



ELEMENT MATERIALS TECHNOLOGY, Columbia MD

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RF EXPOSURE TEST REPORT

Applicant Name:

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

Date of Testing:

11/06/2025 – 12/30/2025

Test Site/Location:

Element, Columbia, MD, USA

Document Serial No.:

1M2510280090-01.A3L (R1)

FCC ID:

A3LSMA576U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Application Type:

FCC Rule Part(s):

Model(s):

Portable Handset

Certification

CFR §2.1093

SM-A576U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body/Worn (W/kg)	1g Handset (W/kg)	10g Phantail (W/kg)
PCE	CDMA2000 1X RTT	824.20 - 849.40 MHz	0.14	0.02	0.02	N/A
		1850.20 - 1900.80 MHz	0.10	0.08	0.08	1.02
		2400.00 - 2483.50 MHz	0.02	0.02	0.02	0.03
		5725.00 - 5850.00 MHz	0.02	0.02	0.02	0.03
		5972.50 - 6080.00 MHz	0.02	0.02	0.02	0.03
		6080.00 - 6150.00 MHz	0.02	0.02	0.02	0.03
		6150.00 - 6250.00 MHz	0.02	0.02	0.02	0.03
		6250.00 - 6350.00 MHz	0.02	0.02	0.02	0.03
		6350.00 - 6450.00 MHz	0.02	0.02	0.02	0.03
		6450.00 - 6550.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	2400.00 - 2483.50 MHz	0.02	0.02	0.02	0.03
		5725.00 - 5850.00 MHz	0.02	0.02	0.02	0.03
		5972.50 - 6080.00 MHz	0.02	0.02	0.02	0.03
		6080.00 - 6150.00 MHz	0.02	0.02	0.02	0.03
		6150.00 - 6250.00 MHz	0.02	0.02	0.02	0.03
		6250.00 - 6350.00 MHz	0.02	0.02	0.02	0.03
		6350.00 - 6450.00 MHz	0.02	0.02	0.02	0.03
		6450.00 - 6550.00 MHz	0.02	0.02	0.02	0.03
		6550.00 - 6650.00 MHz	0.02	0.02	0.02	0.03
		6650.00 - 6750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	6750.00 - 6850.00 MHz	0.02	0.02	0.02	0.03
		6850.00 - 6950.00 MHz	0.02	0.02	0.02	0.03
		6950.00 - 7050.00 MHz	0.02	0.02	0.02	0.03
		7050.00 - 7150.00 MHz	0.02	0.02	0.02	0.03
		7150.00 - 7250.00 MHz	0.02	0.02	0.02	0.03
		7250.00 - 7350.00 MHz	0.02	0.02	0.02	0.03
		7350.00 - 7450.00 MHz	0.02	0.02	0.02	0.03
		7450.00 - 7550.00 MHz	0.02	0.02	0.02	0.03
		7550.00 - 7650.00 MHz	0.02	0.02	0.02	0.03
		7650.00 - 7750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	7750.00 - 7850.00 MHz	0.02	0.02	0.02	0.03
		7850.00 - 7950.00 MHz	0.02	0.02	0.02	0.03
		7950.00 - 8050.00 MHz	0.02	0.02	0.02	0.03
		8050.00 - 8150.00 MHz	0.02	0.02	0.02	0.03
		8150.00 - 8250.00 MHz	0.02	0.02	0.02	0.03
		8250.00 - 8350.00 MHz	0.02	0.02	0.02	0.03
		8350.00 - 8450.00 MHz	0.02	0.02	0.02	0.03
		8450.00 - 8550.00 MHz	0.02	0.02	0.02	0.03
		8550.00 - 8650.00 MHz	0.02	0.02	0.02	0.03
		8650.00 - 8750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	8750.00 - 8850.00 MHz	0.02	0.02	0.02	0.03
		8850.00 - 8950.00 MHz	0.02	0.02	0.02	0.03
		8950.00 - 9050.00 MHz	0.02	0.02	0.02	0.03
		9050.00 - 9150.00 MHz	0.02	0.02	0.02	0.03
		9150.00 - 9250.00 MHz	0.02	0.02	0.02	0.03
		9250.00 - 9350.00 MHz	0.02	0.02	0.02	0.03
		9350.00 - 9450.00 MHz	0.02	0.02	0.02	0.03
		9450.00 - 9550.00 MHz	0.02	0.02	0.02	0.03
		9550.00 - 9650.00 MHz	0.02	0.02	0.02	0.03
		9650.00 - 9750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	9750.00 - 9850.00 MHz	0.02	0.02	0.02	0.03
		9850.00 - 9950.00 MHz	0.02	0.02	0.02	0.03
		9950.00 - 10050.00 MHz	0.02	0.02	0.02	0.03
		10050.00 - 10150.00 MHz	0.02	0.02	0.02	0.03
		10150.00 - 10250.00 MHz	0.02	0.02	0.02	0.03
		10250.00 - 10350.00 MHz	0.02	0.02	0.02	0.03
		10350.00 - 10450.00 MHz	0.02	0.02	0.02	0.03
		10450.00 - 10550.00 MHz	0.02	0.02	0.02	0.03
		10550.00 - 10650.00 MHz	0.02	0.02	0.02	0.03
		10650.00 - 10750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	10750.00 - 10850.00 MHz	0.02	0.02	0.02	0.03
		10850.00 - 10950.00 MHz	0.02	0.02	0.02	0.03
		10950.00 - 11050.00 MHz	0.02	0.02	0.02	0.03
		11050.00 - 11150.00 MHz	0.02	0.02	0.02	0.03
		11150.00 - 11250.00 MHz	0.02	0.02	0.02	0.03
		11250.00 - 11350.00 MHz	0.02	0.02	0.02	0.03
		11350.00 - 11450.00 MHz	0.02	0.02	0.02	0.03
		11450.00 - 11550.00 MHz	0.02	0.02	0.02	0.03
		11550.00 - 11650.00 MHz	0.02	0.02	0.02	0.03
		11650.00 - 11750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	11750.00 - 11850.00 MHz	0.02	0.02	0.02	0.03
		11850.00 - 11950.00 MHz	0.02	0.02	0.02	0.03
		11950.00 - 12050.00 MHz	0.02	0.02	0.02	0.03
		12050.00 - 12150.00 MHz	0.02	0.02	0.02	0.03
		12150.00 - 12250.00 MHz	0.02	0.02	0.02	0.03
		12250.00 - 12350.00 MHz	0.02	0.02	0.02	0.03
		12350.00 - 12450.00 MHz	0.02	0.02	0.02	0.03
		12450.00 - 12550.00 MHz	0.02	0.02	0.02	0.03
		12550.00 - 12650.00 MHz	0.02	0.02	0.02	0.03
		12650.00 - 12750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	12750.00 - 12850.00 MHz	0.02	0.02	0.02	0.03
		12850.00 - 12950.00 MHz	0.02	0.02	0.02	0.03
		12950.00 - 13050.00 MHz	0.02	0.02	0.02	0.03
		13050.00 - 13150.00 MHz	0.02	0.02	0.02	0.03
		13150.00 - 13250.00 MHz	0.02	0.02	0.02	0.03
		13250.00 - 13350.00 MHz	0.02	0.02	0.02	0.03
		13350.00 - 13450.00 MHz	0.02	0.02	0.02	0.03
		13450.00 - 13550.00 MHz	0.02	0.02	0.02	0.03
		13550.00 - 13650.00 MHz	0.02	0.02	0.02	0.03
		13650.00 - 13750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	13750.00 - 13850.00 MHz	0.02	0.02	0.02	0.03
		13850.00 - 13950.00 MHz	0.02	0.02	0.02	0.03
		13950.00 - 14050.00 MHz	0.02	0.02	0.02	0.03
		14050.00 - 14150.00 MHz	0.02	0.02	0.02	0.03
		14150.00 - 14250.00 MHz	0.02	0.02	0.02	0.03
		14250.00 - 14350.00 MHz	0.02	0.02	0.02	0.03
		14350.00 - 14450.00 MHz	0.02	0.02	0.02	0.03
		14450.00 - 14550.00 MHz	0.02	0.02	0.02	0.03
		14550.00 - 14650.00 MHz	0.02	0.02	0.02	0.03
		14650.00 - 14750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	14750.00 - 14850.00 MHz	0.02	0.02	0.02	0.03
		14850.00 - 14950.00 MHz	0.02	0.02	0.02	0.03
		14950.00 - 15050.00 MHz	0.02	0.02	0.02	0.03
		15050.00 - 15150.00 MHz	0.02	0.02	0.02	0.03
		15150.00 - 15250.00 MHz	0.02	0.02	0.02	0.03
		15250.00 - 15350.00 MHz	0.02	0.02	0.02	0.03
		15350.00 - 15450.00 MHz	0.02	0.02	0.02	0.03
		15450.00 - 15550.00 MHz	0.02	0.02	0.02	0.03
		15550.00 - 15650.00 MHz	0.02	0.02	0.02	0.03
		15650.00 - 15750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	15750.00 - 15850.00 MHz	0.02	0.02	0.02	0.03
		15850.00 - 15950.00 MHz	0.02	0.02	0.02	0.03
		15950.00 - 16050.00 MHz	0.02	0.02	0.02	0.03
		16050.00 - 16150.00 MHz	0.02	0.02	0.02	0.03
		16150.00 - 16250.00 MHz	0.02	0.02	0.02	0.03
		16250.00 - 16350.00 MHz	0.02	0.02	0.02	0.03
		16350.00 - 16450.00 MHz	0.02	0.02	0.02	0.03
		16450.00 - 16550.00 MHz	0.02	0.02	0.02	0.03
		16550.00 - 16650.00 MHz	0.02	0.02	0.02	0.03
		16650.00 - 16750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	16750.00 - 16850.00 MHz	0.02	0.02	0.02	0.03
		16850.00 - 16950.00 MHz	0.02	0.02	0.02	0.03
		16950.00 - 17050.00 MHz	0.02	0.02	0.02	0.03
		17050.00 - 17150.00 MHz	0.02	0.02	0.02	0.03
		17150.00 - 17250.00 MHz	0.02	0.02	0.02	0.03
		17250.00 - 17350.00 MHz	0.02	0.02	0.02	0.03
		17350.00 - 17450.00 MHz	0.02	0.02	0.02	0.03
		17450.00 - 17550.00 MHz	0.02	0.02	0.02	0.03
		17550.00 - 17650.00 MHz	0.02	0.02	0.02	0.03
		17650.00 - 17750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	17750.00 - 17850.00 MHz	0.02	0.02	0.02	0.03
		17850.00 - 17950.00 MHz	0.02	0.02	0.02	0.03
		17950.00 - 18050.00 MHz	0.02	0.02	0.02	0.03
		18050.00 - 18150.00 MHz	0.02	0.02	0.02	0.03
		18150.00 - 18250.00 MHz	0.02	0.02	0.02	0.03
		18250.00 - 18350.00 MHz	0.02	0.02	0.02	0.03
		18350.00 - 18450.00 MHz	0.02	0.02	0.02	0.03
		18450.00 - 18550.00 MHz	0.02	0.02	0.02	0.03
		18550.00 - 18650.00 MHz	0.02	0.02	0.02	0.03
		18650.00 - 18750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	18750.00 - 18850.00 MHz	0.02	0.02	0.02	0.03
		18850.00 - 18950.00 MHz	0.02	0.02	0.02	0.03
		18950.00 - 19050.00 MHz	0.02	0.02	0.02	0.03
		19050.00 - 19150.00 MHz	0.02	0.02	0.02	0.03
		19150.00 - 19250.00 MHz	0.02	0.02	0.02	0.03
		19250.00 - 19350.00 MHz	0.02	0.02	0.02	0.03
		19350.00 - 19450.00 MHz	0.02	0.02	0.02	0.03
		19450.00 - 19550.00 MHz	0.02	0.02	0.02	0.03
		19550.00 - 19650.00 MHz	0.02	0.02	0.02	0.03
		19650.00 - 19750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	19750.00 - 19850.00 MHz	0.02	0.02	0.02	0.03
		19850.00 - 19950.00 MHz	0.02	0.02	0.02	0.03
		19950.00 - 20050.00 MHz	0.02	0.02	0.02	0.03
		20050.00 - 20150.00 MHz	0.02	0.02	0.02	0.03
		20150.00 - 20250.00 MHz	0.02	0.02	0.02	0.03
		20250.00 - 20350.00 MHz	0.02	0.02	0.02	0.03
		20350.00 - 20450.00 MHz	0.02	0.02	0.02	0.03
		20450.00 - 20550.00 MHz	0.02	0.02	0.02	0.03
		20550.00 - 20650.00 MHz	0.02	0.02	0.02	0.03
		20650.00 - 20750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	20750.00 - 20850.00 MHz	0.02	0.02	0.02	0.03
		20850.00 - 20950.00 MHz	0.02	0.02	0.02	0.03
		20950.00 - 21050.00 MHz	0.02	0.02	0.02	0.03
		21050.00 - 21150.00 MHz	0.02	0.02	0.02	0.03
		21150.00 - 21250.00 MHz	0.02	0.02	0.02	0.03
		21250.00 - 21350.00 MHz	0.02	0.02	0.02	0.03
		21350.00 - 21450.00 MHz	0.02	0.02	0.02	0.03
		21450.00 - 21550.00 MHz	0.02	0.02	0.02	0.03
		21550.00 - 21650.00 MHz	0.02	0.02	0.02	0.03
		21650.00 - 21750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	21750.00 - 21850.00 MHz	0.02	0.02	0.02	0.03
		21850.00 - 21950.00 MHz	0.02	0.02	0.02	0.03
		21950.00 - 22050.00 MHz	0.02	0.02	0.02	0.03
		22050.00 - 22150.00 MHz	0.02	0.02	0.02	0.03
		22150.00 - 22250.00 MHz	0.02	0.02	0.02	0.03
		22250.00 - 22350.00 MHz	0.02	0.02	0.02	0.03
		22350.00 - 22450.00 MHz	0.02	0.02	0.02	0.03
		22450.00 - 22550.00 MHz	0.02	0.02	0.02	0.03
		22550.00 - 22650.00 MHz	0.02	0.02	0.02	0.03
		22650.00 - 22750.00 MHz	0.02	0.02	0.02	0.03
PCE	ISM 2.4G	22750.00 - 22850.00 MHz	0.02	0.02	0.02	0.03
		22850.00 - 22950.00 MHz	0.02	0.02	0.02	0.03
		22950.00 - 23050.00 MHz	0.02	0.02	0.02	0.03
		23050.00 - 23150.00 MHz	0.02	0.02	0.02	0.03
		23150.00 - 23250.00 MHz	0.02	0.02	0.02	0.03
		23250.00 - 23350.00 MHz	0.02	0.02	0.02</	

Revision	Description	Issue Date	Revised by:
-	Initial Release	01/08/2026	WKR0000005818
RevH-R1	Modified Page 1, Tune-up, NR information	01/09/2026	WKR0000005717
RevI-R1	Modified NR information	01/19/2026	WKR0000005717

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1 TEST LABORATORY INFORMATION

1.1 Introduction

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

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

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

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	Suwon: P136, Tower A, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
	Unhak2: 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of Korea Tel. +82.31.660.7391 / Fax +82)31-660-7318
Accreditation Info.	Lab Code. (ISED): 26168
	CAB Identifier (NIST): KR0169
	ISO/IEC 17025 (A2LA): CERT #2041.04
	
Measurement system No.	S1, S2, S3, S4, S5, S6

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

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band 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 n41	Voice/Data	2501.01 - 2685 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
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

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This device incorporates the Samsung S.LSI proprietary TAS (Time-Averaged SAR) feature for 2G, 3G, 4G, 5G, WLAN, and Bluetooth operations. The TAS feature implements a real-time time-averaging algorithm to dynamically control and manage the transmit power, such that the time-averaged RF exposure remains compliant with FCC requirements over the applicable averaging duration. A detailed description of the S.LSI TAS features and compliance framework is provided in the Compliance Summary document (the corresponding report serial number is listed in Section 2.10 – Bibliography).

NFC operation is not subject to TAS control.

The S.LSI TAS algorithm maintains the time-averaged transmit power, and consequently the time-averaged RF exposure, corresponding to the defined SAR design target (SAR_design_target), below a predefined time-averaged power limit (Plimit for sub-6 GHz radios) for each characterized radio access technology and frequency band. The characterization process determines Plimit for each band and operating mode based on the applicable exposure design targets, after accounting for device-specific design uncertainties, where the SAR_design_target is set below the FCC SAR regulatory limit for sub-6 GHz operation. The resulting SAR characterization data are denoted as SAR CHAR in this report and are documented in the RF Exposure Part 0 Test Report (report serial number listed in Section 2.10 – Bibliography).

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

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

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Exposure Scenario Averaging Volume			Maximum Tune-Up Output Power*	Body-Worn, Hotspot or Phablet	Head
				1g/10g	1g
				10mm, 5mm, 0mm	0mm
				0	1
Spacing RSI					
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.1	20.3	32.2
GSM 850	E	AG1	24.8	16.8	16.8
GSM 1900	A	AG0	21.3	17.3	31.6
UMTS 850	A	AG0	24.0	22.0	32.4
UMTS 850	E	AG1	23.5	21.0	21.0
UMTS 1750	A	AG0	23.5	17.0	30.4
UMTS 1900	A	AG0	23.5	18.0	21.0
LTE Band 71	A	AG0	24.0	22.0	31.7
LTE Band 71	E	AG1	23.5	19.0	19.0
LTE Band 12	A	AG0	24.5	22.0	30.7
LTE Band 12	E	AG1	24.0	19.0	19.0
LTE Band 13	A	AG0	24.0	22.0	31.8
LTE Band 13	E	AG1	23.5	19.0	19.0
LTE Band 14	A	AG0	24.0	22.0	35.8
LTE Band 14	E	AG1	23.5	19.0	19.0
LTE Band 26/5	A	AG0	24.0	21.5	31.9
LTE Band 26/5	E	AG1	23.5	19.5	19.5
LTE Band 66/4	A	AG0	23.5	17.0	31.6
LTE Band 66/4	F	AG1	23.0	16.5	16.5
LTE Band 25/2	A	AG0	23.5	17.0	32.7
LTE Band 25/2	F	AG1	23.0	17.5	17.5
LTE Band 30	B	AG0	23.0	18.0	34.8
LTE Band 30	F	AG1	22.5	18.0	18.0
LTE Band 7	B	AG0	23.5	18.0	32.6
LTE Band 7	F	AG1	23.0	16.0	16.0
LTE Band 41/38 PC3	B	AG0	21.0	16.0	32.2
LTE Band 41/38 PC3	F	AG1	21.0	15.0	15.0
LTE Band 48	F	AG1	21.5	15.0	15.0
NR Band n71	A	AG0	24.0	22.0	31.7
NR Band n71	E	AG1	23.5	19.0	19.0
NR Band n5	A	AG0	24.0	22.0	31.0
NR Band n5	E	AG1	23.5	19.0	19.0
NR Band n70	A	AG0	23.5	15.5	27.8
NR Band n70	F	AG1	23.0	16.0	16.0
NR Band n66	A	AG0	23.5	17.0	29.7
NR Band n66	F	AG1	23.0	16.0	16.0
NR Band n25/n2	A	AG0	23.5	15.5	31.2
NR Band n25/n2	F	AG1	23.0	18.0	18.0
NR Band n30	B	AG0	22.5	18.0	32.4
NR Band n30	F	AG1	21.5	18.0	18.0
NR Band n41 PC3	B	AG0	23.5	17.5	31.7
NR Band n41 PC2	B	AG0	25.5	17.5	31.7
NR Band n48 PC3	F	AG1	22.0	13.5	13.5
NR Band n48 PC3	C	AG0	18.5	15.0	15.0
NR Band n48 PC3	I	AG1	19.0	15.0	15.0
NR Band n48 PC3	D	AG0	19.0	11.0	11.0
NR Band n78 PC3	F	AG1	23.5	12.5	12.5
NR Band n78 PC2	F	AG1	26.0	12.5	12.5
NR Band n78 PC2/PC3	C	AG0	21.5	12.0	12.0
NR Band n78 PC2/PC3	I	AG1	22.5	12.0	12.0
NR Band n77 PC2/PC3	D	AG0	21.5	11.0	11.0
2.4 GHz WIFI	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	J	AG1	16.0	14.0	12.0
5 GHz WIFI	G	AG1	16.0	18.9	13.0
5 GHz WIFI MIMO	E	AG1	14.0	14.8	11.0
5 GHz WIFI MIMO	G	AG1	16.0	17.3	13.0
6 GHz WIFI	G	AG1	15.0	9.0	9.0
6 GHz WIFI MIMO	E	AG1	12.5	19.2	14.7
6 GHz WIFI MIMO	G	AG1	15.0	21.7	17.2
2.4 GHz Bluetooth	H	AG1	16.8	21.3	20.6

Notes:

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

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

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2.3 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 RU operations can be found in 802.11ax 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
Pmax	Max Allowed Power	34.0	34.0	32.0	30.5	28.5	28.0	26.0	24.5	23.0
	Nominal	33.0	33.0	31.0	29.5	27.5	27.0	25.0	23.5	22.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	30.5	30.5	27.5	25.7	24.5	28.0	26.0	24.5	23.0
	Nominal	29.5	29.5	26.5	24.7	23.5	27.0	25.0	23.5	22.0
RSI = 1 (Head)	Max Allowed Power	34.0	34.0	32.0	30.5	28.5	28.0	26.0	24.5	23.0
	Nominal	33.0	33.0	31.0	29.5	27.5	27.0	25.0	23.5	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
Pmax	Max Allowed Power	34.0	34.0	32.0	29.0	27.5	27.0	24.0	22.2	21.0
	Nominal	33.0	33.0	31.0	28.0	26.5	26.0	23.0	21.2	20.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	27.0	27.0	24.0	22.2	21.0	27.0	24.0	22.2	21.0
	Nominal	26.0	26.0	23.0	21.2	20.0	26.0	23.0	21.2	20.0
RSI = 1 (Head)	Max Allowed Power	27.0	27.0	24.0	22.2	21.0	27.0	24.0	22.2	21.0
	Nominal	26.0	26.0	23.0	21.2	20.0	26.0	23.0	21.2	20.0
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
Pmax	Max Allowed Power	31.0	31.0	28.5	26.0	25.0	26.0	23.5	22.0	21.0
	Nominal	30.0	30.0	27.5	25.0	24.0	25.0	22.5	21.0	20.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	27.5	27.5	23.5	21.5	20.5	26.0	23.5	22.0	21.0
	Nominal	26.5	26.5	22.5	20.5	19.5	25.0	22.5	21.0	20.0
RSI = 1 (Head)	Max Allowed Power	31.0	31.0	28.5	26.0	25.0	26.0	23.5	22.0	21.0
	Nominal	30.0	30.0	27.5	25.0	24.0	25.0	22.5	21.0	20.0

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

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UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
P _{max}	Max Allowed Power	25.0	24.0	23.0	24.0
	Nominal	24.0	23.0	22.0	23.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	23.0	21.0	19.0	21.0
	Nominal	22.0	20.0	18.0	20.0
RSI = 1 (Head)	Max Allowed Power	25.0	24.0	23.0	24.0
	Nominal	24.0	23.0	22.0	23.0
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
P _{max}	Max Allowed Power	24.5	24.0	23.0	24.0
	Nominal	23.5	23.0	22.0	23.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	22.0	21.0	20.0	21.0
	Nominal	21.0	20.0	19.0	20.0
RSI = 1 (Head)	Max Allowed Power	22.0	21.0	20.0	21.0
	Nominal	21.0	20.0	19.0	20.0
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
P _{max}	Max Allowed Power	24.5	23.0	23.0	23.0
	Nominal	23.5	22.0	22.0	22.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	18.0	17.5	16.5	17.5
	Nominal	17.0	16.5	15.5	16.5
RSI = 1 (Head)	Max Allowed Power	24.5	23.0	23.0	23.0
	Nominal	23.5	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
P _{max}	Max Allowed Power	24.5	23.0	23.0	23.0
	Nominal	23.5	22.0	22.0	22.0
RSI = 0 (Body-Worn, Hotspot or Phablet)	Max Allowed Power	19.0	18.0	16.5	18.0
	Nominal	18.0	17.0	15.5	17.0
RSI = 1 (Head)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	RSI = 0 (Body-Worn, Hotspot or Phablet)	RSI = 1 (Head)
LTE Band 71	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
LTE Band 71	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
LTE Band 12	A	Max Allowed Power	25.5	23.0	25.5
		Nominal	24.5	22.0	24.5
LTE Band 12	E	Max Allowed Power	25.0	20.0	20.0
		Nominal	24.0	19.0	19.0
LTE Band 13	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
LTE Band 13	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
LTE Band 14	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
LTE Band 14	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
LTE Band 26/5	A	Max Allowed Power	25.0	22.5	25.0
		Nominal	24.0	21.5	24.0
LTE Band 26/5	E	Max Allowed Power	24.5	20.5	20.5
		Nominal	23.5	19.5	19.5
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	24.0	17.5	17.5
		Nominal	23.0	16.5	16.5
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	24.0	18.5	18.5
		Nominal	23.0	17.5	17.5
LTE Band 30	B	Max Allowed Power	24.0	19.0	24.0
		Nominal	23.0	18.0	23.0
LTE Band 30	F	Max Allowed Power	23.5	19.0	19.0
		Nominal	22.5	18.0	18.0
LTE Band 7	B	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
LTE Band 7	F	Max Allowed Power	24.0	17.0	17.0
		Nominal	23.0	16.0	16.0
LTE Band 41/38 PC3	B	Max Allowed Power	24.0	19.0	24.0
		Nominal	23.0	18.0	23.0
LTE Band 41/38 PC3	F	Max Allowed Power	24.0	18.0	18.0
		Nominal	23.0	17.0	17.0
LTE Band 48	F	Max Allowed Power	24.5	18.0	18.0
		Nominal	23.5	17.0	17.0

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	RSI = 0 (Body-Worn, Hotspot or Phablet)	RSI = 1 (Head)
NR Band n71	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
NR Band n71	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
NR Band n5	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
NR Band n5	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
NR Band n70	A	Max Allowed Power	24.5	16.5	24.5
		Nominal	23.5	15.5	23.5
NR Band n70	F	Max Allowed Power	24.0	17.0	17.0
		Nominal	23.0	16.0	16.0
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	24.0	17.0	17.0
		Nominal	23.0	16.0	16.0
NR Band n25/n2	A	Max Allowed Power	24.5	16.5	24.5
		Nominal	23.5	15.5	23.5
NR Band n25/n2	F	Max Allowed Power	24.0	19.0	19.0
		Nominal	23.0	18.0	18.0
NR Band n30	B	Max Allowed Power	23.5	19.0	23.5
		Nominal	22.5	18.0	22.5
NR Band n30	F	Max Allowed Power	22.5	19.0	19.0
		Nominal	21.5	18.0	18.0
NR Band n41 PC3	B	Max Allowed Power	24.5	18.5	24.5
		Nominal	23.5	17.5	23.5
NR Band n41 PC2	B	Max Allowed Power	26.5	18.5	26.5
		Nominal	25.5	17.5	25.5
NR Band n48 PC3	F	Max Allowed Power	23.0	14.5	14.5
		Nominal	22.0	13.5	13.5
NR Band n48 PC3	C	Max Allowed Power	19.5	16.0	16.0
		Nominal	18.5	15.0	15.0
NR Band n48 PC3	I	Max Allowed Power	20.0	16.0	16.0
		Nominal	19.0	15.0	15.0
NR Band n48 PC3	D	Max Allowed Power	20.0	12.0	12.0
		Nominal	19.0	11.0	11.0
NR Band n78 PC3	F	Max Allowed Power	24.5	13.5	13.5
		Nominal	23.5	12.5	12.5
NR Band n78 PC2	F	Max Allowed Power	27.0	13.5	13.5
		Nominal	26.0	12.5	12.5
NR Band n78 PC2/PC3	C	Max Allowed Power	22.5	13.0	13.0
		Nominal	21.5	12.0	12.0
NR Band n78 PC2/PC3	I	Max Allowed Power	23.5	13.0	13.0
		Nominal	22.5	12.0	12.0
NR Band n78 PC2/PC3	D	Max Allowed Power	22.5	12.0	12.0
		Nominal	21.5	11.0	11.0
NR Band n77 PC3	F	Max Allowed Power	24.5	13.5	13.5
		Nominal	23.5	12.5	12.5
NR Band n77 PC2	F	Max Allowed Power	27.0	13.5	13.5
		Nominal	26.0	12.5	12.5
NR Band n77 PC2/PC3	C	Max Allowed Power	22.5	13.0	13.0
		Nominal	21.5	12.0	12.0
NR Band n77 PC2/PC3	I	Max Allowed Power	23.5	13.0	13.0
		Nominal	22.5	12.0	12.0
NR Band n77 PC2/PC3	D	Max Allowed Power	22.5	12.0	12.0
		Nominal	21.5	11.0	11.0

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

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2.3.2 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO Antenna H								SISO in MIMO Antenna H								SISO in MIMO Antenna J			
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	16.0	15.0
	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	13.5	12.5	ch. 11	13.5

The below table is applicable in the following conditions:

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

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO Antenna H								SISO in MIMO Antenna H								SISO in MIMO Antenna J			
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0
	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	15.5	14.5	ch. 11	13.5	12.5	ch. 11	13.5

The below table is applicable in the following conditions:

- RSI = 1 (Head)

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO Antenna H								SISO in MIMO Antenna H								SISO in MIMO Antenna J			
	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
2.4 GHz WLAN	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	13.0	12.0	13.0	12.0
	ch. 11	13.5	12.5	ch. 11	13.5	12.5	ch. 11	13.5	12.5	ch. 11	13.5	12.5	ch. 11	13.5	12.5	ch. 11	11.5	10.5	ch. 11	11.5

2.3.3 5 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

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

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																							
		SISO								SISO in MIMO								SISO in MIMO							
		Antenna G								Antenna E								Antenna G							
	n		n		m		m (SISO)		n		n		m		m (SISO)		n (SISO + SFRS, SFRM)		n (SISO + SFRS, SFRM)		m (SISO + SFRS, SFRM)		m (SISO + SFRS, SFRM)		
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
5 GHz WIFI (20MHz BW)	UNII-1	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-2A	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
		ch. 64	16.0	15.0	ch. 64	15.5	14.5	ch. 64	15.5	14.5	ch. 64	15.5	14.5	ch. 64	14.0	13.0	ch. 64	14.0	13.0	ch. 64	16.0	15.0	ch. 64	15.5	14.5
	UNII-2C	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-3	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
5 GHz WIFI (40MHz BW)	UNII-4	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-1	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
		ch. 38	12.5	11.5	ch. 38	12.5	11.5	ch. 38	12.5	11.5	ch. 38	11.0	10.0	ch. 38	11.0	10.0	ch. 38	12.5	11.5	ch. 38	12.5	11.5	ch. 38	12.5	11.5
	UNII-2A	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C	ch. 62	13.5	12.5	ch. 62	13.5	12.5	ch. 62	13.5	12.5	ch. 62	12.0	11.0	ch. 62	12.0	11.0	ch. 62	13.5	12.5	ch. 62	13.5	12.5	ch. 62	13.5	12.5
5 GHz WIFI (80MHz BW)	UNII-3	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2A	ch. 102	15.0	14.0	ch. 102	15.0	14.0	ch. 102	15.0	14.0	ch. 102	13.0	12.0	ch. 102	13.0	12.0	ch. 102	15.0	14.0	ch. 102	15.0	14.0	ch. 102	15.0	14.0
		16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-1					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5
5 GHz WIFI (160MHz BW)	UNII-2A					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5
	UNII-2C					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5
														10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5
	UNII-3					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5
	UNII-4					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5

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The below table is applicable in the following conditions:

- RSI = 1 (Head)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																							
		SISO Antenna G								SISO in MIMO Antenna E								SISO in MIMO Antenna G							
		a		n		ax (SU)		ax (SU)		a		n		ax (SU)		ax (SU)		a (E2D + STBC, SGM)		n (E2D + STBC, SGM)		ax (SU) (E2D + STBC, SGM)		ax (SU) (E2D + STBC, SGM)	
		Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.		
5 GHz WiFi (20MHz BW)	UNII-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-4	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WiFi (40MHz BW)	UNII-1			14.0	13.0	14.0	13.0	14.0	13.0			12.0	11.0	12.0	11.0	12.0	11.0			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A	ch. 36: 12.5		11.5	ch. 38: 12.5	11.5	ch. 38: 12.5	11.5	ch. 38: 11.0		10.0	ch. 38: 11.0	10.0	ch. 38: 11.0		10.0	ch. 38: 12.5		11.5	ch. 38: 12.5	11.5	ch. 38: 12.5	11.5	ch. 38: 12.5	11.5
	UNII-2C	ch. 62: 13.5		12.5	ch. 62: 13.5	12.5	ch. 62: 13.5	12.5	12.0		11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0		13.0	14.0	13.0	14.0	13.0	
	UNII-3	14.0		13.0	14.0	13.0	14.0	13.0	12.0		11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0		13.0	14.0	13.0	14.0	13.0	
	UNII-4	14.0		13.0	14.0	13.0	14.0	13.0	12.0		11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0		13.0	14.0	13.0	14.0	13.0	
5 GHz WiFi (80MHz BW)	UNII-1			12.5	11.5	12.5	11.5			10.5	9.5	10.5	9.5			12.5	11.5	12.5	11.5			12.5	11.5	12.5	11.5
	UNII-2A			12.5	11.5	12.5	11.5			10.5	9.5	10.5	9.5			12.5	11.5	12.5	11.5			12.5	11.5	12.5	11.5
	UNII-2C			12.5	11.5	12.5	11.5			10.5	9.5	10.5	9.5			12.5	11.5	12.5	11.5			12.5	11.5	12.5	11.5
	UNII-3			12.5	11.5	12.5	11.5			10.5	9.5	10.5	9.5			12.5	11.5	12.5	11.5			12.5	11.5	12.5	11.5
	UNII-4			12.5	11.5	12.5	11.5			10.5	9.5	10.5	9.5			12.5	11.5	12.5	11.5			12.5	11.5	12.5	11.5

2.3.4 6 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

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

Power Level	Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
			SISO				SISO in MIMO				SISO in MIMO			
			Antenna G				Antenna E				Antenna G			
			a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power			Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
Pmax	6 GHz WiFi (20MHz BW) - LPI	UNII-5	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
		UNII-6	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
		UNII-7	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
		UNII-8	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
	6 GHz WiFi (40MHz BW) - LPI	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-6			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-7			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-8			10.0	9.0			7.0	6.0			10.0	9.0
	6 GHz WiFi (80MHz BW) - LPI	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-6			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-7			10.0	9.0			7.0	6.0			10.0	9.0
		UNII-8			10.0	9.0			7.0	6.0			10.0	9.0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO				SISO in MIMO				SISO in MIMO			
		Antenna G				Antenna E				Antenna G			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max		Nom.		Max		Nom.		Max		Nom.	
6 GHz WiFi (20MHz BW) - SP	UNII-5	16.0 ch. 2: 10.0	15.0 9.0	16.0 ch. 2: 10.0	15.0 9.0	13.5 ch. 2: 7.0	12.5 6.0	13.5 ch. 2: 7.0	12.5 6.0	16.0 ch. 2: 10.0	15.0 9.0	16.0 ch. 2: 10.0	15.0 9.0
	UNII-7	16.0	15.0	16.0	15.0	13.5	12.5	13.5	12.5	16.0	15.0	16.0	15.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			13.0	12.0			10.0	9.0			13.0	12.0
	UNII-7			13.0	12.0			10.0	9.0			13.0	12.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			11.5	10.5			9.0	8.0			11.5	10.5
	UNII-7			11.5	10.5			9.0	8.0			11.5	10.5

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

2.3.5 2.4 GHz Bluetooth Maximum Output Power

The below table is applicable in the following conditions:

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

Mode	Data Rate	Modulated Output Power (in dBm)	
		Single Antenna	
		Antenna H	
Maximum / Nominal Power		Max	Nom.
Bluetooth	1Mbps	18.5	17.5
Bluetooth EDR	2Mbps	13.5	12.5
Bluetooth EDR	3Mbps	13.5	12.5
Bluetooth LE	1Mbps	18.5	17.5
Bluetooth LE	2Mbps	18.5	17.5
Bluetooth LE	125kbps	13.0	12.0
Bluetooth LE	500kbps	13.0	12.0

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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	Yes	No	No	Yes
I	Yes	Yes	No	No	No	Yes
J	Yes	Yes	Yes	No	Yes	No
MIMO	Yes	Yes	Yes	No	Yes	Yes

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

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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.

