.107	0.800	1.016	0.635		18.0			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.1	3500.00	662000	DFT+OFDM	0.0	17.5	16.88	270	0	Back	5	0.743	1.133	0.822	1.049	0.693		18.0			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.01	3500.00	662000	CP-OFDM	0.0	17.5	17.00	1	1	Back	5	0.809	0.979	0.790	1.132	0.770	Plot #	17.6			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.05	3500.00	662000	CP-OFDM	0.0	17.5	17.00	1	1	Back	5	0.698	1.099	0.889	1.129	0.706		18.0		17.6	
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.05	3500.00	662000	DFT+OFDM	0.0	17.5	17.11	1	1	Front	5	0.858	1.067	0.990	1.045	0.899		21.3			
Body-worn/Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.05	3500.00	662000	DFT+OFDM	0.0	17.5	17.11	135	0	Front	5	0.869	1.067	0.990	1.045	0.899		21.3			
Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.12	3500.00	662000	DFT+OFDM	0.0	17.5	17.13	1	1	Top	10	0.211	1.089	0.754	0.922	0.205		23.5			
Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.09	3500.00	662000	DFT+OFDM	0.0	17.5	17.13	135	0	Top	10	0.211	1.089	0.754	0.922	0.205		23.5			
Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.17	3500.00	662000	DFT+OFDM	0.0	17.5	17.13	1	1	Left	10	0.048	1.089	0.582	0.065	0.041		30.3			
Hotspot	NR Band n7	100	QPSK	F	UL-MIMO	0735M	1:1	0.10	3500.00	662000	DFT+OFDM	0.0	17.5	17.06	135	0	Left	10	0.043	1.107	0.568	0.060	0.038		30.3			
AVERAGE FOR 1 CORE - SAR150 LIMIT														Back														
Spatial Peak														1.6 W/kg (N/A/g)														
Unconcentrated Exposure/General Population														averaged over 1 gram														

Note: Blue entry represents variability measurement

Table 12-114

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.05	3750.00	650000	DTT-4-OFDM	0.0	17.5	16.84	1	1	Back	5	0.489	1.164	0.569	0.723	0.452		19.9		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.02	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.48	1	1	Back	5	0.462	1.005	0.464	0.599	0.369		20.8		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.05	3750.00	650000	DTT-4-OFDM	0.0	17.5	16.77	135	0	Back	5	0.484	1.183	0.573	0.727	0.454		19.1		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.46	135	0	Back	5	0.437	1.009	0.421	0.534	0.334		21.2		
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	C	UL-MIMO	0735M	1:1	0.05	3500.00	633334	DTT-4-OFDM	0.0	17.5	16.96	1	271	Front	5	0.403	1.132	0.456	0.579	0.362		20.5		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.03	3750.00	650000	DTT-4-OFDM	0.0	17.5	16.84	1	1	Front	5	0.505	1.164	0.646	0.820	0.513		19.3		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.03	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.48	1	1	Front	5	0.423	1.005	0.423	0.537	0.336		21.2		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3750.00	650000	DTT-4-OFDM	0.0	17.5	16.77	135	0	Front	5	0.592	1.183	0.653	0.829	0.518		19.3		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.02	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.46	135	0	Front	5	0.500	1.009	0.394	0.500	0.313		21.5		
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	C	UL-MIMO	0735M	1:1	0.04	3500.00	633334	CP-OFDM	0.0	17.5	17.39	1	1	Front	5	0.514	1.072	0.615	0.761	0.488		19.8		
Body-worn/Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.01	3930.00	662000	CP-OFDM	0.0	17.5	17.49	1	1	Front	5	0.403	1.002	0.404	0.513	0.321		21.4		
Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.06	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.48	1	1	Bottom	10	0.514	1.005	0.555	0.717	0.456		25.6		
Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.01	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.48	135	0	Bottom	10	0.488	1.009	0.489	0.600	0.388		25.7		
Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.03	3750.00	650000	DTT-4-OFDM	0.0	17.5	16.84	1	1	Right	10	0.368	1.164	0.428	0.544	0.340		21.1		
Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.04	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.48	1	1	Right	10	0.489	1.005	0.411	0.522	0.326		21.9		
Hotspot	NR Band n77	100	QPSK	C	UL-MIMO	0735M	1:1	0.04	3930.00	662000	DTT-4-OFDM	0.0	17.5	17.46	135	0	Right	10	0.514	1.009	0.577	0.479	0.299		21.7		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]				
Body-worn/Hotspot	NR Band n77 DoD	100	C	Default	0735M	1:1	0.07	3500.00	633334	CW/SRS	12.5	12.36	Front	5	0.185	1.057	0.196	0.248	0.155		15.5	19.5	11.5				
Body-worn/Hotspot	NR Band n77	100	C	Default	0735M	1:1	0.12	3750.00	650000	CW/SRS	12.5	13.94	Front	5	0.264	1.138	0.187	0.237	0.148		19.7						
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																			Body		1.6 W/kg (mW/g)		averaged over 1 gram				

Table 12-115

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n77	100	H	UL-MIMO	0735M	1:1	-0.08	3750.00	650000	CW/SRS	17.5	16.34	Back	5	0.288	1.306	0.376	0.478	0.299		21.7		
Body-worn/Hotspot	NR Band n77	100	H	UL-MIMO	0735M	1:1	0.01	3930.00	662000	CW/SRS	17.5	16.35	Back	5	0.387	1.303	0.504	0.640	0.400		20.4		
Body-worn/Hotspot	NR Band n77 DoD	100	H	UL-MIMO	0735M	1:1	-0.02	3500.00	633334	CW/SRS	17.5	16.21	Front	5	0.266	1.346	0.358	0.455	0.284		21.9		
Body-worn/Hotspot	NR Band n77	100	H	UL-MIMO	0735M	1:1	-0.07	3750.00	650000	CW/SRS	17.5	16.34	Front	5	0.261	1.306	0.341	0.433	0.271		22.1	20.2	16.5
Body-worn/Hotspot	NR Band n77	100	H	UL-MIMO	0735M	1:1	-0.04	3930.00	662000	CW/SRS	17.5	16.35	Front	5	0.409	1.303	0.533	0.677	0.423		20.2		
Hotspot	NR Band n77	100	H	UL-MIMO	0735M	1:1	0.04	3930.00	662000	CW/SRS	17.5	16.35	Left	10	0.050	1.303	0.065	0.083	0.052		29.3		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT															Body								
Spatial Peak															1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								

Table 12-116

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	UL-MIMO	0735M	1:1	-0.07	3500.00	633334	CW/SRS	17.0	16.77	Back	5	0.259	1.054	0.273	0.347	0.217		22.6		
Body-worn/Hotspot	NR Band n77	100	D	UL-MIMO	0735M	1:1	-0.03	3750.00	650000	CW/SRS	17.0	16.22	Back	5	0.360	1.197	0.431	0.547	0.342		20.6		
Body-worn/Hotspot	NR Band n77	100	D	UL-MIMO	0735M	1:1	-0.04	3930.00	662000	CW/SRS	17.0	16.69	Back	5	0.466	1.074	0.500	0.636	0.398		20.0		
Body-worn/Hotspot	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.05	3930.00	662000	CW/SRS	17.0	16.69	Front	5	0.005	1.074	0.005	0.007	0.004		39.7		20.0
Hotspot	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.03	3930.00	662000	CW/SRS	17.0	16.69	Bottom	10	0.021	1.074	0.023	0.029	0.018		33.4		
Hotspot	NR Band n77	100	D	UL-MIMO	0735M	1:1	0.08	3930.00	662000	CW/SRS	17.0	16.69	Left	10	0.013	1.074	0.014	0.018	0.011		35.5		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	Default	0735M	1:1	-0.09	3500.00	633334	CW/SRS	12.5	11.38	Back	5	0.097	1.294	0.126	0.159	0.099		21.5	19.2	11.5
Body-worn/Hotspot	NR Band n77	100	D	Default	0735M	1:1	-0.10	3930.00	662000	CW/SRS	12.5	11.48	Back	5	0.168	1.265	0.213	0.270	0.169		19.2		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											



Table 12-119

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	-0.05	2412.00	1	1.0	20.0	19.45	Back	5	0.791	1.135	1.012	0.909	0.909	0.568		20.4		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.05	2437.00	6	1.0	20.0	19.67	Back	5	0.853	1.079	1.012	0.931	0.931	0.582		20.3		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.06	2462.00	11	1.0	20.0	19.23	Back	5	0.881	1.194	1.012	0.965	1.065	0.666		19.7		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.08	2412.00	1	1.0	20.0	19.45	Front	5	0.795	1.135	1.012	0.915	0.915	0.571		20.3		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	-0.10	2437.00	6	1.0	20.0	19.67	Front	5	0.743	1.079	1.012	0.811	0.811	0.507		20.9		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	-0.01	2462.00	11	1.0	20.0	19.23	Front	5	0.666	1.194	1.012	0.805	0.805	0.503		20.9		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.06	2437.00	6	1.0	20.0	19.67	Top	10	0.168	1.079	1.012	0.189	0.189	0.124		20.9		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.00	2412.00	1	1.0	20.0	19.45	Left	10	0.746	1.135	1.012	0.857	0.857	0.536		20.6		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.00	2437.00	6	1.0	20.0	19.67	Left	10	0.727	1.079	1.012	0.794	0.794	0.496		21.0		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	0509M	98.77	0.01	2462.00	11	1.0	20.0	19.23	Left	10	0.733	1.194	1.012	0.886	0.886	0.554		20.5		
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 12-120 | Plot A59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	0.10	2412.00	1	1.0	20.0	19.27	Back	5	0.845	1.183	1.013	1.013	1.013	0.633		19.9		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	-0.12	2437.00	6	1.0	20.0	19.71	Back	5	0.188	1.069	1.013	1.016	1.016	0.635	Plot	19.9		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	-0.03	2462.00	11	1.0	20.0	19.10	Back	5	0.782	1.230	1.013	0.974	0.974	0.609		20.1		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	-0.13	2412.00	1	1.0	20.0	19.27	Front	5	0.817	1.183	1.013	0.979	0.979	0.612		20.0		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	0.08	2437.00	6	1.0	20.0	19.71	Front	5	0.498	1.069	1.013	0.972	0.972	0.608		20.1		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	-0.11	2462.00	11	1.0	20.0	19.10	Front	5	0.779	1.230	1.013	0.971	0.971	0.607		20.1		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	0.03	2437.00	6	1.0	20.0	19.71	Top	10	0.014	1.069	1.013	0.015	0.015	0.009		18.1		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	I	0509M	98.72	0.00	2412.00	1	1.0	20.0	19.71	Right	10	0.080	1.069	1.013	0.097	0.097	0.061		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						