**Table 2-2
Simultaneous Transmission Scenarios**

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

- No other simultaneous scenarios besides described above is supported for this model.
- 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.
- 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.
- 5 GHz Wireless Router is only supported for UNII-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.

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5. 6 GHz Wireless Router is only supported for VLP, therefore SP and LPI were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax/be. 802.11a/b/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering.
9. This device supports VoLTE.
10. This device supports VoNR.
11. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
12. NFC was evaluated for phablet based on expected usage conditions.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

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

This device supports IEEE 802.11ax with the following features:

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

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-1, U-NII-3, and 6 GHz VLP WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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

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

(B) Licensed Transmitter(s)

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

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

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

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

This device 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.

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

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

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

2.9 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.

2.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1M2510280090-03.A3L
RF Exposure Compliance Summary Report	1M2510280090-04.A3L
RF Exposure Part 0 Test Report	1M2510280090-02.A3L

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3 LTE AND NR INFORMATION

LTE Information				
Form Factor	Portable Handset			
Frequency Range of each LTE transmission band	LTE Band 71: 665.5 - 695.5 MHz			
	LTE Band 12: 699.7 - 715.3 MHz			
	LTE Band 13: 778.5 - 784.5 MHz			
	LTE Band 14: 790.5 - 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 - 2587.5 MHz			
	LTE Band 41: 2498.5 - 2687.5 MHz			
	LTE Band 38: 2572.5 - 2617.5 MHz			
	LTE Band 48: 3552.5 - 3697.5 MHz			
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 13: 5 MHz, 10 MHz			
	LTE Band 14: 5 MHz, 10 MHz			
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz			
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 30: 5 MHz, 10 MHz			
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid-High	High
	665.5 (133147)	680.5 (133297)	695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)	707.5 (23095)	711 (23130)	
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	(N/A)	782 (23230)	(N/A)	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	(N/A)	793 (23330)	(N/A)	
LTE Band 26: 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)	
LTE Band 26: 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)	
LTE Band 26: 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	
LTE Band 26: 10 MHz	819 (26740)	831.5 (26865)	844 (26960)	
LTE Band 26: 15 MHz	821.5 (26765)	831.5 (26865)	841.5 (26965)	
LTE Band 5: 1.4 MHz	824.7 (26407)	836.5 (26525)	848.3 (26643)	
LTE Band 5: 3 MHz	825.5 (26415)	836.5 (26525)	847.5 (26635)	
LTE Band 5: 5 MHz	826.5 (26425)	836.5 (26525)	846.5 (26625)	
LTE Band 5: 10 MHz	829 (26450)	836.5 (26525)	844 (26600)	
LTE Band 66: 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)	
LTE Band 66: 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	
LTE Band 66: 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	
LTE Band 66: 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	
LTE Band 66: 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	
LTE Band 66: 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	
LTE Band 4: 1.4 MHz	1710.7 (19857)	1732.5 (20175)	1754.3 (20393)	
LTE Band 4: 3 MHz	1711.5 (19865)	1732.5 (20175)	1753.5 (20385)	
LTE Band 4: 5 MHz	1712.5 (19875)	1732.5 (20175)	1752.5 (20375)	
LTE Band 4: 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	
LTE Band 4: 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	
LTE Band 4: 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	
LTE Band 25: 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	
LTE Band 25: 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	
LTE Band 25: 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	
LTE Band 25: 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	
LTE Band 25: 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	
LTE Band 25: 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	
LTE Band 2: 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)	
LTE Band 2: 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)	
LTE Band 2: 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)	
LTE Band 2: 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)	
LTE Band 2: 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)	
LTE Band 2: 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)	
LTE Band 30: 10 MHz	(N/A)	2310 (27710)	(N/A)	
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)	
LTE Band 41: 5 MHz	2506 (39750)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 38: 5 MHz	2572.5 (37775)	2595 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)	2595 (38000)	2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)	2595 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)	2595 (38000)	2610 (38150)	
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	(N/A)	3649.2 (56232)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	(N/A)	3648.3 (56223)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	(N/A)	3647.5 (56215)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(N/A)	3646.7 (56207)
UE Category	UL UE Cat 18, DL UE Cat 18			
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM			
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.2.3-6.2.5? (manufacturer attestation to be provided)	YES			
A-MPR (Additional MPR) disabled for SAR Testing?	YES			
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO features. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HeNet, Enhanced MIMO, eCIC, eMMS, Writ Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.			

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Form Factor	NR Information	Portable Handset
Frequency Range of each NR transmission band		NR Band n7: 665.5 - 666.5 MHz NR Band n8: 628.5 - 666.5 MHz NR Band n70: 666.5 - 1707.5 MHz NR Band n66: 1712.5 - 1777.5 MHz NR Band n25: 1852.5 - 1912.5 MHz NR Band n2: 1852.5 - 1907.5 MHz NR Band n20: 2307.5 - 2312.5 MHz NR Band n1: 2501.0 - 2688 MHz NR Band n86: 3505 - 3694.98 MHz NR Band n78: 3455.01 - 3544.98 MHz; 3705 - 3795 MHz NR Band n76: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz NR Band n77: 3455.01 - 3544.98 MHz NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band n70: 5 MHz, 10 MHz, 15 MHz NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n2: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n20: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n1: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n76: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n78: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
Channel Bandwidths		NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n2: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n20: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz NR Band n1: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n76: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n77: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz NR Band n78: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz
Channel Numbers and Frequencies (MHz)		NR Band n7: 5 MHz NR Band n7: 10 MHz NR Band n7: 15 MHz NR Band n7: 20 MHz NR Band n7: 25 MHz NR Band n2: 5 MHz NR Band n2: 10 MHz NR Band n2: 15 MHz NR Band n2: 20 MHz NR Band n2: 25 MHz NR Band n20: 5 MHz NR Band n20: 10 MHz NR Band n20: 15 MHz NR Band n20: 20 MHz NR Band n20: 25 MHz NR Band n20: 30 MHz NR Band n20: 40 MHz NR Band n1: 5 MHz NR Band n1: 10 MHz NR Band n1: 15 MHz NR Band n1: 20 MHz NR Band n1: 25 MHz NR Band n1: 30 MHz NR Band n1: 40 MHz NR Band n1: 50 MHz NR Band n1: 60 MHz NR Band n1: 70 MHz NR Band n1: 80 MHz NR Band n1: 90 MHz NR Band n1: 100 MHz NR Band n76: DoD: 10 MHz NR Band n77: DoD: 15 MHz NR Band n77: DoD: 20 MHz NR Band n77: DoD: 25 MHz NR Band n77: DoD: 30 MHz NR Band n77: DoD: 40 MHz NR Band n77: DoD: 50 MHz NR Band n77: DoD: 60 MHz NR Band n77: DoD: 70 MHz NR Band n77: DoD: 80 MHz NR Band n77: DoD: 90 MHz NR Band n77: DoD: 100 MHz NR Band n71: 10 MHz NR Band n71: 15 MHz NR Band n71: 20 MHz NR Band n71: 25 MHz NR Band n71: 30 MHz NR Band n71: 40 MHz NR Band n71: 50 MHz NR Band n71: 60 MHz NR Band n71: 70 MHz NR Band n71: 80 MHz NR Band n71: 90 MHz NR Band n71: 100 MHz NR Band n71: DoD: 10 MHz NR Band n71: DoD: 15 MHz NR Band n71: DoD: 20 MHz NR Band n71: DoD: 25 MHz NR Band n71: DoD: 30 MHz NR Band n71: DoD: 40 MHz NR Band n71: DoD: 50 MHz NR Band n71: DoD: 60 MHz NR Band n71: DoD: 70 MHz NR Band n71: DoD: 80 MHz NR Band n71: DoD: 90 MHz NR Band n71: DoD: 100 MHz NR Band n71: DoD: 110 MHz NR Band n71: DoD: 120 MHz NR Band n71: DoD: 130 MHz NR Band n71: DoD: 140 MHz NR Band n71: DoD: 150 MHz NR Band n71: DoD: 160 MHz NR Band n71: DoD: 170 MHz NR Band n71: DoD: 180 MHz NR Band n71: DoD: 190 MHz NR Band n71: DoD: 200 MHz NR Band n71: DoD: 210 MHz NR Band n71: DoD: 220 MHz NR Band n71: DoD: 230 MHz NR Band n71: DoD: 240 MHz NR Band n71: DoD: 250 MHz NR Band n71: DoD: 260 MHz NR Band n71: DoD: 270 MHz NR Band n71: DoD: 280 MHz NR Band n71: DoD: 290 MHz NR Band n71: DoD: 300 MHz NR Band n71: DoD: 310 MHz NR Band n71: DoD: 320 MHz NR Band n71: DoD: 330 MHz NR Band n71: DoD: 340 MHz NR Band n71: DoD: 350 MHz NR Band n71: DoD: 360 MHz NR Band n71: DoD: 370 MHz NR Band n71: DoD: 380 MHz NR Band n71: DoD: 390 MHz NR Band n71: DoD: 400 MHz NR Band n71: DoD: 410 MHz NR Band n71: DoD: 420 MHz NR Band n71: DoD: 430 MHz NR Band n71: DoD: 440 MHz NR Band n71: DoD: 450 MHz NR Band n71: DoD: 460 MHz NR Band n71: DoD: 470 MHz NR Band n71: DoD: 480 MHz NR Band n71: DoD: 490 MHz NR Band n71: DoD: 500 MHz NR Band n71: DoD: 510 MHz NR Band n71: DoD: 520 MHz NR Band n71: DoD: 530 MHz NR Band n71: DoD: 540 MHz NR Band n71: DoD: 550 MHz NR Band n71: DoD: 560 MHz NR Band n71: DoD: 570 MHz NR Band n71: DoD: 580 MHz NR Band n71: DoD: 590 MHz NR Band n71: DoD: 600 MHz NR Band n71: DoD: 610 MHz NR Band n71: DoD: 620 MHz NR Band n71: DoD: 630 MHz NR Band n71: DoD: 640 MHz NR Band n71: DoD: 650 MHz NR Band n71: DoD: 660 MHz NR Band n71: DoD: 670 MHz NR Band n71: DoD: 680 MHz NR Band n71: DoD: 690 MHz NR Band n71: DoD: 700 MHz NR Band n71: DoD: 710 MHz NR Band n71: DoD: 720 MHz NR Band n71: DoD: 730 MHz NR Band n71: DoD: 740 MHz NR Band n71: DoD: 750 MHz NR Band n71: DoD: 760 MHz NR Band n71: DoD: 770 MHz NR Band n71: DoD: 780 MHz NR Band n71: DoD: 790 MHz NR Band n71: DoD: 800 MHz NR Band n71: DoD: 810 MHz NR Band n71: DoD: 820 MHz NR Band n71: DoD: 830 MHz NR Band n71: DoD: 840 MHz NR Band n71: DoD: 850 MHz NR Band n71: DoD: 860 MHz NR Band n71: DoD: 870 MHz NR Band n71: DoD: 880 MHz NR Band n71: DoD: 890 MHz NR Band n71: DoD: 900 MHz NR Band n71: DoD: 910 MHz NR Band n71: DoD: 920 MHz NR Band n71: DoD: 930 MHz NR Band n71: DoD: 940 MHz NR Band n71: DoD: 950 MHz NR Band n71: DoD: 960 MHz NR Band n71: DoD: 970 MHz NR Band n71: DoD: 980 MHz NR Band n71: DoD: 990 MHz NR Band n71: DoD: 1000 MHz NR Band n71: DoD: 1010 MHz NR Band n71: DoD: 102

4 INTRODUCTION

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

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

4.1 SAR Definition

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

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

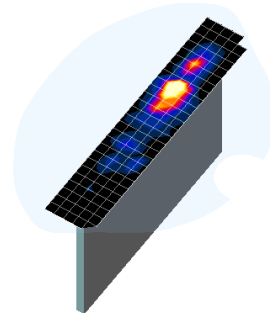


Figure 5-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

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

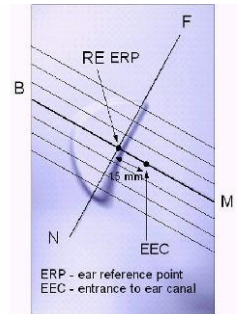


Figure 6-1
Close-Up Side view
of ERP

6.2 HANDSET REFERENCE POINTS

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



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

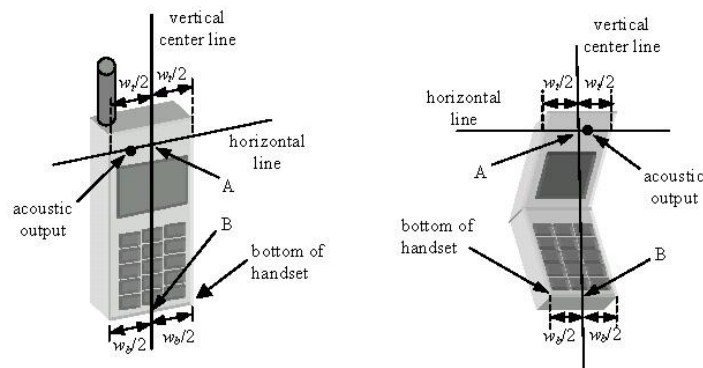


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 Device Holder

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

7.2 Positioning for Cheek

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

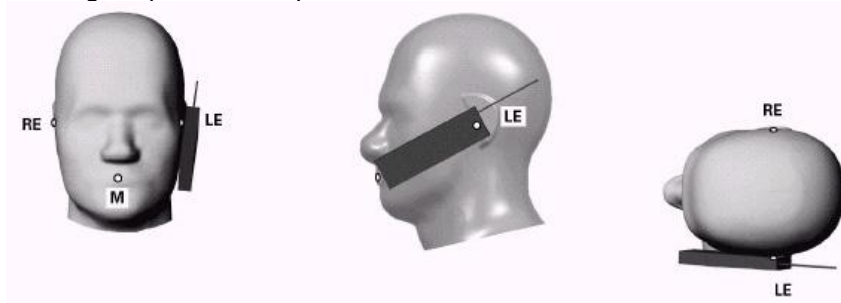


Figure 7-1 Front, Side and Top View of Cheek Position

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

7.3 Positioning for Ear / 15° Tilt

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

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

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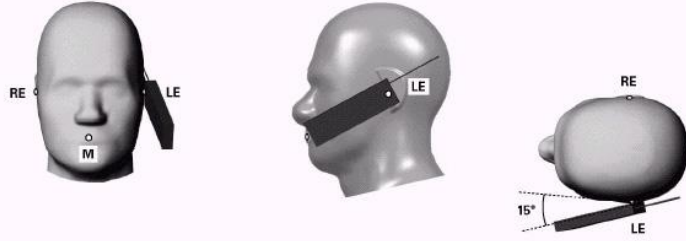


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

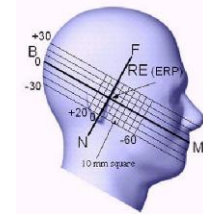


Figure 7-3 Side view w/ relevant markings

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

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

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

7.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 7-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

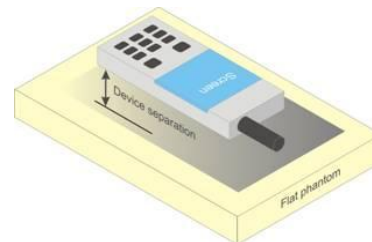


Figure 7-4 Sample Body-Worn Diagram

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

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

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

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

7.6 Extremity Exposure Configurations

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

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

7.7 Wireless Router Configurations

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

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

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7.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

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8 RF EXPOSURE LIMITS

8.1 Uncontrolled Environment

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

8.2 Controlled Environment

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

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

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

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

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8.3 RF Exposure Limits for Frequencies above 6 GHz

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

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

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9 FCC MEASUREMENT PROCEDURES

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

9.1 Measured and Reported SAR

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

9.2 3G SAR Test Reduction Procedure

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

9.3 Procedures Used to Establish RF Signal for SAR

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

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

9.4 SAR Measurement Conditions for UMTS

9.4.1 Output Power Verification

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

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9.4.2 Head SAR Measurements

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

9.4.3 Body SAR Measurements

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

9.4.4 SAR Measurements with Rel 5 HSDPA

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

9.4.5 SAR Measurements with Rel 6 HSUPA

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

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

9.4.6 SAR Measurement Conditions for DC-HSDPA

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

9.5 SAR Measurement Conditions for LTE

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

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9.5.1 Spectrum Plots for RB Configurations

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

9.5.2 MPR

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

9.5.3 A-MPR

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

9.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

9.5.5 TDD

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

9.5.6 Downlink Only Carrier Aggregation

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

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

9.6 SAR Testing with 802.11 Transmitters

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

9.6.1 General Device Setup

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

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

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

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

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

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

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9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.5 2.4 GHz SAR Test Requirements

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

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

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

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

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

9.6.7 Initial Test Configuration Procedure

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

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When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.8 Subsequent Test Configuration Procedures

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

9.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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10 RF CONDUCTED POWERS

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

10.1 GSM Conducted Powers

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.09	29.19	27.13	25.06	23.66	27.21	24.76	23.17	21.84
	190	29.26	29.37	27.31	25.23	23.96	27.47	25.13	23.39	22.22
	251	29.22	29.46	27.24	25.12	24.04	27.47	25.11	23.48	22.28
GSM 1900	512	26.03	26.43	22.58	20.56	19.71	24.93	22.11	21.49	19.74
	661	26.08	26.44	22.22	20.28	19.46	24.95	21.91	21.29	19.76
	810	26.52	26.90	22.42	20.72	19.91	25.63	22.34	21.71	20.00
Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	19.89	19.99	20.94	20.63	20.48	18.01	18.57	18.74	18.66
	190	20.06	20.17	21.12	20.80	20.78	18.27	18.94	18.96	19.04
	251	20.02	20.26	21.05	20.69	20.86	18.27	18.92	19.05	19.10
GSM 1900	512	16.83	17.23	16.39	16.13	16.53	15.73	15.92	17.06	16.56
	661	16.88	17.24	16.03	15.85	16.28	15.75	15.72	16.86	16.58
	810	17.32	17.70	16.23	16.29	16.73	16.43	16.15	17.28	16.82
GSM 850	Frame	20.30	20.30	20.31	20.27	20.32	17.80	18.81	19.07	18.82
GSM 1900	Avg.Targets:	17.30	17.30	16.31	16.07	16.32	15.80	16.31	16.57	16.82

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	33.44	33.40	31.49	28.51	27.24	27.21	24.76	23.17	21.84
	190	33.56	33.48	31.55	28.54	27.41	27.47	25.13	23.39	22.22
	251	33.48	33.36	31.56	28.53	27.49	27.47	25.11	23.48	22.28
GSM 1900	512	29.60	29.67	26.72	25.18	23.92	24.93	22.11	21.49	19.74
	661	29.87	29.01	26.69	25.09	23.81	24.95	21.91	21.29	19.76
	810	30.20	29.27	27.02	25.42	24.12	25.63	22.34	21.71	20.00
Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	24.24	24.20	25.30	24.08	24.06	18.01	18.57	18.74	18.66
	190	24.36	24.28	25.36	24.11	24.23	18.27	18.94	18.96	19.04
	251	24.28	24.16	25.37	24.10	24.31	18.27	18.92	19.05	19.10
GSM 1900	512	20.40	20.47	20.53	20.75	20.74	15.73	15.92	17.06	16.56
	661	20.67	19.81	20.50	20.66	20.63	15.75	15.72	16.86	16.58
	810	21.00	20.07	20.83	20.99	20.94	16.43	16.15	17.28	16.82
GSM 850	Frame	23.80	23.80	24.81	25.07	24.32	17.80	18.81	19.07	18.82
GSM 1900	Avg.Targets:	20.80	20.80	21.31	20.57	20.82	15.80	16.31	17.57	16.92

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

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	26.30	26.68	23.28	21.02	20.16	26.17	23.34	20.93	19.59
	190	26.58	26.82	23.56	21.21	20.36	26.54	23.76	21.31	19.87
	251	26.53	26.81	23.51	21.39	20.35	26.79	23.84	21.49	20.13
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	17.10	17.48	17.09	16.59	16.98	16.97	17.15	16.50	16.41
	190	17.38	17.62	17.37	16.78	17.18	17.34	17.57	16.88	16.69
	251	17.33	17.61	17.32	16.96	17.17	17.59	17.65	17.06	16.95
GSM 850	Frame	16.80	16.80	16.81	16.77	16.82	16.80	16.81	16.77	16.82

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Note:

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

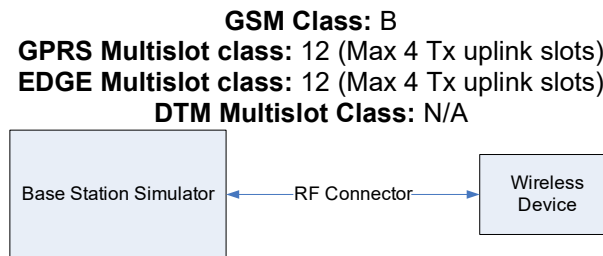


Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-4
Measured P_{limit} for for UMTS 850 & UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]		
			4132	4183	4233	1312	1412	1513	9262	9400	9538
99	WCDMA	12.2 kbps RMC	21.83	21.82	21.77	17.16	17.03	17.10	17.35	17.39	17.62
99		12.2 kbps AMR	21.75	21.77	21.69	17.08	17.01	17.11	17.31	17.36	17.38
6	HSDPA	Subtest 1	20.09	20.32	20.27	16.14	16.06	15.92	16.09	16.14	16.13
6		Subtest 2	20.11	20.32	20.28	16.63	16.52	16.43	16.62	16.67	16.66
6		Subtest 3	20.12	20.33	20.28	16.62	16.52	16.41	16.63	16.70	16.65
6		Subtest 4	20.12	20.30	20.28	17.19	17.10	16.93	16.62	16.66	16.66
6	HSUPA	Subtest 1	18.08	18.32	18.25	15.17	15.08	14.38	15.06	15.10	15.07
6		Subtest 2	18.17	18.29	18.24	14.54	14.49	14.30	14.55	14.62	15.59
6		Subtest 3	18.16	18.31	18.31	14.13	14.03	14.01	14.12	14.18	14.30
6		Subtest 4	18.19	18.29	18.26	14.86	14.79	14.10	15.00	15.07	15.07
6		Subtest 5	18.54	18.67	18.56	16.18	16.06	15.81	16.06	16.11	16.11
8	DC-HSDPA	Subtest 1	20.28	20.37	20.34	16.02	15.83	15.27	16.09	16.10	16.11
8		Subtest 2	20.27	20.39	20.23	16.50	16.36	15.83	16.59	16.64	16.64
8		Subtest 3	20.28	20.37	20.26	16.50	16.33	15.81	16.60	16.65	16.67
8		Subtest 4	20.29	20.39	20.24	17.07	16.87	16.29	16.61	16.66	16.62

Table 10-5
Measured P_{max} for RSI = 1 (Head) for UMTS 850 & UMTS 1750 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]		
			4132	4183	4233	1312	1412	1513
99	WCDMA	12.2 kbps RMC	24.35	24.37	24.33	23.37	22.83	23.32
99		12.2 kbps AMR	24.30	24.34	24.20	23.20	22.91	23.36
6	HSDPA	Subtest 1	23.18	23.37	23.42	22.91	22.87	22.48
6		Subtest 2	22.17	22.34	22.41	22.38	22.32	21.97
6		Subtest 3	21.13	21.36	21.39	21.35	21.27	20.95
6		Subtest 4	21.12	21.34	21.34	21.84	21.77	21.38
6	HSUPA	Subtest 1	22.19	22.28	22.23	21.73	21.66	20.84
6		Subtest 2	20.80	20.26	20.22	19.11	19.06	18.77
6		Subtest 3	21.18	21.34	21.30	19.83	19.74	19.61
6		Subtest 4	20.08	20.26	20.21	19.48	19.41	18.51
6		Subtest 5	22.43	22.60	22.58	22.95	22.93	22.50
8	DC-HSDPA	Subtest 1	23.26	23.43	23.29	22.87	22.66	22.54
8		Subtest 2	22.24	22.42	22.28	22.30	22.14	22.10
8		Subtest 3	21.27	21.46	21.35	21.31	21.12	21.11
8		Subtest 4	21.22	21.47	21.32	21.84	21.62	21.55

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Table 10-6
Measured P_{limit} for RSI = 1 (Head) for UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	PCS Band [dBm]		
			9262	9400	9538
99	WCDMA	12.2 kbps RMC	20.32	20.15	20.24
99		12.2 kbps AMR	20.34	20.17	20.24
6	HSDPA	Subtest 1	19.29	19.38	19.39
6		Subtest 2	19.85	19.93	19.93
6		Subtest 3	19.87	19.94	19.94
6		Subtest 4	19.86	19.96	19.95
6	HSUPA	Subtest 1	18.53	18.56	18.55
6		Subtest 2	17.78	17.91	17.89
6		Subtest 3	17.51	17.57	17.51
6		Subtest 4	18.31	18.41	18.41
6		Subtest 5	19.44	19.45	19.42
8	DC-HSDPA	Subtest 1	19.43	19.46	19.45
8		Subtest 2	19.96	20.02	19.96
8		Subtest 3	19.97	19.99	19.99
8		Subtest 4	19.95	20.00	19.96

Table 10-7
Measured P_{limit} for all RSI for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]		
			4132	4183	4233
99	WCDMA	12.2 kbps RMC	20.79	20.95	20.87
99		12.2 kbps AMR	20.77	20.91	20.80
6	HSDPA	Subtest 1	19.29	19.52	19.46
6		Subtest 2	19.84	20.03	20.00
6		Subtest 3	19.32	19.54	19.48
6		Subtest 4	19.84	20.03	20.01
6	HSUPA	Subtest 1	18.40	18.53	18.51
6		Subtest 2	18.34	18.51	18.43
6		Subtest 3	18.32	18.50	18.42
6		Subtest 4	18.32	18.50	18.45
6		Subtest 5	19.46	19.57	19.40
8	DC-HSDPA	Subtest 1	19.42	19.64	19.44
8		Subtest 2	19.94	20.11	19.95
8		Subtest 3	19.45	19.65	19.52
8		Subtest 4	19.91	20.13	20.01

DC-HSDPA considerations

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

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



Figure 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

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

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

10.3.1 LTE Band 71

Table 10-8
LTE Band 71 Ant A Measured P_{limit} for RSI = 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	21.70	0	0
	1	50	21.25		0
	1	99	21.22		0
	50	0	21.68	0-1	0
	50	25	21.42		0
	50	50	21.28		0
	100	0	21.39		0
16QAM	1	0	21.94	0-1	0
	1	50	21.63		0
	1	99	21.49		0
	50	0	21.57	0-2	0
	50	25	21.33		0
	50	50	21.26		0
	100	0	21.38		0
64QAM	1	0	21.81	0-2	0
	1	50	21.52		0
	1	99	21.38		0
	50	0	20.83	0-3	1
	50	25	20.68		1
	50	50	20.58		1
	100	0	20.74		1
256QAM	1	0	19.12	0-5	3
	1	50	18.71		3
	1	99	18.63		3
	50	0	18.87		3
	50	25	18.70		3
	50	50	18.62		3
	100	0	18.78		3

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Table 10-9
LTE Band 71 Ant A Measured P_{max} for RSI = 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	23.95	0	0
	1	50	23.57		0
	1	99	23.54		0
	50	0	22.80	0-1	1
	50	25	22.70		1
	50	50	22.56		1
16QAM	100	0	22.71	0-1	1
	1	0	22.91		1
	1	50	22.55		1
	1	99	22.40	0-2	1
	50	0	21.83		2
	50	25	21.68		2
64QAM	50	50	21.59	0-2	2
	100	0	21.68		2
	1	0	22.30	0-2	2
	1	50	21.90		2
	1	99	21.89		2
	50	0	20.88	0-3	3
256QAM	50	25	20.74		3
	50	50	20.63		3
	100	0	20.80	0-5	3
	1	0	19.18		5
	1	50	18.77		5
	1	99	18.73	0-5	5
	50	0	18.85		5
	50	25	18.67		5
	50	50	18.62		5
	100	0	18.78		5

Table 10-10
LTE Band 71 Ant E Measured P_{limit} all RSI - 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	19.15	0	0
	1	50	18.74		0
	1	99	18.71		0
	50	0	18.95	0-1	0
	50	25	18.82		0
	50	50	18.75		0
16QAM	100	0	18.84	0-1	0
	1	0	19.08		0
	1	50	18.70		0
	1	99	18.66	0-2	0
	50	0	18.86		0
	50	25	18.70		0
64QAM	50	50	18.62	0-2	0
	100	0	18.82		0
	1	0	19.00	0-2	0
	1	50	18.68		0
	1	99	18.56		0
	50	0	19.01	0-3	0
256QAM	50	25	18.95		0
	50	50	18.81		0
	100	0	18.87	0-5	0
	1	0	18.66		0.5
	1	50	18.21		0.5
	1	99	18.23	0-5	0.5
	50	0	18.15		0.5
	50	25	18.02		0.5
	50	50	17.96		0.5
	100	0	18.13		0.5

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10.3.2 LTE Band 12

Table 10-11

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz) ConD65:S74ducted Power [dBm]		
QPSK	1	0	21.45	0	0
	1	25	21.36		0
	1	49	21.55		0
	25	0	21.38		0
	25	12	21.44	0-1	0
	25	25	21.46		0
	50	0	21.43		0
	1	0	21.65		0
16QAM	1	25	21.71	0-1	0
	1	49	21.76		0
	25	0	21.43		0
	25	12	21.45		0
	25	25	21.48	0-2	0
	50	0	21.45		0
	1	0	21.58		0
	1	25	21.65		0
64QAM	1	49	21.68	0-2	0
	25	0	21.21		0.5
	25	12	21.25		0.5
	25	25	21.25		0.5
	50	0	21.24	0-3	0.5
	1	0	19.26		2.5
	1	25	19.21		2.5
	1	49	19.31		2.5
256QAM	25	0	19.20	0-5	2.5
	25	12	19.21		2.5
	25	25	19.26		2.5
	50	0	19.23		2.5

Table 10-12

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.20	0	0
	1	25	24.24		0
	1	49	24.28		0
	25	0	23.30		1
	25	12	23.34	0-1	1
	25	25	23.31		1
	50	0	23.30		1
	1	0	23.47		1
16QAM	1	25	23.53	0-1	1
	1	49	23.54		1
	25	0	22.33		2
	25	12	22.37		2
	25	25	22.35	0-2	2
	50	0	22.39		2
	1	0	22.36		2
	1	25	22.37		2
64QAM	1	49	22.36	0-2	2
	25	0	21.35		3
	25	12	21.38		3
	25	25	21.38		3
	50	0	21.31	0-3	3
	1	0	19.30		5
	1	25	19.26		5
	1	49	19.37		5
256QAM	25	0	19.29	0-5	5
	25	12	19.32		5
	25	25	19.31		5
	50	0	19.30		5

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Table 10-13
LTE Band 12 Ant E Measured P_{limit} all RSI - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	18.58	0	0
	1	25	18.56		0
	1	49	18.90		0
	25	0	19.00	0-1	0
	25	12	19.04		0
	25	25	19.08		0
	50	0	18.85		0
16QAM	1	0	19.01	0-1	0
	1	25	19.05		0
	1	49	19.17		0
	25	0	18.94	0-2	0
	25	12	19.00		0
	25	25	19.04		0
	50	0	18.94		0
64QAM	1	0	19.13	0-2	0
	1	25	19.13		0
	1	49	18.90		0
	25	0	19.12	0-3	0
	25	12	19.15		0
	25	25	19.19		0
	50	0	18.88		0
256QAM	1	0	18.75	0-5	0
	1	25	18.77		0
	1	49	18.83		0
	25	0	18.64		0
	25	12	18.68		0
	25	25	18.73		0
	50	0	18.74		0

10.3.3 LTE Band 13

Table 10-14
LTE Band 13 Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.78	0	0
	1	25	21.67		0
	1	49	21.79		0
	25	0	21.81	0-1	0
	25	12	21.84		0
	25	25	21.86		0
	50	0	21.78		0
16QAM	1	0	21.96	0-1	0
	1	25	21.97		0
	1	49	22.12		0
	25	0	21.74	0-2	0
	25	12	21.80		0
	25	25	21.82		0
	50	0	21.76		0
64QAM	1	0	21.81	0-2	0
	1	25	21.80		0
	1	49	21.85		0
	25	0	20.96	0-3	1
	25	12	21.00		1
	25	25	21.01		1
	50	0	21.05		1
256QAM	1	0	18.97	0-5	3
	1	25	18.88		3
	1	49	19.03		3
	25	0	18.93		3
	25	12	18.97		3
	25	25	19.00		3
	50	0	18.92		3

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Table 10-15
LTE Band 13 Ant A Measured P_{max} for RSI = 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	24.24	0	0
	1	25	23.95		0
	1	49	24.32		0
	25	0	23.25	0-1	1
	25	12	23.29		1
	25	25	23.31		1
	50	0	23.22		1
16QAM	1	0	22.98	0-1	1
	1	25	23.05		1
	1	49	23.03		1
	25	0	22.21	0-2	2
	25	12	22.25		2
	25	25	22.22		2
	50	0	22.15		2
64QAM	1	0	22.45	0-2	2
	1	25	22.39		2
	1	49	22.54		2
	25	0	21.10	0-3	3
	25	12	21.15		3
	25	25	21.14		3
	50	0	21.09		3
256QAM	1	0	18.96	0-5	5
	1	25	18.86		5
	1	49	19.00		5
	25	0	19.06		5
	25	12	19.11		5
	25	25	19.10		5
	50	0	19.00		5

Table 10-16
LTE Band 13 Ant E Measured P_{limit} all RSI - 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	18.56	0	0
	1	25	18.54		0
	1	49	18.87		0
	25	0	18.56	0-1	0
	25	12	18.57		0
	25	25	18.68		0
	50	0	18.51		0
16QAM	1	0	18.68	0-1	0
	1	25	18.70		0
	1	49	18.74		0
	25	0	18.48	0-2	0
	25	12	18.52		0
	25	25	18.41		0
	50	0	18.46		0
64QAM	1	0	18.61	0-2	0
	1	25	18.59		0
	1	49	18.58		0
	25	0	18.48	0-3	0
	25	12	18.52		0
	25	25	18.45		0
	50	0	18.39		0
256QAM	1	0	18.07	0-5	0.5
	1	25	18.10		0.5
	1	49	18.16		0.5
	25	0	17.82		0.5
	25	12	17.85		0.5
	25	25	17.88		0.5
	50	0	17.82		0.5