12.30 2.4 GHz WIFI MIMO Standalone SAR

Table 12-121

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.05	2412.00	1	6.0	16.0	15.02	16.0	14.43	Right Cheek	0	0.595	1.435	1.115	0.952	1.209	0.756		16.2		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	-0.01	2437.00	6	6.0	16.0	14.99	16.0	14.25	Right Cheek	0	0.407	1.496	1.115	0.829	1.053	0.658		16.8		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.04	2462.00	11	6.0	16.0	14.85	16.0	14.41	Right Cheek	0	0.476	1.443	1.115	0.765	0.972	0.508		17.1		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	-0.02	2412.00	1	6.0	16.0	15.02	16.0	14.43	Right TIR	0	0.154	1.435	1.115	0.502	0.938	0.399		18.9		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.04	2412.00	1	6.0	16.0	15.02	16.0	14.43	Left Cheek	0	0.170	1.435	1.115	0.912	1.118	0.724		16.3		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.03	2437.00	6	6.0	16.0	14.99	16.0	14.25	Left Cheek	0	0.469	1.496	1.115	0.616	1.250	0.606		16.9		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.04	2462.00	11	6.0	16.0	14.85	16.0	14.41	Left Cheek	0	0.496	1.443	1.115	0.765	0.972	0.608		17.1		
	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	-0.01	2412.00	1	6.0	16.0	15.02	16.0	14.43	Left TIR	0	0.107	1.435	1.115	0.171	0.217	0.136		23.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure/General Population																										
																		Head								
																		1.6 W/kg (mW/g)								
																		averaged over 1 gram								

Notes: To achieve the 10 dBm equivalent of the SAR shown in the documentation, each system must be at least 10 cm away from the SAR antenna.

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 12-122

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.01	2417.00	2	6.0	18.0	17.37	18.0	17.32	Back	5	0.634	1.359	1.115	0.826	0.826	0.518		18.8		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.00	2417.00	6	6.0	18.0	17.40	18.0	17.22	Back	5	0.585	1.197	1.115	0.782	0.782	0.489		19.0		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.00	2462.00	11	6.0	18.0	17.35	18.0	17.13	Back	5	0.661	1.223	1.115	0.764	0.764	0.478		19.1		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	-0.02	2417.00	2	6.0	18.0	17.37	18.0	17.32	Front	5	0.145	1.359	1.115	0.450	0.450	0.281		21.4		
Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.01	2417.00	2	6.0	18.0	17.37	18.0	17.32	Top	5	0.087	1.359	1.115	0.126	0.126	0.079		26.9		
Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.15	2417.00	2	6.0	18.0	17.37	18.0	17.32	Wrist	10	0.043	1.359	1.115	0.056	0.056	0.035		30.0		
Hotspot	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0509M	89.71	0.00	2417.00	17	6.0	18.0	17.12	18.0	16.93	Left	10	0.421	1.359	1.115	0.555	0.555	0.344		25.1		
ANS/IEEE C95.1 1992 - SAFETY LIMIT										Special Peak																
Unmonitored Exposure/General Population										1.6 W/kg (any/mg) averaged over 1 gram																
Note: To achieve the 21.48m maximum allowed MIMO mode shown in the documentation, each antenna element at a maximum allowed power of 21.48 dBm.																										



Table 12-124

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ERS Plimit [dBm]
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.06	5290.00	58	U-NI-2A	29.3	16.0	11.83	Right Cheek	0	0.460	1.040	1.045	0.500	0.635	0.397		19.0		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.09	5610.00	132	U-NI-2C	29.3	16.0	11.90	Right Cheek	0	0.572	1.023	1.045	0.611	0.777	0.486		18.3		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0550M	95.69	-0.05	5775.00	155	U-NI-3A	29.3	16.0	11.38	Right Cheek	0	0.386	1.153	1.045	0.467	0.584	0.371		19.3		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0550M	95.69	-0.06	5855.00	171	U-NI-4A	29.3	16.0	11.40	Right Cheek	0	0.316	1.148	1.045	0.379	0.481	0.301		20.2		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0550M	95.69	0.02	5290.00	58	U-NI-2A	29.3	16.0	11.83	Right TIR	0	0.480	1.040	1.045	0.688	0.676	0.433		18.7		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0550M	95.69	-0.03	5610.00	132	U-NI-2C	29.3	16.0	11.90	Right TIR	0	0.576	1.023	1.045	0.688	0.780	0.488		18.1		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	0.17	5775.00	155	U-NI-3A	29.3	16.0	11.38	Right TIR	0	0.385	1.153	1.045	0.467	0.594	0.371		19.3		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	-0.09	5855.00	171	U-NI-4A	29.3	16.0	11.40	Right TIR	0	0.329	1.148	1.045	0.395	0.501	0.313		19.0		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.09	5290.00	58	U-NI-2A	29.3	16.0	11.83	Left Cheek	0	0.576	1.040	1.045	0.609	0.519	0.314		19.5		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.04	5610.00	132	U-NI-2C	29.3	16.0	11.90	Left Cheek	0	0.505	1.023	1.045	0.540	0.686	0.429		18.0		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	0.01	5775.00	155	U-NI-3A	29.3	16.0	11.38	Left Cheek	0	0.413	1.133	1.045	0.498	0.632	0.395		19.6		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.06	5855.00	171	U-NI-4A	29.3	16.0	11.40	Left Cheek	0	0.407	1.148	1.045	0.488	0.620	0.388		19.1		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.05	5290.00	58	U-NI-2A	29.3	16.0	11.83	Left TIR	0	0.397	1.040	1.045	0.431	0.548	0.343		19.6		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.30	5610.00	132	U-NI-2C	29.3	16.0	11.90	Left TIR	0	0.502	1.023	1.045	0.537	0.682	0.426		18.7		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.03	5775.00	155	U-NI-3A	29.3	16.0	11.38	Left TIR	0	0.386	1.153	1.045	0.466	0.595	0.369		19.3		
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0553M	95.69	-0.06	5855.00	171	U-NI-4A	29.3	16.0	11.40	Left TIR	0	0.335	1.148	1.045	0.402	0.510	0.319		19.9		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																									
Spatial Peak																1.4 W/kg (mW/g)								18.1	15.0
Uncontrolled Exposure/General Population																averaged over 1 gram									

Table 12-125

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	ERS Plimit [dBm]	
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	0.03	5290.00	58	U-NI-2A	29.3	14.0	11.87	Back	5	0.375	1.030	1.045	0.404	0.513	0.321		17.9			
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.04	5210.00	136	U-NI-2C	29.3	14.0	11.96	Back	5	0.529	1.009	1.045	0.558	0.708	0.443		16.3			
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.09	5855.00	171	U-NI-4A	29.3	14.0	11.34	Back	5	0.471	1.164	1.045	0.573	0.728	0.405		16.4			
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	0.01	5290.00	58	U-NI-2A	29.3	14.0	11.87	Front	5	0.361	1.030	1.045	0.395	0.570	0.304		20.6			
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.09	5210.00	136	U-NI-2C	29.3	14.0	11.96	Front	5	0.523	1.009	1.045	0.528	0.820	0.351		22.5			
Body-worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.02	5855.00	171	U-NI-4A	29.3	14.0	11.34	Front	5	0.532	1.164	1.045	0.585	0.735	0.447		21.3			
Body-worn/Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	0.16	5775.00	155	U-NI-3A	29.3	14.0	11.48	Back	5	0.437	1.127	1.045	0.615	0.954	0.409		16.5			
Body-worn/Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	0.06	5210.00	42	U-NI-1A	29.3	14.0	11.48	Front	5	0.362	1.127	1.045	0.493	0.242	0.151		21.1		16.4	
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	0.01	5210.00	42	U-NI-1A	29.3	14.0	11.34	Back	5	0.259	1.164	1.045	0.315	0.400	0.250		19.0			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	-0.09	5210.00	42	U-NI-1A	29.3	14.0	11.34	Front	5	0.380	1.164	1.045	0.097	0.124	0.078		24.1			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	-0.08	5855.00	171	U-NI-4A	29.3	14.0	11.34	Top	10	0.031	1.164	1.045	0.038	0.048	0.030		28.3			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.09	5775.00	155	U-NI-3A	29.3	14.0	11.48	Top	10	0.067	1.127	1.045	0.079	0.100	0.063		25.0			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0520M	95.69	-0.04	5210.00	42	U-NI-1A	29.3	14.0	11.34	Left	10	0.100	1.164	1.045	0.122	0.134	0.096		23.1			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	G	0506M	95.69	-0.03	5775.00	155	U-NI-3A	29.3	14.0	11.48	Left	10	0.008	1.127	1.045	0.246	0.311	0.194		20.1			
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Body										
Spatial Peak																1.4 W/kg (mW/g)										
Uncontrolled Exposure/General Population																averaged over 1 gram										

Table 12-126 | Plot A61, A62

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plaint [dBm]	Overall Plaint [dBm]	ERS Plaint [dBm]
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.12	5290.00	58	U-NI-2A	29.3	14.0	11.89	Back	5	0.487	1.026	1.045	0.479	0.609	0.381		17.1		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	0.10	5610.00	136	U-NI-2C	29.3	14.0	11.99	Back	5	0.818	1.002	1.045	0.807	1.088	0.680	Plot	14.6		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.06	5210.00	136	U-NI-2C	29.3	14.0	11.96	Back	5	0.595	1.009	1.045	0.604	0.805	0.490		14.9		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.04	5610.00	132	U-NI-2C	29.3	14.0	11.97	Back	5	0.606	1.007	1.045	0.638	0.810	0.506		15.9		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	0.01	5690.00	138	U-NI-2C	29.3	14.0	11.79	Back	5	0.537	1.050	1.045	0.589	0.748	0.468		16.2		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.07	5855.00	171	U-NI-4A	29.3	14.0	11.34	Back	5	0.566	1.168	1.045	0.688	0.874	0.546		15.6		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.03	5290.00	58	U-NI-2A	29.3	14.0	11.89	Front	5	0.538	1.026	1.045	0.569	0.715	0.434		21.3		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.10	5610.00	136	U-NI-2C	29.3	14.0	11.99	Front	5	0.884	1.002	1.045	0.893	1.245	0.553		21.7		
Body worn	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	-0.08	5855.00	171	U-NI-4A	29.3	14.0	11.34	Front	5	0.518	1.168	1.045	0.544	0.802	0.514		24.4		
Body worn/Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	0.06	5775.00	155	U-NI-3A	29.3	14.0	11.31	Back	5	0.384	1.172	1.045	0.483	0.613	0.383	Plot	17.1		
Body worn/Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0506M	95.69	0.02	5775.00	155	U-NI-3A	29.3	14.0	11.31	Front	5	0.331	1.172	1.045	0.350	0.204	0.128		21.8		
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	-0.09	5210.00	42	U-NI-1A	29.3	14.0	11.42	Back	5	0.272	1.143	1.045	0.325	0.413	0.258		18.5		
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	0.01	5210.00	42	U-NI-1A	29.3	14.0	11.42	Front	5	0.129	1.143	1.045	0.154	0.196	0.123		22.3		
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	0.07	5210.00	42	U-NI-1A	29.3	14.0	11.42	Top	10	0.035	1.143	1.045	0.042	0.053	0.033	27.7			
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	-0.07	5775.00	155	U-NI-3A	29.3	14.0	11.31	Back	5	0.272	1.143	1.045	0.285	0.356	0.229		22.8		
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	0.01	5210.00	42	U-NI-1A	29.3	14.0	11.42	Right	10	0.094	1.143	1.045	0.099	0.124	0.075		31.1		
Hotspot	5 GHz WIFU / IEEE 802.11ac	80	OFDM	E	0520M	95.69	-0.02	5775.00	155	U-NI-3A	29.3	14.0	11.31	Right	10	0.036	1.172	1.045	0.042	0.054	0.033		27.8		
Analysis Only - User Safety Limit																									
Spatial Peak																1.4 W/kg (W/kg)									
Uncontrolled Exposure/General Population																averaged over 1 gram									
Note: Blue entry represents variable measurement																									