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10.3.4 LTE Band 14

Table 10-17

LTE Band 14 Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330.0 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	22.22	0	0
	1	25	22.09		0
	1	49	22.07		0
	25	0	22.30	0-1	0
	25	12	22.27		0
	25	25	22.19		0
16QAM	50	0	22.20	0-1	0
	1	0	22.58		0
	1	25	22.10		0
	1	49	22.61	0-2	0
	25	0	22.11		0
	25	12	22.01		0
64QAM	25	25	22.40	0-2	0
	50	0	22.36		0
	1	0	22.56	0-2	0
	1	25	22.04		0
	1	49	22.61		0
	25	0	21.63	0-3	1
Z56QAM	25	12	21.54		1
	25	25	21.45		1
	50	0	21.51	0-5	1
	1	0	19.60		3
	1	25	19.38		3
	1	49	19.37		3
	25	0	19.46		3
	25	12	19.40		3
	25	25	19.41		3
	50	0	19.36		3

Table 10-18

LTE Band 14 Ant A Measured P_{max} for RSI = 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	24.01	0	0
	1	25	23.92		0
	1	49	23.93		0
	25	0	23.00	0-1	1
	25	12	23.04		1
	25	25	23.08		1
16QAM	50	0	23.02	0-1	1
	1	0	23.31		1
	1	25	23.20		1
	1	49	23.18	0-2	1
	25	0	22.06		2
	25	12	22.01		2
64QAM	25	25	22.01	0-2	2
	50	0	22.06		2
	1	0	22.19	0-2	2
	1	25	22.06		2
	1	49	21.97		2
	25	0	21.12	0-3	3
Z56QAM	25	12	21.07		3
	25	25	20.99		3
	50	0	20.98	0-5	3
	1	0	19.12		5
	1	25	18.95		5
	1	49	18.96		5
	25	0	19.06		5
	25	12	19.01		5
	25	25	18.96		5
	50	0	18.99		5

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Table 10-19
LTE Band 14 Ant E Measured P_{limit} all RSI - 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	19.11	0	0
	1	25	19.03		0
	1	49	18.94		0
	25	0	19.11		0
	25	12	19.13	0-1	0
	25	25	19.09		0
	50	0	19.10		0
	50	0	18.82		0
16QAM	1	0	18.63	0-1	0
	1	25	18.65		0
	1	49	18.65		0
	25	0	19.16		0
	25	12	19.15	0-2	0
	25	25	19.10		0
	50	0	19.13		0
	50	0	19.54		0
64QAM	1	0	19.36	0-2	0
	1	25	19.41		0
	1	49	19.41		0
	25	0	19.42		0
	25	12	19.37	0-3	0
	25	25	19.28		0
	50	0	19.12		0
	50	0	18.87		0.5
256QAM	1	0	18.71	0-5	0.5
	1	25	18.71		0.5
	1	49	18.72		0.5
	25	0	18.41		0.5
	25	12	18.32		0.5
	25	25	18.24		0.5
	50	0	18.35		0.5
	50	0	18.35		0.5

10.3.5 LTE Band 26

Table 10-20
LTE Band 26 Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot or Phablet) - 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	21.16	0	0
	1	36	21.16		0
	1	74	21.59		0
	36	0	21.48		0
	36	18	21.50	0-1	0
	36	37	21.54		0
	75	0	21.50		0
	75	0	21.34		0
16QAM	1	0	21.35	0-1	0
	1	36	21.35		0
	1	74	21.47		0
	36	0	21.50		0
	36	18	21.56	0-2	0
	36	37	21.60		0
	75	0	21.41		0
	75	0	21.12		0
64QAM	1	0	21.12	0-2	0
	1	36	21.14		0
	1	74	21.25		0
	36	0	21.26		0.5
	36	18	21.33	0-3	0.5
	36	37	21.36		0.5
	75	0	21.37		0.5
	75	0	21.37		0.5
256QAM	1	0	19.42	0-5	2.5
	1	36	19.46		2.5
	1	74	19.57		2.5
	36	0	19.34		2.5
	36	18	19.39		2.5
	36	37	19.41		2.5
	75	0	19.46		2.5
	75	0	19.46		2.5

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Table 10-21
LTE Band 26 Ant A Measured P_{max} for RSI = 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	24.28	0	0
	1	36	24.31		0
	1	74	24.44		0
	36	0	23.27	0-1	1
	36	18	23.34		1
	36	37	23.38		1
	75	0	23.37		1
16QAM	1	0	23.17	0-1	1
	1	36	23.22		1
	1	74	23.32		1
	36	0	22.19	0-2	2
	36	18	22.25		2
	36	37	22.26		2
	75	0	22.33		2
64QAM	1	0	22.22	0-2	2
	1	36	22.28		2
	1	74	22.38		2
	36	0	21.29	0-3	3
	36	18	21.35		3
	36	37	21.37		3
	75	0	21.32		3
256QAM	1	0	19.40	0-5	5
	1	36	19.40		5
	1	74	19.56		5
	36	0	19.26		5
	36	18	19.32		5
	36	37	19.33		5
	75	0	19.20		5

Table 10-22
LTE Band 26 Ant E Measured P_{limit} all RSI - 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	18.65	0	0
	1	36	18.75		0
	1	74	18.79		0
	36	0	18.73	0-1	0
	36	18	18.68		0
	36	37	18.77		0
	75	0	18.67		0
16QAM	1	0	18.90	0-1	0
	1	36	18.97		0
	1	74	19.10		0
	36	0	18.70	0-2	0
	36	18	18.75		0
	36	37	18.78		0
	75	0	18.78		0
64QAM	1	0	18.69	0-2	0
	1	36	18.76		0
	1	74	18.91		0
	36	0	18.75	0-3	0
	36	18	18.74		0
	36	37	18.84		0
	75	0	18.76		0
256QAM	1	0	18.54	0-5	1
	1	36	18.58		1
	1	74	18.60		1
	36	0	18.57		1
	36	18	18.53		1
	36	37	18.57		1
	75	0	18.60		1

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10.3.6 LTE Band 66

Table 10-23

LTE Band 66 (AWS) Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.05	16.51	16.95	0	0
	1	50	17.11	16.75	17.15		0
	1	99	17.12	17.18	17.42		0
	50	0	17.15	16.72	17.14	0-1	0
	50	25	17.22	16.80	17.31		0
	50	50	17.18	17.03	17.33		0
	100	0	17.21	16.85	17.26		0
16QAM	1	0	17.22	16.85	17.12	0-1	0
	1	50	17.20	17.04	17.44		0
	1	99	17.37	17.19	17.64		0
	50	0	17.16	16.67	17.05	0-2	0
	50	25	17.20	16.80	17.24		0
	50	50	17.21	17.04	17.27		0
	100	0	17.19	16.83	17.24		0
64QAM	1	0	17.21	16.75	17.05	0-2	0
	1	50	17.24	16.90	17.30		0
	1	99	17.37	17.30	17.55		0
	50	0	17.14	16.70	17.15	0-3	0
	50	25	17.21	16.82	17.26		0
	50	50	17.26	17.06	17.31		0
	100	0	17.13	16.81	17.23		0
256QAM	1	0	17.12	16.61	17.00	0-5	0
	1	50	17.14	16.81	17.31		0
	1	99	17.21	17.27	17.49		0
	50	0	17.12	16.74	17.08		0
	50	25	17.18	16.77	17.25		0
	50	50	17.22	17.00	17.33		0
	100	0	17.20	16.81	17.26		0

Table 10-24

LTE Band 66 (AWS) Ant A Measured P_{max} for RSI = 1(Head) - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.55	22.62	23.07	0	0
	1	50	22.51	22.57	23.17		0
	1	99	22.50	23.05	23.39		0
	50	0	21.61	21.52	22.00	0-1	1
	50	25	21.60	21.60	22.19		1
	50	50	21.56	21.77	22.23		1
	100	0	21.59	21.58	22.20		1
16QAM	1	0	21.59	21.73	21.95	0-1	1
	1	50	21.51	21.84	22.08		1
	1	99	21.52	22.29	22.24		1
	50	0	20.50	20.37	20.98	0-2	2
	50	25	20.51	20.53	21.15		2
	50	50	20.46	20.74	21.24		2
	100	0	20.57	20.56	21.16		2
64QAM	1	0	21.00	20.48	21.28	0-2	2
	1	50	20.99	20.62	21.42		2
	1	99	20.90	21.03	21.66		2
	50	0	19.53	19.37	19.96	0-3	3
	50	25	19.56	19.50	20.13		3
	50	50	19.48	19.69	20.19		3
	100	0	19.56	19.51	20.14		3
256QAM	1	0	17.78	17.50	18.23	0-5	5
	1	50	17.74	17.61	18.42		5
	1	99	17.71	18.07	18.63		5
	50	0	17.55	17.39	17.93		5
	50	25	17.52	17.55	18.10		5
	50	50	17.47	17.72	18.20		5
	100	0	17.56	17.53	18.13		5

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Table 10-25
LTE Band 66 (AWS) Ant F Measured P_{limit} all RSI - 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.29	16.90	16.87	0	0
	1	50	17.11	16.82	16.90		0
	1	99	17.02	16.97	17.00		0
	50	0	17.30	16.89	17.04	0-1	0
	50	25	17.19	16.86	17.10		0
	50	50	17.10	16.90	17.06		0
	100	0	17.18	16.87	17.09		0
16QAM	1	0	17.38	17.19	17.15	0-1	0
	1	50	17.40	17.07	17.09		0
	1	99	17.46	17.29	17.20		0
	50	0	17.10	16.83	17.03	0-2	0
	50	25	17.12	16.84	17.08		0
	50	50	17.07	16.87	17.09		0
	100	0	17.18	16.86	17.08		0
64QAM	1	0	17.06	16.95	17.15	0-2	0
	1	50	16.95	16.88	17.11		0
	1	99	16.99	16.97	17.25		0
	50	0	17.19	16.88	17.05	0-3	0
	50	25	17.18	16.86	17.07		0
	50	50	17.15	16.89	17.07		0
	100	0	17.17	16.87	17.04		0
256QAM	1	0	17.12	17.02	17.12	0-5	0
	1	50	16.98	16.90	17.11		0
	1	99	17.00	17.05	17.27		0
	50	0	17.16	16.84	17.04		0
	50	25	17.17	16.82	17.09		0
	50	50	17.14	16.88	17.08		0
	100	0	17.18	16.82	17.10		0

10.3.7 LTE Band 25

Table 10-26
LTE Band 25 (PCS) Ant A Measured P_{limit} for RSI = 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	17.34	17.20	17.28	0	0
	1	50	17.10	17.21	17.39		0
	1	99	17.22	17.35	17.53		0
	50	0	17.18	17.24	17.33	0-1	0
	50	25	17.11	17.22	17.39		0
	50	50	17.09	17.20	17.45		0
	100	0	17.14	17.22	17.40		0
16QAM	1	0	17.56	17.40	17.53	0-1	0
	1	50	17.39	17.44	17.61		0
	1	99	17.42	17.50	17.77		0
	50	0	17.13	17.21	17.30	0-2	0
	50	25	17.17	17.23	17.36		0
	50	50	17.10	17.19	17.36		0
	100	0	17.09	17.17	17.37		0
64QAM	1	0	17.48	17.27	17.36	0-2	0
	1	50	17.21	17.31	17.45		0
	1	99	17.33	17.41	17.58		0
	50	0	17.16	17.15	17.26	0-3	0
	50	25	17.13	17.19	17.34		0
	50	50	17.06	17.15	17.35		0
	100	0	17.10	17.14	17.40		0
256QAM	1	0	17.42	17.23	17.31	0-5	0
	1	50	17.09	17.25	17.34		0
	1	99	17.19	17.31	17.51		0
	50	0	17.09	17.11	17.21		0
	50	25	17.06	17.14	17.30		0
	50	50	17.04	17.12	17.32		0
	100	0	17.05	17.12	17.31		0

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Table 10-27
LTE Band 25 (PCS) Ant A Measured P_{max} for RSI = 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	23.30	22.90	23.07	0	0
	1	50	22.96	22.91	23.14		0
	1	99	23.05	23.00	23.32		0
	50	0	22.07	21.98	22.05	0-1	1
	50	25	21.98	21.97	22.16		1
	50	50	21.89	21.96	22.18		1
	100	0	21.98	21.99	22.16		1
16QAM	1	0	22.40	21.90	22.17	0-1	1
	1	50	22.07	21.88	22.24		1
	1	99	22.13	21.97	22.39		1
	50	0	21.00	20.81	20.93	0-2	2
	50	25	20.86	20.82	21.03		2
	50	50	20.78	20.78	21.06		2
	100	0	20.89	20.88	21.05		2
64QAM	1	0	21.20	21.18	20.99	0-2	2
	1	50	20.94	21.19	21.08		2
	1	99	21.02	21.24	21.23		2
	50	0	19.99	19.87	19.91	0-3	3
	50	25	19.89	19.87	20.03		3
	50	50	19.71	19.82	20.08		3
	100	0	19.82	19.87	20.08		3
256QAM	1	0	18.46	18.07	18.07	0-5	5
	1	50	18.15	18.03	18.18		5
	1	99	18.20	18.18	18.34		5
	50	0	17.91	17.85	17.94		5
	50	25	17.80	17.85	18.09		5
	50	50	17.73	17.84	18.08		5
	100	0	17.83	17.88	18.07		5

Table 10-28
LTE Band 25 (PCS) Ant F Measured P_{limit} all RSI - 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	17.66	17.75	17.83	0	0
	1	50	17.80	17.66	17.89		0
	1	99	17.94	17.86	18.04		0
	50	0	17.78	17.83	17.84	0-1	0
	50	25	17.84	17.85	17.92		0
	50	50	17.93	17.87	17.98		0
	100	0	17.87	17.84	17.93		0
16QAM	1	0	17.62	17.80	18.15	0-1	0
	1	50	17.77	17.76	18.16		0
	1	99	17.85	17.88	18.27		0
	50	0	17.79	17.78	17.84	0-2	0
	50	25	17.86	17.79	17.94		0
	50	50	17.92	17.80	17.98		0
	100	0	17.88	17.82	17.93		0
64QAM	1	0	18.02	18.21	17.92	0-2	0
	1	50	18.13	18.25	17.97		0
	1	99	18.34	18.26	18.41		0
	50	0	17.79	17.83	17.87	0-3	0
	50	25	17.89	17.88	17.94		0
	50	50	17.95	17.89	18.01		0
	100	0	17.89	17.86	17.94		0
256QAM	1	0	18.06	18.08	18.05	0-5	0
	1	50	18.17	18.07	18.08		0
	1	99	18.32	18.15	18.16		0
	50	0	17.74	17.81	17.80		0
	50	25	17.81	17.84	17.87		0
	50	50	17.88	17.86	17.94		0
	100	0	17.87	17.84	17.90		0

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10.3.8 LTE Band 30

Table 10-29

LTE Band 30 Ant B Measured P_{limit} for RSI = 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	18.03	0	0
	1	25	17.98		0
	1	49	18.19		0
	25	0	18.21	0-1	0
	25	12	18.20		0
	25	25	18.18		0
16QAM	50	0	18.18	0-1	0
	1	0	18.24		0
	1	25	18.20		0
	1	49	18.27	0-2	0
	25	0	18.10		0
	25	12	18.11		0
64QAM	25	25	18.11	0-2	0
	50	0	18.06		0
	1	0	18.22	0-2	0
	1	25	18.12		0
	1	49	18.24		0
	25	0	18.23	0-3	0
256QAM	25	12	18.23		0
	25	25	18.25		0
	50	0	18.02	0-5	0
	1	0	18.30		0
	1	25	18.30		0
	1	49	18.29	0-5	0
	25	0	17.86		0
	25	12	17.89		0
	25	25	17.91		0
	50	0	17.93		0
					0
					0

Table 10-30

LTE Band 30 Ant B Measured P_{max} for RSI = 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	23.54	0	0
	1	25	23.43		0
	1	49	23.52		0
	25	0	22.56	0-1	1
	25	12	22.55		1
	25	25	22.47		1
16QAM	50	0	22.55	0-1	1
	1	0	22.78		1
	1	25	22.67		1
	1	49	22.60	0-2	1
	25	0	21.58		2
	25	12	21.53		2
64QAM	25	25	21.44	0-2	2
	50	0	21.53		2
	1	0	21.67	0-2	2
	1	25	21.50		2
	1	49	21.45		2
	25	0	20.58	0-3	3
256QAM	25	12	20.55		3
	25	25	20.46		3
	50	0	20.46	0-5	3
	1	0	18.59		5
	1	25	18.48		5
	1	49	18.50	0-5	5
	25	0	18.53		5
	25	12	18.53		5
	25	25	18.45		5
	50	0	18.50		5
					5
					5

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Table 10-31
LTE Band 30 Ant F Measured P_{limit} all RSI - 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	17.80	0	0
	1	25	17.69		0
	1	49	17.89		0
	25	0	17.87	0-1	0
	25	12	17.80		0
	25	25	17.86		0
	50	0	17.84		0
16QAM	1	0	18.06	0-1	0
	1	25	17.93		0
	1	49	18.11		0
	25	0	17.83	0-2	0
	25	12	17.80		0
	25	25	17.83		0
	50	0	17.84		0
64QAM	1	0	17.92	0-2	0
	1	25	17.78		0
	1	49	17.96		0
	25	0	17.86	0-3	0
	25	12	17.81		0
	25	25	17.88		0
	50	0	17.79		0
256QAM	1	0	17.87	0-5	0.5
	1	25	17.73		0.5
	1	49	17.98		0.5
	25	0	17.78		0.5
	25	12	17.78		0.5
	25	25	17.85		0.5
	50	0	17.78		0.5

10.3.9 LTE Band 7

Table 10-32
LTE Band 7 Ant B Measured P_{limit} for RSI = 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	17.64	17.97	18.12	0	0
	1	50	17.62	17.90	18.06		0
	1	99	17.75	18.06	18.16		0
	50	0	17.83	17.94	18.07	0-1	0
	50	25	17.86	18.00	18.15		0
	50	50	17.88	17.98	18.11		0
	100	0	17.91	17.99	18.13		0
16QAM	1	0	18.02	17.92	18.04	0-1	0
	1	50	18.07	17.87	18.02		0
	1	99	18.15	18.01	18.10		0
	50	0	17.87	17.94	18.02	0-2	0
	50	25	17.91	17.91	18.03		0
	50	50	17.93	17.89	18.00		0
	100	0	17.97	17.96	18.13		0
64QAM	1	0	18.28	18.03	17.96	0-2	0
	1	50	18.35	18.04	17.92		0
	1	99	18.42	18.15	18.00		0
	50	0	17.88	18.08	18.21	0-3	0
	50	25	17.93	18.13	18.24		0
	50	50	17.97	18.10	18.26		0
	100	0	17.97	18.07	18.16		0
256QAM	1	0	17.96	18.23	18.34	0-5	0
	1	50	18.04	18.18	18.28		0
	1	99	18.11	18.29	18.42		0
	50	0	17.87	17.89	18.00		0
	50	25	17.95	17.92	18.05		0
	50	50	17.98	17.89	18.03		0
	100	0	17.89	18.02	18.12		0

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Table 10-33
LTE Band 7 Ant B Measured P_{max} for RSI = 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	23.48	23.54	23.82	0	0
	1	50	23.48	23.61	23.61		0
	1	99	23.56	23.81	23.73		0
	50	0	22.44	22.62	22.73	0-1	1
	50	25	22.51	22.65	22.80		1
	50	50	22.49	22.71	22.83		1
16QAM	100	0	22.51	22.64	22.80	0-1	1
	1	0	22.76	22.44	22.72		1
	1	50	22.72	22.53	22.69		1
	1	99	22.77	22.70	22.83	0-2	1
	50	0	21.43	21.60	21.66		2
	50	25	21.46	21.64	21.71		2
64QAM	50	50	21.44	21.68	21.72	0-2	2
	100	0	21.48	21.63	21.79		2
	1	0	21.51	21.82	22.10	0-2	2
	1	50	21.51	21.89	22.10		2
	1	99	21.57	22.15	22.12		2
	256QAM	50	0	20.43	20.59	20.70	0-3
50		25	20.52	20.65	20.74	3	
50		50	20.48	20.69	20.76	3	
100		0	20.51	20.68	20.76	0-5	3
1		0	18.61	18.90	18.91		5
1		50	18.61	18.94	18.87		5
1	99	18.64	19.17	18.94	5		
50	0	18.46	18.57	18.62	5		
50	25	18.50	18.64	18.66	5		
256QAM	50	50	18.49	18.66	18.67	5	
	100	0	18.52	18.62	18.69	5	

Table 10-34
LTE Band 7 Ant F Measured P_{limit} all RSI - 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	15.85	15.73	15.79	0	0
	1	50	15.64	15.73	15.94		0
	1	99	15.74	15.87	16.18		0
	50	0	15.78	15.80	16.02	0-1	0
	50	25	15.75	15.80	16.14		0
	50	50	15.70	15.86	16.19		0
16QAM	100	0	15.75	15.81	16.17	0-1	0
	1	0	15.65	15.19	15.44		0
	1	50	15.38	15.14	15.54		0
	1	99	15.51	15.27	15.71	0-2	0
	50	0	15.29	15.36	15.49		0
	50	25	15.19	15.34	15.57		0
64QAM	50	50	15.23	15.40	15.63	0-2	0
	100	0	15.25	15.32	15.64		0
	1	0	15.42	15.65	15.81	0-2	0
	1	50	15.22	15.60	15.99		0
	1	99	15.31	15.75	16.02		0
	256QAM	50	0	15.26	15.38	15.52	0-3
50		25	15.21	15.39	15.65	0	
50		50	15.17	15.41	15.68	0	
100		0	15.23	15.36	15.65	0-5	0
1		0	15.52	15.75	15.79		0
1		50	15.33	15.67	15.89		0
1	99	15.44	15.81	16.07	0		
50	0	15.28	15.31	15.53	0		
50	25	15.23	15.29	15.63	0		
256QAM	50	50	15.22	15.33	15.71	0	
	100	0	15.24	15.36	15.67	0	

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10.3.10 LTE Band 41

Table 10-35

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

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750.0 (2506.0 MHz)	Low-Mid Channel 40185.0 (2549.5 MHz)	Mid Channel 40620.0 (2593.0 MHz)	Mid-High Channel 41055.0 (2636.5 MHz)	High Channel 41490.0 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	18.33	17.96	17.77	17.87	17.90	0
	1	50	18.27	18.01	17.96	17.88	17.85	0
	1	99	18.20	18.13	17.93	17.92	17.98	0
	50	0	18.34	18.06	17.89	17.82	17.99	0
	50	25	18.29	18.09	17.93	17.87	17.99	0
	50	50	18.23	18.14	17.88	17.87	18.01	0
16QAM	1	0	18.28	18.09	17.94	17.84	17.99	0
	1	50	18.28	17.68	17.51	17.75	17.61	0
	1	99	18.11	17.77	17.51	17.67	17.65	0
	50	0	18.04	17.80	17.36	17.79	17.66	0
	50	25	18.27	18.09	17.77	17.83	18.03	0
	50	50	18.22	18.11	17.77	17.86	18.03	0
64QAM	1	0	18.17	18.14	17.76	17.88	17.99	0
	1	50	18.29	18.10	17.87	17.86	17.92	0
	1	99	18.28	18.13	18.07	17.77	18.05	0
	50	0	18.13	18.17	17.96	17.83	18.08	0
	50	25	18.13	18.27	17.90	17.86	18.04	0
	50	50	18.37	18.11	17.94	17.86	17.94	0
256QAM	1	0	18.31	18.11	17.85	17.87	17.97	0
	1	50	18.24	18.16	17.89	17.90	17.95	0
	1	99	18.32	18.16	17.89	17.89	17.97	0
	50	0	18.25	18.32	17.81	17.72	17.90	0
	50	25	18.08	18.30	17.85	17.71	17.92	0
	50	50	18.12	18.36	17.83	17.82	17.94	0

Table 10-36

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

LTE Band 41 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel 39750.0 (2506.0 MHz)	Low-Mid Channel 40185.0 (2549.5 MHz)	Mid Channel 40620.0 (2593.0 MHz)	Mid-High Channel 41055.0 (2636.5 MHz)	High Channel 41490.0 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	23.19	22.78	22.59	22.63	22.69	0
	1	50	23.06	22.78	22.49	22.64	22.67	0
	1	99	22.98	22.93	22.41	22.70	22.81	0
	50	0	22.12	21.86	21.64	21.63	21.79	1
	50	25	22.07	21.87	21.65	21.67	21.79	1
	50	50	21.99	21.93	21.62	21.68	21.80	1
16QAM	1	0	22.05	21.89	21.66	21.64	21.79	1
	1	50	22.02	21.48	21.21	21.49	21.43	1
	1	99	21.89	21.51	21.20	21.46	21.40	1
	50	0	21.83	21.60	21.16	21.55	21.46	1
	50	25	21.12	20.89	20.57	20.62	20.82	2
	50	50	21.04	20.89	20.57	20.63	20.81	2
64QAM	1	0	20.98	20.96	20.55	20.65	20.82	2
	1	50	21.06	20.89	20.67	20.64	20.80	2
	1	99	21.07	20.91	20.79	20.54	20.82	2
	50	0	20.94	20.95	20.78	20.52	20.84	2
	50	25	20.89	21.05	20.76	20.63	20.89	2
	50	50	20.10	19.87	19.61	19.60	19.80	3
256QAM	1	0	20.06	19.89	19.68	19.66	19.79	3
	1	50	19.98	19.92	19.68	19.66	19.77	3
	1	99	20.06	19.90	19.70	19.68	19.82	3
	50	0	18.07	18.12	17.70	17.57	18.00	5
	50	25	17.90	18.08	17.74	17.52	18.01	5
	50	50	18.01	18.17	17.71	17.71	18.06	5

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Table 10-37
LTE Band 41 Ant F Measured P_{limit} all RSI - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.88	16.89	16.60	16.46	16.61	0	0
	1	50	16.80	16.92	16.54	16.37	16.62		0
	1	99	16.81	16.99	16.50	16.43	16.69		0
	50	0	16.89	16.89	16.67	16.45	16.52	0-1	0
	50	25	16.91	16.92	16.66	16.48	16.52		0
	50	50	16.92	16.93	16.63	16.45	16.57		0
	100	0	16.89	16.90	16.67	16.49	16.53		0
16QAM	1	0	16.54	16.73	16.24	16.12	16.38	0-1	0
	1	50	16.58	16.68	16.34	16.11	16.26		0
	1	99	16.54	16.80	16.13	16.15	16.45		0
	50	0	16.82	16.83	16.67	16.40	16.46	0-2	0
	50	25	16.81	16.91	16.69	16.43	16.46		0
	50	50	16.80	16.90	16.54	16.37	16.51		0
	100	0	16.89	16.88	16.66	16.48	16.50		0
64QAM	1	0	16.94	16.76	16.70	16.66	16.41	0-2	0
	1	50	16.92	16.61	16.79	16.68	16.28		0
	1	99	16.95	16.88	16.64	16.76	16.54		0
	50	0	16.87	16.86	16.69	16.46	16.46	0-3	0
	50	25	16.89	16.88	16.68	16.50	16.47		0
	50	50	16.89	16.88	16.66	16.47	16.52		0
	100	0	16.90	16.88	16.71	16.51	16.51		0
256QAM	1	0	16.94	16.78	16.90	16.55	16.48	0-5	0
	1	50	16.75	16.78	16.88	16.35	16.40		0
	1	99	16.98	16.94	16.75	16.64	16.61		0
	50	0	16.87	16.84	16.70	16.44	16.50	0-5	0
	50	25	16.88	16.88	16.69	16.48	16.54		0
	50	50	16.88	16.91	16.64	16.43	16.56		0
	100	0	16.89	16.91	16.72	16.48	16.56		0

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10.3.11 LTE Band 48

Table 10-38
LTE Band 48 Ant F Measured P_{limit} for all RSI - 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	17.01	17.11	16.60	16.62	0	0
	1	50	17.04	16.96	16.52	16.51		0
	1	99	17.23	17.00	16.70	16.48		0
	50	0	17.13	16.95	16.68	16.66	0-1	0
	50	25	17.22	16.98	16.69	16.64		0
	50	50	17.27	17.00	16.71	16.63		0
	100	0	17.16	16.96	16.67	16.57		0
16QAM	1	0	16.70	16.90	16.28	16.55	0-1	0
	1	50	16.83	16.76	16.33	16.53		0
	1	99	16.98	16.89	16.38	16.51		0
	50	0	17.08	16.96	16.70	16.67	0-2	0
	50	25	17.16	17.02	16.73	16.72		0
	50	50	17.22	17.01	16.75	16.61		0
	100	0	17.22	16.98	16.71	16.67		0
64QAM	1	0	17.25	16.94	16.75	16.65	0-2	0
	1	50	17.37	16.75	16.78	16.62		0
	1	99	17.58	16.95	16.87	16.56		0
	50	0	17.18	17.00	16.71	16.74	0-3	0
	50	25	17.25	17.00	16.75	16.71		0
	50	50	17.32	17.02	16.72	16.70		0
	100	0	17.21	17.05	16.73	16.73		0
256QAM	1	0	17.17	16.96	16.99	16.77	0-5	0
	1	50	17.11	16.85	16.88	16.70		0
	1	99	17.49	17.02	17.00	16.62		0
	50	0	17.16	17.03	16.69	16.74		0
	50	25	17.21	17.02	16.75	16.76		0
	50	50	17.31	17.06	16.75	16.69		0
	100	0	17.23	17.03	16.75	16.65		0

Table 10-39
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{limit} for all RSI - 20 MHz Bandwidth

	Combination	PCC							SCC							Power	
		PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
SCC higher	CA_48C	LTE B48	20	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	17.14	17.23



Figure 10-3
Power Measurement Setup

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10.4 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

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

10.4.1 NR Band n71

Table 10-40
NR Band n71 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot or Phablet) - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.88	0	0.0
	1	53	21.67		0.0
	1	104	21.43		0.0
	50	0	21.75	0-1	0.0
	50	28	21.62	0	0.0
	50	56	21.52	0-1	0.0
	100	0	21.65		0.0
DFT-s-OFDM 16QAM	1	1	21.82	0-1	0.0
CP-OFDM QPSK	1	1	21.82	0-1.5	0.0

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Table 10-41
NR Band n71 Ant A Measured P_{max} for RSI = 1(Head) - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.73	0	0.0
	1	53	24.52		0.0
	1	104	24.28		0.0
	50	0	23.62	0-1	1.0
	50	28	24.48	0	0.0
	50	56	23.36	0-1	1.0
	100	0	23.50		1.0
DFT-s-OFDM 16QAM	1	1	23.66	0-1	1.0
CP-OFDM QPSK	1	1	23.10	0-1.5	1.5

Table 10-42
NR Band n71 Ant E Measured P_{limit} all RSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.86	0	0.0
	1	53	18.77		0.0
	1	104	18.78		0.0
	50	0	18.82	0-1	0.0
	50	28	18.78	0	0.0
	50	56	18.84	0-1	0.0
	100	0	18.79		0.0
DFT-s-OFDM 16QAM	1	1	18.90	0-1	0.0
CP-OFDM QPSK	1	1	18.88	0-1.5	0.0

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10.4.2 NR Band n5

Table 10-43
NR Band n5 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot or Phablet) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.35	0	0.0
	1	53	21.65		0.0
	1	104	21.69		0.0
	50	0	21.48	0-1	0.0
	50	28	21.58	0	0.0
	50	56	21.63	0-1	0.0
	100	0	21.59		0.0
DFT-s-OFDM 16QAM	1	1	21.39	0-1	0.0
CP-OFDM QPSK	1	1	21.40	0-1.5	0.0

Table 10-44
NR Band n5 Ant A Measured P_{max} for RSI = 1 (Head) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.89	0	0.0
	1	53	24.12		0.0
	1	104	23.81		0.0
	50	0	23.04	0-1	1.0
	50	28	24.07	0	0.0
	50	56	23.12	0-1	1.0
	100	0	23.05		1.0
DFT-s-OFDM 16QAM	1	1	22.91	0-1	1.0
CP-OFDM QPSK	1	1	22.31	0-1.5	1.5

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Table 10-45
NR Band n5 Ant E Measured P_{limit} all RSI - 20 MHz Bandwidth
NR Band n5
20 MHz Bandwidth

Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.37	0	0.0
	1	53	18.46		0.0
	1	104	18.44		0.0
	50	0	18.46	0-1	0.0
	50	28	18.49	0	0.0
	50	56	18.44	0-1	0.0
	100	0	18.45		0.0
DFT-s-OFDM 16QAM	1	1	18.42	0-1	0.0
CP-OFDM QPSK	1	1	18.39	0-1.5	0.0

10.4.3 NR Band n70

Table 10-46
NR Band n70 Ant A Measured P_{limit} for RSI = 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	14.84	0	0.0
	1	40	14.66		0.0
	1	77	14.74		0.0
	36	0	14.83	0-1	0.0
	36	22	14.77	0	0.0
	36	43	14.75	0-1	0.0
	75	0	14.78		0.0
DFT-s-OFDM 16QAM	1	1	14.82	0-1	0.0
CP-OFDM QPSK	1	1	14.80	0-1.5	0.0

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Table 10-47
NR Band n70 Ant A Measured P_{max} for RSI = 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	22.91	0	0.0
	1	40	22.97		0.0
	1	77	23.11		0.0
	36	0	22.32	0-1	1.0
	36	22	23.18	0	0.0
	36	43	22.20	0-1	1.0
	75	0	22.22		1.0
DFT-s-OFDM 16QAM	1	1	22.25	0-1	1.0
CP-OFDM QPSK	1	1	21.76	0-1.5	1.5

Table 10-48
NR Band n70 Ant E Measured P_{limit} all RSI - 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	16.91	0	0.0
	1	40	16.89		0.0
	1	77	17.00		0.0
	36	0	16.94	0-1	0.0
	36	22	16.98	0	0.0
	36	43	17.00	0-1	0.0
	75	0	16.99		0.0
DFT-s-OFDM 16QAM	1	1	16.85	0-1	0.0
CP-OFDM QPSK	1	1	16.89	0-1.5	0.0

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10.4.4 NR Band n66

Table 10-49
NR Band n66 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot or Phablet) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.02	0	0.0
	1	108	17.02		0.0
	1	214	17.22		0.0
	108	0	17.01	0-1	0.0
	108	54	17.02	0	0.0
	108	108	17.27	0-1	0.0
	216	0	17.08		0.0
DFT-s-OFDM 16QAM	1	1	17.06	0-1	0.0
CP-OFDM QPSK	1	1	17.28	0-1.5	0.0

Table 10-50
NR Band n66 Ant A Measured P_{max} for RSI = 1 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.05	0	0.0
	1	108	23.40		0.0
	1	214	23.57		0.0
	108	0	22.20	0-1	1.0
	108	54	23.31	0	0.0
	108	108	22.63	0-1	1.0
	216	0	22.25		1.0
DFT-s-OFDM 16QAM	1	1	22.11	0-1	1.0
CP-OFDM QPSK	1	1	21.83	0-1.5	1.5

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Table 10-51
NR Band n66 Ant F Measured P_{limit} all RSI - 40 MHz Bandwidth
NR Band n66
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.05	0	0.0
	1	108	16.20		0.0
	1	214	16.18		0.0
	108	0	16.02	0-1	0.0
	108	54	16.09	0	0.0
	108	108	16.25	0-1	0.0
	216	0	16.08		0.0
DFT-s-OFDM 16QAM	1	1	16.00	0-1	0.0
CP-OFDM QPSK	1	1	16.10	0-1.5	0.0

10.4.5 NR Band n25

Table 10-52
NR Band n25 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot or Phablet) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.12	0	0.0
	1	108	15.43		0.0
	1	214	15.42		0.0
	108	0	15.24	0-1	0.0
	108	54	15.36	0	0.0
	108	108	15.31	0-1	0.0
	216	0	15.31		0.0
DFT-s-OFDM 16QAM	1	1	15.07	0-1	0.0
CP-OFDM QPSK	1	1	15.09	0-1.5	0.0