12.32 5 GHz WIFI MIMO Standalone SAR

Table 12-129 | Plot A60

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.04	5290.00	58	U-NI-24	58.5	16.0	15.70	16.0	15.36	Right Cheek	0	0.536	1.059	1.083	0.673	0.854	0.534	17.7	17.7	17.7	
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.05	5330.00	106	U-NI-2C	58.5	16.0	15.95	16.0	15.75	Right Cheek	0	0.579	1.059	1.083	0.888	1.127	0.704	Proc	19.5	19.5	
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.03	5610.00	122	U-NI-2C	58.5	16.0	15.80	16.0	15.85	Right Cheek	0	0.743	1.047	1.083	0.841	1.089	0.689	16.7	16.7		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.07	5690.00	138	U-NI-2C	58.5	16.0	15.97	16.0	15.78	Right Cheek	0	0.645	1.052	1.083	0.753	0.939	0.581	17.3	17.3		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.05	5775.00	135	U-NI-3	58.5	16.0	15.43	16.0	15.33	Right Cheek	0	0.532	1.047	1.083	0.698	0.886	0.534	17.5	17.5		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.17	5855.00	171	U-NI-4	58.5	16.0	15.35	16.0	15.35	Right Cheek	0	0.651	1.189	1.083	0.838	1.095	0.686	16.7	16.7		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.03	5390.00	58	U-NI-24	58.5	16.0	15.70	16.0	15.36	Right Tilt	0	0.488	1.039	1.083	0.688	0.775	0.483	18.1	18.1		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.02	5330.00	106	U-NI-2C	58.5	16.0	15.55	16.0	15.75	Right Tilt	0	0.443	1.059	1.083	0.737	0.837	0.586	17.3	17.3		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.07	5775.00	135	U-NI-3	58.5	16.0	15.31	16.0	15.31	Right Tilt	0	0.445	1.067	1.083	0.560	0.731	0.444	18.1	18.1		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.07	5855.00	171	U-NI-4	58.5	16.0	15.45	16.0	15.45	Right Tilt	0	0.536	1.189	1.083	0.690	0.877	0.548	17.8	17.8		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.05	5290.00	58	U-NI-24	58.5	16.0	15.70	16.0	15.36	Left Cheek	0	0.413	1.039	1.083	0.516	0.658	0.413	18.1	18.1		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.09	5330.00	106	U-NI-2C	58.5	16.0	15.35	16.0	15.75	Left Cheek	0	0.573	1.039	1.083	0.653	0.839	0.539	17.8	17.8		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.04	5775.00	135	U-NI-3	58.5	16.0	15.33	16.0	15.33	Left Cheek	0	0.430	1.047	1.083	0.543	0.680	0.433	18.6	18.6		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.07	5855.00	171	U-NI-4	58.5	16.0	15.31	16.0	15.31	Left Cheek	0	0.464	1.189	1.083	0.469	0.599	0.372	19.3	19.3		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.05	5290.00	58	U-NI-24	58.5	16.0	15.70	16.0	15.36	Left Tilt	0	0.423	1.039	1.083	0.531	0.674	0.421	18.7	18.7		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.14	5330.00	106	U-NI-2C	58.5	16.0	15.35	16.0	15.75	Left Tilt	0	0.589	1.059	1.083	0.653	0.829	0.518	17.8	17.8		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.13	5775.00	135	U-NI-3	58.5	16.0	15.33	16.0	15.33	Left Tilt	0	0.430	1.067	1.083	0.545	0.680	0.433	18.6	18.6		
Head	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0553M	92.93	0.10	5855.00	171	U-NI-4	58.5	16.0	15.45	16.0	15.45	Left Tilt	0	0.503	1.189	1.083	0.455	0.577	0.365	19.4	19.4		
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Head 1.6 W/kg (mW/g) averaged over 1 gram									
Unclassified Exposure / General Population																											

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

Table 12-130

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power 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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.11	5290.00	58	U-NI-24	58.5	14.0	13.88	14.0	13.63	Back	5	0.462	1.089	1.083	0.580	0.737	0.461	16.3	16.3	16.3	
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.14	5610.00	122	U-NI-2C	58.5	14.0	13.54	14.0	13.63	Back	5	0.502	1.055	1.083	0.717	0.921	0.559	15.4	15.4		
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.06	5650.00	171	U-NI-4	58.5	14.0	13.60	14.0	13.63	Back	5	0.471	1.089	1.083	0.713	0.965	0.569	15.4	15.4		
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.10	5290.00	58	U-NI-24	58.5	14.0	13.69	14.0	13.63	Front	5	0.539	1.089	1.083	0.188	0.288	0.149	21.2	21.2		
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.07	5610.00	122	U-NI-2C	58.5	14.0	13.52	14.0	13.63	Front	5	0.482	1.056	1.083	0.200	0.259	0.109	21.6	21.6		
Body-worn	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.13	5855.00	171	U-NI-4	58.5	14.0	13.32	14.0	13.21	Front	5	0.564	1.189	1.083	0.213	0.279	0.109	20.7	20.7		
Body-worn/Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.03	5775.00	155	U-NI-3	58.5	14.0	13.52	14.0	13.55	Back	5	0.450	1.089	1.083	0.587	0.746	0.449	16.3	16.3		
Body-worn/Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.08	5775.00	135	U-NI-3	58.5	14.0	13.52	14.0	13.55	Front	5	0.533	1.089	1.083	0.197	0.250	0.156	21.4	21.4		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.03	5210.00	42	U-NI-13	58.5	14.0	13.21	14.0	13.20	Back	5	0.349	1.202	1.083	0.454	0.577	0.363	17.0	17.0		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.03	5210.00	42	U-NI-13	58.5	14.0	13.31	14.0	13.20	Front	5	0.378	1.202	1.083	0.243	0.339	0.199	19.1	19.1		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.06	5210.00	42	U-NI-13	58.5	14.0	13.31	14.0	13.20	Top	10	0.509	1.202	1.083	0.090	0.114	0.071	24.4	24.4		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.07	5775.00	155	U-NI-3	58.5	14.0	13.52	14.0	13.55	Top	10	0.576	1.089	1.083	0.098	0.124	0.078	24.0	24.0		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.10	5210.00	42	U-NI-13	58.5	14.0	13.31	14.0	13.20	Right	10	0.573	1.202	1.083	0.047	0.059	0.023	29.6	29.6		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.03	5775.00	155	U-NI-3	58.5	14.0	13.52	14.0	13.55	Right	10	0.535	1.089	1.083	0.045	0.057	0.036	27.6	27.6		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.10	5210.00	42	U-NI-13	58.5	14.0	13.31	14.0	13.20	Left	10	0.545	1.202	1.083	0.118	0.155	0.099	21.6	21.6		
Headset	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0559M	92.93	0.03	5775.00	155	U-NI-3	58.5	14.0	13.52	14.0	13.55	Left	10	0.386	1.189	1.083	0.240	0.304	0.190	20.2	20.2		
ANSI/IEEE C63.19-2012 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure / General Population																											

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Table 12-131

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]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt [dBm]
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.06	5290.00	58	U-NI-24	58.5	14.0	13.88	14.0	13.63	Back	0	0.406	1.089	1.083	0.585	0.743	0.586	20.3	20.3	20.3	
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.03	5610.00	122	U-NI-2C	58.5	14.0	13.33	14.0	13.35	Back	0	0.445	1.035	1.083	0.710	0.965	0.725	19.4	19.4		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.13	5855.00	171	U-NI-4	58.5	14.0	13.31	14.0	13.21	Back	0	0.518	1.039	1.083	0.818	1.039	0.789	18.8	18.8		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.11	5290.00	58	U-NI-24	58.5	14.0	13.89	14.0	13.63	Front	0	0.341	1.089	1.083	0.284	0.363	0.080	23.4	23.4		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.03	5610.00	122	U-NI-2C	58.5	14.0	13.31	14.0	13.35	Front	0	0.450	1.035	1.083	0.460	0.606	0.406	24.1	24.1		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.06	5855.00	171	U-NI-4	58.5	14.0	13.32	14.0	13.21	Front	0	0.525	1.039	1.083	0.400	0.559	0.519	21.8	21.8		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.03	5290.00	58	U-NI-24	58.5	14.0	13.88	14.0	13.63	Top	0	0.310	1.089	1.083	0.130	0.165	0.041	26.8	26.8		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.05	5610.00	122	U-NI-2C	58.5	14.0	13.51	14.0	13.63	Top	0	0.436	1.039	1.083	0.336	0.375	0.069	26.6	26.6		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.04	5855.00	171	U-NI-4	58.5	14.0	13.37	14.0	13.21	Top	0	0.379	1.039	1.083	0.232	0.295	0.074	24.3	24.3		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.09	5290.00	58	U-NI-24	58.5	14.0	13.88	14.0	13.63	Right	0	0.409	1.089	1.083	0.635	0.845	0.636	17.4	17.4		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.03	5610.00	122	U-NI-2C	58.5	14.0	13.33	14.0	13.35	Right	0	0.445	1.035	1.083	0.710	0.965	0.725	19.4	19.4		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.07	5855.00	171	U-NI-4	58.5	14.0	13.32	14.0	13.21	Right	0	0.503	1.039	1.083	0.825	1.045	0.826	17.8	17.8		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.13	5855.00	171	U-NI-4	58.5	14.0	13.31	14.0	13.21	Right	0	0.518	1.039	1.083	0.818	1.039	0.789	18.8	18.8		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.06	5610.00	122	U-NI-2C	58.5	14.0	13.93	14.0	13.99	Left	0	0.380	1.038	1.083	0.865	1.080	0.866	17.6	17.6		
Phantom	5 GHz WiFi IEEE 802.11ac	80	OFDM	MIMO	0560M	92.93	0.03	5855.00	171	U-NI-4	58.5	14.0	13.32	14.0	13.21	Left	0	0.486	1.039	1.083	0.583	0.768	0.584	18.9	18.9		
Average over 10 dBm																											
Spatial Power Density (SAR) (W/kg) averaged over 10 grams																											
Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmitted at a maximum allowed power of 14 dBm.																											