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Table 10-53
NR Band n25 Ant A Measured P_{max} for RSI = 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	23.29	0	0.0
	1	108	23.68		0.0
	1	214	23.65		0.0
	108	0	22.54	0-1	1.0
	108	54	23.65	0	0.0
	108	108	22.58	0-1	1.0
	216	0	22.53		1.0
DFT-s-OFDM 16QAM	1	1	22.26	0-1	1.0
CP-OFDM QPSK	1	1	21.83	0-1.5	1.5

Table 10-54
NR Band n25 Ant F Measured P_{limit} all RSI - 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	17.04	0	0.0
	1	108	17.01		0.0
	1	214	17.15		0.0
	108	0	17.16	0-1	0.0
	108	54	17.02	0	0.0
	108	108	17.11	0-1	0.0
	216	0	17.10		0.0
DFT-s-OFDM 16QAM	1	1	17.01	0-1	0.0
CP-OFDM QPSK	1	1	17.10	0-1.5	0.0

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10.4.1 NR Band n30

Table 10-55
NR Band n30 Ant B Measured P_{limit} for RSI = 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	17.93	0	0.0
	1	26	18.10		0.0
	1	50	17.96		0.0
	25	0	17.98	0-1	0.0
	25	14	18.01	0	0.0
	25	27	18.00	0-1	0.0
	50	0	18.00		0.0
DFT-s-OFDM 16QAM	1	1	18.24	0-1	0.0
CP-OFDM QPSK	1	1	18.06	0-1.5	0.0

Table 10-56
NR Band n30 Ant B Measured P_{max} for RSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.50	0	0.0
	1	26	22.73		0.0
	1	50	22.62		0.0
	25	0	21.70	0-1	1.0
	25	14	22.67	0	0.0
	25	27	21.88	0-1	1.0
	50	0	21.98		1.0
DFT-s-OFDM 16QAM	1	1	21.70	0-1	1.0
CP-OFDM QPSK	1	1	20.97	0-1.5	1.5

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Table 10-57
NR Band n30 Ant F Measured P_{limit} all RSI - 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	18.41	0	0.0
	1	26	18.45		0.0
	1	50	18.49		0.0
	25	0	18.42	0-1	0.0
	25	14	18.37	0	0.0
	25	27	18.47	0-1	0.0
	50	0	18.40		0.0
DFT-s-OFDM 16QAM	1	1	18.84	0-1	0.0
CP-OFDM QPSK	1	1	18.46	0-1.5	0.0

10.4.2 NR Band n41

Table 10-58
NR Band n41 PC2 Ant B Measured P_{limit} for RSI = 0(Body-Worn, Hotspot or Phablet) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.48	0	0.0
	1	137	18.13		0.0
	1	271	18.35		0.0
	135	0	17.79	0-1	0.0
	135	69	18.10	0	0.0
	135	138	18.29	0-1	0.0
	270	0	18.03		0.0
DFT-s-OFDM 16QAM	1	1	17.44	0-1	0.0
CP-OFDM QPSK	1	1	17.49	0-1.5	0.0

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Table 10-59
NR Band n41 PC2 Ant B Measured P_{max} for RSI = 1 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.10	0	0.0
	1	137	25.20		0.0
	1	271	25.16		0.0
	135	0	24.71	0-1	1.0
	135	69	25.05	0	0.0
	135	138	24.73	0-1	1.0
	270	0	24.50		1.0
DFT-s-OFDM 16QAM	1	1	24.70	0-1	1.0
CP-OFDM QPSK	1	1	24.25	0-1.5	1.5

10.4.3 NR Band n48

Table 10-60
NR Band n48 Ant F Measured P_{limit} all RSI - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Modulation	RB Size	RB Offset	Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
			638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]			MPR Allowed per 3GPP [dB]	MPR [dB]
DFT-s-OFDM QPSK	1	1	14.04	14.00	14.00	0	0.0
	1	53	14.17	14.11	14.03		0.0
	1	104	14.05	14.00	14.16		0.0
	50	0	14.14	14.12	14.03	0-1	0.0
	50	28	14.19	14.16	14.08	0	0.0
	50	56	14.12	14.08	14.18	0-1	0.0
	100	0	14.16	14.14	14.10		0.0
DFT-s-OFDM 16QAM	1	1	14.13	14.13	14.08	0-1	0.0
CP-OFDM QPSK	1	1	14.05	14.04	14.00	0-1.5	0.0

Table 10-61
NR Band n48 Ant C, I, D Measured P_{limit} all RSI - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Antenna	Channel		
	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	14.60	14.76	13.68
SRS #3 Ant I	15.45	15.35	15.33
SRS #4 Ant D	11.05	11.50	11.61

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10.4.4 NR Band n77

Table 10-62
NR Band n77 PC2 DoD Ant F Measured P_{limit} all RSI - 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	12.55	0	0.0
	1	137	12.49		0.0
	1	271	12.15		0.0
	135	0	12.11	0-1	0.0
	135	69	12.54	0	0.0
	135	138	12.46	0-1	0.0
	270	0	12.48		0.0
DFT-s-OFDM 16QAM	1	1	12.60	0-1	0.0
CP-OFDM QPSK	1	1	12.52	0-1.5	0.0

Table 10-63
NR Band n77 PC2 Ant F Measured P_{limit} all RSI - 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	13.41	13.23	0	0.0
	1	137	13.39	13.19		0.0
	1	271	13.03	13.32		0.0
	135	0	13.12	13.04	0-1	0.0
	135	69	13.44	13.22	0	0.0
	135	138	12.87	12.99	0-1	0.0
	270	0	13.40	13.20		0.0
DFT-s-OFDM 16QAM	1	1	13.38	13.34	0-1	0.0
CP-OFDM QPSK	1	1	13.35	13.23	0-1.5	0.0

Table 10-64
NR Band n77 PC2 DoD Ant C, I, D Measured P_{limit} all RSI - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz) Conducted Power [dBm]
SRS #2 Ant C	11.67
SRS #3 Ant I	11.55
SRS #4 Ant D	11.46

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Table 10-65
NR Band n77 PC2 Ant C, I, D Measured P_{limit} all RSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	11.15	11.97
SRS #3 Ant I	12.47	12.50
SRS #4 Ant D	11.90	11.05



Figure 10-4
Power Measurement Setup – NR FDD

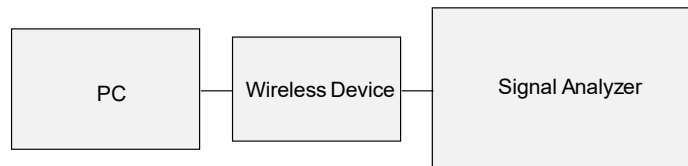


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-66

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

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.51
2437	6		16.43
2462	11		16.60

Table 10-67

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

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.50
2437	6		14.15
2462	11		14.34

Table 10-68

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

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	15.97	14.94	18.50
2437	6		16.25	14.47	18.46
2462	11		16.25	14.62	18.52

Table 10-69

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

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.64	12.28	16.02
2437	6		13.84	12.67	16.30
2462	11		14.07	12.63	16.42

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Table 10-70

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

5GHz WIFI (20MHz 802.11a SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.82
	5200	40	15.25
	5220	44	15.69
	5240	48	15.02
UNII-2A	5260	52	15.43
	5280	56	15.41
	5300	60	15.10
	5320	64	15.00
UNII-2C	5500	100	15.75
	5600	120	16.50
	5620	124	15.76
	5720	144	16.74
UNII-3	5745	149	16.61
	5785	157	15.82
	5825	165	16.12
	5845	169	16.64
UNII-4	5865	173	16.31
	5885	177	15.71
5GHz WIFI (20MHz 802.11n SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.26
	5200	40	15.68
	5220	44	16.08
	5240	48	15.12
UNII-2A	5260	52	16.01
	5280	56	15.97
	5300	60	15.73
	5320	64	14.79
UNII-2C	5500	100	16.10
	5600	120	16.24
	5620	124	15.72
	5720	144	15.80
UNII-3	5745	149	15.94
	5785	157	16.06
	5825	165	16.04
	5845	169	15.91
UNII-4	5865	173	15.86
	5885	177	15.68
5GHz WIFI (20MHz 802.11ac SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.49
	5200	40	15.88
	5220	44	16.21
	5240	48	15.30
UNII-2A	5260	52	15.88
	5280	56	16.01
	5300	60	15.81
	5320	64	15.08
UNII-2C	5500	100	16.10
	5600	120	16.42
	5620	124	15.97
	5720	144	16.04
UNII-3	5745	149	16.11
	5785	157	16.07
	5825	165	16.13
	5845	169	16.19
UNII-4	5865	173	16.11
	5885	177	16.13
5GHz WIFI (20MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.59
	5200	40	15.99
	5220	44	16.28
	5240	48	15.20
UNII-2A	5260	52	15.85
	5280	56	16.04
	5300	60	15.65
	5320	64	14.90
UNII-2C	5500	100	16.23
	5600	120	16.31
	5620	124	15.81
	5720	144	15.95
UNII-3	5745	149	15.86
	5785	157	15.83
	5825	165	15.76
	5845	169	15.97
UNII-4	5865	173	15.80
	5885	177	15.77

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Table 10-71

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

5GHz WIFI (40MHz 802.11n SISO ANTG)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.35
	5230	46	13.81
UNII-2A	5270	54	13.95
	5310	62	13.45
UNII-2C	5510	102	13.73
	5590	118	13.76
	5630	126	13.98
	5710	142	13.87
UNII-3	5755	151	13.98
	5795	159	13.96
UNII-4	5835	167	13.82
	5875	175	13.75

Table 10-72

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

5GHz WIFI (20MHz 802.11a MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5180	36	13.85	15.25	17.62
	5200	40	14.30	16.08	18.29
	5220	44	14.65	16.99	18.99
	5240	48	14.63	15.55	18.12
UNII-2A	5260	52	13.80	16.15	18.14
	5280	56	14.05	15.80	18.02
	5300	60	13.60	16.03	17.99
	5320	64	13.60	15.20	17.48
UNII-2C	5500	100	14.48	16.15	18.40
	5600	120	14.58	16.75	18.81
	5620	124	14.15	16.45	18.46
	5720	144	14.15	16.35	18.40
UNII-3	5745	149	14.55	15.55	18.09
	5785	157	14.40	15.80	18.17
	5825	165	14.55	16.20	18.46
UNII-4	5845	169	14.30	16.25	18.39
	5865	173	13.85	16.20	18.19
	5885	177	13.50	15.80	17.81

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Table 10-73

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

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	10.50	11.60	14.10
	5230	46	10.85	13.30	15.26
UNII-2A	5270	54	10.38	13.45	15.19
	5310	62	10.66	13.17	15.10
UNII-2C	5510	102	10.92	13.53	15.43
	5590	118	11.51	13.67	15.73
	5630	126	10.99	13.81	15.64
	5710	142	10.41	13.61	15.31
UNII-3	5755	151	11.39	13.90	15.83
	5795	159	10.90	13.87	15.64
UNII-4	5835	167	11.09	13.98	15.78
	5875	175	10.94	13.91	15.68

Table 10-74

6 GHz WLAN Measured P_{max} Average RF Power for all RSI – Ant G (SP)

6GHz WIFI (20MHz 802.11a SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5935	2	9.02
	5955	1	15.44
	6275	65	15.62
UNII-7	6675	145	15.32
6GHz WIFI (20MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5935	2	9.94
	5955	1	15.49
	6275	65	15.79
UNII-7	6675	145	15.99

Table 10-75

6 GHz WLAN Measured P_{max} Average RF Power for all RSI – Ant G (LPI)

6GHz WIFI (80MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-6	6465	103	9.76
UNII-8	7025	215	9.02

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Table 10-76

6 GHz WLAN Measured P_{max} Average RF Power for all RSI – MIMO

6GHz WIFI (20MHz 802.11a MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT E	ANT G	MIMO
UNII-5	5935	2	6.56	9.90	11.55
	5955	1	12.80	15.30	17.24
	6275	65	12.10	14.50	16.47
UNII-7	6675	145	12.80	14.95	17.02

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT E	ANT G	MIMO
UNII-6	6465	103	6.30	8.20	10.36
UNII-8	7025	215	6.40	8.35	10.49

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

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

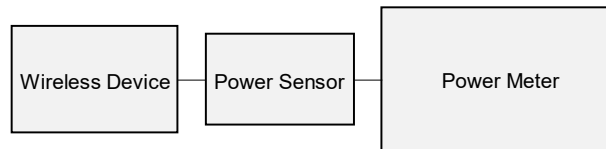


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-77
Bluetooth Measured P_{max} Average RF Power for all RSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	17.37	54.538
2441	1.0	39	17.73	59.253
2480	1.0	78	17.58	57.270
2402	2.0	0	12.75	18.841
2441	2.0	39	13.11	20.454
2480	2.0	78	13.06	20.208
2402	3.0	0	12.86	19.328
2441	3.0	39	13.20	20.881
2480	3.0	78	13.17	20.729

Table 10-78
Bluetooth LE Measured P_{max} Average RF Power for all RSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	12.21	16.634
2440	125 kbps	19	LE	12.02	15.904
2480	125 kbps	39	LE	12.01	15.874
2402	500 kbps	0	LE	12.25	16.769
2440	500 kbps	19	LE	12.00	15.849
2480	500 kbps	39	LE	12.02	15.929
2402	1 Mbps	0	LE	17.42	55.208
2440	1 Mbps	19	LE	17.43	55.284
2480	1 Mbps	39	LE	17.33	54.051
2404	2 Mbps	0	LE	17.78	59.993
2440	2 Mbps	19	LE	17.45	55.642
2478	2 Mbps	39	LE	17.37	54.513

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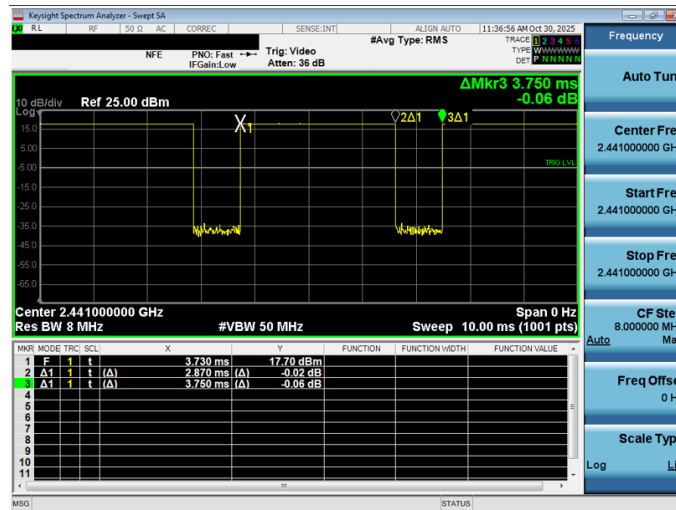


Figure 10-7
Bluetooth Antenna H Duty Cycle Plot

Equation 10-1
Bluetooth Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.87\text{ms}}{3.75\text{ms}} * 100\% = 76.5\%$$

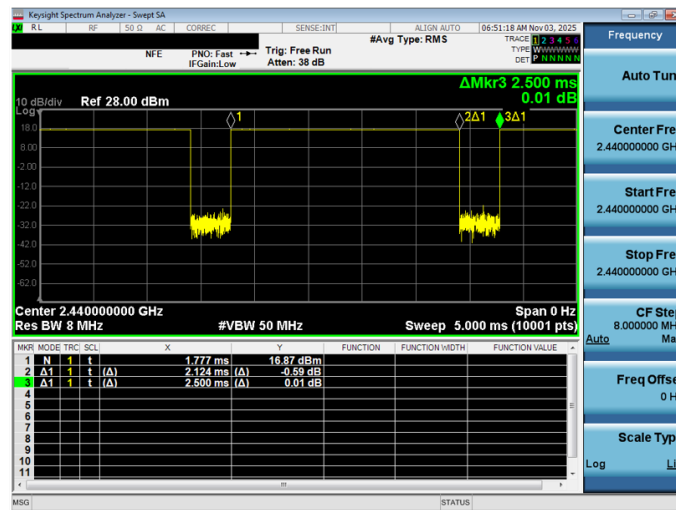


Figure 10-8
Bluetooth LE Antenna H Duty Cycle Plot

Equation 10-2
Bluetooth LE Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.124\text{ms}}{2.500\text{ms}} * 100\% = 85.0\%$$

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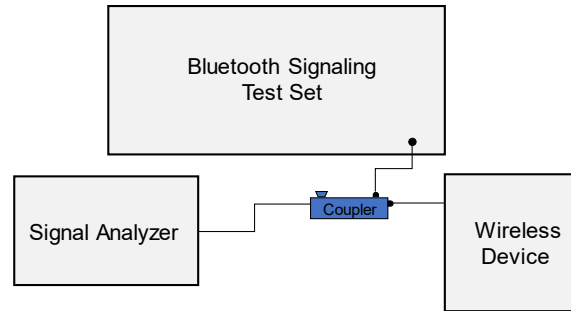


Figure 10-9
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/30/2025	30 Head	22.5	12	0.776	52.439	0.750	55.000	3.47%	-4.66%
			13	0.776	52.613	0.750	55.000	3.47%	-4.34%
			14	0.776	52.660	0.750	55.000	3.47%	-4.25%
			680	0.865	42.111	0.888	42.305	-2.59%	-0.46%
11/17/2025	750 Head	24.0	695	0.869	42.065	0.889	42.227	-2.25%	-0.36%
			700	0.870	42.055	0.889	42.201	-2.14%	-0.35%
			710	0.873	42.039	0.890	42.149	-1.91%	-0.26%
			725	0.879	42.018	0.891	42.071	-1.35%	-0.13%
			750	0.888	41.951	0.894	41.942	-0.67%	0.02%
			770	0.896	41.872	0.895	41.838	0.11%	0.08%
			785	0.902	41.813	0.896	41.760	0.67%	0.13%
			800	0.907	41.771	0.897	41.682	1.11%	0.21%
			680	0.863	40.321	0.888	42.305	-2.82%	-4.69%
			695	0.869	40.277	0.889	42.227	-2.25%	-4.62%
			710	0.874	40.241	0.890	42.149	-1.80%	-4.53%
			725	0.877	40.218	0.891	42.071	-1.57%	-4.40%
11/17/2025	750 Head	23.2	750	0.883	40.145	0.894	41.942	-1.23%	-4.28%
			770	0.890	40.075	0.895	41.838	-0.56%	-4.21%
			785	0.895	40.026	0.896	41.760	-0.11%	-4.15%
			800	0.900	39.988	0.897	41.682	0.33%	-4.06%
11/19/2025	750 Head	24.0	680	0.854	40.550	0.888	42.305	-3.83%	-4.15%
			695	0.858	40.505	0.889	42.227	-3.49%	-4.08%
			700	0.860	40.489	0.889	42.201	-3.26%	-4.06%
			710	0.863	40.456	0.890	42.149	-3.03%	-4.02%
			725	0.868	40.398	0.891	42.071	-2.58%	-3.98%
			750	0.876	40.300	0.894	41.942	-2.01%	-3.91%
			770	0.882	40.244	0.895	41.838	-1.45%	-3.81%
			785	0.887	40.218	0.896	41.760	-1.00%	-3.69%
			800	0.892	40.188	0.897	41.682	-0.56%	-3.58%
			680	0.867	40.625	0.888	42.305	-2.36%	-3.97%
			695	0.872	40.561	0.889	42.227	-1.91%	-3.95%
			710	0.878	40.519	0.890	42.149	-1.35%	-3.87%
11/20/2025	750 Head	21.6	725	0.884	40.485	0.891	42.071	-0.79%	-3.77%
			750	0.893	40.420	0.894	41.942	-0.11%	-3.63%
			770	0.898	40.349	0.895	41.838	0.34%	-3.56%
			785	0.903	40.286	0.896	41.760	0.78%	-3.53%
			800	0.909	40.221	0.897	41.682	1.34%	-3.51%
11/06/2025	835 Head	24.3	815	0.891	41.356	0.898	41.594	-0.78%	-0.57%
			820	0.893	41.346	0.899	41.578	-0.67%	-0.56%
			835	0.898	41.318	0.900	41.500	-0.22%	-0.44%
			850	0.904	41.277	0.916	41.500	-1.31%	-0.54%
11/13/2025	835 Head	21.0	815	0.899	42.837	0.898	41.594	0.11%	2.99%
			820	0.901	42.823	0.899	41.578	0.22%	2.99%
			835	0.906	42.781	0.900	41.500	0.67%	3.09%
			850	0.911	42.742	0.916	41.500	-0.55%	2.99%
11/17/2025	835 Head	23.2	815	0.904	39.953	0.898	41.594	0.67%	-3.95%
			820	0.906	39.931	0.899	41.578	0.78%	-3.96%
			835	0.912	39.893	0.900	41.500	1.33%	-3.87%
			850	0.916	39.856	0.916	41.500	0.00%	-3.96%
11/19/2025	835 Head	24.0	815	0.897	40.140	0.898	41.594	-0.11%	-3.50%
			820	0.899	40.123	0.899	41.578	0.00%	-3.50%
			835	0.905	40.063	0.900	41.500	0.56%	-3.46%
			850	0.910	40.016	0.916	41.500	-0.66%	-3.58%
11/24/2025	835 Head	23.2	815	0.892	40.609	0.898	41.594	-0.67%	-2.37%
			820	0.894	40.593	0.899	41.578	-0.56%	-2.37%
			835	0.898	40.542	0.900	41.500	-0.22%	-2.31%
			850	0.903	40.496	0.916	41.500	-1.42%	-2.42%
12/03/2025	835 Head	22.8	815	0.892	43.402	0.898	41.594	-0.67%	4.35%
			820	0.894	43.393	0.899	41.578	-0.56%	4.37%
			835	0.898	43.352	0.900	41.500	-0.22%	4.46%
			850	0.903	43.304	0.916	41.500	-1.42%	4.35%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/13/2025	1750 Head	20.2	1700	1.280	38.517	1.343	40.145	-4.69%	-4.06%
			1705	1.282	38.511	1.345	40.141	-4.68%	-4.06%
			1710	1.286	38.510	1.348	40.136	-4.60%	-4.05%
			1720	1.292	38.502	1.354	40.126	-4.58%	-4.05%
			1745	1.309	38.471	1.368	40.087	-4.31%	-4.03%
			1750	1.311	38.463	1.371	40.079	-4.38%	-4.03%
			1770	1.322	38.412	1.383	40.047	-4.41%	-4.08%
			1790	1.334	38.367	1.394	40.016	-4.30%	-4.12%
11/17/2025	1750 Head	20.4	1700	1.297	39.286	1.343	40.145	-3.43%	-2.14%
			1705	1.300	39.276	1.345	40.141	-3.35%	-2.15%
			1710	1.303	39.266	1.348	40.136	-3.34%	-2.17%
			1720	1.309	39.244	1.354	40.126	-3.32%	-2.20%
			1745	1.323	39.192	1.368	40.087	-3.29%	-2.23%
			1750	1.325	39.183	1.371	40.079	-3.36%	-2.24%
			1770	1.337	39.157	1.383	40.047	-3.33%	-2.22%
			1790	1.348	39.134	1.394	40.016	-3.30%	-2.20%
11/17/2025	1750 Head	19.3	1700	1.283	40.118	1.343	40.145	-4.47%	-0.07%
			1705	1.286	40.109	1.345	40.141	-4.39%	-0.08%
			1710	1.289	40.102	1.348	40.136	-4.38%	-0.08%
			1720	1.294	40.087	1.354	40.126	-4.43%	-0.10%
			1745	1.308	40.044	1.368	40.087	-4.39%	-0.11%
			1750	1.310	40.033	1.371	40.079	-4.45%	-0.11%
			1770	1.321	39.988	1.383	40.047	-4.48%	-0.15%
			1790	1.332	39.957	1.394	40.016	-4.45%	-0.15%
11/27/2025	1750 Head	20.3	1700	1.313	41.825	1.343	40.145	-2.23%	4.18%
			1705	1.316	41.817	1.345	40.141	-2.16%	4.18%
			1710	1.319	41.807	1.348	40.136	-2.15%	4.16%
			1720	1.324	41.781	1.354	40.126	-2.22%	4.12%
			1745	1.340	41.711	1.368	40.087	-2.05%	4.05%
			1750	1.343	41.701	1.371	40.079	-2.04%	4.05%
			1770	1.355	41.672	1.383	40.047	-2.02%	4.06%
			1790	1.365	41.642	1.394	40.016	-2.08%	4.06%
11/27/2025	1750 Head	21.0	1700	1.297	38.976	1.343	40.145	-3.43%	-2.91%
			1705	1.300	38.968	1.345	40.141	-3.35%	-2.92%
			1710	1.304	38.959	1.348	40.136	-3.26%	-2.93%
			1720	1.310	38.939	1.354	40.126	-3.25%	-2.96%
			1745	1.327	38.899	1.368	40.087	-3.00%	-2.96%
			1750	1.331	38.891	1.371	40.079	-2.92%	-2.96%
			1770	1.344	38.869	1.383	40.047	-2.82%	-2.94%
			1790	1.354	38.838	1.394	40.016	-2.87%	-2.94%
12/01/2025	1750 Head	19.0	1700	1.278	39.140	1.343	40.145	-4.84%	-2.50%
			1705	1.281	39.133	1.345	40.141	-4.76%	-2.51%
			1710	1.284	39.128	1.348	40.136	-4.75%	-2.51%
			1720	1.290	39.110	1.354	40.126	-4.73%	-2.53%
			1745	1.308	39.074	1.368	40.087	-4.39%	-2.53%
			1750	1.311	39.066	1.371	40.079	-4.38%	-2.53%
			1770	1.325	39.038	1.383	40.047	-4.19%	-2.52%
			1790	1.337	39.010	1.394	40.016	-4.09%	-2.51%
12/04/2025	1750 Head	19.2	1700	1.317	39.317	1.343	40.145	-1.94%	-2.06%
			1705	1.319	39.309	1.345	40.141	-1.93%	-2.07%
			1710	1.322	39.299	1.348	40.136	-1.93%	-2.09%
			1720	1.328	39.278	1.354	40.126	-1.92%	-2.11%
			1745	1.344	39.221	1.368	40.087	-1.75%	-2.16%
			1750	1.347	39.209	1.371	40.079	-1.75%	-2.17%
			1770	1.361	39.165	1.383	40.047	-1.59%	-2.20%
			1790	1.373	39.127	1.394	40.016	-1.51%	-2.22%
12/14/2025	1750 Head	20.9	1700	1.281	40.922	1.343	40.145	-4.62%	1.94%
			1705	1.285	40.916	1.345	40.141	-4.46%	1.93%
			1710	1.288	40.908	1.348	40.136	-4.45%	1.92%
			1720	1.294	40.891	1.354	40.126	-4.43%	1.91%
			1745	1.309	40.834	1.368	40.087	-4.31%	1.86%
			1750	1.312	40.824	1.371	40.079	-4.30%	1.86%
			1770	1.324	40.796	1.383	40.047	-4.27%	1.87%
			1790	1.337	40.769	1.394	40.016	-4.09%	1.88%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/13/2025	1900 Head	20.2	1850	1.369	38.285	1.400	40.000	-2.21%	-4.29%
			1860	1.375	38.275	1.400	40.000	-1.79%	-4.31%
			1880	1.386	38.251	1.400	40.000	-1.00%	-4.37%
			1900	1.398	38.217	1.400	40.000	-0.14%	-4.46%
			1905	1.401	38.207	1.400	40.000	0.07%	-4.48%
			1910	1.405	38.196	1.400	40.000	0.36%	-4.51%
			1920	1.411	38.177	1.400	40.000	0.79%	-4.56%
11/17/2025	1900 Head	20.4	1850	1.382	39.069	1.400	40.000	-1.29%	-2.33%
			1860	1.389	39.069	1.400	40.000	-0.79%	-2.33%
			1880	1.402	39.063	1.400	40.000	0.14%	-2.34%
			1900	1.416	39.044	1.400	40.000	1.14%	-2.39%
			1905	1.420	39.038	1.400	40.000	1.43%	-2.41%
			1910	1.424	39.032	1.400	40.000	1.71%	-2.42%
			1920	1.431	39.020	1.400	40.000	2.21%	-2.45%
11/17/2025	1900 Head	19.3	1850	1.368	39.884	1.400	40.000	-2.29%	-0.29%
			1860	1.374	39.872	1.400	40.000	-1.86%	-0.32%
			1880	1.386	39.853	1.400	40.000	-1.00%	-0.37%
			1900	1.398	39.836	1.400	40.000	-0.14%	-0.41%
			1905	1.401	39.830	1.400	40.000	0.07%	-0.43%
			1910	1.404	39.819	1.400	40.000	0.29%	-0.45%
			1920	1.410	39.797	1.400	40.000	0.71%	-0.51%
11/27/2025	1900 Head	20.3	1850	1.400	41.526	1.400	40.000	0.00%	3.82%
			1860	1.405	41.519	1.400	40.000	0.36%	3.80%
			1880	1.417	41.497	1.400	40.000	1.21%	3.74%
			1900	1.429	41.463	1.400	40.000	2.07%	3.66%
			1905	1.433	41.454	1.400	40.000	2.36%	3.64%
			1910	1.436	41.447	1.400	40.000	2.57%	3.62%
			1920	1.443	41.437	1.400	40.000	3.07%	3.59%
12/08/2025	1900 Head	21.5	1850	1.382	38.512	1.400	40.000	-1.29%	-3.72%
			1860	1.388	38.506	1.400	40.000	-0.86%	-3.74%
			1880	1.401	38.486	1.400	40.000	0.07%	-3.79%
			1900	1.413	38.447	1.400	40.000	0.93%	-3.88%
			1905	1.415	38.437	1.400	40.000	1.07%	-3.91%
			1910	1.418	38.431	1.400	40.000	1.29%	-3.92%
			1920	1.423	38.418	1.400	40.000	1.64%	-3.96%
12/14/2025	1900 Head	20.9	1850	1.373	40.670	1.400	40.000	-1.93%	1.68%
			1860	1.380	40.660	1.400	40.000	-1.43%	1.65%
			1880	1.393	40.634	1.400	40.000	-0.50%	1.59%
			1900	1.405	40.592	1.400	40.000	0.36%	1.48%
			1905	1.408	40.581	1.400	40.000	0.57%	1.45%
			1910	1.412	40.571	1.400	40.000	0.86%	1.43%
			1920	1.419	40.555	1.400	40.000	1.36%	1.39%
11/24/2025	2450 Head	19.8	2300	1.673	38.194	1.670	39.500	0.18%	-3.31%
			2310	1.682	38.187	1.679	39.480	0.18%	-3.28%
			2320	1.690	38.184	1.687	39.460	0.18%	-3.23%
			2400	1.746	38.054	1.756	39.289	-0.57%	-3.14%
			2450	1.787	37.999	1.800	39.200	-0.72%	-3.06%
			2480	1.807	37.940	1.833	39.162	-1.42%	-3.12%
			2500	1.823	37.899	1.855	39.136	-1.73%	-3.16%
			2510	1.831	37.878	1.866	39.123	-1.88%	-3.18%
			2535	1.854	37.845	1.893	39.092	-2.06%	-3.19%
			2550	1.867	37.832	1.909	39.073	-2.20%	-3.18%
			2560	1.875	37.818	1.920	39.060	-2.34%	-3.18%
			2600	1.904	37.742	1.964	39.009	-3.05%	-3.25%
			2650	1.946	37.647	2.018	38.945	-3.57%	-3.33%
			2680	1.970	37.606	2.051	38.907	-3.95%	-3.34%
			2700	1.985	37.575	2.073	38.882	-4.25%	-3.36%
11/24/2025	2450 Head	20.8	2300	1.666	39.483	1.670	39.500	-0.24%	-0.04%
			2310	1.673	39.462	1.679	39.480	-0.36%	-0.05%
			2320	1.681	39.444	1.687	39.460	-0.36%	-0.04%
			2400	1.740	39.335	1.756	39.289	-0.91%	0.12%
			2450	1.778	39.268	1.800	39.200	-1.22%	0.17%
			2480	1.801	39.219	1.833	39.162	-1.75%	0.15%
			2500	1.817	39.195	1.855	39.136	-2.05%	0.15%
			2510	1.824	39.181	1.866	39.123	-2.25%	0.15%
			2535	1.844	39.149	1.893	39.092	-2.59%	0.15%
			2550	1.855	39.129	1.909	39.073	-2.83%	0.14%
			2560	1.864	39.114	1.920	39.060	-2.92%	0.14%
			2600	1.897	39.054	1.964	39.009	-3.41%	0.12%
			2650	1.939	38.990	2.018	38.945	-3.91%	0.12%
			2680	1.966	38.935	2.051	38.907	-4.14%	0.07%
			2700	1.982	38.896	2.073	38.882	-4.39%	0.04%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/27/2025	2450 Head	20.0	2300	1.684	38.651	1.670	39.500	0.84%	-2.15%
			2310	1.692	38.639	1.679	39.480	0.77%	-2.13%
			2320	1.699	38.632	1.687	39.460	0.71%	-2.10%
			2400	1.762	38.504	1.756	39.289	0.34%	-2.00%
			2450	1.796	38.442	1.800	39.200	-0.22%	-1.93%
			2480	1.819	38.357	1.833	39.162	-0.76%	-2.06%
			2500	1.839	38.319	1.855	39.136	-0.86%	-2.09%
			2510	1.849	38.311	1.866	39.123	-0.91%	-2.08%
			2535	1.869	38.305	1.893	39.092	-1.27%	-2.01%
			2550	1.879	38.289	1.909	39.073	-1.57%	-2.01%
			2560	1.885	38.266	1.920	39.060	-1.82%	-2.03%
			2600	1.915	38.141	1.964	39.009	-2.49%	-2.23%
			2650	1.964	38.106	2.018	38.945	-2.68%	-2.15%
			2680	1.981	38.047	2.051	38.907	-3.41%	-2.21%
			2700	1.994	37.983	2.073	38.882	-3.81%	-2.31%
			2300	1.655	40.440	1.670	39.500	-0.90%	2.38%
			2310	1.663	40.428	1.679	39.480	-0.95%	2.40%
12/01/2025	2450 Head	20.3	2320	1.672	40.420	1.687	39.460	-0.89%	2.43%
			2400	1.734	40.320	1.756	39.289	-1.25%	2.62%
			2450	1.772	40.250	1.800	39.200	-1.56%	2.68%
			2480	1.797	40.190	1.833	39.162	-1.96%	2.62%
			2500	1.813	40.166	1.855	39.136	-2.26%	2.63%
			2510	1.820	40.150	1.866	39.123	-2.47%	2.63%
			2535	1.841	40.096	1.893	39.092	-2.75%	2.57%
			2550	1.855	40.064	1.909	39.073	-2.83%	2.54%
			2560	1.864	40.045	1.920	39.060	-2.92%	2.52%
			2600	1.897	39.976	1.964	39.009	-3.41%	2.48%
			2650	1.941	39.867	2.018	38.945	-3.82%	2.37%
			2680	1.963	39.817	2.051	38.907	-4.29%	2.34%
			2700	1.978	39.766	2.073	38.882	-4.58%	2.27%
			2300	1.712	39.627	1.670	39.500	2.51%	0.32%
			2310	1.720	39.609	1.679	39.480	2.44%	0.33%
			2320	1.727	39.594	1.687	39.460	2.37%	0.34%
			2400	1.785	39.479	1.756	39.289	1.65%	0.48%
12/01/2025	2450 Head	20.5	2450	1.821	39.409	1.800	39.200	1.17%	0.53%
			2480	1.845	39.353	1.833	39.162	0.65%	0.49%
			2500	1.861	39.329	1.855	39.136	0.32%	0.49%
			2510	1.869	39.314	1.866	39.123	0.16%	0.49%
			2535	1.888	39.264	1.893	39.092	-0.26%	0.44%
			2550	1.900	39.237	1.909	39.073	-0.47%	0.42%
			2560	1.908	39.222	1.920	39.060	-0.63%	0.41%
			2600	1.939	39.163	1.964	39.009	-1.27%	0.39%
			2650	1.982	39.073	2.018	38.945	-1.78%	0.33%
			2680	2.006	39.019	2.051	38.907	-2.19%	0.29%
			2700	2.022	38.970	2.073	38.882	-2.46%	0.23%
			2300	1.673	38.423	1.670	39.500	0.18%	-2.73%
			2310	1.684	38.429	1.679	39.480	0.30%	-2.66%
			2320	1.692	38.440	1.687	39.460	0.30%	-2.58%
			2400	1.741	38.257	1.756	39.289	-0.85%	-2.63%
			2450	1.787	38.254	1.800	39.200	-0.72%	-2.41%
			2480	1.799	38.174	1.833	39.162	-1.85%	-2.52%
12/01/2025	2450 Head	21.4	2500	1.812	38.096	1.855	39.136	-2.32%	-2.66%
			2510	1.821	38.069	1.866	39.123	-2.41%	-2.69%
			2535	1.849	38.047	1.893	39.092	-2.32%	-2.67%
			2550	1.863	38.057	1.909	39.073	-2.41%	-2.60%
			2560	1.871	38.054	1.920	39.060	-2.55%	-2.58%
			2600	1.892	37.958	1.964	39.009	-3.67%	-2.69%
			2650	1.934	37.856	2.018	38.945	-4.16%	-2.80%
			2680	1.961	37.831	2.051	38.907	-4.39%	-2.77%
			2700	1.975	37.802	2.073	38.882	-4.73%	-2.78%
			2300	1.694	40.148	1.670	39.500	1.44%	1.64%
			2310	1.703	40.131	1.679	39.480	1.43%	1.65%
			2320	1.712	40.119	1.687	39.460	1.48%	1.67%
			2400	1.778	39.997	1.756	39.289	1.25%	1.80%
			2450	1.819	39.915	1.800	39.200	1.06%	1.82%
			2480	1.844	39.845	1.833	39.162	0.60%	1.74%
			2500	1.860	39.820	1.855	39.136	0.27%	1.75%
			2510	1.867	39.804	1.866	39.123	0.05%	1.74%
12/02/2025	2450 Head	20.8	2535	1.886	39.749	1.893	39.092	-0.37%	1.68%
			2550	1.898	39.714	1.909	39.073	-0.58%	1.64%
			2560	1.907	39.697	1.920	39.060	-0.68%	1.63%
			2600	1.938	39.650	1.964	39.009	-1.32%	1.64%
			2650	1.980	39.556	2.018	38.945	-1.88%	1.57%
			2680	2.002	39.521	2.051	38.907	-2.39%	1.58%
			2700	2.017	39.477	2.073	38.882	-2.70%	1.53%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/08/2025	2450 Head	24.6	2300	1.647	39.835	1.670	39.500	-1.38%	0.85%
			2310	1.654	39.835	1.679	39.480	-1.49%	0.90%
			2320	1.659	39.831	1.687	39.460	-1.66%	0.94%
			2400	1.714	39.722	1.756	39.289	-2.39%	1.10%
			2450	1.747	39.612	1.800	39.200	-2.94%	1.05%
			2480	1.771	39.595	1.833	39.162	-3.38%	1.11%
			2500	1.781	39.565	1.855	39.136	-3.99%	1.10%
			2510	1.787	39.542	1.866	39.123	-4.23%	1.07%
			2535	1.806	39.491	1.893	39.092	-4.60%	1.02%
			2550	1.819	39.471	1.909	39.073	-4.71%	1.02%
			2560	1.827	39.455	1.920	39.060	-4.84%	1.01%
			2700	1.643	38.600	1.670	39.500	-1.62%	-2.28%
12/10/2025	2450 Head	21.0	2310	1.651	38.585	1.679	39.480	-1.67%	-2.27%
			2320	1.658	38.574	1.687	39.460	-1.72%	-2.25%
			2400	1.718	38.510	1.756	39.289	-2.16%	-1.98%
			2450	1.758	38.476	1.800	39.200	-2.33%	-1.85%
			2480	1.784	38.446	1.833	39.162	-2.67%	-1.83%
			2500	1.800	38.445	1.855	39.136	-2.96%	-1.77%
			2510	1.808	38.440	1.866	39.123	-3.11%	-1.75%
			2535	1.828	38.410	1.893	39.092	-3.43%	-1.74%
			2550	1.842	38.395	1.909	39.073	-3.51%	-1.74%
			2560	1.852	38.391	1.920	39.060	-3.54%	-1.71%
			2600	1.884	38.385	1.964	39.009	-4.07%	-1.60%
			2650	1.931	38.340	2.018	38.945	-4.31%	-1.55%
			2680	1.955	38.332	2.051	38.907	-4.68%	-1.48%
			2700	1.971	38.300	2.073	38.882	-4.92%	-1.50%
			2300	1.721	40.505	1.670	39.500	3.05%	2.54%
			2310	1.729	40.487	1.679	39.480	2.98%	2.55%
			2320	1.737	40.471	1.687	39.460	2.96%	2.56%
12/17/2025	2450 Head	21.3	2400	1.800	40.334	1.756	39.289	2.51%	2.66%
			2450	1.840	40.246	1.800	39.200	2.22%	2.67%
			2480	1.863	40.185	1.833	39.162	1.64%	2.61%
			2500	1.879	40.161	1.855	39.136	1.29%	2.62%
			2510	1.887	40.145	1.866	39.123	1.13%	2.61%
			2535	1.905	40.094	1.893	39.092	0.63%	2.56%
			2550	1.918	40.065	1.909	39.073	0.47%	2.54%
			2560	1.927	40.052	1.920	39.060	0.36%	2.54%
			2600	1.957	39.996	1.964	39.009	-0.36%	2.53%
			2650	2.000	39.909	2.018	38.945	-0.89%	2.48%
			2680	2.024	39.868	2.051	38.907	-1.32%	2.47%
			2700	2.040	39.822	2.073	38.882	-1.59%	2.42%
			2300	1.736	40.801	1.670	39.500	3.95%	3.29%
			2310	1.744	40.784	1.679	39.480	3.87%	3.30%
			2320	1.752	40.756	1.687	39.460	3.85%	3.28%
			2400	1.818	40.619	1.756	39.289	3.53%	3.39%
12/22/2025	2450 Head	20.8	2450	1.856	40.531	1.800	39.200	3.11%	3.40%
			2480	1.882	40.476	1.833	39.162	2.67%	3.36%
			2500	1.901	40.445	1.855	39.136	2.48%	3.34%
			2510	1.911	40.431	1.866	39.123	2.41%	3.34%
			2535	1.933	40.397	1.893	39.092	2.11%	3.34%
			2550	1.946	40.372	1.909	39.073	1.94%	3.32%
			2560	1.955	40.348	1.920	39.060	1.82%	3.30%
			2600	1.989	40.254	1.964	39.009	1.27%	3.19%
			2650	2.034	40.164	2.018	38.945	0.79%	3.13%
			2680	2.058	40.089	2.051	38.907	0.34%	3.04%
			2700	2.074	40.051	2.073	38.882	0.05%	3.01%
			2300	1.659	40.367	1.670	39.500	-0.66%	2.19%
			2310	1.666	40.339	1.679	39.480	-0.77%	2.18%
			2320	1.675	40.315	1.687	39.460	-0.71%	2.17%
			2400	1.736	40.195	1.756	39.289	-1.14%	2.31%
			2450	1.778	40.129	1.800	39.200	-1.22%	2.37%
			2480	1.800	40.059	1.833	39.162	-1.80%	2.29%
12/22/2025	2450 Head	19.5	2500	1.817	40.027	1.855	39.136	-2.05%	2.28%
			2510	1.825	40.017	1.866	39.123	-2.20%	2.29%
			2535	1.844	39.986	1.893	39.092	-2.59%	2.29%
			2550	1.855	39.955	1.909	39.073	-2.83%	2.26%
			2560	1.863	39.932	1.920	39.060	-2.97%	2.23%
			2600	1.897	39.864	1.964	39.009	-3.41%	2.19%
			2650	1.935	39.784	2.018	38.945	-4.11%	2.15%
			2680	1.963	39.728	2.051	38.907	-4.29%	2.11%
			2700	1.979	39.695	2.073	38.882	-4.53%	2.09%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/19/2025	3600 Head	20.0	3300	2.766	36.976	2.708	38.157	2.14%	-3.10%
			3350	2.795	36.924	2.759	38.100	1.30%	-3.09%
			3450	2.874	36.764	2.861	37.986	0.45%	-3.22%
			3500	2.913	36.736	2.913	37.929	0.00%	-3.15%
			3550	2.959	36.639	2.964	37.871	-0.17%	-3.25%
			3560	2.967	36.644	2.974	37.860	-0.24%	-3.21%
			3600	2.991	36.582	3.015	37.814	-0.80%	-3.26%
			3650	3.039	36.535	3.066	37.757	-0.88%	-3.24%
			3690	3.066	36.460	3.107	37.711	-1.32%	-3.32%
			3700	3.076	36.444	3.117	37.700	-1.32%	-3.33%
			3750	3.112	36.415	3.169	37.643	-1.80%	-3.26%
			3900	3.234	36.233	3.323	37.471	-2.68%	-3.30%
			3930	3.264	36.160	3.353	37.437	-2.65%	-3.41%
			4100	3.418	35.942	3.528	37.243	-3.12%	-3.49%
			4150	3.460	35.911	3.579	37.186	-3.32%	-3.43%
11/26/2025	3600 Head	21.0	3300	2.814	36.885	2.708	38.157	3.91%	-3.33%
			3350	2.848	36.828	2.759	38.100	3.23%	-3.34%
			3450	2.929	36.671	2.861	37.986	2.38%	-3.46%
			3500	2.972	36.623	2.913	37.929	2.03%	-3.44%
			3550	3.015	36.523	2.964	37.871	1.72%	-3.56%
			3560	3.024	36.517	2.974	37.860	1.68%	-3.55%
			3600	3.052	36.460	3.015	37.814	1.23%	-3.58%
			3650	3.099	36.390	3.066	37.757	1.08%	-3.62%
			3690	3.126	36.332	3.107	37.711	0.61%	-3.66%
			3700	3.134	36.312	3.117	37.700	0.55%	-3.68%
			3750	3.175	36.263	3.169	37.643	0.19%	-3.67%
			3900	3.301	36.070	3.323	37.471	-0.66%	-3.74%
			3930	3.328	36.012	3.353	37.437	-0.75%	-3.81%
			4100	3.482	35.802	3.528	37.243	-1.30%	-3.87%
			4150	3.531	35.752	3.579	37.186	-1.34%	-3.86%
11/26/2025	3600 Head	21.0	3300	2.814	36.885	2.708	38.157	3.91%	-3.33%
			3350	2.848	36.828	2.759	38.100	3.23%	-3.34%
			3450	2.929	36.671	2.861	37.986	2.38%	-3.46%
			3500	2.972	36.623	2.913	37.929	2.03%	-3.44%
			3550	3.015	36.523	2.964	37.871	1.72%	-3.56%
			3560	3.024	36.517	2.974	37.860	1.68%	-3.55%
			3600	3.052	36.460	3.015	37.814	1.23%	-3.58%
			3650	3.099	36.390	3.066	37.757	1.08%	-3.62%
			3690	3.126	36.332	3.107	37.711	0.61%	-3.66%
			3700	3.134	36.312	3.117	37.700	0.55%	-3.68%
			3750	3.175	36.263	3.169	37.643	0.19%	-3.67%
			3900	3.301	36.070	3.323	37.471	-0.66%	-3.74%
			3930	3.328	36.012	3.353	37.437	-0.75%	-3.81%
			4100	3.482	35.802	3.528	37.243	-1.30%	-3.87%
			4150	3.531	35.752	3.579	37.186	-1.34%	-3.86%
12/01/2025	3600 Head	20.2	3300	2.811	37.721	2.708	38.157	3.80%	-1.14%
			3350	2.847	37.681	2.759	38.100	3.19%	-1.10%
			3450	2.927	37.529	2.861	37.986	2.31%	-1.20%
			3500	2.972	37.484	2.913	37.929	2.03%	-1.17%
			3550	3.015	37.386	2.964	37.871	1.72%	-1.28%
			3560	3.026	37.382	2.974	37.860	1.75%	-1.26%
			3600	3.053	37.331	3.015	37.814	1.26%	-1.28%
			3650	3.100	37.261	3.066	37.757	1.11%	-1.31%
			3690	3.128	37.214	3.107	37.711	0.68%	-1.32%
			3700	3.137	37.195	3.117	37.700	0.64%	-1.34%
			3750	3.177	37.150	3.169	37.643	0.25%	-1.31%
			3900	3.306	36.977	3.323	37.471	-0.51%	-1.32%
			3930	3.333	36.922	3.353	37.437	-0.60%	-1.38%
			4100	3.492	36.715	3.528	37.243	-1.02%	-1.42%
			4150	3.545	36.669	3.579	37.186	-0.95%	-1.39%
12/01/2025	3600 Head	20.2	3300	2.811	37.721	2.708	38.157	3.80%	-1.14%
			3350	2.847	37.681	2.759	38.100	3.19%	-1.10%
			3450	2.927	37.529	2.861	37.986	2.31%	-1.20%
			3500	2.972	37.484	2.913	37.929	2.03%	-1.17%
			3550	3.015	37.386	2.964	37.871	1.72%	-1.28%
			3560	3.026	37.382	2.974	37.860	1.75%	-1.26%
			3600	3.053	37.331	3.015	37.814	1.26%	-1.28%
			3650	3.100	37.261	3.066	37.757	1.11%	-1.31%
			3690	3.128	37.214	3.107	37.711	0.68%	-1.32%
			3700	3.137	37.195	3.117	37.700	0.64%	-1.34%
			3750	3.177	37.150	3.169	37.643	0.25%	-1.31%
			3900	3.306	36.977	3.323	37.471	-0.51%	-1.32%
			3930	3.333	36.922	3.353	37.437	-0.60%	-1.38%
			4100	3.492	36.715	3.528	37.243	-1.02%	-1.42%
			4150	3.545	36.669	3.579	37.186	-0.95%	-1.39%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/03/2025	3600 Head	19.3	3300	2.810	36.964	2.708	38.157	3.77%	-3.13%
			3350	2.849	36.914	2.759	38.100	3.26%	-3.11%
			3450	2.929	36.746	2.861	37.986	2.38%	-3.26%
			3500	2.975	36.683	2.913	37.929	2.13%	-3.29%
			3550	3.015	36.592	2.964	37.871	1.72%	-3.38%
			3560	3.026	36.578	2.974	37.860	1.75%	-3.39%
			3600	3.056	36.539	3.015	37.814	1.36%	-3.37%
			3650	3.103	36.459	3.066	37.757	1.21%	-3.44%
			3690	3.131	36.401	3.107	37.711	0.77%	-3.47%
			3700	3.141	36.383	3.117	37.700	0.77%	-3.49%
			3750	3.184	36.333	3.169	37.643	0.47%	-3.48%
			3900	3.318	36.117	3.323	37.471	-0.15%	-3.61%
			3930	3.343	36.067	3.353	37.437	-0.30%	-3.66%
			4100	3.503	35.830	3.528	37.243	-0.71%	-3.79%
			4150	3.558	35.780	3.579	37.186	-0.59%	-3.78%
12/03/2025	3600 Head	19.3	3300	2.810	36.964	2.708	38.157	3.77%	-3.13%
			3350	2.849	36.914	2.759	38.100	3.26%	-3.11%
			3450	2.929	36.746	2.861	37.986	2.38%	-3.26%
			3500	2.975	36.683	2.913	37.929	2.13%	-3.29%
			3550	3.015	36.592	2.964	37.871	1.72%	-3.38%
			3560	3.026	36.578	2.974	37.860	1.75%	-3.39%
			3600	3.056	36.539	3.015	37.814	1.36%	-3.37%
			3650	3.103	36.459	3.066	37.757	1.21%	-3.44%
			3690	3.131	36.401	3.107	37.711	0.77%	-3.47%
			3700	3.141	36.383	3.117	37.700	0.77%	-3.49%
			3750	3.184	36.333	3.169	37.643	0.47%	-3.48%
			3900	3.318	36.117	3.323	37.471	-0.15%	-3.61%
			3930	3.343	36.067	3.353	37.437	-0.30%	-3.66%
			4100	3.503	35.830	3.528	37.243	-0.71%	-3.79%
			4150	3.558	35.780	3.579	37.186	-0.59%	-3.78%
12/14/2025	3600 Head	20.7	3300	2.829	37.623	2.708	38.157	4.47%	-1.40%
			3350	2.864	37.557	2.759	38.100	3.81%	-1.43%
			3450	2.941	37.404	2.861	37.986	2.80%	-1.53%
			3500	2.980	37.355	2.913	37.929	2.30%	-1.51%
			3550	3.021	37.295	2.964	37.871	1.92%	-1.52%
			3560	3.030	37.294	2.974	37.860	1.88%	-1.49%
			3600	3.060	37.223	3.015	37.814	1.49%	-1.56%
			3650	3.106	37.162	3.066	37.757	1.30%	-1.58%
			3690	3.137	37.106	3.107	37.711	0.97%	-1.60%
			3700	3.146	37.092	3.117	37.700	0.93%	-1.61%
			3750	3.188	37.035	3.169	37.643	0.60%	-1.62%
			3900	3.320	36.820	3.323	37.471	-0.09%	-1.74%
			3930	3.345	36.769	3.353	37.437	-0.24%	-1.78%
			4100	3.493	36.541	3.528	37.243	-0.99%	-1.88%
			4150	3.542	36.481	3.579	37.186	-1.03%	-1.90%
12/17/2025	3600 Head	21.5	3300	2.843	37.334	2.708	38.157	4.99%	-2.16%
			3350	2.870	37.273	2.759	38.100	4.02%	-2.17%
			3450	2.953	37.094	2.861	37.986	3.22%	-2.35%
			3500	2.990	37.064	2.913	37.929	2.64%	-2.28%
			3550	3.039	36.952	2.964	37.871	2.53%	-2.43%
			3560	3.047	36.954	2.974	37.860	2.45%	-2.39%
			3600	3.069	36.880	3.015	37.814	1.79%	-2.47%
			3650	3.117	36.832	3.066	37.757	1.66%	-2.45%
			3690	3.145	36.731	3.107	37.711	1.22%	-2.60%
			3700	3.155	36.719	3.117	37.700	1.22%	-2.60%
			3750	3.189	36.681	3.169	37.643	0.63%	-2.56%
			3900	3.313	36.486	3.323	37.471	-0.30%	-2.63%
			3930	3.343	36.409	3.353	37.437	-0.30%	-2.75%
			4100	3.497	36.179	3.528	37.243	-0.88%	-2.86%
			4150	3.537	36.140	3.579	37.186	-1.17%	-2.81%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/29/2025	5200-5800 Head	19.0	5150	4.615	35.471	4.608	36.050	0.15%	-1.61%
			5160	4.624	35.460	4.618	36.040	0.13%	-1.61%
			5170	4.636	35.445	4.629	36.030	0.15%	-1.62%
			5180	4.645	35.423	4.635	36.009	0.22%	-1.63%
			5190	4.655	35.398	4.645	35.988	0.22%	-1.67%
			5200	4.661	35.374	4.655	35.966	0.13%	-1.70%
			5210	4.672	35.359	4.666	35.975	0.13%	-1.71%
			5220	4.686	35.338	4.676	35.963	0.21%	-1.74%
			5240	4.712	35.275	4.696	35.940	0.34%	-1.85%
			5250	4.724	35.260	4.706	35.929	0.38%	-1.86%
			5260	4.734	35.248	4.717	35.917	0.38%	-1.86%
			5270	4.749	35.235	4.727	35.906	0.47%	-1.87%
			5280	4.761	35.210	4.737	35.894	0.51%	-1.91%
			5290	4.774	35.198	4.748	35.883	0.55%	-1.91%
			5300	4.781	35.183	4.758	35.871	0.48%	-1.92%
			5310	4.784	35.164	4.768	35.860	0.34%	-1.94%
			5320	4.789	35.144	4.778	35.849	0.23%	-1.97%
			5500	4.994	34.778	4.963	35.643	0.62%	-2.43%
			5510	5.006	34.770	4.973	35.632	0.66%	-2.42%
			5520	5.019	34.763	4.983	35.620	0.72%	-2.41%
			5530	5.031	34.756	4.994	35.608	0.74%	-2.40%
			5540	5.036	34.742	5.004	35.597	0.64%	-2.40%
			5550	5.047	34.719	5.014	35.586	0.66%	-2.44%
			5560	5.061	34.702	5.024	35.574	0.74%	-2.45%
			5580	5.084	34.651	5.045	35.551	0.77%	-2.53%
			5600	5.100	34.573	5.065	35.529	0.69%	-2.58%
			5610	5.110	34.550	5.076	35.518	0.79%	-2.72%
			5620	5.131	34.544	5.086	35.506	0.88%	-2.71%
			5640	5.152	34.523	5.106	35.483	0.90%	-2.71%
			5660	5.179	34.485	5.127	35.460	1.01%	-2.75%
			5670	5.188	34.470	5.137	35.449	1.01%	-2.76%
			5680	5.196	34.460	5.147	35.437	0.95%	-2.76%
			5690	5.205	34.445	5.158	35.426	0.91%	-2.77%
			5700	5.218	34.418	5.168	35.414	0.97%	-2.81%
			5710	5.225	34.396	5.178	35.403	0.91%	-2.84%
			5720	5.232	34.373	5.188	35.391	0.85%	-2.88%
			5745	5.270	34.319	5.214	35.363	1.07%	-2.95%
			5750	5.279	34.308	5.219	35.357	1.18%	-2.97%
			5765	5.284	34.294	5.224	35.351	1.15%	-2.99%
			5765	5.297	34.279	5.234	35.340	1.20%	-3.00%
			5775	5.308	34.272	5.245	35.329	1.20%	-2.99%
			5785	5.318	34.261	5.255	35.317	1.20%	-2.99%
			5785	5.327	34.248	5.265	35.305	1.18%	-3.00%
			5800	5.332	34.234	5.270	35.300	1.18%	-3.02%
			5800	5.332	34.234	5.270	35.300	1.18%	-3.02%
			5805	5.337	34.226	5.275	35.294	1.18%	-3.03%
			5825	5.354	34.197	5.296	35.271	1.10%	-3.04%
			5835	5.362	34.170	5.305	35.230	1.07%	-3.01%
			5845	5.373	34.138	5.315	35.210	1.09%	-3.04%
			5850	5.379	34.129	5.320	35.200	1.11%	-3.04%
			5855	5.386	34.113	5.325	35.197	1.15%	-3.08%
			5865	5.404	34.087	5.336	35.190	1.27%	-3.13%
			5865	5.404	34.087	5.336	35.190	1.27%	-3.13%
			5865	5.404	34.087	5.336	35.190	1.27%	-3.13%
			5875	5.419	34.064	5.347	35.183	1.35%	-3.18%
			5885	5.430	34.053	5.357	35.177	1.36%	-3.20%
			5905	5.449	34.046	5.379	35.163	1.35%	-3.18%
			5900	5.332	34.234	5.270	35.300	1.18%	-3.02%
			5900	5.332	34.234	5.270	35.300	1.18%	-3.02%
12/04/2025	5200-5800 Head	19.1	5150	4.475	35.915	4.608	36.050	-2.89%	-0.37%
			5160	4.489	35.900	4.618	36.040	-2.79%	-0.39%
			5170	4.501	35.887	4.629	36.030	-2.77%	-0.37%
			5180	4.513	35.880	4.635	36.009	-2.63%	-0.36%
			5190	4.523	35.849	4.645	35.988	-2.63%	-0.41%
			5200	4.535	35.829	4.655	35.986	-2.58%	-0.44%
			5210	4.544	35.805	4.666	35.975	-2.61%	-0.47%
			5220	4.552	35.794	4.676	35.963	-2.65%	-0.47%
			5240	4.578	35.741	4.696	35.940	-2.86%	-0.55%
			5250	4.588	35.729	4.706	35.929	-2.51%	-0.56%
			5260	4.600	35.717	4.717	35.917	-2.48%	-0.56%
			5270	4.611	35.701	4.727	35.906	-2.45%	-0.57%
			5280	4.620	35.682	4.737	35.894	-2.47%	-0.59%
			5290	4.631	35.656	4.748	35.883	-2.46%	-0.63%
			5300	4.641	35.647	4.758	35.871	-2.46%	-0.62%
			5310	4.650	35.629	4.768	35.860	-2.47%	-0.64%
			5320	4.661	35.615	4.778	35.849	-2.45%	-0.65%
			5500	4.862	35.294	4.963	35.643	-2.04%	-0.98%
			5510	4.868	35.286	4.973	35.632	-2.15%	-0.97%
			5520	4.874	35.270	4.983	35.620	-2.19%	-0.98%
			5530	4.885	35.249	4.994	35.608	-2.18%	-1.01%
			5540	4.902	35.230	5.004	35.597	-2.04%	-1.03%
			5550	4.913	35.200	5.014	35.586	-2.01%	-1.08%
			5560	4.926	35.167	5.024	35.574	-1.95%	-1.14%
			5580	4.960	35.112	5.045	35.551	-1.68%	-1.23%
			5600	4.984	35.063	5.065	35.529	-1.60%	-1.22%
			5610	4.999	35.084	5.076	35.518	-1.52%	-1.22%
			5620	5.010	35.062	5.086	35.506	-1.49%	-1.19%
			5640	5.011	35.039	5.106	35.483	-1.86%	-1.25%
			5660	5.034	34.977	5.127	35.460	-1.81%	-1.36%
			5670	5.050	34.898	5.137	35.449	-1.69%	-1.39%
			5680	5.065	34.942	5.147	35.437	-1.59%	-1.40%
			5690	5.082	34.919	5.158	35.426	-1.47%	-1.43%
			5700	5.101	34.893	5.168	35.414	-1.30%	-1.47%
			5710	5.116	34.884	5.178	35.403	-1.20%	-1.47%
			5720	5.128	34.886	5.188	35.391	-1.16%	-1.47%
			5745	5.144	34.848	5.214	35.363	-1.34%	-1.46%
			5750	5.147	34.829	5.219	35.357	-1.38%	-1.49%
			5755	5.149	34.819	5.224	35.351	-1.44%	-1.50%
			5765	5.160	34.800	5.234	35.340	-1.41%	-1.53%
			5775	5.172	34.776	5.245	35.329	-1.39%	-1.57%
			5785	5.182	34.754	5.255	35.317	-1.39%	-1.59%
			5795	5.195	34.725	5.265	35.305	-1.33%	-1.64%
			5805	5.212	34.712	5.275	35.294	-1.19%	-1.65%
			5825	5.242	34.679	5.296	35.271	-1.02%	-1.68%
			5835	5.252	34.669	5.305	35.230	-1.00%	-1.59%
			5845	5.259	34.668	5.315	35.210	-1.05%	-1.54%
			5850	5.263	34.660	5.320	35.200	-1.07%	-1.53%
			5855	5.266	34.663	5.325	35.197	-1.11%	-1.52%
			5875	5.283	34.633	5.347	35.183	-1.20%	-1.56%
			5885	5.298	34.601	5.357	35.177	-1.14%	-1.64%
			5905	5.318	34.537	5.379	35.163	-1.13%	-1.78%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/09/2025	5200-5800 Head	19.3	5150	4.517	36.371	4.608	36.050	-1.97%	0.89%
			5160	4.529	36.363	4.618	36.040	-1.93%	0.95%
			5170	4.531	36.396	4.629	36.030	-2.12%	1.02%
			5180	4.535	36.396	4.635	36.009	-2.16%	1.07%
			5190	4.539	36.393	4.645	35.998	-2.28%	1.10%
			5200	4.544	36.381	4.655	35.986	-2.38%	1.10%
			5210	4.549	36.348	4.666	35.975	-2.51%	1.04%
			5220	4.558	36.297	4.676	35.963	-2.52%	0.93%
			5240	4.593	36.188	4.696	35.940	-2.19%	0.69%
			5250	4.617	36.161	4.706	35.929	-1.89%	0.65%
			5260	4.637	36.144	4.717	35.917	-1.70%	0.63%
			5270	4.652	36.150	4.727	35.906	-1.59%	0.68%
			5280	4.659	36.158	4.737	35.894	-1.65%	0.74%
			5290	4.667	36.170	4.748	35.883	-1.71%	0.80%
			5300	4.673	36.188	4.758	35.871	-1.79%	0.88%
			5310	4.676	36.187	4.768	35.860	-1.93%	0.91%
			5320	4.682	36.168	4.778	35.849	-2.01%	0.89%
			5500	4.891	35.737	4.963	35.643	-1.45%	0.26%
			5510	4.906	35.729	4.973	35.632	-1.35%	0.27%
			5520	4.919	35.715	4.983	35.620	-1.28%	0.27%
			5530	4.931	35.718	4.994	35.609	-1.26%	0.31%
			5540	4.946	35.711	5.004	35.597	-1.16%	0.32%
			5550	4.957	35.717	5.014	35.586	-1.14%	0.37%
			5560	4.963	35.702	5.024	35.574	-1.21%	0.36%
			5580	4.980	35.675	5.045	35.551	-1.29%	0.35%
			5600	5.002	35.602	5.065	35.529	-1.24%	0.21%
			5610	5.012	35.555	5.076	35.518	-1.26%	0.10%
			5620	5.027	35.522	5.086	35.506	-1.16%	0.05%
			5640	5.058	35.475	5.106	35.483	-0.94%	-0.02%
			5660	5.090	35.473	5.127	35.460	-0.72%	0.04%
			5670	5.104	35.494	5.137	35.449	-0.64%	0.13%
			5680	5.114	35.503	5.147	35.437	-0.64%	0.19%
			5690	5.121	35.496	5.158	35.426	-0.72%	0.20%
			5700	5.129	35.479	5.168	35.414	-0.75%	0.18%
			5710	5.137	35.442	5.178	35.403	-0.79%	0.11%
			5720	5.145	35.419	5.188	35.391	-0.83%	0.08%
			5745	5.167	35.324	5.214	35.363	-0.90%	-0.11%
			5750	5.175	35.296	5.219	35.357	-0.84%	-0.17%
			5755	5.183	35.271	5.224	35.351	-0.78%	-0.23%
			5765	5.202	35.231	5.234	35.340	-0.61%	-0.31%
			5775	5.219	35.227	5.245	35.329	-0.50%	-0.29%
			5785	5.236	35.230	5.255	35.317	-0.36%	-0.25%
			5795	5.253	35.251	5.265	35.305	-0.23%	-0.15%
			5805	5.264	35.260	5.275	35.294	-0.21%	-0.10%
			5825	5.276	35.263	5.296	35.271	-0.38%	-0.02%
			5835	5.281	35.254	5.305	35.230	-0.45%	0.07%
			5845	5.285	35.221	5.315	35.210	-0.56%	0.03%
			5850	5.287	35.192	5.320	35.200	-0.62%	-0.02%
			5855	5.290	35.166	5.325	35.197	-0.66%	-0.09%
			5875	5.316	35.069	5.347	35.183	-0.58%	-0.32%
			5885	5.330	35.026	5.357	35.177	-0.50%	-0.43%
			5905	5.370	35.011	5.379	35.163	-0.17%	-0.43%
12/12/2025	6000 Head	19.0	5935	5.452	34.715	5.411	35.143	0.76%	-1.22%
			5970	5.463	34.664	5.448	35.120	0.28%	-1.30%
			5985	5.485	34.559	5.464	35.110	0.38%	-1.57%
			6000	5.474	34.502	5.480	35.100	-0.11%	-1.70%
			6025	5.494	34.428	5.510	35.070	-0.29%	-1.83%
			6065	5.534	34.361	5.557	35.022	-0.41%	-1.89%
			6075	5.536	34.333	5.569	35.010	-0.59%	-1.93%
			6085	5.545	34.311	5.580	34.998	-0.63%	-1.96%
			6185	5.709	34.158	5.698	34.878	0.19%	-2.06%
			6275	5.845	33.924	5.805	34.770	0.69%	-2.43%
			6285	5.843	33.943	5.816	34.758	0.46%	-2.34%
			6305	5.854	33.961	5.840	34.734	0.24%	-2.23%
			6345	5.909	33.798	5.887	34.686	0.37%	-2.56%
			6475	6.059	33.506	6.041	34.530	0.30%	-2.97%
			6485	6.081	33.512	6.052	34.518	0.48%	-2.91%
			6500	6.115	33.542	6.070	34.500	0.74%	-2.78%
			6505	6.118	33.560	6.076	34.494	0.69%	-2.71%
			6545	6.118	33.520	6.122	34.446	-0.07%	-2.69%
			6665	6.226	33.256	6.265	34.302	-0.62%	-3.05%
			6675	6.247	33.225	6.273	34.290	-0.41%	-3.11%
			6685	6.268	33.172	6.285	34.278	-0.27%	-3.23%
			6715	6.313	33.118	6.319	34.242	-0.09%	-3.28%
			6785	6.384	33.001	6.400	34.158	-0.25%	-3.39%
			6825	6.449	32.951	6.447	34.110	0.03%	-3.40%
			6985	6.603	32.678	6.633	33.918	-0.45%	-3.66%
			6995	6.592	32.688	6.644	33.906	-0.78%	-3.59%
			7000	6.595	32.688	6.650	33.900	-0.83%	-3.58%
			7005	6.604	32.670	6.656	33.894	-0.78%	-3.61%
			7025	6.652	32.555	6.680	33.870	-0.42%	-3.88%

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

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/22/2025	6000 Head	19.0	5935	5.312	34.778	5.411	35.143	-1.83%	-1.04%
			5970	5.431	34.531	5.448	35.120	-0.31%	-1.68%
			5985	5.479	34.435	5.464	35.110	0.27%	-1.92%
			6000	5.459	34.426	5.480	35.100	-0.38%	-1.92%
			6025	5.422	34.544	5.510	35.070	-1.60%	-1.50%
			6065	5.453	34.524	5.557	35.022	-1.87%	-1.42%
			6075	5.478	34.418	5.569	35.010	-1.63%	-1.69%
			6085	5.509	34.309	5.580	34.998	-1.27%	-1.97%
			6185	5.608	34.323	5.698	34.878	-1.58%	-1.59%
			6275	5.775	34.143	5.805	34.770	-0.52%	-1.80%
			6285	5.760	34.222	5.816	34.758	-0.96%	-1.54%
			6305	5.776	34.194	5.840	34.734	-1.10%	-1.55%
			6345	5.877	33.714	5.887	34.686	-0.17%	-2.80%
			6475	6.037	33.411	6.041	34.530	-0.07%	-3.24%
			6485	6.061	33.420	6.052	34.518	0.15%	-3.18%
			6500	6.088	33.562	6.070	34.500	0.30%	-2.72%
			6505	6.086	33.626	6.076	34.494	0.16%	-2.52%
			6545	6.078	33.856	6.122	34.446	-0.72%	-1.71%
			6665	6.203	33.621	6.265	34.302	-0.99%	-1.99%
			6675	6.215	33.555	6.273	34.290	-0.92%	-2.14%
			6685	6.234	33.419	6.285	34.278	-0.81%	-2.51%
			6715	6.275	33.079	6.319	34.242	-0.70%	-3.40%
			6785	6.382	33.367	6.400	34.158	-0.28%	-2.32%
			6825	6.418	33.019	6.447	34.110	-0.45%	-3.20%
			6985	6.569	32.623	6.633	33.918	-0.96%	-3.82%
			6995	6.578	32.717	6.644	33.906	-0.99%	-3.51%
			7000	6.593	32.775	6.650	33.900	-0.86%	-3.32%
			7005	6.612	32.825	6.656	33.894	-0.66%	-3.15%
			7025	6.687	32.911	6.680	33.870	0.10%	-2.83%

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

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11.2 Test System Verification