Table 12-133

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall P10 [dBm]	EFS P10 [dBm]
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.06	6025.00	15	68.1	16.0	15.30	Right Cheek	0	0.189	1.175	1.004	0.223	0.283	0.177		22.5		15.0
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	-0.09	6985.00	207	68.1	16.0	15.82	Right Cheek	0	0.204	1.042	1.004	0.213	0.271	0.169		22.7		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	-0.05	6025.00	15	68.1	16.0	15.30	Right Tilt	0	0.188	1.175	1.004	0.222	0.282	0.176		22.5		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	-0.01	6985.00	207	68.1	16.0	15.82	Right Tilt	0	0.204	1.042	1.004	0.213	0.271	0.169		22.7		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.03	6025.00	15	68.1	16.0	15.30	Left Cheek	0	0.224	1.175	1.004	0.264	0.336	0.210		21.7		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.03	6985.00	207	68.1	16.0	15.82	Left Cheek	0	0.118	1.042	1.004	0.123	0.157	0.099		25.0		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.05	6025.00	15	68.1	16.0	15.30	Left Tilt	0	0.153	1.175	1.004	0.209	0.375	0.237		21.2		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.07	6985.00	207	68.1	16.0	15.82	Left Tilt	0	0.119	1.042	1.004	0.124	0.158	0.099		25.0		

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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 #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall P10 [dBm]	EFS P10 [dBm]
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.06	6025.00	15	68.1	16.0	15.30	Right Cheek	0	1.320	1.175	1.004	1.793	2.277	0.114		24.4		15.0
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	-0.05	6985.00	207	68.1	16.0	15.82	Right Cheek	0	1.470	1.042	1.004	1.538	1.953	0.096		25.1		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	-0.05	6025.00	15	68.1	16.0	15.30	Right Tilt	0	1.300	1.175	1.004	1.793	2.277	0.114		24.4		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	-0.02	6985.00	207	68.1	16.0	15.82	Right Tilt	0	1.450	1.042	1.004	1.517	1.927	0.096		25.1		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.03	6025.00	15	68.1	16.0	15.30	Left Cheek	0	0.610	1.175	1.004	0.899	2.412	0.121		24.2		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.03	6985.00	207	68.1	16.0	15.82	Left Cheek	0	0.813	1.042	1.004	0.851	1.081	0.054		27.7		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.05	6025.00	15	68.1	16.0	15.30	Left Tilt	0	2.020	1.175	1.004	2.383	3.026	0.151		23.2		
Head	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.07	6985.00	207	68.1	16.0	15.82	Left Tilt	0	0.788	1.042	1.004	0.824	0.052	0.052		25.0		

Table 12-134

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall P10 [dBm]	EFS P10 [dBm]
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.09	6025.00	15	68.1	12.0	11.84	Back	5	0.188	1.038	1.003	0.196	0.249	0.156		19.0		11.0
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.08	6025.00	15	68.1	12.0	11.84	Front	5	0.086	1.038	1.003	0.090	0.137	0.039		22.0		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.02	6025.00	15	68.1	12.0	11.84	Top	10	0.075	1.038	1.003	0.078	0.099	0.062		23.0		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.01	6025.00	15	68.1	12.0	11.84	Left	10	0.111	1.038	1.003	0.116	0.147	0.092		21.3		

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Spatial Peak

Uncontrolled Exposure/General Population

Body

1.6 W/kg (mW/g)

averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall P10 [dBm]	EFS P10 [dBm]
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.09	6025.00	15	68.1	12.0	11.84	Back	5	1.300	1.038	1.003	1.353	1.718	0.086		21.6		11.0
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.18	6025.00	15	68.1	12.0	11.84	Front	5	0.062	1.038	1.003	0.069	0.075	0.044		24.6		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.02	6025.00	15	68.1	12.0	11.84	Top	10	0.531	1.038	1.003	0.553	0.702	0.055		25.5		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	G	0542M	99.69	0.01	6025.00	15	68.1	12.0	11.84	Left	10	0.878	1.038	1.003	0.914	1.161	0.058		23.3		

Table 12-135

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall P10 [dBm]	EFS P10 [dBm]
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.04	6025.00	15	68.1	12.0	11.39	Back	5	0.347	1.151	1.004	0.401	0.509	0.318		15.9		11.0
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.04	6145.00	79	68.1	12.0	10.65	Back	5	0.194	1.365	1.004	0.266	0.338	0.211		17.7		
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.04	6145.00	111	68.1	12.0	11.39	Back	5	0.152	1.002	1.004	0.155	0.192	0.123		20.1		
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.01	6665.00	149	68.1	12.0	11.27	Back	5	0.135	1.183	1.004	0.160	0.204	0.128		19.9		
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.01	6985.00	207	68.1	12.0	11.64	Back	5	0.116	1.086	1.004	0.126	0.161	0.101		20.9		
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.01	6025.00	15	68.1	12.0	11.39	Front	5	0.047	1.151	1.004	0.054	0.069	0.046		24.6		
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.02	6025.00	111	68.1	12.0	11.39	Front	5	0.025	1.002	1.004	0.025	0.032	0.020		27.9		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.05	6025.00	15	68.1	12.0	11.39	Top	10	0.061	1.151	1.004	0.070	0.090	0.056		23.5		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.03	6105.00	111	68.1	12.0	11.39	Top	10	0.034	1.002	1.004	0.035	0.044	0.028		26.9		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.14	6025.00	15	68.1	12.0	11.39	Right	10	0.023	1.151	1.004	0.027	0.034	0.021		27.7		
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.60	0.01	6105.00	111	68.1	12.0	11.39	Right	10	0.024	1.012	1.004	0.024	0.031	0.019		28.1		

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Spatial Peak

Uncontrolled Exposure/General Population

Body

1.6 W/kg (mW/g)

averaged over 1 gram

Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.04	6025.00	15	68.1	12.0	11.39	Back	5	2.040	1.151	1.004	2.097	2.993	0.150	19.2	11.0
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.04	6145.00	79	68.1	12.0	11.39	Back	5	1.150	1.365	1.004	1.376	2.002	0.309	19.0	
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.06	6105.00	111	68.1	12.0	11.95	Back	5	1.040	1.012	1.004	1.057	1.342	0.087	22.7	
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.01	6665.00	149	68.1	12.0	11.27	Back	5	0.838	1.183	1.004	0.995	1.264	0.063	23.0	
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Back	5	0.047	1.151	1.004	0.054	0.069	0.046	24.6	
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Front	5	0.371	1.151	1.004	0.429	0.545	0.027	26.6	
Body-worn/Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.02	6105.00	111	68.1	12.0	11.95	Front	5	0.151	1.012	1.004	0.153	0.194	0.010	31.1	
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.06	6025.00	15	68.1	12.0	11.39	Top	10	0.492	1.151	1.004	0.549	0.723	0.036	25.4	
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.01	6105.00	111	68.1	12.0	11.95	Top	10	0.256	1.012	1.004	0.260	0.340	0.017	28.8	
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.12	6145.00	79	68.1	12.0	11.39	Right	10	0.248	1.365	1.004	0.249	0.368	0.021	29.1	
Hotspot	6 GHz W/F/ IEEE 802.11ax	160	OFDM	E	0542M	99.6	0.01	6505.00	111	68.1	12.0	11.95	Right	10	0.201	1.012	1.004	0.204	0.259	0.013	29.9	



Table 12-137

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power DfR [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Rate [10g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	ERS P1mit [dBm]	
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.60	0.01	6025.00	15	68.1	12.0	11.39	Back	0	0.080	1.151	1.004	0.092	0.117	0.029		26.3			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.60	0.08	6025.00	15	68.1	12.0	11.39	Back	0	0.122	1.151	1.004	0.141	0.179	0.045		24.4			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.60	0.01	6345.00	79	68.1	12.0	11.95	Back	0	0.090	1.365	1.004	0.082	0.104	0.026		26.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.60	0.08	6345.00	79	68.1	12.0	11.95	Back	0	0.072	1.365	1.004	0.099	0.125	0.031		26.0			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0542M	99.60	0.02	6505.00	111	68.1	12.0	11.95	Back	0	0.078	1.022	1.004	0.079	0.101	0.025		26.5			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.60	0.01	6505.00	111	68.1	12.0	11.95	Back	0	0.061	1.022	1.004	0.062	0.079	0.020		28.0			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.60	0.05	6665.00	143	68.1	12.0	11.27	Back	0	0.055	1.183	1.004	0.063	0.088	0.021		27.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.60	0.08	6665.00	143	68.1	12.0	11.27	Back	0	0.045	1.183	1.004	0.063	0.088	0.021		28.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.60	0.14	6885.00	207	68.1	12.0	11.64	Back	0	0.060	1.086	1.004	0.065	0.083	0.021		27.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.60	0.06	6885.00	207	68.1	12.0	11.64	Back	0	0.078	1.086	1.004	0.085	0.108	0.027		26.6			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.01	6025.00	15	68.1	12.0	11.39	Front	0	0.068	1.151	1.004	0.079	0.100	0.025		27.0			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.01	6345.00	111	68.1	12.0	11.95	Front	0	0.041	1.022	1.004	0.044	0.061	0.013		29.1			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.01	6025.00	15	68.1	12.0	11.39	Top	0	0.036	1.151	1.004	0.042	0.053	0.013		29.7			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.01	6345.00	111	68.1	12.0	11.95	Top	0	0.049	1.022	1.004	0.049	0.063	0.020		29.0			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.01	6025.00	15	68.1	12.0	11.39	Right	0	0.049	1.151	1.004	0.057	0.072	0.018		28.4			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.60	0.15	6505.00	111	68.1	12.0	11.95	Right	0	0.055	1.022	1.004	0.056	0.071	0.018		28.5			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phabot 4.0 W/kg (mW/g) averaged over 10 grams										