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

Table 11-11
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 4cm ² APD (W/m ²)	1W Target 4cm ² APD (W/m ²)	1W Normalized 4cm ² APD (W/m ²)	Deviation 4cm ² APD (%)
G 13	HEAD	12-30-2025	21.0	22.2	1.00	1002	7527	1415	0.51	0.50	0.51	0.80%	0.21	0.32	0.31	-0.63%	N/A	N/A	N/A	N/A	
G 13	HEAD	11-17-2025	24.0	22.6	0.20	1046	7546	1368	1.75	8.56	8.75	2.22%	1.18	5.48	5.75	4.93%	N/A	N/A	N/A	N/A	
G 750	HEAD	11-17-2025	21.0	23.2	0.20	1054	7488	1415	1.78	8.68	8.90	2.53%	1.18	5.61	5.90	5.17%	N/A	N/A	N/A	N/A	
S5 750	HEAD	11-19-2025	23.3	22.8	0.20	1046	7546	1368	1.71	8.56	8.85	0.14%	1.13	5.53	5.65	2.17%	N/A	N/A	N/A	N/A	
L 750	HEAD	11-20-2025	20.5	21.0	0.20	1161	7659	1272	1.73	8.36	8.65	3.47%	1.15	5.41	5.75	6.28%	N/A	N/A	N/A	N/A	
G 835	HEAD	11-06-2025	21.8	22.4	0.20	46133	7488	1415	1.99	9.94	9.95	0.10%	1.52	6.48	6.60	1.69%	N/A	N/A	N/A	N/A	
S5 835	HEAD	11-13-2025	21.3	21.0	0.20	46119	7546	1368	1.97	9.47	9.85	4.01%	1.30	6.13	6.50	6.04%	N/A	N/A	N/A	N/A	
G 835	HEAD	11-17-2025	21.0	23.2	0.20	46047	7488	1415	1.98	9.44	9.90	4.87%	1.31	6.09	6.55	7.55%	N/A	N/A	N/A	N/A	
S5 835	HEAD	11-19-2025	23.5	22.8	0.20	46180	7546	1368	2.02	9.51	10.10	6.20%	1.33	6.17	6.65	7.78%	N/A	N/A	N/A	N/A	
S5 835	HEAD	11-24-2025	23.7	23.4	0.20	46119	7546	1368	2.00	9.47	10.00	5.60%	1.30	6.13	6.50	6.04%	N/A	N/A	N/A	N/A	
S5 835	HEAD	12-03-2025	21.7	20.9	0.20	46119	7546	1368	1.97	9.47	9.85	4.01%	1.30	6.13	6.50	6.04%	N/A	N/A	N/A	N/A	
M 1750	HEAD	11-13-2025	21.2	20.2	0.10	1148	7713	1530	3.61	36.90	36.10	-2.13%	1.94	19.60	19.40	-1.02%	N/A	N/A	N/A	N/A	
S1 1750	HEAD	11-17-2025	19.8	20.4	0.10	1092	7637	1652	3.78	36.70	37.80	3.00%	2.04	19.50	20.40	4.62%	N/A	N/A	N/A	N/A	
M 1750	HEAD	11-17-2025	19.6	19.3	0.10	1148	7713	1530	3.68	36.90	36.80	-0.27%	1.99	19.60	19.90	1.53%	N/A	N/A	N/A	N/A	
S1 1750	HEAD	11-27-2025	20.9	20.3	0.10	1092	7637	1652	3.84	36.70	38.40	4.63%	2.06	19.50	20.60	5.64%	N/A	N/A	N/A	N/A	
M 1750	HEAD	11-27-2025	21.5	21.0	0.10	1150	7713	1530	3.36	36.40	33.60	-7.69%	1.80	19.40	18.00	-7.22%	N/A	N/A	N/A	N/A	
L 1750	HEAD	12-01-2025	22.9	19.0	0.10	1148	7659	1272	3.51	36.90	35.10	-4.88%	1.88	19.60	18.80	-4.08%	N/A	N/A	N/A	N/A	
L 1750	HEAD	12-04-2025	22.2	19.2	0.10	1148	7659	1272	3.98	36.90	39.80	7.86%	2.14	19.60	21.40	9.18%	N/A	N/A	N/A	N/A	
S4 1750	HEAD	12-14-2025	22.1	20.9	0.10	1092	7491	1466	3.70	36.70	37.60	2.45%	2.03	19.50	20.30	4.10%	N/A	N/A	N/A	N/A	
M 1800	HEAD	11-13-2025	21.2	20.2	0.10	50800	7713	1530	3.90	40.20	39.00	-2.99%	2.04	21.20	20.40	-3.77%	N/A	N/A	N/A	N/A	
S1 1800	HEAD	11-17-2025	19.8	20.4	0.10	50826	7637	1652	4.19	39.60	41.90	5.81%	2.18	21.00	21.80	3.81%	N/A	N/A	N/A	N/A	
M 1800	HEAD	11-17-2025	19.6	19.3	0.10	50800	7713	1530	4.11	40.20	41.10	2.17%	21.20	21.70	2.36%	N/A	N/A	N/A	N/A		
S1 1800	HEAD	11-27-2025	20.9	20.3	0.10	50826	7637	1652	4.07	39.60	40.70	2.78%	2.12	21.00	21.20	0.95%	N/A	N/A	N/A	N/A	
L 1800	HEAD	12-08-2025	20.7	21.5	0.10	56148	7659	1272	4.34	39.60	43.40	9.60%	2.26	20.90	22.60	8.13%	N/A	N/A	N/A	N/A	
S4 1800	HEAD	12-14-2025	22.1	20.9	0.10	50826	7491	1466	4.25	39.60	42.50	7.32%	2.23	21.00	22.30	6.19%	N/A	N/A	N/A	N/A	
L 1800	HEAD	11-24-2025	19.9	19.8	0.10	1116	7659	1272	4.48	49.20	44.80	-8.94%	2.21	23.90	22.10	-7.53%	N/A	N/A	N/A	N/A	
L 1800	HEAD	11-27-2025	22.3	20.0	0.10	1116	7659	1272	4.72	49.20	47.20	-4.07%	2.29	23.90	22.90	-4.18%	N/A	N/A	N/A	N/A	
S4 1800	HEAD	12-02-2025	23.0	20.8	0.10	1098	7491	1466	5.02	49.40	50.20	1.62%	2.42	23.70	24.20	2.11%	N/A	N/A	N/A	N/A	
G 1800	HEAD	12-08-2025	23.1	23.1	0.10	1073	7488	1415	5.00	48.60	50.00	2.88%	2.41	23.50	24.10	2.55%	N/A	N/A	N/A	N/A	
S6 1800	HEAD	12-10-2025	22.0	21.0	0.10	1117	7803	1583	4.86	49.40	48.60	-1.62%	2.35	23.90	23.50	-1.67%	N/A	N/A	N/A	N/A	
S4 1800	HEAD	12-01-2025	20.9	20.5	0.10	845	7491	1466	5.04	52.90	50.40	-4.73%	2.36	25.00	23.60	-5.60%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-01-2025	20.5	20.5	0.10	845	7558	1364	5.56	52.90	55.60	5.10%	2.43	25.00	26.80	7.20%	N/A	N/A	N/A	N/A	
O 1800	HEAD	12-01-2025	20.7	20.9	0.10	797	7718	1407	5.19	52.60	51.90	-1.33%	2.45	24.80	24.50	-1.21%	N/A	N/A	N/A	N/A	
S6 1800	HEAD	12-01-2025	22.0	21.0	0.10	845	7803	1583	5.19	52.90	51.90	-1.89%	2.44	25.00	24.40	-2.40%	N/A	N/A	N/A	N/A	
S6 1800	HEAD	12-17-2025	21.9	21.3	0.10	882	7803	1583	5.67	53.70	56.70	5.59%	2.68	25.10	26.80	6.77%	N/A	N/A	N/A	N/A	
S4 1800	HEAD	12-22-2025	19.5	19.5	0.10	882	7491	1466	6.40	53.70	54.00	0.56%	2.55	25.10	25.50	1.59%	N/A	N/A	N/A	N/A	
M 1800	HEAD	12-22-2025	19.0	21.0	0.10	797	7406	1677	5.09	52.60	50.90	-3.23%	2.39	24.80	23.90	-3.63%	N/A	N/A	N/A	N/A	
S2 1800	HEAD	11-24-2025	20.5	20.8	0.10	1126	7402	1502	5.62	55.30	56.20	1.63%	2.56	24.80	25.60	3.23%	N/A	N/A	N/A	N/A	
S4 1800	HEAD	12-01-2025	20.9	20.5	0.10	1126	7491	1466	5.81	55.30	58.10	5.06%	2.63	24.80	26.80	8.05%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-01-2025	20.5	20.5	0.10	1126	7558	1364	5.66	55.30	56.60	2.35%	2.58	24.80	25.80	4.03%	N/A	N/A	N/A	N/A	
S6 1800	HEAD	12-10-2025	22.0	21.0	0.10	1009	7803	1583	5.33	56.50	53.30	-5.66%	2.42	25.40	24.20	-4.72%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	11-19-2025	19.8	20.1	0.10	1127	7558	1364	6.78	64.90	67.80	4.47%	2.56	24.70	25.60	3.64%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	11-26-2025	21.0	21.3	0.10	1127	7558	1364	6.95	64.90	69.50	7.09%	2.64	24.70	26.40	6.88%	N/A	N/A	N/A	N/A	
S2 1800	HEAD	12-01-2025	20.0	20.2	0.10	1127	7402	1502	6.97	64.90	69.70	7.40%	2.63	24.70	26.10	5.67%	N/A	N/A	N/A	N/A	
S2 1800	HEAD	12-03-2025	20.1	19.3	0.10	1127	7402	1502	6.23	64.90	62.30	-4.01%	2.33	24.70	23.30	-5.67%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-14-2025	21.2	20.7	0.10	1127	7558	1364	6.61	64.90	66.10	1.85%	2.50	24.70	25.00	1.21%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-17-2025	21.2	21.5	0.10	1127	7558	1364	7.00	64.90	70.00	7.86%	2.62	24.70	26.20	6.07%	N/A	N/A	N/A	N/A	
S3 1700	HEAD	11-19-2025	19.8	20.1	0.10	1096	7558	1364	6.35	69.60	63.50	-8.76%	2.34	25.60	23.40	-8.59%	N/A	N/A	N/A	N/A	
S3 1700	HEAD	11-26-2025	21.0	21.3	0.10	1096	7558	1364	6.81	69.60	68.10	-2.16%	2.50	25.60	25.00	-2.34%	N/A	N/A	N/A	N/A	
S2 1700	HEAD	12-01-2025	20.0	20.1	0.10	1096	7402	1502	6.24	69.60	72.40	4.02%	2.62	25.60	26.20	2.34%	N/A	N/A	N/A	N/A	
S2 1700	HEAD	12-03-2025	20.1	19.3	0.10	1096	7402	1502	6.83	69.60	68.30	-1.87%	2.48	25.60	24.80	-3.13%	N/A	N/A	N/A	N/A	
S3 1700	HEAD	12-14-2025	21.2	20.7	0.10	1096	7558	1364	6.57	69.60	65.70	-5.60%	2.41	25.60	24.10	-5.86%	N/A	N/A	N/A	N/A	
S3 1700	HEAD	12-17-2025	21.2	21.5	0.10	1096	7558	1364	7.11	69.60	71.10	2.16%	2.60	25.60	26.00	1.56%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	11-19-2025	19.8	20.1	0.10	1074	7558	1364	7.41	70.80	74.10	4.66%	2.62	24.80	26.20	5.65%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-14-2025	21.2	20.7	0.10	1074	7558	1364	7.23	70.80	72.30	2.12%	2.53	24.80	25.30	2.02%	N/A	N/A	N/A	N/A	
S3 1800	HEAD	12-17-2025	21.2	21.5	0.10	1074	7558	1364	7.49	70.80	74.90	5.79%	2.60	24.80	26.00	4.84%	N/A	N/A	N/A	N/A	
S 15250	HEAD	11-19-2025	21.3	19.0	0.05	1057	7661	1558	3.71	79.40	74.20	-6.52%	1.06	22.70	21.20	-6.61%	N/A	N/A	N/A	N/A	
S 15250	HEAD	12-04-2025	21.5	19.1	0.05	1057	7661	1558	3.67	79.40	73.40	-7.56%	1.05	22.70	21.00	-7.49%	N/A	N/A	N/A	N/A	
S 15250	HEAD	12-09-2025	20.3	19.3	0.05	1057	7661	1558	3.59	79.40	71.80	-9.57%	1.03	22.70	20.60	-9.75%	N/A	N/A	N/A	N/A	
S 1600	HEAD	11-29-2025	21.3	19.0	0.05	1057	7661	15													

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.

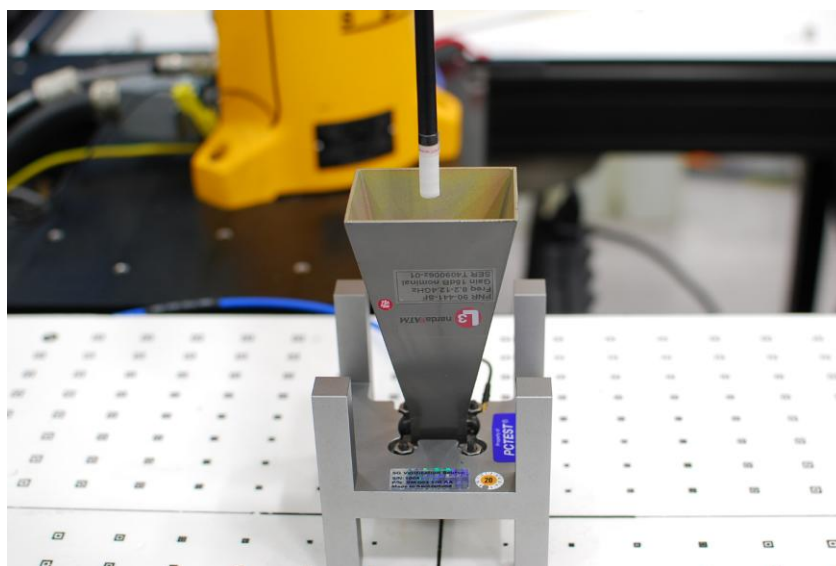


Figure 11-3
System Verification Setup Photo

Table 11-12
10 GHz Verifications

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
Q	10	12/08/2025	1002	9389	93.3	51.00	53.80	-0.23	51.30	54.00	-0.22

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

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Head	GSM 850	GSM	A	1885M	1.8.3	-0.05	836.60	190	34.0	33.56	Right Cheek	0	0.161	1.107	0.178	0.111		32.2	32.2		
Head	GSM 850	GSM	A	1885M	1.8.3	0.04	836.60	190	34.0	33.56	Right Tilt	0	0.082	1.107	0.091	0.057		35.2			
Head	GSM 850	GSM	A	1885M	1.8.3	0.01	836.60	190	34.0	33.56	Left Cheek	0	0.112	1.107	0.124	0.078		33.8			
Head	GSM 850	GSM	A	1885M	1.8.3	-0.01	836.60	190	34.0	33.56	Left Tilt	0	0.069	1.107	0.076	0.048		35.9			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Table 12-2 | Plot A2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	-0.01	824.20	128	24.5	23.66	Back	5	0.733	1.213	0.889	0.556		21.8	21.6
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	-0.02	836.60	190	24.5	23.96	Back	5	0.697	1.132	0.789	0.493		22.3	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	-0.09	848.80	251	24.5	24.04	Back	5	0.627	1.112	0.920	0.575	Plot	21.6	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	0.00	848.80	251	24.5	24.04	Front	5	0.518	1.112	0.576	0.360		23.7	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	0.15	848.80	251	24.5	24.04	Bottom	10	0.119	1.112	0.132	0.083		30.1	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	0.04	848.80	251	24.5	24.04	Right	10	0.154	1.112	0.171	0.107		28.9	
Hotspot	GPRS 850	GPRS 4 Tx Slots	A	1885M	1.2.076	-0.04	848.80	251	24.5	24.04	Left	10	0.087	1.112	0.097	0.061		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 12-3 | Plot A1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 850	GSM	E	1885M	1.8.3	0.02	836.60	190	27.0	26.58	Right Cheek	0	0.589	1.102	0.649	0.406		19.6	19.1
Head	GSM 850	GSM	E	1885M	1.8.3	0.00	836.60	190	27.0	26.58	Right Tilt	0	0.514	1.102	0.566	0.354		20.2	
Head	GSM 850	GSM	E	1885M	1.8.3	0.02	824.20	128	27.0	26.30	Left Cheek	0	0.626	1.175	0.736	0.460		19.1	
Head	GSM 850	GSM	E	1885M	1.8.3	0.01	836.60	190	27.0	26.58	Left Cheek	0	0.633	1.102	0.698	0.436		19.3	
Head	GSM 850	GSM	E	1885M	1.8.3	0.00	848.80	251	27.0	26.53	Left Cheek	0	0.640	1.114	0.713	0.446	Plot	19.2	
Head	GSM 850	GSM	E	1885M	1.8.3	-0.01	836.60	190	27.0	26.58	Left Tilt	0	0.565	1.102	0.623	0.389		19.8	
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 12-4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	2229M	1.2.076	0.17	824.20	128	21.0	20.16	Back	5	0.749	1.213	0.909	0.568		18.2	18.1
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	2229M	1.2.076	0.17	836.60	190	21.0	20.36	Back	5	0.703	1.159	0.815	0.509		18.7	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	2229M	1.2.076	-0.08	848.80	251	21.0	20.35	Back	5	0.792	1.161	0.920	0.575		18.1	
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	2229M	1.2.076	-0.06	836.60	190	21.0	20.36	Front	5	0.510	1.159	0.591	0.369		20.1	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	1885M	1.2.076	-0.05	836.60	190	21.0	20.36	Top	10	0.208	1.159	0.241	0.151		23.9	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	1885M	1.2.076	-0.03	836.60	190	21.0	20.36	Right	10	0.178	1.159	0.206	0.129		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body						
Spatial Peak													1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population													averaged over 1 gram						

12.2 GSM 1900 Standalone SAR

Table 12-5 | Plot A3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 1900	GSM	A	1911M	1.8.3	0.06	1909.80	810	31.0	30.20	Right Cheek	0	0.046	1.202	0.055	0.034		34.3	31.6
Head	GSM 1900	GSM	A	1911M	1.8.3	0.03	1909.80	810	31.0	30.20	Right Tilt	0	0.030	1.202	0.036	0.023		36.2	
Head	GSM 1900	GSM	A	1911M	1.8.3	0.03	1909.80	810	31.0	30.20	Left Cheek	0	0.086	1.202	0.103	0.064	Plot	31.6	
Head	GSM 1900	GSM	A	1911M	1.8.3	0.03	1909.80	810	31.0	30.20	Left Tilt	0	0.037	1.202	0.044	0.028		35.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

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Table 12-6 | Plot A4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	-0.01	1850.20	512	27.5	26.43	Back	5	0.763	1.279	0.976	0.610	Plot	18.4	18.4
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	0.00	1880.00	661	27.5	26.44	Back	5	0.714	1.276	0.911	0.569		18.7	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	-0.02	1909.80	810	27.5	26.90	Back	5	0.703	1.148	0.807	0.504		19.2	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	0.01	1909.80	810	27.5	26.90	Front	5	0.659	1.148	0.757	0.473		19.5	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	-0.01	1909.80	810	27.5	26.90	Bottom	10	0.641	1.148	0.736	0.460		19.6	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	0.05	1909.80	810	27.5	26.90	Right	10	0.060	1.148	0.069	0.043		29.9	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	0.06	1909.80	810	27.5	26.90	Left	10	0.026	1.148	0.030	0.019		33.5	
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 12-7 | Plot A5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	GPRS 1900	GPRS 1 Tx Slots	A	1911M	1:4.15	0.01	1909.80	810	27.5	26.90	Bottom	0	0.888	1.148	1.019	0.255	Plot	22.1	22.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

12.3 UMTS 850 Standalone SAR

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	A	1911M	1:1	-0.11	836.60	4183	25.0	24.37	Right Cheek	0	0.154	1.156	0.178	0.111		32.4	32.4
Head	UMTS 850	RMC	A	1911M	1:1	-0.05	836.60	4183	25.0	24.37	Right Tilt	0	0.083	1.156	0.096	0.060		35.1	
Head	UMTS 850	RMC	A	1911M	1:1	-0.06	836.60	4183	25.0	24.37	Left Cheek	0	0.108	1.156	0.125	0.078		34.0	
Head	UMTS 850	RMC	A	1911M	1:1	-0.19	836.60	4183	25.0	24.37	Left Tilt	0	0.067	1.156	0.077	0.048		36.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-9 | Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A	1911M	1:1	-0.02	826.40	4132	23.0	21.83	Back	5	0.696	1.309	0.911	0.569	Plot	23.4	23.4
Body-worn/Hotspot	UMTS 850	RMC	A	1911M	1:1	-0.02	836.60	4183	23.0	21.82	Back	5	0.594	1.312	0.779	0.487		24.0	
Body-worn/Hotspot	UMTS 850	RMC	A	1911M	1:1	-0.02	846.60	4233	23.0	21.77	Back	5	0.655	1.327	0.869	0.543		23.6	
Body-worn/Hotspot	UMTS 850	RMC	A	1911M	1:1	0.01	826.40	4132	23.0	21.83	Front	5	0.352	1.309	0.461	0.288		26.3	
Hotspot	UMTS 850	RMC	A	1911M	1:1	-0.01	826.40	4132	23.0	21.83	Bottom	10	0.098	1.309	0.128	0.080		31.9	
Hotspot	UMTS 850	RMC	A	1911M	1:1	0.03	826.40	4132	23.0	21.83	Right	10	0.171	1.309	0.224	0.140		29.5	
Hotspot	UMTS 850	RMC	A	1911M	1:1	-0.02	826.40	4132	23.0	21.83	Left	10	0.062	1.309	0.081	0.051		33.9	
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 12-10 | 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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	E	1911M	1:1	0.00	836.60	4183	22.0	20.95	Right Cheek	0	0.460	1.274	0.586	0.366		24.3	24.0
Head	UMTS 850	RMC	E	1911M	1:1	0.00	836.60	4183	22.0	20.95	Right Tilt	0	0.383	1.274	0.488	0.305		25.1	
Head	UMTS 850	RMC	E	1911M	1:1	0.00	836.60	4183	22.0	20.95	Left Cheek	0	0.485	1.274	0.618	0.386	Plot	24.0	
Head	UMTS 850	RMC	E	1911M	1:1	0.01	836.60	4183	22.0	20.95	Left Tilt	0	0.459	1.274	0.585	0.366		24.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	1911M	1:1	-0.02	836.60	4183	22.0	20.95	Back	5	0.514	1.274	0.655	0.409		23.8	23.8
Body-worn/Hotspot	UMTS 850	RMC	E	1911M	1:1	0.00	836.60	4183	22.0	20.95	Front	5	0.415	1.274	0.529	0.331		24.7	
Hotspot	UMTS 850	RMC	E	1911M	1:1	-0.02	836.60	4183	22.0	20.95	Top	10	0.180	1.274	0.229	0.143		28.3	
Hotspot	UMTS 850	RMC	E	1911M	1:1	-0.04	836.60	4183	22.0	20.95	Right	10	0.120	1.274	0.153	0.096		30.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

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12.4 UMTS 1750 Standalone SAR

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]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	A	1911M	1:1	0.03	1712.40	1312	24.5	23.37	Right Cheek	0	0.091	1.297	0.118	0.074		33.7	30.4
Head	UMTS 1750	RMC	A	1911M	1:1	0.07	1712.40	1312	24.5	23.37	Right Tilt	0	0.089	1.297	0.115	0.072		33.8	
Head	UMTS 1750	RMC	A	1911M	1:1	-0.12	1712.40	1312	24.5	23.37	Left Cheek	0	0.197	1.297	0.256	0.160	Plot	30.4	
Head	UMTS 1750	RMC	A	1911M	1:1	-0.07	1712.40	1312	24.5	23.37	Left Tilt	0	0.104	1.297	0.135	0.084		33.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-13 | Plot A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.00	1712.40	1312	18.0	17.16	Back	5	0.772	1.213	0.936	0.585		18.2	17.7
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	-0.02	1732.40	1412	18.0	17.03	Back	5	0.853	1.250	1.066	0.666	Plot	17.7	
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.03	1752.60	1513	18.0	17.10	Back	5	0.810	1.230	0.996	0.623		18.0	
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.00	1712.40	1312	18.0	17.16	Front	5	0.678	1.213	0.822	0.514		18.8	
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.02	1732.40	1412	18.0	17.03	Front	5	0.719	1.250	0.899	0.562		18.4	
Body-worn/Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.03	1752.60	1513	18.0	17.10	Front	5	0.692	1.230	0.851	0.532		18.6	
Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.03	1712.40	1312	18.0	17.16	Bottom	10	0.541	1.213	0.656	0.410		19.8	
Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.00	1732.40	1412	18.0	17.03	Bottom	10	0.639	1.250	0.799	0.499		18.9	
Hotspot	UMTS 1750	RMC	A	1911M	1:1	-0.02	1752.60	1513	18.0	17.10	Bottom	10	0.645	1.230	0.793	0.496		19.0	
Hotspot	UMTS 1750	RMC	A	1911M	1:1	-0.06	1712.40	1312	18.0	17.16	Right	10	0.051	1.213	0.062	0.039		30.0	
Hotspot	UMTS 1750	RMC	A	1911M	1:1	0.03	1712.40	1312	18.0	17.16	Left	10	0.059	1.213	0.072	0.045		29.4	
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 12-14 | 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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1750	RMC	A	1911M	1:1	0.05	1712.40	1312	18.0	17.16	Bottom	0	0.522	1.213	0.633	0.158	Plot	23.9	23.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

12.5 UMTS 1900 Standalone SAR

Table 12-15 | Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1900	RMC	A	1911M	1:1	-0.01	1852.40	9262	22.0	20.32	Right Cheek	0	0.033	1.472	0.049	0.031		35.1	32.5
Head	UMTS 1900	RMC	A	1911M	1:1	-0.14	1852.40	9262	22.0	20.32	Right Tilt	0	0.029	1.472	0.043	0.027		35.6	
Head	UMTS 1900	RMC	A	1911M	1:1	0.10	1852.40	9262	22.0	20.32	Left Cheek	0	0.060	1.472	0.088	0.055	Plot	32.5	
Head	UMTS 1900	RMC	A	1911M	1:1	0.01	1852.40	9262	22.0	20.32	Left Tilt	0	0.034	1.472	0.050	0.031		35.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-16 | Plot A12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.04	1852.40	9262	19.0	17.35	Back	5	0.818	1.462	1.196	0.748		18.2	18.2
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.08	1880.00	9400	19.0	17.39	Back	5	0.815	1.449	1.181	0.738		18.2	
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.00	1907.60	9538	19.0	17.62	Back	5	0.825	1.374	1.134	0.709	Plot	18.4	
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.02	1852.40	9262	19.0	17.35	Front	5	0.683	1.462	0.999	0.624		19.0	
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.01	1880.00	9400	19.0	17.39	Front	5	0.680	1.449	0.985	0.616		19.0	
Body-worn/Hotspot	UMTS 1900	RMC	A	1911M	1:1	-0.01	1907.60	9538	19.0	17.62	Front	5	0.687	1.374	0.944	0.590		19.2	
Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.00	1852.40	9262	19.0	17.35	Bottom	10	0.558	1.462	0.816	0.510		19.8	
Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.00	1880.00	9400	19.0	17.39	Bottom	10	0.608	1.449	0.881	0.551		19.5	
Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.00	1907.60	9538	19.0	17.62	Bottom	10	0.616	1.374	0.846	0.529		19.7	
Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.02	1907.60	9538	19.0	17.62	Right	10	0.065	1.374	0.089	0.056		29.4	
Hotspot	UMTS 1900	RMC	A	1911M	1:1	0.13	1907.60	9538	19.0	17.62	Left	10	0.016	1.374	0.022	0.014		35.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 12-17 | Plot A13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1900	RMC	A	1911M	1:1	0.00	1907.60	9538	19.0	17.62	Bottom	0	0.642	1.374	0.882	0.221	Plot	23.5	23.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

12.6 LTE Band 71 Standalone SAR

Table 12-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.04	680.50	133297	0.0	25.0	23.95	1	0	Right Cheek	0	0.150	1.274	0.191	0.119		32.1	31.7
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.01	680.50	133297	1.0	24.0	22.80	50	0	Right Cheek	0	0.127	1.318	0.167	0.104		31.7	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.12	680.50	133297	0.0	25.0	23.95	1	0	Right Tit	0	0.065	1.274	0.083	0.052		35.8	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	-0.07	680.50	133297	1.0	24.0	22.80	50	0	Right Tit	0	0.062	1.318	0.082	0.051		34.8	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.09	680.50	133297	0.0	25.0	23.95	1	0	Left Cheek	0	0.150	1.274	0.191	0.119		32.1	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	-0.02	680.50	133297	1.0	24.0	22.80	50	0	Left Cheek	0	0.118	1.318	0.156	0.098		32.0	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.03	680.50	133297	0.0	25.0	23.95	1	0	Left Tit	0	0.072	1.274	0.092	0.058		35.3	
Head	LTE Band 71	20	QPSK	A	0110M	1:1	0.00	680.50	133297	1.0	24.0	22.80	50	0	Left Tit	0	0.067	1.318	0.088	0.055		34.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-19 | Plot A15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	0.01	680.50	133297	0.0	23.0	21.70	1	0	Back	5	0.590	1.349	0.796	0.498		23.9	23.2
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.01	680.50	133297	0.0	23.0	21.68	50	0	Back	5	0.617	1.355	0.836	0.523		23.7	
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	0.04	680.50	133297	0.0	23.0	21.39	100	0	Back	5	0.647	1.449	0.888	0.586	Plot	23.2	
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.07	680.50	133297	0.0	23.0	21.70	1	0	Front	5	0.337	1.349	0.465	0.284		26.4	
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.01	680.50	133297	0.0	23.0	21.68	50	0	Front	5	0.361	1.355	0.489	0.306		26.1	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.04	680.50	133297	0.0	23.0	21.70	1	0	Bottom	10	0.082	1.349	0.111	0.069		32.5	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	0.00	680.50	133297	0.0	23.0	21.68	50	0	Bottom	10	0.081	1.355	0.110	0.069		32.5	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.05	680.50	133297	0.0	23.0	21.70	1	0	Right	10	0.154	1.349	0.208	0.130		29.8	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	0.01	680.50	133297	0.0	23.0	21.68	50	0	Right	10	0.171	1.355	0.232	0.145		29.3	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.03	680.50	133297	0.0	23.0	21.70	1	0	Left	10	0.152	1.349	0.205	0.128		29.8	
Hotspot	LTE Band 71	20	QPSK	A	0110M	1:1	-0.01	680.50	133297	0.0	23.0	21.68	50	0	Left	10	0.160	1.355	0.217	0.136		29.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-20 | Plot A14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 71	20	QPSK	E	0110M	1:1	0.06	680.50	133297	0.0	20.0	19.15	1	0	Right Cheek	0	0.428	1.216	0.520	0.325		22.8	22.1
Head	LTE Band 71	20	QPSK	E	0110M	1:1	0.03	680.50	133297	0.0	20.0	18.95	50	0	Right Cheek	0	0.407	1.274	0.519	0.324		22.8	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	0.05	680.50	133297	0.0	20.0	19.15	1	0	Right Tit	0	0.355	1.216	0.412	0.270		23.6	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	-0.03	680.50	133297	0.0	20.0	18.95	50	0	Right Tit	0	0.340	1.274	0.413	0.271		23.6	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	-0.02	680.50	133297	0.0	20.0	19.15	1	0	Left Cheek	0	0.497	1.216	0.604	0.378	Plot	22.1	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	-0.02	680.50	133297	0.0	20.0	18.95	50	0	Left Cheek	0	0.461	1.274	0.587	0.367		22.3	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	0.02	680.50	133297	0.0	20.0	19.15	1	0	Left Tit	0	0.461	1.216	0.561	0.351		22.5	
Head	LTE Band 71	20	QPSK	E	0110M	1:1	0.00	680.50	133297	0.0	20.0	18.95	50	0	Left Tit	0	0.426	1.274	0.547	0.342		22.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.02	680.50	133297	0.0	20.0	19.15	1	0	Back	5	0.451	1.216	0.548	0.343		22.6	22.6
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.04	680.50	133297	0.0	20.0	18.95	50	0	Back	5	0.426	1.274	0.543	0.339		22.6	
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.06	680.50	133297	0.0	20.0	19.15	1	0	Front	5	0.360	1.216	0.498	0.374		23.5	
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.12	680.50	133297	0.0	20.0	18.95	50	0	Front	5	0.351	1.274	0.447	0.279		23.4	
Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.05	680.50	133297	0.0	20.0	19.15	1	0	Top	10	0.157	1.216	0.191	0.119		27.1	
Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.06	680.50	133297	0.0	20.0	18.95	50	0	Top	10	0.146	1.274	0.180	0.119		27.2	
Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	0.04	680.50	133297	0.0	20.0	19.15	1	0	Right	10	0.102	1.216	0.124	0.078		29.0	
Hotspot	LTE Band 71	20	QPSK	E	0110M	1:1	-0.01	680.50	133297	0.0	20.0	18.95	50	0	Right	10	0.109	1.274	0.139	0.087		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											

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12.7 LTE Band 12 Standalone SAR