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Configuration	Serial Number	Duty Cycle [%]	Power DfR [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (cm ²)]	Adjusted APD [W/m ² (cm ²)]	APD Exposure Rate	Plot #	P1mit [dBm]	Overall P1mit [dBm]	ERS P1mit [dBm]	
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Back	0	1.830	1.151	1.004	2.115	2.686	0.134		19.7			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.6	0.08	6025.00	15	68.1	12.0	11.39	Back	0	2.890	1.151	1.004	3.340	4.242	0.212		17.7			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	3	0548M	99.6	0.01	6345.00	79	68.1	12.0	11.95	Back	0	1.170	1.285	1.004	1.878	2.368	0.109		18.1			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.6	0.08	6345.00	79	68.1	12.0	11.95	Back	0	1.480	1.380	1.004	2.316	2.953	0.147		16.3			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0542M	99.6	0.02	6505.00	111	68.1	12.0	11.95	Back	0	1.790	1.022	1.004	1.819	2.310	0.116		20.4			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.6	0.01	6505.00	111	68.1	12.0	11.95	Back	0	1.430	1.022	1.004	1.643	1.893	0.093		21.1			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.6	0.05	6665.00	143	68.1	12.0	11.27	Back	0	1.360	1.183	1.004	1.497	1.901	0.095		21.2			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.6	0.08	6665.00	143	68.1	12.0	11.27	Back	0	1.050	1.183	1.004	1.247	1.584	0.079		22.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	2	0548M	99.6	0.14	6885.00	207	68.1	12.0	11.96	Back	0	1.410	1.086	1.004	1.927	2.355	0.126		21.1	17.7	11.0	
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	1	0548M	99.6	0.06	6885.00	207	68.1	12.0	11.64	Back	0	1.780	1.086	1.004	1.941	2.465	0.123		20.1			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Front	0	1.050	1.151	1.004	1.733	2.201	0.119		20.6			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.01	6345.00	111	68.1	12.0	11.95	Front	0	1.050	1.022	1.004	1.607	1.955	0.098		20.1			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Top	0	0.824	1.151	1.004	0.952	1.209	0.060		23.2			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.01	6345.00	111	68.1	12.0	11.95	Top	0	1.130	1.022	1.004	1.148	1.458	0.073		22.4			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.01	6025.00	15	68.1	12.0	11.39	Right	0	1.120	1.151	1.004	1.294	1.645	0.081		20.8			
Phabot	6 GHz WiFi / IEEE 802.11aa	160	OFDM	E	N/A	0542M	99.6	0.15	6505.00	111	68.1	12.0	11.95	Right	0	1.290	1.022	1.004	1.311	1.665	0.083		21.8			
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phabot 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.

12.34 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-138 | Plot A64, A65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfR [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Rate (10g SAR)	Plot #	P1mit [dBm]	Overall P1mit [dBm]	ERS P1mit [dBm]
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.12	6025.00	15	136.1	16.0	15.35	16.0	15.44	Right Check	0	0.370	1.163	1.004	0.431	0.548	0.343	Plot	19.6		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.07	6025.00	79	136.1	16.0	15.40	16.0	15.45	Right Check	0	0.368	1.086	1.004	0.422	0.532	0.340		19.7		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.07	6505.00	111	136.1	16.0	15.03	16.0	15.92	Right Check	0	0.278	1.250	1.004	0.349	0.443	0.277		20.3		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.16	6665.00	143	136.1	16.0	15.13	16.0	15.25	Right Check	0	0.243	1.222	1.004	0.298	0.379	0.237		21.2		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.07	6505.00	111	136.1	16.0	15.56	16.0	15.57	Right Check	0	0.459	1.022	1.004	0.366	0.464	0.290		20.1		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.01	6025.00	15	136.1	16.0	15.35	16.0	15.44	Right Tilt	0	0.321	1.163	1.004	0.374	0.475	0.297		20.2		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.04	6885.00	207	136.1	16.0	15.56	16.0	15.52	Right Tilt	0	0.243	1.057	1.004	0.270	0.343	0.214		21.6		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Check	0	0.393	1.163	1.004	0.353	0.449	0.281		20.1		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.01	6885.00	207	136.1	16.0	15.56	16.0	15.52	Left Check	0	0.289	1.057	1.004	0.321	0.408	0.235		20.9		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Tilt	0	0.358	1.163	1.004	0.347	0.441	0.276		20.8		
Head	6 GHz WiFi / IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.08	6885.00	207	136.1	16.0	15.56	16.0	15.52	Left Tilt	0	0.279	1.057	1.004	0.220	0.279	0.174		22.3		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 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 DfR [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (cm ²)]	Adjusted APD [W/m ² (cm ²)]	APD Exposure Rate	Plot #	P1mit [dBm]	Overall P1mit [dBm]	ERS P1mit [dBm]
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.12	6025.00	15	136.1	16.0	15.35	16.0	15.44	Right Check	0	2.100	1.163	1.004	2.716	3.449	0.173		22.6		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0542M	99.63	0.19	6345.00	79	136.1	16.0	15.60	16.0	14.85	Right Check	0	2.000	1.300	1.004	2.682	3.406	0.170		22.7		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.07	6505.00	111	136.1	16.0	15.40	16.0	15.80	Right Check	0	1.700	1.250	1.004	2.134	2.730	0.136		23.7		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.07	6505.00	111	136.1	16.0	15.40	16.0	15.80	Right Check	0	1.700	1.250	1.004	2.134	2.730	0.136		23.7		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.07	6505.00	111	136.1	16.0	15.40	16.0	15.80	Right Check	0	1.700	1.250	1.004	2.134	2.730	0.136		23.7		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.00	6985.00	207	136.1	16.0	15.40	16.0	15.72	Right Check	0	2.000	1.107	1.004	2.312	2.836	0.147		23.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.00	6985.00	207	136.1	16.0	15.40	16.0	15.72	Right Check	0	2.000	1.107	1.004	2.312	2.836	0.147		23.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.00	6985.00	207	136.1	16.0	15.40	16.0	15.72	Right Check	0	2.000	1.107	1.004	2.312	2.836	0.147		23.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Check	0	2.100	1.163	1.004	2.553	3.422	0.162		22.9		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Check	0	2.100	1.163	1.004	2.553	3.422	0.162		22.9		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Check	0	2.100	1.163	1.004	2.553	3.422	0.162		22.9		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6025.00	15	136.1	16.0	15.35	16.0	15.44	Left Check	0	2.100	1.163	1.004	2.553	3.422	0.162		22.9		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40	16.0	15.72	Left Check	0	1.900	1.107	1.004	2.121	2.809	0.140		24.3		
Head	6 GHz WiFi IEEE 802.11aa	160	OFDM	MIMO	0543M	99.63	0.06	6985.00	207	136.1	16.0	15.40														



Table 12-145

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Phablet	2.4 GHz Bluetooth	FHSS	I	0520M	77.10	0.09	2441.00	39	1	19.0	18.56	Back	0	0.168	1.107	1.025	0.191	0.347	0.087		25.3		
Phablet	2.4 GHz Bluetooth	FHSS	I	0520M	77.10	0.15	2441.00	39	1	19.0	18.56	Front	0	0.438	1.107	1.025	0.497	0.924	0.226		25.2		
Phablet	2.4 GHz Bluetooth LE	DSSS	I	0548M	85.10	-0.05	2440.00	19	1	19.0	18.59	Front	0	0.338	1.099	1.022	0.380	0.630	0.158		26.8		
Phablet	2.4 GHz Bluetooth	FHSS	I	0520M	77.10	0.06	2441.00	39	1	19.0	18.56	Top	0	0.004	1.107	1.025	0.005	0.008	0.002		45.6		
Phablet	2.4 GHz Bluetooth	FHSS	I	0520M	77.10	-0.08	2441.00	39	1	19.0	18.56	Right	0	0.120	1.107	1.025	0.136	0.240	0.062		30.8		
Phablet	2.4 GHz Bluetooth	FHSS	I	0520M	77.10	0.02	2441.00	39	1	19.0	18.56	Left	0	0.004	1.107	1.025	0.005	0.008	0.002		45.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Phablet									
Spatial Peak														4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 10 grams									

12.36 2.4 GHz Bluetooth MIMO Standalone SAR

Table 12-146

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO PLimit Ant G [dBm]	MIMO PLimit Ant I [dBm]	EPS MIMO PLimit Ant G [dBm]	EPS MIMO PLimit Ant I [dBm]
Head	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	-0.07	2441.00	39	1	15.0	14.73	14.0	12.88	Right Cheek	0	0.248	1.294	1.025	0.329	1.040	0.650		19.8	18.0		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.02	2441.00	39	1	15.0	14.73	14.0	12.88	Right Tilt	0	0.069	1.294	1.025	0.092	0.289	0.181		25.4	23.5		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.09	2441.00	39	1	15.0	14.73	14.0	12.88	Left Cheek	0	0.181	1.294	1.025	0.243	0.768	0.480		21.1	19.1	19.8	18.0
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	0520M	85.10	0.02	2440.00	19	1	15.5	15.00	13.5	12.71	Left Cheek	0	0.182	1.199	1.018	0.222	0.719	0.449		21.9	19.9		
Head	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	-0.04	2441.00	39	1	15.0	14.73	14.0	12.88	Left Tilt	0	0.089	1.294	1.025	0.118	0.373	0.233		24.1	22.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram												

Note: For Bluetooth BDR, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.0 dBm and Antenna I transmits at a maximum power of 14.0 dBm. For Bluetooth LE, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.5 dBm and Antenna I transmits at a maximum power of 13.5 dBm.

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

Table 12-147

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO PLimit Ant G [dBm]	MIMO PLimit Ant I [dBm]	EPS PLimit Ant G [dBm]	EPS PLimit Ant I [dBm]
Body worn	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	-0.04	2441.00	39	1	15.0	14.73	14.0	12.88	Back	5	0.234	1.294	1.025	0.310	1.040	0.650		20.1	18.2		
Body worn	2.4 GHz Bluetooth LE	DSSS	MIMO	0520M	85.10	0.01	2440.00	19	1	15.5	15.00	13.5	12.71	Back	5	0.210	1.199	1.018	0.256	0.869	0.543		21.3	19.0	20.1	18.2
Body worn	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.10	2441.00	39	1	15.0	14.73	14.0	12.88	Front	5	0.112	1.294	1.025	0.140	0.458	0.311		23.3	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												

Note: For Bluetooth BDR, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.0 dBm and Antenna I transmits at a maximum power of 14.0 dBm. For Bluetooth LE, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.5 dBm and Antenna I transmits at a maximum power of 13.5 dBm.