Table 12-22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 12	10	QPSK	A	0114M	1:1	-0.16	707.50	23095	0.0	25.5	24.28	1	49	Right Cheek	0	0.224	1.324	0.207	0.186		30.7	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	0.05	707.50	23095	1.0	24.5	23.34	25	12	Right Cheek	0	0.150	1.306	0.208	0.130		31.3	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	0.06	707.50	23095	0.0	25.5	24.28	1	49	Right Tit	0	0.099	1.324	0.131	0.082		34.3	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	0.05	707.50	23095	1.0	24.5	23.34	25	12	Right Tit	0	0.073	1.306	0.095	0.059		34.7	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	-0.05	707.50	23095	0.0	25.5	24.28	1	49	Left Cheek	0	0.169	1.324	0.224	0.140		32.0	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	0.10	707.50	23095	1.0	24.5	23.34	25	12	Left Cheek	0	0.133	1.306	0.171	0.107		32.1	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	0.05	707.50	23095	0.0	25.5	24.28	1	49	Left Tit	0	0.101	1.324	0.114	0.084		34.2	
Head	LTE Band 12	10	QPSK	A	0114M	1:1	-0.13	707.50	23095	1.0	24.5	23.34	25	12	Left Tit	0	0.077	1.306	0.101	0.061		34.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-23 | Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1885M	1:1	-0.05	707.50	23095	0.0	23.0	21.55	1	49	Back	5	0.548	1.196	0.705	0.478	Plot	24.1	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1885M	1:1	-0.01	707.50	23095	0.0	23.0	21.46	25	25	Back	5	0.517	1.426	0.717	0.461		24.3	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	-0.03	707.50	23095	0.0	23.0	21.55	1	49	Front	5	0.381	1.196	0.535	0.334		25.7	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	-0.06	707.50	23095	0.0	23.0	21.46	25	25	Front	5	0.375	1.426	0.555	0.334		25.7	
Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	0.02	707.50	23095	0.0	23.0	21.55	1	49	Bottom	10	0.102	1.196	0.142	0.089		31.4	
Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	-0.01	707.50	23095	0.0	23.0	21.46	25	25	Bottom	10	0.093	1.426	0.123	0.083		31.7	
Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	0.00	707.50	23095	0.0	23.0	21.55	1	49	Right	10	0.159	1.196	0.222	0.139		29.5	
Hotspot	LTE Band 12	10	QPSK	A	1911M	1:1	-0.02	707.50	23095	0.0	23.0	21.46	25	25	Right	10	0.151	1.426	0.235	0.134		29.6	
Hotspot	LTE Band 12	10	QPSK	A	1195M	1:1	0.00	707.50	23095	0.0	23.0	21.55	1	49	Left	10	0.123	1.196	0.172	0.108		30.6	
Hotspot	LTE Band 12	10	QPSK	A	1195M	1:1	0.00	707.50	23095	0.0	23.0	21.46	25	25	Left	10	0.116	1.426	0.168	0.105		30.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-24 | Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 12	10	QPSK	E	0114M	1:1	-0.02	707.50	23095	0.0	20.0	18.90	1	49	Right Cheek	0	0.351	1.288	0.452	0.283		23.4	
Head	LTE Band 12	10	QPSK	E	0114M	1:1	0.00	707.50	23095	0.0	20.0	19.08	25	25	Right Cheek	0	0.355	1.236	0.459	0.274		23.5	
Head	LTE Band 12	10	QPSK	E	0114M	1:1	0.01	707.50	23095	0.0	20.0	18.90	1	49	Right Tit	0	0.399	1.288	0.398	0.249		24.0	
Head	LTE Band 12	10	QPSK	E	0114M	1:1	0.01	707.50	23095	0.0	20.0	19.08	25	25	Right Tit	0	0.294	1.236	0.303	0.227		24.3	
Head	LTE Band 12	10	QPSK	E	1885M	1:1	-0.02	707.50	23095	0.0	20.0	18.90	1	49	Left Cheek	0	0.500	1.288	0.644	0.403	Plot	21.9	
Head	LTE Band 12	10	QPSK	E	1885M	1:1	0.01	707.50	23095	0.0	20.0	19.08	25	25	Left Cheek	0	0.480	1.236	0.503	0.371		22.2	
Head	LTE Band 12	10	QPSK	E	1885M	1:1	-0.03	707.50	23095	0.0	20.0	18.90	1	49	Left Tit	0	0.352	1.288	0.453	0.283		23.4	
Head	LTE Band 12	10	QPSK	E	1885M	1:1	-0.04	707.50	23095	0.0	20.0	19.08	25	25	Left Tit	0	0.297	1.236	0.367	0.229		24.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.02	707.50	23095	0.0	20.0	18.90	1	49	Back	5	0.349	1.288	0.450	0.283		23.4	
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.02	707.50	23095	0.0	20.0	19.08	25	25	Back	5	0.333	1.236	0.432	0.258		23.8	
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.01	707.50	23095	0.0	20.0	18.90	1	49	Front	5	0.242	1.288	0.312	0.195		25.0	
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.01	707.50	23095	0.0	20.0	19.08	25	25	Front	5	0.276	1.236	0.262	0.176		25.5	
Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	0.01	707.50	23095	0.0	20.0	18.90	1	49	Top	10	0.055	1.288	0.117	0.073		29.3	
Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.01	707.50	23095	0.0	20.0	19.08	25	25	Top	10	0.086	1.236	0.106	0.066		29.7	
Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.04	707.50	23095	0.0	20.0	18.90	1	49	Right	10	0.058	1.288	0.126	0.079		28.9	
Hotspot	LTE Band 12	10	QPSK	E	1885M	1:1	-0.04	707.50	23095	0.0	20.0	19.08	25	25	Right	10	0.080	1.236	0.110	0.065		29.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.8 LTE Band 13 Standalone SAR

Table 12-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 13	10	QPSK	A	0114M	1:1	0.04	782.00	23230	0.0	25.0	24.32	1	49	Right Cheek	0	0.167	1.169	0.195	0.122		32.0	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	0.01	782.00	23230	1.0	24.0	23.31	25	25	Right Cheek	0	0.138	1.172	0.163	0.102		31.8	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	0.13	782.00	23230	0.0	25.0	24.32	1	49	Right Tit	0	0.084	1.169	0.098	0.061		31.0	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	0.01	782.00	23230	1.0	24.0	23.31	25	25	Right Tit	0	0.070	1.172	0.082	0.051		34.8	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	0.04	782.00	23230	0.0	25.0	24.32	1	49	Left Cheek	0	0.152	1.169	0.178	0.111		32.5	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	-0.08	782.00	23230	1.0	24.0	23.31	25	25	Left Cheek	0	0.118	1.172	0.128	0.086		32.5	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	-0.02	782.00	23230	0.0	25.0	24.32	1	49	Left Tit	0	0.105	1.169	0.123	0.077		34.1	
Head	LTE Band 13	10	QPSK	A	0114M	1:1	-0.15	782.00	23230	1.0	24.0	23.31	25	25	Left Tit	0	0.085	1.172	0.087	0.065		34.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 12-27 | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	1885M	1-1	-0.01	782.00	23230	0.0	23.0	21.79	1	49	Back	5	0.576	1.321	0.761	0.476	Plot	24.1	
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	1885M	1-1	0.01	782.00	23230	0.0	23.0	21.86	25	25	Back	5	0.568	1.300	0.738	0.463		24.3	
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	-0.06	782.00	23230	0.0	23.0	21.79	1	49	Front	5	0.362	1.321	0.478	0.299		26.2	
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	-0.03	782.00	23230	0.0	23.0	21.86	25	25	Front	5	0.356	1.300	0.463	0.289		26.3	
Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	-0.08	782.00	23230	0.0	23.0	21.79	1	49	Bottom	10	0.096	1.321	0.127	0.079		31.9	
Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	-0.03	782.00	23230	0.0	23.0	21.86	25	25	Bottom	10	0.092	1.300	0.120	0.075		32.2	
Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	0.08	782.00	23230	0.0	23.0	21.79	1	49	Right	10	0.110	1.321	0.145	0.091		31.3	
Hotspot	LTE Band 13	10	QPSK	A	1911M	1-1	0.01	782.00	23230	0.0	23.0	21.86	25	25	Right	10	0.113	1.300	0.147	0.092		31.3	
Hotspot	LTE Band 13	10	QPSK	A	1191M	1-1	-0.01	782.00	23230	0.0	23.0	21.79	1	49	Left	10	0.043	1.321	0.064	0.034		35.6	
Hotspot	LTE Band 13	10	QPSK	A	1191M	1-1	0.06	782.00	23230	0.0	23.0	21.86	25	25	Left	10	0.043	1.300	0.056	0.035		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							

Table 12-28 | Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 13	10	QPSK	E	0114M	1-1	-0.03	782.00	23230	0.0	20.0	18.87	1	49	Right Cheek	0	0.267	1.297	0.346	0.216		24.6	
Head	LTE Band 13	10	QPSK	E	0114M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Right Cheek	0	0.263	1.355	0.356	0.223		24.4	
Head	LTE Band 13	10	QPSK	E	0114M	1-1	0.11	782.00	23230	0.0	20.0	18.87	1	49	Right Tilt	0	0.219	1.297	0.284	0.178		25.4	
Head	LTE Band 13	10	QPSK	E	0114M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Right Tilt	0	0.214	1.355	0.290	0.181		25.3	
Head	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.87	1	49	Left Cheek	0	0.296	1.297	0.384	0.240		24.1	
Head	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Left Cheek	0	0.299	1.355	0.405	0.253	Plot	23.9	
Head	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.87	1	49	Left Tilt	0	0.266	1.297	0.345	0.216		24.6	
Head	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Left Tilt	0	0.260	1.355	0.363	0.227		24.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

Table 12-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	0.00	782.00	23230	0.0	20.0	18.87	1	49	Back	5	0.319	1.297	0.414	0.259		23.8	
Body-worn/hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	0.00	782.00	23230	0.0	20.0	18.68	25	25	Back	5	0.322	1.355	0.436	0.273		23.6	
Body-worn/hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	0.01	782.00	23230	0.0	20.0	18.87	1	49	Front	5	0.257	1.297	0.333	0.208		24.7	
Body-worn/hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Front	5	0.260	1.355	0.352	0.220		24.5	
Hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	0.01	782.00	23230	0.0	20.0	18.87	1	49	Top	10	0.117	1.297	0.152	0.095		28.1	
Hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.68	25	25	Top	10	0.114	1.355	0.154	0.096		28.1	
Hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	-0.01	782.00	23230	0.0	20.0	18.87	1	49	Right	10	0.100	1.297	0.132	0.083		28.7	
Hotspot	LTE Band 13	10	QPSK	E	1885M	1-1	-0.02	782.00	23230	0.0	20.0	18.68	25	25	Right	10	0.093	1.355	0.126	0.079		28.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body							
Spatial Peak																1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																averaged over 1 gram							

12.9 LTE Band 14 Standalone SAR

Table 12-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Head	LTE Band 14	10	QPSK	A	0114M	1-1	0.13	793.00	23330	0.0	25.0	24.01	1	0	Right Cheek	0	0.065	1.256	0.082	0.051		35.8		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	0.05	793.00	23330	1.0	24.0	23.08	25	25	Right Cheek	0	0.046	1.236	0.057	0.036		36.4		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	-0.01	793.00	23330	0.0	25.0	24.01	1	0	Right Tilt	0	0.031	1.256	0.039	0.024		39.0		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	0.11	793.00	23330	1.0	24.0	23.08	25	25	Right Tilt	0	0.020	1.236	0.025	0.016		40.0		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	-0.02	793.00	23330	0.0	25.0	24.01	1	0	Left Cheek	0	0.052	1.256	0.065	0.041		36.8		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	-0.04	793.00	23330	1.0	24.0	23.08	25	25	Left Cheek	0	0.032	1.236	0.040	0.025		38.0		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	0.01	793.00	23330	0.0	25.0	24.01	1	0	Left Tilt	0	0.035	1.256	0.044	0.028		38.5		
Head	LTE Band 14	10	QPSK	A	0114M	1-1	-0.08	793.00	23330	1.0	24.0	23.08	25	25	Left Tilt	0	0.031	1.236	0.022	0.014		40.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table 12-31 | Plot A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	1885M	1-1	-0.01	793.00	23330	0.0	23.0	22.22	1	0	Back	5	0.630	1.197	0.754	0.471		24.2		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	1885M	1-1	0.00	793.00	23330	0.0	23.0	22.30	25	0	Back	5	0.646	1.175	0.759	0.474	Plot	24.1		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	-0.08	793.00	23330	0.0	23.0	22.22	1	0	Front	5	0.391	1.197	0.468	0.293		26.2		
Body-worn/Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	-0.02	793.00	23330	0.0	23.0	22.30	25	0	Front	5	0.387	1.175	0.455	0.284		26.4		
Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	-0.01	793.00	23330	0.0	23.0	22.22	1	0	Bottom	10	0.108	1.197	0.129	0.081		31.8	24.1	
Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	0.02	793.00	23330	0.0	23.0	22.30	25	0	Bottom	10	0.109	1.175	0.123	0.077		32.0		
Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	-0.01	793.00	23330	0.0	23.0	22.22	1	0	Right	10	0.116	1.197	0.139	0.087		31.5		
Hotspot	LTE Band 14	10	QPSK	A	1911M	1-1	0.00	793.00	23330	0.0	23.0	22.30	25	0	Right	10	0.112	1.175	0.132	0.081		31.8		
Hotspot	LTE Band 14	10	QPSK	A	1101M	1-1	0.04	793.00	23330	0.0	23.0	22.30	25	0	Left	10	0.184	1.197	0.160	0.103		31.8		
Hotspot	LTE Band 14	10	QPSK	A	1101M	1-1	-0.09	793.00	23330	0.0	23.0	22.30	25	0	Left	10	0.041	1.175	0.048	0.030		36.1		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																								
Spatial Peak																	Body							
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-32 | Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 14	10	QPSK	E	0114M	1:1	0.02	793.00	23330	0.0	20.0	19.11	1	0	Right Cheek	0	0.313	1.227	0.304	0.240		24.1	21.9
Head	LTE Band 14	10	QPSK	E	0114M	1:1	-0.01	793.00	23330	0.0	20.0	19.13	25	12	Right Cheek	0	0.336	1.222	0.411	0.257		23.8	
Head	LTE Band 14	10	QPSK	E	0114M	1:1	0.00	793.00	23330	0.0	20.0	19.11	1	0	Right Tilt	0	0.248	1.227	0.304	0.190		25.1	
Head	LTE Band 14	10	QPSK	E	0114M	1:1	0.00	793.00	23330	0.0	20.0	19.13	25	12	Right Tilt	0	0.278	1.222	0.340	0.213		24.6	
Head	LTE Band 14	10	QPSK	E	1885M	1:1	0.00	793.00	23330	0.0	20.0	19.11	1	0	Left Cheek	0	0.526	1.227	0.645	0.402	Plot	21.9	
Head	LTE Band 14	10	QPSK	E	1885M	1:1	-0.03	793.00	23330	0.0	20.0	19.13	25	12	Left Cheek	0	0.514	1.222	0.628	0.393		22.0	
Head	LTE Band 14	10	QPSK	E	1885M	1:1	0.02	793.00	23330	0.0	20.0	19.11	1	0	Left Tilt	0	0.400	1.227	0.481	0.307		23.0	
Head	LTE Band 14	10	QPSK	E	1885M	1:1	0.02	793.00	23330	0.0	20.0	19.13	25	12	Left Tilt	0	0.395	1.222	0.483	0.302		23.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.03	793.00	23330	0.0	20.0	19.11	1	0	Back	5	0.482	1.227	0.591	0.369		22.2	22.2
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.02	793.00	23330	0.0	20.0	19.13	25	12	Back	5	0.483	1.222	0.590	0.369		22.2	
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	0.01	793.00	23330	0.0	20.0	19.11	1	0	Front	5	0.360	1.227	0.442	0.276		23.5	
Body-worn/Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	0.00	793.00	23330	0.0	20.0	19.13	25	12	Front	5	0.369	1.222	0.461	0.282		23.4	
Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.01	793.00	23330	0.0	20.0	19.11	1	0	Top	10	0.148	1.227	0.182	0.114		27.4	
Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.01	793.00	23330	0.0	20.0	19.13	25	12	Top	10	0.149	1.222	0.182	0.114		27.3	
Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.02	793.00	23330	0.0	20.0	19.11	1	0	Right	10	0.157	1.227	0.193	0.121		27.1	
Hotspot	LTE Band 14	10	QPSK	E	1885M	1:1	-0.03	793.00	23330	0.0	20.0	19.13	25	12	Right	10	0.160	1.222	0.207	0.129		26.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.10 LTE Band 26 (Cell) Standalone SAR

Table 12-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 26	15	QPSK	A	0114M	1:1	0.01	831.50	26865	0.0	25.0	24.44	1	74	Right Cheek	0	0.178	1.128	0.203	0.127		31.9	31.9
Head	LTE Band 26	15	QPSK	A	0114M	1:1	-0.02	831.50	26865	1.0	24.0	23.38	36	37	Right Cheek	0	0.127	1.153	0.146	0.095		32.3	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	0.03	831.50	26865	0.0	25.0	24.44	1	74	Right Tilt	0	0.091	1.138	0.104	0.065		34.8	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	0.09	831.50	26865	1.0	24.0	23.38	36	37	Right Tilt	0	0.065	1.153	0.075	0.047		35.2	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	-0.01	831.50	26865	0.0	25.0	24.44	1	74	Left Cheek	0	0.139	1.138	0.158	0.099		31.0	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	-0.01	831.50	26865	1.0	24.0	23.38	36	37	Left Cheek	0	0.112	1.153	0.129	0.081		32.8	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	-0.06	831.50	26865	0.0	25.0	24.44	1	74	Left Tilt	0	0.084	1.138	0.096	0.060		35.1	
Head	LTE Band 26	15	QPSK	A	0114M	1:1	0.02	831.50	26865	1.0	24.0	23.38	36	37	Left Tilt	0	0.065	1.153	0.075	0.047		35.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-35 | Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	1885M	1:1	-0.03	831.50	26865	0.0	22.5	21.59	1	74	Back	5	0.585	1.233	0.721	0.451	Plot	23.9	23.9
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	1885M	1:1	0.01	831.50	26865	0.0	22.5	21.54	36	37	Back	5	0.552	1.247	0.688	0.430		24.1	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	1885M	1:1	-0.05	831.50	26865	0.0	22.5	21.50	75	0	Back	5	0.573	1.259	0.721	0.451		23.9	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	0.00	831.50	26865	0.0	22.5	21.59	1	74	Front	5	0.372	1.233	0.469	0.287		25.8	
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	-0.03	831.50	26865	0.0	22.5	21.54	36	37	Front	5	0.371	1.247	0.463	0.289		25.8	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	-0.10	831.50	26865	0.0	22.5	21.59	1	74	Bottom	10	0.092	1.233	0.113	0.071		31.9	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	-0.03	831.50	26865	0.0	22.5	21.54	36	37	Bottom	10	0.086	1.247	0.107	0.067		32.1	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	0.00	831.50	26865	0.0	22.5	21.59	1	74	Right	10	0.144	1.233	0.178	0.111		30.0	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	0.00	831.50	26865	0.0	22.5	21.54	36	37	Right	10	0.144	1.247	0.180	0.113		29.9	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	0.00	831.50	26865	0.0	22.5	21.59	1	74	Left	10	0.036	1.233	0.044	0.028		36.0	
Hotspot	LTE Band 26	15	QPSK	A	1911M	1:1	0.01	831.50	26865	0.0	22.5	21.54	36	37	Left	10	0.035	1.247	0.044	0.028		36.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-36 | Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 26	15	QPSK	E	0114M	1:1	0.01	831.50	26865	0.0	20.5	18.79	1	74	Right Cheek	0	0.459	1.483	0.681	0.426		22.1	21.9
Head	LTE Band 26	15	QPSK	E	0114M	1:1	-0.01	831.50	26865	0.0	20.5	18.77	36	37	Right Cheek	0	0.481	1.489	0.718	0.448	Plot	21.9	
Head	LTE Band 26	15	QPSK	E	0114M	1:1	0.12	831.50	26865	0.0	20.5	18.79	1	74	Right Tilt	0	0.477	1.483	0.707	0.442		22.0	
Head	LTE Band 26	15	QPSK	E	0114M	1:1	-0.09	831.50	26865	0.0	20.5	18.77	36	37	Right Tilt	0	0.480	1.489	0.715	0.447		21.9	
Head	LTE Band 26	15	QPSK	E	1885M	1:1	0.05	831.50	26865	0.0	20.5	18.79	1	74	Left Cheek	0	0.849	1.483	0.963	0.407		22.3	
Head	LTE Band 26	15	QPSK	E	1885M	1:1	-0.01	831.50	26865	0.0	20.5	18.77	36	37	Left Cheek	0	0.423	1.489	0.680	0.394		22.5	
Head	LTE Band 26	15	QPSK	E	1885M	1:1	-0.18	831.50	26865	0.0	20.5	18.79	1	74	Left Tilt	0	0.409	1.483	0.607	0.379		22.6	
Head	LTE Band 26	15	QPSK	E	1885M	1:1	0.05	831.50	26865	0.0	20.5	18.77	36	37	Left Tilt	0	0.432	1.489	0.645	0.403		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						

FCC ID: A3LSMA576U	RF EXPOSURE PART 1 TEST REPORT																			Approved by: Technical Manager		
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Table 12-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	1850M	1-1	0.05	831.50	26865	0.0	20.5	18.79	1	74	Back	5	0.445	1.483	0.660	0.413		22.3	
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	1850M	1-1	0.02	831.50	26865	0.0	20.5	18.77	36	37	Back	5	0.460	1.489	0.685	0.428		22.1	
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	0.17	831.50	26865	0.0	20.5	18.79	1	74	Front	5	0.351	1.483	0.521	0.326		23.3	
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	0.01	831.50	26865	0.0	20.5	18.77	36	37	Front	5	0.358	1.489	0.533	0.333		23.2	
Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	-0.06	831.50	26865	0.0	20.5	18.76	1	74	Top	10	0.127	1.483	0.209	0.127		27.4	
Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	-0.02	831.50	26865	0.0	20.5	18.77	36	37	Top	10	0.143	1.489	0.213	0.133		27.2	
Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	0.01	831.50	26865	0.0	20.5	18.79	1	74	Right	10	0.105	1.483	0.156	0.098		28.5	
Hotspot	LTE Band 26	15	QPSK	E	1885M	1-1	0.01	831.50	26865	0.0	20.5	18.77	36	37	Right	10	0.113	1.489	0.168	0.105		28.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.11 LTE Band 66 (AWS) Standalone SAR

Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 66	20	QPSK	A	1911M	1-1	0.05	1770.00	132572	0.0	24.5	23.39	1	99	Right Cheek	0	0.065	1.291	0.084	0.053		35.2	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	0.07	1770.00	132572	1.0	23.5	22.23	50	50	Right Cheek	0	0.053	1.340	0.071	0.044		34.9	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	0.06	1770.00	132572	0.0	24.5	23.39	1	99	Right TIR	0	0.063	1.291	0.079	0.049		35.5	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	-0.03	1770.00	132572	1.0	23.5	22.23	50	50	Right TIR	0	0.053	1.340	0.071	0.044		34.9	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	-0.17	1770.00	132572	0.0	24.5	23.39	1	99	Left Cheek	0	0.153	1.291	0.195	0.122		31.6	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	0.34	1770.00	132572	1.0	23.5	22.23	50	50	Left Cheek	0	0.134	1.340	0.153	0.096		31.6	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	0.02	1770.00	132572	0.0	24.5	23.39	1	99	Left TIR	0	0.138	1.291	0.178	0.111		31.9	
Head	LTE Band 66	20	QPSK	A	1911M	1-1	-0.00	1770.00	132572	1.0	23.5	22.23	50	50	Left TIR	0	0.096	1.340	0.129	0.081		32.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-39 | Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1770.00	132072	0.0	18.0	17.12	1	99	Back	5	0.910	1.225	1.115	0.697		17.5	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.02	1745.00	132122	0.0	18.0	17.18	1	99	Back	5	0.866	1.208	1.046	0.654		17.8	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1770.00	132072	0.0	18.0	17.42	1	99	Back	5	0.914	1.143	1.045	0.651		17.8	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.01	1745.00	132122	0.0	18.0	17.22	50	25	Back	5	0.862	1.197	1.032	0.645		17.8	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.01	1745.00	132122	0.0	18.0	17.03	50	50	Back	5	0.866	1.250	1.083	0.677		17.6	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1770.00	132072	0.0	18.0	17.18	50	50	Back	5	0.913	1.167	1.072	0.670		17.6	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.00	1770.00	132072	0.0	18.0	17.26	100	0	Back	5	0.931	1.186	1.104	0.690	Plot	17.5	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.02	1745.00	132122	0.0	18.0	17.12	1	99	Front	5	0.778	1.225	0.913	0.596		18.2	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1745.00	132122	0.0	18.0	17.18	1	99	Front	5	0.741	1.208	0.895	0.559		18.4	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.00	1770.00	132072	0.0	18.0	17.42	1	99	Front	5	0.746	1.143	0.853	0.539		18.6	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1745.00	132122	0.0	18.0	17.22	50	25	Front	5	0.741	1.197	0.887	0.554		18.5	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.02	1745.00	132122	0.0	18.0	17.03	50	50	Front	5	0.745	1.250	0.951	0.582		18.3	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.02	1770.00	132072	0.0	18.0	17.12	50	50	Front	5	0.743	1.167	0.867	0.542		18.6	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.00	1770.00	132072	0.0	18.0	17.26	100	0	Front	5	0.718	1.186	0.852	0.533		18.6	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.04	1770.00	132572	0.0	18.0	17.42	1	99	Bottom	10	0.677	1.143	0.774	0.484		19.1	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.01	1770.00	132572	0.0	18.0	17.42	50	50	Bottom	10	0.670	1.167	0.782	0.495		19.0	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.03	1770.00	132572	0.0	18.0	17.42	1	99	Right	10	0.050	1.143	0.057	0.036		30.4	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.03	1770.00	132572	0.0	18.0	17.33	50	50	Right	10	0.050	1.167	0.058	0.036		30.3	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	-0.08	1770.00	132572	0.0	18.0	17.42	1	99	Left	10	0.049	1.143	0.056	0.035		30.5	
Hotspot	LTE Band 66	20	QPSK	A	1911M	1-1	0.02	1770.00	132572	0.0	18.0	17.33	50	50	Left	10	0.049	1.167	0.057	0.036		30.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-40 | Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	LTE Band 66	20	QPSK	A	1911M	1-1	-0.09	1770.00	132572	0.0	18.0	17.43	1	99	Bottom	0	0.546	1.143	0.624	0.156		24.0	
Phablet	LTE Band 66	20	QPSK	A	1911M	1-1	0.18	1770.00	132572	0.0	18.0	17.33	50	50	Bottom	0	0.554	1.167	0.647	0.162	Plot	23.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

Table 12-41 | Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 66	20	QPSK	F	1911M	1-1	-0.10	1720.00	132072	0.0	17.5	17.29	1	0	Right Cheek	0	0.678	1.050	0.712	0.445	Plot	18.9	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	-0.06	1720.00	132072	0.0	17.5	17.30	50	0	Right Cheek	0	0.673	1.047	0.705	0.441		19.0	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	0.05	1720.00	132072	0.0	17.5	17.29	1	0	Right TIR	0	0.620	1.050	0.651	0.407		19.3	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	0.06	1720.00	132072	0.0	17.5	17.30	50	0	Right TIR	0	0.621	1.047	0.650	0.406		19.3	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	0.00	1720.00	132072	0.0	17.5	17.29	1	0	Left Cheek	0	0.377	1.050	0.396	0.248		21.5	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	-0.02	1720.00	132072	0.0	17.5	17.30	50	0	Left Cheek	0	0.372	1.047	0.389	0.243		21.5	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	0.02	1720.00	132072	0.0	17.5	17.29	1	0	Left TIR	0	0.488	1.050	0.522	0.320		20.4	
Head	LTE Band 66	20	QPSK	F	1911M	1-1	0.05	1720.00	132072	0.0	17.5	17.30	50	0	Left TIR	0	0.486	1.047	0.509	0.318		20.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 12-42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	-0.02	1720.00	132072	0.0	17.5	17.29	1	0	Back	5	0.388	1.050	0.407	0.254		21.4	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	-0.01	1720.00	132072	0.0	17.5	17.30	50	0	Back	5	0.397	1.047	0.416	0.260		21.3	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	0.05	1720.00	132072	0.0	17.5	17.29	1	0	Front	5	0.268	1.050	0.281	0.176		23.0	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	0.04	1720.00	132072	0.0	17.5	17.30	50	0	Front	5	0.281	1.047	0.294	0.184		22.8	
Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	-0.05	1720.00	132072	0.0	17.5	17.29	1	0	Top	10	0.239	1.050	0.250	0.156		23.5	
Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	-0.02	1720.00	132072	0.0	17.5	17.30	50	0	Top	10	0.239	1.047	0.249	0.156		23.5	
Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	0.08	1720.00	132072	0.0	17.5	17.29	1	0	Left	10	0.047	1.050	0.049	0.031		30.5	
Hotspot	LTE Band 66	20	QPSK	F	1911M	1:1	-0.02	1720.00	132072	0.0	17.5	17.30	50	0	Left	10	0.049	1.047	0.051	0.032		30.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.12 LTE Band 25 (PCS) Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.17	1905.00	26590	0.0	24.5	23.32	1	99	Right Cheek	0	0.065	1.312	0.085	0.053		35.1	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.02	1905.00	26590	1.0	23.5	22.18	50	50	Right Cheek	0	0.051	1.355	0.069	0.043		35.1	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.20	1905.00	26590	0.0	24.5	23.32	1	99	Right Tit	0	0.039	1.312	0.051	0.032		37.4	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.06	1905.00	26590	1.0	23.5	22.18	50	50	Right Tit	0	0.030	1.355	0.041	0.026		37.4	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	0.04	1905.00	26590	0.0	24.5	23.32	1	99	Left Cheek	0	0.115	1.312	0.151	0.084		32.7	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.05	1905.00	26590	1.0	23.5	22.18	50	50	Left Cheek	0	0.080	1.355	0.108	0.068		33.2	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	0.01	1905.00	26590	0.0	24.5	23.32	1	99	Left Tit	0	0.060	1.312	0.079	0.049		35.5	
Head	LTE Band 25	20	QPSK	A	1911M	1:1	-0.16	1905.00	26590	1.0	23.5	22.18	50	50	Left Tit	0	0.044	1.355	0.060	0.038		35.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-44 | Plot A28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1860.00	26140	0.0	18.0	17.34	1	0	Back	5	0.945	1.164	1.100	0.688	0.688		17.5	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1882.50	26385	0.0	18.0	17.35	1	99	Back	5	0.930	1.161	1.080	0.675	0.675		17.6	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.53	1	99	Back	5	0.867	1.114	0.966	0.604	0.604		18.1	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1860.00	26140	0.0	18.0	17.18	50	0	Back	5	0.957	1.208	1.156	0.723	0.723	Plot	17.3	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	-0.01	1860.00	26140	0.0	18.0	17.19	50	0	Back	5	0.954	1.208	1.140	0.711	0.711		17.4	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1882.50	26385	0.0	18.0	17.24	50	0	Back	5	0.950	1.191	1.131	0.707	0.707		17.4	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.45	50	50	Back	5	0.884	1.135	1.009	0.627	0.627		17.6	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.40	100	0	Back	5	0.950	1.148	1.045	0.653	0.653		17.8	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.06	1860.00	26140	0.0	18.0	17.34	1	0	Front	5	0.763	1.164	0.888	0.555	0.555		18.5	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1882.50	26385	0.0	18.0	17.35	1	99	Front	5	0.758	1.161	0.892	0.558	0.558		18.4	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	-0.03	1905.00	26590	0.0	18.0	17.53	1	99	Front	5	0.728	1.114	0.811	0.507	0.507		18.9	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1860.00	26140	0.0	18.0	17.18	50	0	Front	5	0.781	1.208	0.943	0.589	0.589		18.2	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.01	1882.50	26385	0.0	18.0	17.24	50	0	Front	5	0.775	1.191	0.923	0.577	0.577		18.3	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.45	50	50	Front	5	0.757	1.135	0.836	0.523	0.523		18.7	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.40	100	0	Front	5	0.739	1.148	0.848	0.530	0.530		18.7	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.01	1905.00	26590	0.0	18.0	17.52	1	99	Bottom	10	0.652	1.114	0.762	0.489	0.489		19.0	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.45	50	50	Bottom	10	0.685	1.135	0.784	0.490	0.490		19.0	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	-0.01	1905.00	26590	0.0	18.0	17.53	1	99	Right	10	0.662	1.114	0.669	0.443	0.443		29.6	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	-0.03	1905.00	26590	0.0	18.0	17.45	50	50	Right	10	0.654	1.135	0.673	0.446	0.446		29.3	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.53	1	99	Left	10	0.607	1.114	0.600	0.039	0.039		32.1	
Hotspot	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.45	50	50	Left	10	0.600	1.135	0.634	0.021	0.021		32.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body							
Spatial Peak																	1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																	averaged over 1 gram							

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-45 | Plot A29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phantom	LTE Band 25	20	QPSK	A	1911M	1:1	0.00	1905.00	26590	0.0	18.0	17.53	1	99	Bottom	0	0.624	1.114	0.695	0.174		23.5	
Phantom	LTE Band 25	20	QPSK	A	1911M	1:1	-0.02	1905.00	26590	0.0	18.0	17.45	50	50	Bottom	0	0.687	1.135	0.780	0.195	Plot	23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phantom 4.0 W/kg (mW/g) averaged over 10 grams						

Table 12-46 | Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.00	1905.00	26590	0.0	18.5	18.04	1	99	Right Cheek	0	0.599	1.112	0.666	0.416		20.3	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.00	1905.00	26590	0.0	18.5	17.98	50	50	Right Cheek	0	0.606	1.127	0.683	0.427	Plot	20.3	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.01	1905.00	26590	0.0	18.5	18.04	1	99	Right Tit	0	0.588	1.112	0.654	0.409		20.3	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.00	1905.00	26590	0.0	18.5	17.98	50	50	Right Tit	0	0.590	1.127	0.665	0.416		20.2	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.01	1905.00	26590	0.0	18.5	18.04	1	99	Left Cheek	0	0.521	1.112	0.597	0.223		22.9	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	-0.01	1905.00	26590	0.0	18.5	17.98	50	50	Left Cheek	0	0.519	1.127	0.560	0.225		22.9	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	-0.02	1905.00	26590	0.0	18.5	18.04	1	99	Left Tit	0	0.452	1.112	0.503	0.314		21.4	
Head	LTE Band 25	20	QPSK	F	1911M	1:1	0.00	1905.00	26590	0.0	18.5	17.98	50	50	Left Tit	0	0.450	1.127	0.533	0.321		21.3	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																	Head						
Spectral Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

12.14 LTE Band 7 Standalone SAR

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured EIRP SAE [W/g]	Power Scaling Factor	Reported SAE [W/g]	Exposure Ratio (1g SAE)	Plot #	Flims [dBm]	Overall Flims [dBm]
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.09	2560.00	21150	0.0	24.5	22.82	1	0	Right Cheek	0	0.062	1.169	0.072	0.045		35.8	32.6
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.09	2560.00	21150	1.0	23.5	22.83	50	50	Right Cheek	0	0.040	1.167	0.047	0.029		36.8	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.06	2560.00	21150	0.0	24.5	22.82	1	0	Right Thr	0	0.059	1.169	0.069	0.043		36.1	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.09	2560.00	21150	1.0	23.5	22.83	50	50	Right Thr	0	0.040	1.167	0.054	0.034		36.7	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	-0.14	2560.00	21150	0.0	24.5	22.83	1	0	Left Cheek	0	0.126	1.169	0.147	0.092		32.8	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.07	2560.00	21150	1.0	23.5	22.83	50	50	Left Cheek	0	0.105	1.167	0.123	0.077		32.6	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	0.09	2560.00	21150	0.0	24.5	22.83	1	0	Left Thr	0	0.059	1.169	0.069	0.043		36.1	
Head	LTE Band 7	20	QPSK	B	0114M	1:1	-0.17	2560.00	21150	1.0	23.5	22.83	50	50	Left Thr	0	0.047	1.167	0.055	0.034		36.1	
ANSI/IEEE C95.3 1992 - SAFETY LIMIT																	Head 1.6 W/g (mW/g) averaged over 1 gram						
Spatial Peak																							
Uncontrolled Exposure/General Population																							

Table 12-54 - Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g]	Plot #	Film# [dBm]	Overall Film# [dBm]
Body-worn/hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	0.01	2560.00	21150	0.0	19.0	18.16	1	99	Back	5	0.541	1.213	0.606	0.410			20.8
Body-worn/hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	0.01	2560.00	21150	0.0	19.0	18.16	50	25	Back	5	0.548	1.216	0.666	0.416	Hot		20.7
Body-worn/hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	-0.09	2560.00	21150	0.0	19.0	18.16	1	99	Front	5	0.389	1.213	0.465	0.293			22.3
Body-worn/hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	0.01	2560.00	21150	0.0	19.0	18.15	50	25	Front	5	0.370	1.216	0.460	0.291			22.4
Hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	-0.02	2560.00	21150	0.0	19.0	18.16	1	99	Bottom	5	0.420	1.213	0.509	0.318			21.0
Hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	-0.04	2560.00	21150	0.0	19.0	18.15	50	25	Bottom	50	0.408	1.216	0.496	0.310			22.0
Hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	0.00	2560.00	21150	0.0	19.0	18.16		99	Left	10	0.181	1.210	0.220	0.128			25.5
Hotspot	LTE Band 7	20	QPSK	B	0114M	1:1	0.02	2560.00	21150	0.0	19.0	18.15	50	25	Left	10	0.386	1.216	0.526	0.345			21.4
ANSI/IEEE C95.3 1992 - SAFETY LIMIT																		Body					
Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 5 gram					