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

Table 12-148 | Plot A70

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	MIMO PLimit Ant G [dBm]	MIMO PLimit Ant I [dBm]	EPS MIMO PLimit Ant G [dBm]	EPS MIMO PLimit Ant I [dBm]
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.01	2441.00	39	1	15.0	14.73	14.0	12.88	Back	0	0.428	1.294	1.025	0.568	1.902	0.476		21.4	19.6		
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	0548M	85.10	-0.02	2440.00	19	1	15.5	15.00	13.5	12.71	Back	0	0.270	1.199	1.018	0.330	1.117	0.779		24.2	21.9		
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	-0.03	2441.00	39	1	15.0	14.73	14.0	12.88	Front	0	0.206	1.294	1.025	0.313	1.040	0.562		24.0	22.2		
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	-0.10	2441.00	39	1	15.0	14.73	14.0	12.88	Top	0	0.150	1.294	1.025	0.199	0.687	0.167		26.0	24.1		
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.16	2441.00	39	1	15.0	14.73	14.0	12.88	Right	0	0.038	1.294	1.025	0.050	0.189	0.042		32.0	30.1		
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	0520M	77.10	0.01	2441.00	39	1	15.0	14.73	14.0	12.88	Left	0	0.027	1.294	1.025	0.039	0.342	0.086	Plot	30.5	18.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Phablet												
Spatial Peak														4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population																										

Note: For Bluetooth BDR, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.0 dBm and Antenna I transmits at a maximum power of 14.0 dBm. For Bluetooth LE, to achieve the 17.5 dBm maximum allowed MIMO power shown in the documentation, Antenna G transmits at a maximum allowed power of 15.5 dBm and Antenna I transmits at a maximum power of 13.5 dBm.

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

12.37 UWB Standalone SAR

Table 12-149 | Plot A71, A72

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	UWB	CW	H	0829M	1:1	0.01	6489.60	5	Right Cheek	0	0.002	0.001	Plot
Head	UWB	CW	H	0829M	1:1	0.05	7987.20	9	Right Cheek	0	0.001	0.001	
Head	UWB	CW	H	0829M	1:1	0.06	6489.60	5	Right Tilt	0	0.001	0.001	
Head	UWB	CW	H	0829M	1:1	0.07	7987.20	9	Right Tilt	0	0.003	0.002	
Head	UWB	CW	H	0829M	1:1	0.03	6489.60	5	Left Cheek	0	0.002	0.001	
Head	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Left Cheek	0	0.000	0.000	
Head	UWB	CW	H	0829M	1:1	0.08	6489.60	5	Left Tilt	0	0.000	0.000	
Head	UWB	CW	H	0829M	1:1	0.17	7987.20	9	Left Tilt	0	0.001	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Head	UWB	CW	H	0829M	1:1	0.01	6489.60	5	Right Cheek	0	0.018	0.001	Plot
Head	UWB	CW	H	0829M	1:1	0.05	7987.20	9	Right Cheek	0	0.006	0.000	
Head	UWB	CW	H	0829M	1:1	0.06	6489.60	5	Right Tilt	0	0.012	0.001	
Head	UWB	CW	H	0829M	1:1	0.07	7987.20	9	Right Tilt	0	0.004	0.000	
Head	UWB	CW	H	0829M	1:1	0.03	6489.60	5	Left Cheek	0	0.013	0.001	
Head	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Left Cheek	0	0.003	0.000	
Head	UWB	CW	H	0829M	1:1	0.08	6489.60	5	Left Tilt	0	0.002	0.000	
Head	UWB	CW	H	0829M	1:1	0.17	7987.20	9	Left Tilt	0	0.023	0.001	

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager	
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset										Page 149 of 171	

REV 22.0

03/30/2022

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Table 12-150 | Plot A73

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Back	0	0.000	0.000	
Body-worn	UWB	CW	H	0829M	1:1	0.04	7987.20	9	Back	0	0.001	0.001	Plot
Body-worn	UWB	CW	H	0829M	1:1	0.21	6489.60	5	Front	0	0.001	0.001	
Body-worn	UWB	CW	H	0829M	1:1	0.03	7987.20	9	Front	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			
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body-worn	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Back	0	0.012	0.001	
Body-worn	UWB	CW	H	0829M	1:1	0.04	7987.20	9	Back	0	0.021	0.001	Plot
Body-worn	UWB	CW	H	0829M	1:1	0.21	6489.60	5	Front	0	0.019	0.001	
Body-worn	UWB	CW	H	0829M	1:1	0.03	7987.20	9	Front	0	0.008	0.000	

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

Table 12-151 | Plot A74

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.04	7987.20	9	Back	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.21	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.03	7987.20	9	Front	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Top	0	0.001	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.00	7987.20	9	Top	0	0.002	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.01	6489.60	5	Bottom	0	0.001	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Bottom	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.05	6489.60	5	Right	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Right	0	0.002	0.001	Plot
Phablet	UWB	CW	H	0829M	1:1	0.08	6489.60	5	Left	0	0.000	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.05	7987.20	9	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams			
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Phablet	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Back	0	0.012	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.04	7987.20	9	Back	0	0.021	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.21	6489.60	5	Front	0	0.019	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.03	7987.20	9	Front	0	0.008	0.000	
Phablet	UWB	CW	H	0829M	1:1	0.04	6489.60	5	Top	0	0.029	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.00	7987.20	9	Top	0	0.036	0.002	
Phablet	UWB	CW	H	0829M	1:1	0.01	6489.60	5	Bottom	0	0.025	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Bottom	0	0.013	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.05	6489.60	5	Right	0	0.018	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.06	7987.20	9	Right	0	0.046	0.002	Plot
Phablet	UWB	CW	H	0829M	1:1	0.08	6489.60	5	Left	0	0.021	0.001	
Phablet	UWB	CW	H	0829M	1:1	0.05	7987.20	9	Left	0	0.016	0.001	

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 150 of 171

12.38 NFC Standalone SAR

Table 12-152 | Plot A75

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	NFC	B	NFC	0735M	-0.12	13.60	Back	0	0.007	0.002	Plot
Phablet	NFC	B	NFC	0735M	0.06	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	0735M	0.06	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	0735M	0.06	13.60	Bottom	0	0.000	0.000	
Phablet	NFC	B	NFC	0735M	-0.08	13.60	Right	0	0.000	0.000	
Phablet	NFC	B	NFC	0735M	0.02	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

12.39 NTN Band 255 Standalone SAR

Table 12-153 | Plot A76

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Tone	Tone Start	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn	NTN Band 255	QPSK	F	0503M	100.00	-0.03	1636.60	261505	23.0	22.37	1	6	Back	5	1.120	1.156	0.710	0.919	1.167	0.729		25.8		
Body-worn	NTN Band 255	QPSK	F	0503M	100.00	-0.03	1643.50	261074	23.0	22.17	1	6	Back	5	1.180	1.211	0.710	0.905	1.289	0.806	Plot	25.8		
Body-worn	NTN Band 255	QPSK	F	0503M	100.00	-0.05	1643.50	261074	23.0	22.17	1	6	Back	5	1.200	1.233	0.710	0.997	1.266	0.793		25.5	25.4	20.5
Body-worn	NTN Band 255	QPSK	F	0503M	100.00	-0.03	1660.40	261843	23.0	22.18	1	6	Back	5	1.140	1.208	0.710	0.978	1.242	0.776		25.5		
Body-worn	NTN Band 255	QPSK	F	0503M	100.00	-0.10	1626.60	261505	23.0	22.37	1	6	Front	5	0.900	1.156	0.710	0.484	0.615	0.384		30.8		
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

Table 12-154 | Plot A77

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Tone	Tone Start	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.02	1626.60	261505	23.0	22.37	1	6	Back	0	1.640	1.156	0.710	1.346	1.709	0.427		24.2		
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.04	1626.60	261505	23.0	22.37	1	6	Front	0	1.350	1.156	0.710	1.108	1.407	0.352		25.0		
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.03	1626.60	261505	23.0	22.37	1	6	Top	0	3.000	1.156	0.710	2.462	3.127	0.782		21.5		
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.04	1643.50	261674	23.0	22.17	1	6	Top	0	1.180	1.211	0.710	0.768	3.484	0.871	Plot	21.1	21.1	20.5
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.04	1643.50	261674	23.0	22.17	1	6	Top	0	1.211	1.211	0.710	2.683	3.457	0.892		21.2		
Phablet	NTN Band 255	QPSK	F	0503M	100.00	0.00	1660.40	261843	23.0	22.18	1	6	Top	0	2.920	1.208	0.710	2.504	3.180	0.795		21.5		
Phablet	NTN Band 255	QPSK	F	0503M	100.00	-0.03	1626.60	261505	23.0	22.37	1	6	Left	0	0.795	1.156	0.710	0.653	0.829	0.267		27.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

Note: Blue entry represents variability measurement

SAR Test Notes

General Notes:

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 151 of 171

REV 22.0
03/30/2022

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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" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 15 for supplemental data.
12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
13. This device uses Qualcomm Smart Transmit for WWAN/WLAN/BT operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
15. For 6 GHz WLAN Antenna E the device was tested with a top tilt (Configuration 1) and right tilt (Configuration 2) to ensure the most conservative SAR measurement was taken.
16. 6 GHz WLAN MIMO back side testing, the device was tested with a top tilt (Configuration 1), right tilt (Configuration 2), and flat positioning (Configuration 3) to ensure the most conservative SAR measurement was taken

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Per FCC guidance, since the frame average target of GPRS is higher than GSM, GPRS was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

UMTS Notes:

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

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 152 of 171

REV 22.0
03/30/2022

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 B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. For LTE Band 48 per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 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 n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n38, n41, n48 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 153 of 171

REV 22.0
03/30/2022

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

Bluetooth Notes

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

UWB Notes:

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

NTN Notes:

1. Due to equipment limitations, NTN was tested using factory test mode software transmitting CW at 100% duty cycle. The results were scaled down to the maximum duty cycle of 71%, declared by the manufacturer.
2. NTN NB-IoT only supports data transmission, therefore only body-worn and phablet exposure conditions were evaluated.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 154 of 171

REV 22.0
03/30/2022

13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1 | Plot A78

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal p <i>a</i> PD (W/m²)	Scaled Normal p <i>a</i> PD (W/m²)	Total p <i>a</i> PD (W/m²)	Scaled Total p <i>a</i> PD (W/m²)	Plot
6025.00	15	802.11ax	OFDM	160	16.00	15.43	N/A	N/A	-0.03	2	G	0500M	68.1	Front	99.69	0.05	2.620	1.554	1.140	1.003	3.420	6.077	4.110	7.303	
6025.00	15	802.11ax	OFDM	160	12.00	11.94	N/A	N/A	0.13	2	G	0500M	68.1	Back	99.69	0.05	1.180	1.554	1.038	1.003	1.550	2.508	1.660	2.686	
6025.00	15	802.11ax	OFDM	160	12.00	11.94	N/A	N/A	-0.04	2	G	0500M	68.1	Left	99.69	0.05	1.980	1.554	1.038	1.003	3.530	5.711	4.570	7.394	Plot
6025.00	15	802.11ax	OFDM	160	16.00	15.43	N/A	N/A	0.19	9.95	G	0500M	68.1	Front	99.69	0.25	2.570	1.554	1.140	1.003	0.598	1.063	0.660	1.173	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	16.00	15.30	0.21	2	E	0500M	68.1	Front	99.60	0.05	1.140	1.554	1.175	1.004	2.150	3.941	2.420	4.436	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	12.00	11.39	-0.17	2	E	0500M	68.1	Back	99.60	0.05	1.280	1.554	1.151	1.004	1.990	3.574	2.220	3.987	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	16.00	15.30	-0.14	9.95	E	0500M	68.1	Front	99.60	0.25	1.340	1.554	1.175	1.004	0.961	1.028	0.981	1.065	
6345.00	79	802.11ax	OFDM	160	16.00	15.60	16.00	14.85	0.21	2	MMO	0500M	136.1	Front	99.63	0.05	3.330	1.554	1.303	1.004	3.340	6.790	3.940	8.010	
6025.00	15	802.11ax	OFDM	160	12.00	11.62	12.00	11.78	0.21	2	MMO	0500M	136.1	Back	99.63	0.05	2.030	1.554	1.091	1.004	2.430	4.136	2.610	4.443	
6025.00	15	802.11ax	OFDM	160	12.00	11.62	12.00	11.78	-0.09	2	MMO	0500M	136.1	Left	99.63	0.05	2.140	1.554	1.091	1.004	3.530	6.009	4.360	7.456	
6345.00	79	802.11ax	OFDM	160	16.00	15.60	16.00	14.85	0.17	9.45	MMO	0500M	136.1	Front	99.63	0.25	2.950	1.554	1.303	1.004	0.705	1.433	0.718	1.460	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population														Power Density 10 W/m² averaged over 4 cm²											

13.2 UWB Power Density Results

Table 13-2 | Plot A79

MEASUREMENT RESULTS														
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)
7987.20	9	CW	0.15	2	H	0829M	Front	0.067	-	1.554	0.074	0.115	0.089	0.138
7987.20	9	CW	-0.12	2	H	0829M	Right	0.067	-	1.554	0.100	0.155	0.107	0.166
6489.60	5	CW	-0.14	2	H	0829M	Left	0.067	0.486	1.554	0.194	0.301	0.202	0.314
7987.20	9	CW	0.15	2	H	0829M	Back	0.067	-	1.554	0.114	0.177	0.115	0.179
6489.60	5	CW	0.00	9.24	H	0829M	Left	0.125	0.443	1.554	0.185	0.287	0.191	0.297
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

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 155 of 171

REV 22.0
03/30/2022

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.

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 156 of 171

REV 22.0
03/30/2022

14 SAR MEASUREMENT VARIABILITY

14.1 Measurement Variability

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

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

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

Table 14-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
3500	3500.01	633334	NR Band n77 DoD, UL-MIMO, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 135 RB, 138 RB Offset	Right	Tilt	F	0.942	0.908	1.04	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Head						
Spatial Peak							1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population							averaged over 1 gram						

Table 14-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
835	846.50	4233	UMTS 850	RMC	Back	5	E	0.812	0.811	1.00	N/A	N/A	N/A
1640	1643.50	261674	NTN Band 255	QPSK, 1 Tone, 6 Tone Start	Back	5	F	1.180	1.160	1.02	N/A	N/A	N/A
2450	2402.00	0	2.4 GHz Bluetooth	FHSS	Back	5	G	1.050	1.030	1.02	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	CP-OFDM, 1 RB, 1 RB Offset	Back	5	B	0.949	0.837	1.13	N/A	N/A	N/A
3700	3624.99	641666	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 50 RB, 0 RB Offset	Back	5	F	0.974	0.897	1.09	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, UL-MIMO, 100 MHz Bandwidth	CP-OFDM, 1 RB, 1 RB Offset	Back	5	F	0.883	0.809	1.09	N/A	N/A	N/A
5600	5530.00	106	5 GHz WiFi/IEEE 802.11ac	OFDM	Back	5	E	0.818	0.768	1.07	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body						
Spatial Peak							1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population							averaged over 1 gram						

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 157 of 171

REV 22.0
03/30/2022

Table 14-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1640	1643.50	261674	NTN Band 255	QPSK, 1 Tone, 6 Tone Start	Top	0	F	3.190	3.120	1.02	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Phablet							
Spatial Peak							4.0 W/kg (mW/g)							
Uncontrolled Exposure/General Population							averaged over 10 grams							

14.2 Measurement Uncertainty

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 158 of 171

REV 22.0
03/30/2022

15 ADDITIONAL TESTING PER FCC GUIDANCE

15.1 Tuner Testing

Per April 2025 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 12 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

For each band, mode, and exposure condition that supports dynamic antenna tuning, the following procedure was followed to determine the validity of the algorithm.

1. Identify the worst-case position and configuration per band/mode per head or body exposure condition.
2. Run an area scan with the auto-tune feature enabled to determine the peak SAR location.
3. With auto-enabled and ensuring no fluctuation in auto-tune state, run a single point SAR measurement at the peak SAR location.
4. Remotely disable the auto-tune feature and run two subsequent single point SAR measurements on the adjacent tune states; i.e. one state above and one state below the auto-tune state used in step 3.
5. Compare the single point SAR measurements
 - a. If the single point SAR measurements for the adjacent states are lower than the auto-tune state single point SAR measurement, proceed to step 6.
 - b. If the adjacent state single point SAR measurement is higher than the auto-tune state, but within the allowable tolerance, proceed to the next state in the list and run another single point SAR measurement. Repeat until there is a single point SAR measurement less than auto-tune state. Then proceed to step 6
 - c. If any single point SAR measurement is more than 5% higher than the auto-tune single point SAR measurement, the DAT is considered inoperative.
6. Once all additional states are run, without moving the DUT, repeat step 3 for a variability measurement. The variability measurement should be within the allowable tolerance to consider the DAT is functioning properly.

Additional tuner testing notes:

- The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination.
- The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination.
- When the single point SAR is >1.4 W/kg or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all possible tuner states.

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 159 of 171

REV 22.0
03/30/2022

Table 15-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	846.60	Frequency (MHz)	1752.60	Frequency (MHz)	1852.40
Channel	4233	Channel	1513	Channel	9262
Measured 1g SAR (W/kg)	0.111	Measured 1g SAR (W/kg)	0.114	Measured 1g SAR (W/kg)	0.136
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 27)		Auto-tune (State 109)		Auto-tune (State 109)	
State 26	0.026	State 108	0.111	State 108	0.091
State 27	0.105	State 109	0.117	State 109	0.153
State 28	0.088	State 110	0.118	State 110	0.100
Auto-Tune Variability	0.099	State 111	0.115	Auto-Tune Variability	0.150
		Auto-Tune Variability	0.120		

Table 15-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.105	Measured 1g SAR (W/kg)	0.102	Measured 1g SAR (W/kg)	0.107	Measured 1g SAR (W/kg)	0.078
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 117)		Auto-tune (State 27)		Auto-tune (State 130)		Auto-tune (State 137)	
State 116	0.002	State 26	0.015	State 129	0.047	State 136	0.043
State 117	0.114	State 27	0.131	State 130	0.093	State 137	0.094
State 118	0.061	State 28	0.128	State 131	0.049	State 138	0.046
Auto-Tune Variability	0.120	Auto-Tune Variability	0.139	Auto-Tune Variability	0.093	Auto-Tune Variability	0.094

Supplemental Head SAR Data					
LTE B26		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 74 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1882.50
Channel	26865	Channel	132072	Channel	26365
Measured 1g SAR (W/kg)	0.098	Measured 1g SAR (W/kg)	0.131	Measured 1g SAR (W/kg)	0.136
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 137)		Auto-tune (State 99)		Auto-tune (State 99)	
State 136	0.101	State 98	0.013	State 98	0.015
State 137	0.122	State 99	0.155	State 99	0.172
State 138	0.080	State 100	0.098	State 100	0.108
Auto-Tune Variability	0.119	Auto-Tune Variability	0.154	Auto-Tune Variability	0.172

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 160 of 171

Table 15-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data							
NR Band n71		NR Band n12		NR Band n14		NR Band n26	
DFT-s-OFDM QPSK, 35 MHz Bandwidth, 90 RB, 49 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 10 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	158600	Channel	166300
Measured 1g SAR (W/kg)	0.097	Measured 1g SAR (W/kg)	0.102	Measured 1g SAR (W/kg)	0.092	Measured 1g SAR (W/kg)	0.103
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 117)		Auto-tune (State 27)		Auto-tune (State 137)		Auto-tune (State 137)	
State 116	0.001	State 26	0.040	State 136	0.053	State 136	0.086
State 117	0.107	State 27	0.089	State 137	0.103	State 137	0.107
State 118	0.060	State 28	0.085	State 138	0.053	State 138	0.073
Auto-Tune Variability	0.101	Auto-Tune Variability	0.089	Auto-Tune Variability	0.103	Auto-Tune Variability	0.107

Supplemental Head SAR Data					
NR Band n70		NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 45 MHz Bandwidth, 120 RB, 61 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	340500	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.158	Measured 1g SAR (W/kg)	0.168	Measured 1g SAR (W/kg)	0.119
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 99)		Auto-tune (State 108)		Auto-tune (State 99)	
State 98	0.019	State 107	0.116	State 98	0.009
State 99	0.191	State 108	0.147	State 99	0.142
State 100	0.184	State 109	0.146	State 100	0.101
Auto-Tune Variability	0.186	Auto-Tune Variability	0.144	Auto-Tune Variability	0.147

Table 15-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	846.60	Frequency (MHz)	1732.40	Frequency (MHz)	1852.40
Channel	4233	Channel	1412	Channel	9262
Measured 1g SAR (W/kg)	0.639	Measured 1g SAR (W/kg)	0.776	Measured 1g SAR (W/kg)	0.782
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 27)		Auto-tune (State 99)		Auto-tune (State 99)	
State 26	0.182	State 98	0.100	State 98	0.084
State 27	0.688	State 99	1.000	State 99	0.918
State 28	0.606	State 100	0.975	State 100	0.732
Auto-Tune Variability	0.692	Auto-Tune Variability	0.973	Auto-Tune Variability	0.956

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 161 of 171

Table 15-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.511	Measured 1g SAR (W/kg)	0.537	Measured 1g SAR (W/kg)	0.795	Measured 1g SAR (W/kg)	0.794
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 117)		Auto-tune (State 63)		Auto-tune (State 130)		Auto-tune (State 82)	
State 116	0.010	State 62	0.113	State 129	0.474	State 81	0.411
State 117	0.610	State 63	0.655	State 130	0.916	State 82	0.876
State 118	0.307	State 64	0.575	State 131	0.553	State 83	0.807
Auto-Tune Variability	0.612	Auto-Tune Variability	0.569	Auto-Tune Variability	0.916	Auto-Tune Variability	0.921

Supplemental Body SAR Data					
LTE B26		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 74 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset	
Test Position	Back	Test Position	Front	Test Position	Bottom
Spacing	5 mm	Spacing	5 mm	Spacing	10 mm
Frequency (MHz)	831.50	Frequency (MHz)	1745.00	Frequency (MHz)	1860.00
Channel	26865	Channel	132322	Channel	26140
Measured 1g SAR (W/kg)	0.657	Measured 1g SAR (W/kg)	0.767	Measured 1g SAR (W/kg)	0.765
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 120)		Auto-tune (State 109)		Auto-tune (State 112)	
State 119	0.580	State 108	0.886	State 111	0.772
State 120	0.670	State 109	0.891	State 112	0.921
State 121	0.504	State 110	0.879	State 113	0.791
Auto-Tune Variability	0.664	Auto-Tune Variability	0.888	Auto-Tune Variability	0.916

Table 15-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data							
NR Band n71		NR Band n12		NR Band n14		NR Band n26	
DFT-s-OFDM QPSK, 35 MHz Bandwidth, 90 RB, 49 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 10 MHz Bandwidth, 25 RB, 14 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	158600	Channel	166300
Measured 1g SAR (W/kg)	0.446	Measured 1g SAR (W/kg)	0.555	Measured 1g SAR (W/kg)	0.685	Measured 1g SAR (W/kg)	0.632
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 130)		Auto-tune (State 27)		Auto-tune (State 10)		Auto-tune (State 137)	
State 129	0.122	State 26	0.221	State 9	0.368	State 136	0.472
State 130	0.497	State 27	0.526	State 10	0.760	State 137	0.593
State 131	0.283	State 28	0.484	State 11	0.719	State 138	0.430
Auto-Tune Variability	0.466	Auto-Tune Variability	0.528	Auto-Tune Variability	0.776	Auto-Tune Variability	0.594

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 162 of 171

Supplemental Body SAR Data					
NR Band n70		NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 77 RB Offset		DFT-s-OFDM QPSK, 45 MHz Bandwidth, 1 RB, 121 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 0 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	340500	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.781	Measured 1g SAR (W/kg)	0.779	Measured 1g SAR (W/kg)	0.590
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 99)		Auto-tune (State 108)		Auto-tune (State 99)	
State 98	0.097	State 107	0.535	State 98	0.065
State 99	0.821	State 108	0.785	State 99	0.669
State 100	0.814	State 109	0.771	State 100	0.546
Auto-Tune Variability	0.807	Auto-Tune Variability	0.797	Auto-Tune Variability	0.658

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 163 of 171

REV 22.0
03/30/2022

15.2 NTN Duty Cycle Linearity Verification

SAR measurements were performed using FTM continuous wave (CW) mode at 100% duty cycle to represent worst-case conditions, in accordance with FCC KDB 447498 D04.

A scaling factor of 71% was applied to reflect the operational duty cycle declared by the manufacturer. Linearity was verified across multiple power levels, with deviations within 10%, consistent with the FCC TCB Workshop guidance (May 2017).

Table 15-7
Body-worn Linearity verification

Exposure condition	Mode	Modulation	Antenna	SN	FRQ	CH	Tones	Tone Start	Spacing	Exposure condition
Bodyworn	NTN Band 255	CW	Ant F	0503M	1643.5	261674	1	6	5	Back
Power %	Max Allowed Power	Measured Output power	Power Scale Factor	Duty Cycle Scale Factor	Measured SAR	Calculated Measured SAR (Theoretical)	Reported SAR	Scaled SAR from 100% Duty Cycle	Measured SAR vs. Calculated Measured SAR Deviation (%)	Reported SAR vs. Calculated Reported SAR Deviation (%)
100%	23.00	22.17	1.211	1	1.180	1.180	1.429	1.429	0.00%	0.00%
71%	21.51	20.39	1.295	0.71	0.720	0.783	0.932	1.014	8.78%	8.78%
50%	19.99	19.34	1.161	0.5	0.569	0.615	0.661	0.714	8.09%	8.09%

Table 15-8
Phablet Linearity verification

Exposure condition	Mode	Modulation	Antenna	SN	FRQ	CH	Tones	Tone Start	Spacing	Exposure condition
Phablet	NTN Band 255	CW	Ant F	0503M	1643.5	261674	1	6	0	Top
Power %	Max Allowed Power	Measured Output power	Power Scale Factor	Duty Cycle Scale Factor	Measured SAR	Calculated Measured SAR (Theoretical)	Reported SAR	Scaled SAR from 100% Duty Cycle	Measured SAR vs. Calculated Measured SAR Deviation (%)	Reported SAR vs. Calculated Reported SAR Deviation (%)
100%	23.00	22.17	1.211	1	3.190	3.190	3.862	3.862	0.00%	0.00%
71%	21.51	20.39	1.295	0.71	1.930	2.117	2.499	2.742	9.71%	9.71%
50%	19.99	19.34	1.161	0.5	1.540	1.663	1.789	1.931	7.96%	7.96%

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 164 of 171

REV 22.0
03/30/2022

16 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	3051A00187
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	8/1/2025	Annual	8/1/2026	MY47420651
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Rohde & Schwarz	NRP2	Power Meter	5/23/2025	Annual	5/23/2026	103084
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	6/9/2025	Annual	6/9/2026	6201144418
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/14/2025	Annual	3/14/2026	6201381794
Anritsu	MT8000A	Radio Communication Test Station	6/4/2025	Annual	6/4/2026	6261914237
Anritsu	MT8000A	Radio Communication Test Station	11/12/2024	Annual	11/12/2025	6272337405
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	6/26/2025	Annual	6/26/2026	1827529
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316952
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316953
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316970
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	2028
Mini-Circuits	VL6-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VL6-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2025	Annual	1/10/2026	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/27/2024	Biennial	8/27/2026	167085
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	12/10/2024	Annual	12/10/2025	167286
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/6/2025	Annual	1/6/2026	131454
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	7/9/2025	Annual	7/9/2026	166462
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/22/2025	Annual	2/22/2026	168527
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/6/2025	Annual	1/6/2026	150117
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	7/14/2025	Annual	7/14/2026	1039

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 165 of 171

REV 22.0
03/30/2022

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
SPEAG	CLA-13	Confined Loop Antenna	9/4/2024	Annual	9/4/2025	1002
SPEAG	D750V3	750 MHz SAR Dipole	10/7/2024	Annual	10/7/2025	1161
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	4d047
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	4d133
SPEAG	D1640V2	1640 MHz SAR Dipole	12/13/2022	Triennial	10/6/2025	321
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Annual	1/13/2026	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	5d080
SPEAG	D2300V2	2300 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1117
SPEAG	D2300V2	2300 MHz SAR Dipole	8/12/2025	Annual	8/12/2026	1073
SPEAG	D2300V2	2300 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	1008
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Triennial	11/15/2025	797
SPEAG	D2450V2	2450 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	882
SPEAG	D2450V2	2450 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	945
SPEAG	D2600V2	2600 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1009
SPEAG	D2600V2	2600 MHz SAR Dipole	6/6/2025	Annual	6/6/2026	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	12/11/2024	Annual	12/11/2025	1068
SPEAG	D3500V2	3500 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1127
SPEAG	D3500V2	3500 MHz SAR Dipole	1/10/2023	Triennial	1/10/2026	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/13/2023	Triennial	1/13/2026	1067
SPEAG	D3700V2	3700 MHz SAR Dipole	12/11/2024	Annual	12/11/2025	1029
SPEAG	D3700V2	3700 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1096
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2024	Biennial	6/10/2026	1073
SPEAG	D3900V2	3900 MHz SAR Dipole	10/19/2023	Biennial	10/19/2025	1056
SPEAG	D5GHzV2	5 GHz SAR Dipole	6/2/2025	Annual	6/2/2026	1237
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	D8GHzV2	8GHz SAR Dipole	3/6/2025	Annual	3/6/2026	1007
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2025	Annual	1/13/2026	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/11/2025	Annual	2/11/2026	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2025	Annual	5/9/2026	1678
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2025	Annual	1/14/2026	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/5/2025	Annual	2/5/2026	1639
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	11/11/2024	Annual	11/11/2025	7539
SPEAG	EX3DV4	SAR Probe	1/9/2025	Annual	1/9/2026	7565
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7660
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	5/13/2025	Annual	5/13/2026	3914
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7402
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7661
SPEAG	EX3DV4	SAR Probe	1/7/2025	Annual	1/7/2026	7713
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	12/5/2024	Annual	12/5/2025	7410
SPEAG	EX3DV4	SAR Probe	2/12/2025	Annual	2/12/2026	7640
SPEAG	EUmmVW3	EUmmVW3 Probe	1/8/2025	Annual	1/8/2026	9389

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

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 166 of 171

REV 22.0
03/30/2022

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17 MEASUREMENT UNCERTAINTIES

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

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

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 167 of 171

REV 22.0
03/30/2022

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Applicable for Power Density Measurements:

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

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 168 of 171

REV 22.0
03/30/2022

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]

FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 169 of 171

REV 22.0
03/30/2022

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FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 170 of 171

REV 22.0
03/30/2022

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FCC ID: A3LSMS948U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508250078-01.A3L	DUT Type: Portable Handset	Page 171 of 171

REV 22.0
03/30/2022