Table 12-55 - Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [kHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phabnet	LTE Band 7	20	QPSK	B	2229M	1:1	-0.05	2560.00	21250	0.0	19.0	18.16	1	99	Bottom	0	1.100	1.213	1.334	0.334		21.7	
Phabnet	LTE Band 7	20	QPSK	B	2229M4	1:1	-0.01	2560.00	21250	0.0	19.0	18.15	50	25	Bottom	0	1.000	1.216	1.338	0.335	Plot	21.7	21.7
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Phabnet						
Spatial Peak																	averaged over 10 grams						
Uncontrolled Exposure/General Population																							

Table 12-56 - Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured E ₁ SAR [W/kg]	Power Scaling Factor	Reported E ₁ SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall P _{EMF} [dBm]
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.06	2560.00	21350	0.0	17.0	16.18	1	99	Right Cheek	0	0.630	1.208	0.761	0.476	18.1		
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.02	2560.00	21350	0.0	17.0	16.19	50	99	Right Cheek	0	0.646	1.208	0.781	0.488	18.3		
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.06	2560.00	21350	0.0	17.0	16.18	1	99	Right Ttn	0	0.623	1.208	0.753	0.471	18.2		
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.00	2560.00	21350	0.0	17.0	16.19	50	99	Right Ttn	0	0.682	1.208	0.786	0.491	18.4	Not	18.0
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.06	2560.00	21350	0.0	17.0	16.18	1	99	Left Cheek	0	0.311	1.208	0.376	0.231	17.2		18.0
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.01	2560.00	21350	0.0	17.0	16.19	50	99	Left Cheek	0	0.314	1.208	0.378	0.236	17.3		
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.02	2560.00	21350	0.0	17.0	16.18	1	99	Left Ttn	0	0.318	1.208	0.384	0.240	21.3		
Head	LTE Band 7	20	QPSK	F	2229M	1:1	0.02	2560.00	21350	0.0	17.0	16.19	50	99	Left Ttn	0	0.330	1.208	0.404	0.253	20.9		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 6.0 min					

Table 12-57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	-0.01	2560.00	21350	0.0	27.0	16.18	1	99	Back	5	0.424	1.208	0.512	0.320		19.9	
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	-0.01	2560.00	21350	0.0	27.0	16.19	50	99	Back	5	0.927	1.205	0.515	0.327		19.8	
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	-0.01	2560.00	21350	0.0	27.0	16.18	1	99	Front	5	0.286	1.208	0.344	0.215		21.6	
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	-0.01	2560.00	21350	0.0	27.0	16.19	50	50	Front	5	0.286	1.205	0.345	0.216		21.6	
Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	-0.04	2560.00	21350	0.0	27.0	16.18	1	99	Top	10	0.141	1.208	0.173	0.109		24.6	19.8
Hotspot	LTE Band 7	20	QPSK	F	2229M	1:1	0.04	2560.00	21350	0.0	27.0	16.19	50	50	Top	10	0.144	1.205	0.174	0.109		24.6	
Hotspot	LTE Band 7	20	QPSK	F	1885M	1:1	0.13	2560.00	21350	0.0	27.0	16.18	1	99	Left	10	0.033	1.208	0.040	0.025		30.9	
Hotspot	LTE Band 7	20	QPSK	F	1885M	1:1	-0.17	2560.00	21350	0.0	27.0	16.19	50	50	Left	10	0.031	1.205	0.037	0.023		31.2	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled F (General Population)																	0.08 W/kg (mW/g)						

12.15 LTE Band 41 Standalone SAR

Table 12-58

Exposure	Band / Mode	Bandwidth [Hz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [Hz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Film# [dBm]	Overall Film# [dBm]
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.07	2500.00	39750	0.0	24.0	23.19	1	0	Right Cheek	0	0.8197	1.205	0.045	0.028	36.5		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.06	2500.00	39750	1.0	23.0	22.12	50	0	Right Cheek	0	0.8225	1.205	0.046	0.023	35.5		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.03	2500.00	39750	0.0	24.0	23.19	1	0	Right Tilt	0	0.8300	1.205	0.036	0.023	36.4		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.00	2500.00	39750	1.0	23.0	22.12	50	0	Right Tilt	0	0.8244	1.225	0.029	0.018	38.3		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.06	2500.00	39750	0.0	24.0	23.19	1	0	Left Cheek	0	0.8194	1.205	0.049	0.056	37.5		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.07	2500.00	39750	1.0	23.0	22.12	50	0	Left Cheek	0	0.8612	1.225	0.075	0.047	32.2		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	-0.14	2500.00	39750	0.0	24.0	23.19	1	0	Left Tilt	0	0.8355	1.205	0.042	0.026	35.7		
Head	LTE Band 41	20	QPSK	B	19131M	1:1.58	0.16	2500.00	39750	1.0	23.0	22.12	50	0	Left Tilt	0	0.8381	1.225	0.040	0.025	34.9		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Head					
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1.0 cm					

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Table 12-59 - Plot A37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	0.08	2506.00	39750	0.0	19.0	18.33	1	0	Back	5	0.549	1.167	0.641	0.401		18.9	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.05	2549.50	40185	0.0	19.0	18.13	1	99	Back	5	0.535	1.222	0.629	0.393		19.0	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.02	2593.00	40620	0.0	19.0	17.96	1	50	Back	5	0.530	1.271	0.674	0.421		18.7	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.04	2636.50	41055	0.0	19.0	17.92	1	99	Back	5	0.473	1.282	0.606	0.379		19.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	0.01	2680.00	41490	0.0	19.0	17.87	1	99	Back	5	0.481	1.265	0.608	0.380		19.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.09	2506.00	39750	0.0	19.0	18.34	50	0	Back	5	0.553	1.164	0.644	0.403	Plot	18.9	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	0.00	2549.50	40185	0.0	19.0	18.14	50	50	Back	5	0.535	1.219	0.652	0.408		18.8	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.02	2593.00	40620	0.0	19.0	17.93	50	25	Back	5	0.535	1.279	0.684	0.428		18.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.02	2636.50	41055	0.0	19.0	17.87	50	25	Back	5	0.481	1.297	0.598	0.374		19.2	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.14	2680.00	41490	0.0	19.0	18.01	50	50	Back	5	0.479	1.256	0.602	0.376		19.2	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	0.07	2506.00	39750	0.0	19.0	18.33	1	0	Front	5	0.280	1.167	0.127	0.204		21.8	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.02	2506.00	39750	0.0	19.0	18.14	50	0	Front	5	0.289	1.164	0.136	0.210		21.7	
Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.03	2506.00	39750	0.0	19.0	18.33	1	0	Bottom	10	0.297	1.167	0.347	0.217		21.6	
Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.34	50	0	Bottom	10	0.308	1.164	0.359	0.224		21.4	
Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.06	2549.50	39750	0.0	19.0	18.33	1	0	Left	10	0.127	1.167	0.148	0.093		25.3	
Hotspot	LTE Band 41	20	QPSK	B	1911M	1:1.58	-0.08	2506.00	39750	0.0	19.0	18.34	50	0	Left	10	0.133	1.164	0.155	0.097		25.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-60 - Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2506.00	39750	0.0	18.0	16.88	1	0	Right Cheek	0	0.508	1.294	0.657	0.411		17.8	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.18	2549.50	40185	0.0	18.0	16.99	1	99	Right Cheek	0	0.509	1.262	0.642	0.403		17.9	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2593.00	40620	0.0	18.0	16.60	1	0	Right Cheek	0	0.577	1.380	0.796	0.498		17.0	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.01	2636.50	41055	0.0	18.0	16.46	1	0	Right Cheek	0	0.552	1.426	0.787	0.492		17.0	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.05	2680.00	41490	0.0	18.0	16.50	1	99	Right Cheek	0	0.480	1.552	0.941	0.598		18.6	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.02	2506.00	39750	0.0	18.0	16.92	50	50	Right Cheek	0	0.578	1.282	0.741	0.463		17.3	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.00	2549.50	40185	0.0	18.0	16.93	50	50	Right Cheek	0	0.577	1.279	0.738	0.461		17.3	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.01	2593.00	40620	0.0	18.0	16.57	50	0	Right Cheek	0	0.604	1.358	0.820	0.513		16.8	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.02	2636.50	41055	0.0	18.0	16.48	50	25	Right Cheek	0	0.546	1.419	0.775	0.484		17.1	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.05	2680.00	41490	0.0	18.0	16.57	50	50	Right Cheek	0	0.406	1.590	0.564	0.353		18.5	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.01	2549.50	40185	0.0	18.0	16.90	100	0	Right Cheek	0	0.544	1.288	0.701	0.438		17.5	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.02	2506.00	39750	0.0	18.0	16.98	1	0	Right Tilt	0	0.474	1.294	0.613	0.381		18.1	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2549.50	40185	0.0	19.0	16.99	1	99	Right Tilt	0	0.543	1.262	0.684	0.428		17.6	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.04	2593.00	40620	0.0	18.0	16.60	1	0	Right Tilt	0	0.579	1.380	0.799	0.499		16.9	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.02	2636.50	41055	0.0	18.0	16.48	1	0	Right Tilt	0	0.567	1.426	0.809	0.506		16.9	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.02	2680.00	41490	0.0	18.0	16.50	1	99	Right Tilt	0	0.434	1.552	0.907	0.567		18.3	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2506.00	39750	0.0	18.0	16.92	50	50	Right Tilt	0	0.566	1.282	0.726	0.454		17.4	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.00	2549.50	40185	0.0	18.0	16.93	50	50	Right Tilt	0	0.570	1.279	0.729	0.456		17.3	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.03	2593.00	40620	0.0	18.0	16.57	50	0	Right Tilt	0	0.609	1.358	0.827	0.517	Plot	16.8	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.02	2636.50	41055	0.0	18.0	16.48	50	25	Right Tilt	0	0.567	1.419	0.805	0.503		16.9	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2680.00	41490	0.0	18.0	16.57	50	50	Right Tilt	0	0.456	1.590	0.584	0.396		17.9	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2549.50	40185	0.0	18.0	16.90	100	0	Right Tilt	0	0.583	1.288	0.751	0.469		17.2	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.02	2549.50	40185	0.0	18.0	16.99	1	99	Left Cheek	0	0.234	1.262	0.295	0.184		21.3	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.03	2549.50	40185	0.0	18.0	16.93	50	50	Left Cheek	0	0.245	1.279	0.313	0.196		21.0	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.00	2549.50	40185	0.0	18.0	16.99	1	99	Left Tilt	0	0.274	1.262	0.346	0.216		20.6	
Head	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.03	2549.50	40185	0.0	18.0	16.93	50	50	Left Tilt	0	0.286	1.279	0.363	0.227		20.4	
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 12-61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.00	2549.50	40185	0.0	18.0	16.99	1	99	Back	5	0.401	1.262	0.506	0.316		18.9	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.01	2549.50	40185	0.0	18.0	16.93	50	50	Back	5	0.408	1.279	0.522	0.328		18.8	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.08	2549.50	40185	0.0	18.0	16.99	1	99	Front	5	0.241	1.262	0.304	0.190		21.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.03	2549.50	40185	0.0	18.0	16.93	50	50	Front	5	0.248	1.279	0.317	0.198		21.0	
Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.07	2549.50	40185	0.0	18.0	16.99	1	99	Top	10	0.133	1.262	0.168	0.105		23.7	18.8
Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	-0.11	2549.50	40185	0.0	18.0	16.93	50	50	Top	10	0.136	1.279	0.174	0.109		23.6	
Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.08	2549.50	40185	0.0	18.0	16.99	1	99	Left	10	0.021	1.262	0.029	0.018		25.3	
Hotspot	LTE Band 41	20	QPSK	F	1911M	1:1.58	0.09	2549.50	40185	0.0	18.0	16.93	50	50	Left	10	0.025	1.279	0.032	0.020		26.9	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.16 LTE Band 48 Standalone SAR

Table 12-62 - Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]
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Table 12-63 - Plot A39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.03	1560.00	55340	0.0	18.0	17.23	1	99	Back	5	N/A	0.475	1.194	0.567	0.554	Plot	18.4	
Body worn/Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.01	1560.00	55340	0.0	18.0	17.27	50	50	Back	5	N/A	0.468	1.183	0.554	0.546		18.5	
Body worn/Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.07	1560.00	55340	0.0	18.0	17.29	1	99	Front	5	N/A	0.234	1.194	0.279	0.174		21.5	
Body worn/Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.01	1560.00	55340	0.0	18.0	17.27	50	50	Front	5	N/A	0.227	1.183	0.265	0.168		21.7	
Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	-0.14	1560.00	55340	0.0	18.0	17.23	1	99	Top	10	N/A	0.187	1.194	0.223	0.139		22.5	
Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.06	1560.00	55340	0.0	18.0	17.27	50	50	Top	10	N/A	0.175	1.183	0.207	0.129		22.8	
Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.02	1560.00	55340	0.0	18.0	17.26	1	99	Left	10	N/A	0.020	1.194	0.024	0.015		32.2	
Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	0.03	1560.00	55340	0.0	18.0	17.27	50	50	Left	10	N/A	0.024	1.183	0.017	0.011		33.8	
Body worn/Hotspot	LTE Band 48	20	QPSK	F	2229M	1:1.58	-0.01	1560.00	55340	0.0	18.0	17.14	1	99	Back	5	ULCA ABC	0.437	1.219	0.533	0.333		18.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.17 NR Band n71 Standalone SAR

Table 12-64

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n71	20	QPSK	A	3082M	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.0	24.73	1	1	Right Cheek	0	0.175	1.064	0.186	0.118		32.2	
Head	NR Band n71	20	QPSK	A	3082M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	24.48	50	28	Right Cheek	0	0.188	1.127	0.212	0.133		31.7	
Head	NR Band n71	20	QPSK	A	3082M	1:1	-0.08	680.50	136100	CP-OFDM	1.5	23.5	23.10	1	1	Right Cheek	0	0.108	1.096	0.118	0.074		32.7	
Head	NR Band n71	20	QPSK	A	3082M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.73	1	1	Right Tilt	0	0.048	1.064	0.049	0.031		38.1	
Head	NR Band n71	20	QPSK	A	3082M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.48	50	28	Right Tilt	0	0.086	1.127	0.054	0.034		37.6	
Head	NR Band n71	20	QPSK	A	3082M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.73	1	1	Left Cheek	0	0.074	1.064	0.079	0.049		36.0	
Head	NR Band n71	20	QPSK	A	3082M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.48	50	28	Left Cheek	0	0.054	1.127	0.105	0.086		34.7	
Head	NR Band n71	20	QPSK	A	3082M	1:1	0.14	680.50	136100	DFT-s-OFDM	0.0	25.0	24.73	1	1	Left Tilt	0	0.084	1.064	0.036	0.023		39.4	
Head	NR Band n71	20	QPSK	A	3082M	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.0	24.48	50	28	Left Tilt	0	0.045	1.127	0.052	0.033		37.8	
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 12-65 - Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.12	680.50	136100	DFT-s-OFDM	0.0	23.0	21.89	1	1	Back	5	0.624	1.294	0.807	0.504		23.9	
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	21.75	50	0	Back	5	0.657	1.334	0.876	0.548		23.5	
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	23.0	21.69	100	0	Back	5	0.701	1.365	0.957	0.598	Plot	23.1	
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.13	680.50	136100	CP-OFDM	0.0	23.0	21.82	1	1	Back	5	0.645	1.312	0.846	0.529		23.7	
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	21.89	1	1	Front	5	0.292	1.294	0.378	0.236		27.2	
Body worn/Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	23.0	21.75	50	0	Front	5	0.292	1.334	0.390	0.244		27.0	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	23.0	21.89	1	1	Bottom	10	0.098	1.294	0.127	0.079		31.9	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	23.0	21.75	50	0	Bottom	10	0.107	1.334	0.143	0.089		31.4	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	23.0	21.99	1	1	Right	10	0.123	1.294	0.159	0.099		30.9	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	23.0	21.75	50	0	Right	10	0.142	1.334	0.189	0.138		30.2	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.0	21.89	1	1	Left	10	0.120	1.294	0.155	0.097		31.0	
Hotspot	NR Band n71	20	QPSK	A	3082M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	23.0	21.75	50	0	Left	10	0.131	1.334	0.175	0.109		30.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-66 - Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	1	1	Right Cheek	0	0.439	1.300	0.571	0.357		22.4	
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	20.0	18.94	50	56	Right Cheek	0	0.393	1.306	0.513	0.321		22.8	
Head	NR Band n71	20	QPSK	E	3082M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	1	1	Right Tilt	0	0.375	1.300	0.493	0.308		23.0	
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	20.0	18.84	50	56	Right Tilt	0	0.335	1.306	0.438	0.274		23.5	
Head	NR Band n71	20	QPSK	E	3082M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	1	1	Left Cheek	0	0.367	1.300	0.527	0.461	Plot	21.2	
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	20.0	18.89	50	56	Left Cheek	0	0.447	1.306	0.584	0.385		22.3	
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.07	680.50	136100	CP-OFDM	0.0	20.0	18.89	1	1	Left Cheek	0	0.554	1.294	0.717	0.448		21.4	
Head	NR Band n71	20	QPSK	E	3082M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	20.0	18.94	1	1	Left Tilt	0	0.422	1.300	0.549	0.343		22.0	
Head	NR Band n71	20	QPSK	E	3082M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	20.0	18.84	50	56	Left Tilt	0	0.392	1.306	0.499	0.312		23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]			
Body worn/Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.05	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	1	1	Back	5	0.478	1.300	0.556	0.348		22.5				
Body worn/Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	20.0	18.84	50	56	Back	5	0.389	1.306	0.508	0.318		22.9				
Body worn/Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	0.00	680.50	136100	CP-OFDM	0.0	20.0	18.89	1	1	Back	5	0.417	1.294	0.540	0.338		22.6				
Body worn/Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	20.0	18.90	1	1	Front	5	0.317	1.300	0.412	0.248		21.8				
Body worn/Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.12	680.50	136100	DFT-s-OFDM	0.0	20.0	18.84	50	56	Front	5	0.304	1.306	0.397	0.248		22.0				
Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.10	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	1	1	Top	10	0.133	1.300	0.173	0.108		27.6				
Hotspot	NR Band n71	20	QPSK	E	3082M	1:	-0.09	680.50	136100	DFT-s-OFDM	0.0	20.0	18.96	50	56	Top	10	0.133	1.306	0.173	0.108		27.7				
Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	20.0	18.88	1	1	Right	10	0.107	1.300	0.139	0.087	28.5	28.0				
Hotspot	NR Band n71	20	QPSK	E	3082M	1:1	-0.09	680.50	136100	DFT-s-OFDM	0.0	20.0	18.94	50	56	Right	10	0.120	1.306	0.157	0.098		28.0				
UNCLASSIFIED - SAFETY LIMIT																											
Annoyed/IRR 1292 - SAFETY LIMIT																											
Spatial Peak																											
Uncorrelated Exposure (General Population)																											
																		Body					16 W/kg (mm/g)				
																		averaged 10 gram									

12.18 NR Band n5 Standalone SAR

Table 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n5	20	QPSK	A	0110M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	24.12	1	53	Right Cheek	0	0.202	1.225	0.247	0.154		31.0	
Head	NR Band n5	20	QPSK	A	0110M	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	25.0	24.07	50	28	Right Cheek	0	0.201	1.239	0.249	0.156		31.0	
Head	NR Band n5	20	QPSK	A	0110M	1:1	-0.14	836.50	167300	CP-OFDM	1.5	25.0	22.31	1	1	Right Cheek	0	0.118	1.335	0.135	0.087		31.0	
Head	NR Band n5	20	QPSK	A	0110M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	24.12	1	53	Right Tilt	0	0.099	1.225	0.121	0.076		34.1	
Head	NR Band n5	20	QPSK	A	0110M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	24.07	50	28	Right Tilt	0	0.096	1.239	0.119	0.074		34.2	
Head	NR Band n5	20	QPSK	A	0110M	1:1	-0.21	836.50	167300	DFT-s-OFDM	0.0	25.0	24.12	1	53	Left Cheek	0	0.135	1.225	0.190	0.119		32.2	
Head	NR Band n5	20	QPSK	A	0110M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	24.07	50	28	Left Cheek	0	0.148	1.239	0.183	0.114		32.1	
Head	NR Band n5	20	QPSK	A	0110M	1:1	-0.18	836.50	167300	DFT-s-OFDM	0.0	25.0	24.12	1	53	Left Tilt	0	0.079	1.225	0.097	0.061		35.1	
Head	NR Band n5	20	QPSK	A	0110M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	25.0	24.07	50	28	Left Tilt	0	0.079	1.239	0.098	0.061		35.0	
ANS/IEEE CS1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-69 - Plot A43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.0	21.49	1	104	Back	5	0.827	1.352	1.118	0.699	Plot	22.5	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.49	1	104	Back	5	0.825	1.352	0.972	0.699		21.1	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	23.0	21.63	50	56	Back	5	0.786	1.371	1.078	0.674		22.6	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.59	100	0	Back	5	0.740	1.384	1.024	0.640		22.8	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	0.01	836.50	167300	CP-OFDM	0.0	23.0	21.40	1	1	Back	5	0.646	1.465	0.933	0.583		23.2	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	23.0	21.69	1	104	Front	5	0.450	1.352	0.608	0.380		25.1	
Body worn/Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.63	50	56	Front	5	0.417	1.371	0.572	0.358		25.4	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	23.0	21.69	1	104	Bottom	10	0.616	1.352	0.119	0.074		22.2	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.0	21.63	50	56	Bottom	10	0.552	1.371	0.111	0.069		25.5	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	23.0	21.69	1	104	Right	10	0.207	1.352	0.280	0.175		28.5	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.63	50	56	Right	10	0.202	1.371	0.277	0.173		28.5	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	23.0	21.69	1	104	Left	10	0.094	1.352	0.127	0.079		31.9	
Hotspot	NR Band n5	20	QPSK	A	0110M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.63	50	56	Left	10	0.094	1.371	0.129	0.081		31.8	
ANS/IEEE CS1.1992 - 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 12-70 - Plot A42

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.03	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Right Cheek	0	0.332	1.426	0.502	0.314		22.9	
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Right Cheek	0	0.352	1.416	0.498	0.311		23.0	
Head	NR Band n5	20	QPSK	E	3082M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Right Tilt	0	0.324	1.426	0.462	0.289		23.1	
Head	NR Band n5	20	QPSK	E	3082M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Right Tilt	0	0.323	1.416	0.457	0.286		23.1	
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.11	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Left Cheek	0	0.423	1.426	0.603	0.377		22.2	
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Left Cheek	0	0.435	1.416	0.588	0.368		22.3	
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.08	836.50	167300	CP-OFDM	0.0	20.0	18.39	1	1	Left Cheek	0	0.442	1.449	0.460	0.400	Plot	21.9	
Head	NR Band n5	20	QPSK	E	3082M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Left Tilt	0	0.395	1.426	0.563	0.352		22.4	
Head	NR Band n5	20	QPSK	E	3082M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Left Tilt	0	0.389	1.416	0.551	0.344		22.5	
ANS/IEEE CS1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.00	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Back	5	0.878	1.426	0.579	0.337		22.6	
Body worn/Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Back	5	0.975	1.416	0.531	0.332		22.7	
Body worn/Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.02	836.50	167300	CP-OFDM	0.0	20.0	18.39	1	1	Back	5	0.936	1.449	0.574	0.359		22.4	
Body worn/Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Front	5	0.288	1.426	0.411	0.257		23.8	
Body worn/Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.06	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Front	5	0.282	1.416	0.399	0.249		23.9	
Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Top	10	0.132	1.426	0.188	0.118		27.2	
Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.01	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Top	10	0.136	1.416	0.193	0.121		27.1	
Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	20.0	18.46	1	53	Right	10	0.098	1.426	0.140	0.086		28.5	
Hotspot	NR Band n5	20	QPSK	E	3082M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	20.0	18.49	50	28	Right	10	0.097	1.416	0.137	0.086		28.6	
ANS/IEEE CS1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.19 NR Band n70 Standalone SAR

Table 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n70	15	QPSK	A	0110M	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.11	1	77	Right Cheek	0	0.082	1.377	0.113	0.071		33.9	
Head	NR Band n70	15	QPSK	A	0110M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.13	36	22	Right Cheek	0	0.094	1.355	0.127	0.079		33.4	
Head	NR Band n70	15	QPSK	A	0110M	1:1	0.20	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.11	1	77	Right Tilt	0	0.055	1.377	0.078	0.048		35.7	
Head	NR Band n70	15	QPSK	A	0110M	1:1	-0.09	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.18	36	22	Right Tilt	0	0.067	1.355	0.091	0.057		34.9	
Head	NR Band n70	15	QPSK	A	0110M	1:1	-0.14	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.11	1	77	Left Cheek	0	0.335	1.377	0.461	0.288		27.8	
Head	NR Band n70	15	QPSK	A	0110M	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.13	36	22	Left Cheek	0	0.323	1.355	0.453	0.285		28.3	
Head	NR Band n70	15	QPSK	A	0110M	1:1	0.01	1702.50	340500	CP-OFDM	1.5	23.0	23.10	1	1	Left Cheek	0	0.154	1.330	0.205	0.128		29.8	
Head	NR Band n70	15	QPSK	A	0110M	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.13	1	77	Left Tilt	0	0.137	1.377	0.182	0.114		31.9	
Head	NR Band n70	15	QPSK	A	0110M	1:1	0.06	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.13	36	22	Left Tilt	0	0.154	1.355	0.209	0.131		31.3	
Anno/ESE CRS1.1.192 - SAFETY LIMIT																			Head					
Uncollected Exposure (General Population)																			1.6 W/kg (mm/g)					
Spatial Peak averaged over 1 gram																			1.6 W/kg (mm/g)					

Table 12-73 - Plot A45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.00	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Back	5	0.569	1.466	0.834	0.521		17.2	
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Back	5	0.582	1.469	0.835	0.534		17.1	
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.79	75	0	Back	5	0.597	1.486	0.887	0.554	Plot	17.0	
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.06	1702.50	340500	CP-OFDM	0.0	16.5	14.80	1	1	Back	5	0.577	1.479	0.833	0.533	17.1		
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Front	5	0.507	1.466	0.743	0.464		17.7	
Body-worn/Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Front	5	0.520	1.469	0.764	0.478		17.6	
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Bottom	10	0.466	1.466	0.642	0.426	18.1		17.0
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Bottom	10	0.481	1.469	0.707	0.442		18.0	
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.15	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Right	10	0.035	1.466	0.051	0.032		28.3	
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.20	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Right	10	0.035	1.469	0.051	0.032		28.3	
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Left	10	0.032	1.466	0.047	0.029		29.7	
Hotspot	NR Band-n70	15	QPSK	A	0110M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Left	10	0.032	1.469	0.047	0.029		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						

Table 12-74 - Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]			
Phabliet	NR Band-n70	15	QPSK	A	0110M	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.84	1	1	Bottom	0	0.532	1.466	0.780	0.395		21.5				
	NR Band-n70	15	QPSK	A	0110M	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	16.5	14.83	36	0	Bottom	0	0.534	1.469	0.784	0.396	Plot	21.5	21.5			
	Phabliet	NR Band-n70	15	QPSK	A	0110M	1:1	0.01	1702.50	340500	CP-OFDM	0.0	16.5	14.80	1	1	Bottom	0	0.529	1.479	0.782	0.396		21.5			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Phabliet									
Spatial Peak																		4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 10 grams									

Table 12-75 - Plot A44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band-n70	15	QPSK	F	0110M	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Right Cheek	0	0.503	1.000	0.503	0.314		18.9	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Right Cheek	0	0.497	1.000	0.497	0.311		20.0	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Right Tib	0	0.626	1.000	0.626	0.391		19.0	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Right Tib	0	0.633	1.000	0.633	0.396	Plot	18.9	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.02	1702.50	340500	CP-OFDM	0.0	17.0	16.89	1	1	Right Tib	0	0.628	1.026	0.644	0.403		18.9	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Left Cheek	0	0.466	1.000	0.466	0.286		20.4	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Left Cheek	0	0.543	1.000	0.543	0.314		21.6	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Left Tib	0	0.457	1.000	0.457	0.286		20.4	
Head	NR Band-n70	15	QPSK	F	0110M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Left Tib	0	0.456	1.000	0.456	0.285		20.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

Table 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Back	5	0.313	1.000	0.313	0.196		22.0	
Body-worn/Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.21	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Back	5	0.307	1.000	0.307	0.192		22.1	
Body-worn/Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.15	1702.50	340500	CP-OFDM	0.0	17.0	16.89	1	1	Back	5	0.299	1.026	0.307	0.192		22.1	
Body-worn/Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	0.07	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Front	5	0.243	1.000	0.243	0.152		23.1	
Body-worn/Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.17	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Front	5	0.251	1.000	0.251	0.157		23.0	
Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Top	10	0.194	1.000	0.194	0.121		24.1	22.0
Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Top	10	0.205	1.000	0.205	0.128		23.8	
Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.14	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	1	77	Left	10	0.057	1.000	0.057	0.036		28.4	
Hotspot	NR Band-n70	15	QPSK	F	0110M	1:1	-0.02	1702.50	340500	DFT-s-OFDM	0.0	17.0	17.00	36	43	Left	10	0.056	1.000	0.056	0.035		28.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

12.20 NR Band n66 Standalone SAR

Table 12-77

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPRR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band-n66	40	QPSK	A	0110M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.57	1	214	Right Cheek	0	0.129	1.239	0.160	0.100		32.4	
Head	NR Band-n66	40	QPSK	A	0110M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.81	108	54	Right Cheek	0	0.181	1.315	0.176	0.120		32.0	
Head	NR Band-n66	40	QPSK	A	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.57	1	214	Right Tib	0	0.113	1.239	0.140	0.088		33.0	
Head	NR Band-n66	40	QPSK	A	0110M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.31	108	54	Right Tib	0	0.106	1.315	0.139	0.087		33.0	
Head	NR Band-n66	40	QPSK	A	0110M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.57	1	214	Left Cheek	0	0.208	1.239	0.248	0.161	0.03	29.7	29.7
Head	NR Band-n66	40	QPSK	A	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.57	1	214	Left Tib	0	0.126	1.239	0.140	0.088		33.0	
Head	NR Band-n66	40	QPSK	A	0110M	1:1	0.07	1745.00	349000	CP-OFDM	1.5	23.0	21.83	1	1	Left Cheek	0	0.156	1.309	0.204	0.128	0.28	28.8	28.8
Head	NR Band-n66	40	QPSK	A	0110M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.57	1	214	Left Tib	0	0.127	1.239	0.157	0.098	12.5	12.5	12.5
Head	NR Band-n66	40	QPSK	A	0110M	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.81	108	54	Left Tib	0	0.144	1.315	0.150	0.094	13.6	13.7	13.7
ANR/EEC CPL1.1.1992 - SAFETY LIMIT																		1.6 W/kg head averaged over 10 min						
Uncontrolled Exposure/General Population																		1.6 W/kg head averaged over 10 min						

Table 12-78 - Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Back	5	0.901	1.197	1.078	0.674			17.6
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Back	5	0.924	1.183	1.093	0.683			17.6
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.08	216	0	Back	5	0.900	1.236	1.112	0.695			17.5
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.02	1745.00	349000	CP-OFDM	0.0	18.0	17.28	1	1	Back	5	0.933	1.180	1.001	0.688	Plot		17.5
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.06	1745.00	349000	CP-OFDM	0.0	18.0	17.01	1	1	Back	5	0.911	1.180	1.080	0.681			17.6
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Front	5	0.701	1.197	0.839	0.524			18.7
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Front	5	0.699	1.189	0.827	0.517			18.8
Body worn/Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.08	216	0	Front	5	0.682	1.236	0.843	0.527			18.7
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Bottom	10	0.727	1.197	0.870	0.544			18.6
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Bottom	10	0.753	1.183	0.891	0.557			18.5
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.08	216	0	Bottom	10	0.792	1.236	0.929	0.581			18.3
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.19	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Right	10	0.029	1.197	0.035	0.022			32.5
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Right	10	0.040	1.183	0.047	0.029			31.2
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Left	10	0.118	1.197	0.160	0.103			25.8
Hotspot	NR Band n66	40	QPSK	A	0110M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Left	10	0.134	1.183	0.159	0.099			25.9
Spatial Peak																								
Uncontrolled Exposure/General Population																								
1.6 W/kg (mW/g) averaged over 1 gram																								

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-79

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plim1 [dBm]	Overall Plim1 [dBm]
Phablet	NR Band n66	40	QPSK	A	0110M	1:1	-0.17	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.22	1	214	Bottom	0	0.663	1.197	0.794	0.199			22.9
Phablet	NR Band n66	40	QPSK	A	0110M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	18.0	17.27	108	108	Bottom	0	0.480	1.183	0.804	0.201			22.9
Phablet	NR Band n66	40	QPSK	A	0110M	1:1	-0.15	1745.00	349000	CP-OFDM	0.0	18.0	17.28	1	1	Bottom	0	0.709	1.180	0.837	0.209			22.7
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Phablet																								
4.0 W/kg (mW/g)																								
averaged over 10 grams																								

Table 12-80 - Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Right Cheek	0	0.509	1.202	0.612	0.383			19.1
Head	NR Band n66	40	QPSK	F	0110M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Right Cheek	0	0.509	1.189	0.605	0.378			19.1
Head	NR Band n66	40	QPSK	F	0110M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.20	1	108	Right Tilt	0	0.617	1.202	0.742	0.464			18.2
Head	NR Band n66	40	QPSK	F	0110M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Right Tilt	0	0.612	1.189	0.728	0.455			18.2
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.05	1745.00	349000	CP-OFDM	0.0	17.0	16.08	216	0	Right Tilt	0	0.633	1.236	0.782	0.489	Plot		18.0
Head	NR Band n66	40	QPSK	F	0110M	1:1	0.00	1745.00	349000	CP-OFDM	0.0	17.0	16.10	1	1	Right Tilt	0	0.621	1.230	0.764	0.478			18.1
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.20	1	108	Left Cheek	0	0.390	1.202	0.469	0.293			20.2
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Left Cheek	0	0.385	1.189	0.458	0.286			20.3
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Left Tilt	0	0.466	1.202	0.560	0.350			19.5
Head	NR Band n66	40	QPSK	F	0110M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.31	108	108	Left Tilt	0	0.467	1.189	0.555	0.347			19.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Head																								
1.6 W/kg (mW/g)																								
averaged over 1 gram																								

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plim [dBm]	Overall Plim [dBm]
Body worn/Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Back	5	0.362	1.202	0.435	0.272			20.6
Body worn/Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Back	5	0.359	1.189	0.427	0.267			20.6
Body worn/Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	0.04	1745.00	349000	CP-OFDM	0.0	17.0	16.10	1	1	Back	5	0.352	1.230	0.431	0.271			20.6
Body worn/Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.06	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Front	5	0.239	1.202	0.275	0.172			22.6
Body worn/Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Front	5	0.229	1.189	0.272	0.170			22.6
Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.15	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Top	10	0.259	1.202	0.311	0.194			22.0
Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Top	10	0.252	1.189	0.300	0.188			22.2
Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Left	10	0.024	1.202	0.040	0.025			31.0
Hotspot	NR Band n66	40	QPSK	F	0110M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Left	10	0.034	1.189	0.040	0.025			30.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
																		Body						
																		1.6 W/kg (mW/g)						
																		averaged over 1 gram						

Table 12-82 - Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plim# [dBm]	Overall Plim# [dBm]	
Phablet	NR Band n66	40	QPSK	F	0110M	1:1	-0.15	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.30	1	108	Top	0	0.766	1.202	0.921	0.230		21.3	21.1	
Phablet	NR Band n66	40	QPSK	F	0110M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.25	108	108	Top	0	0.764	1.189	0.908	0.227		21.3		
Phablet	NR Band n66	40	QPSK	F	0110M	1:1	0.00	1745.00	349000	CP-OFDM	0.0	17.0	16.30	1	1	Top	0	0.775	1.230	0.953	0.238	Plot	21.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							Phablet		
Spatial Peak											4.0 W/kg (mW/g) averaged over 10 grams														
Uncontrolled Exposure/General Population																									

Table 12-84 - Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Back	5	0.677	1.279	0.866	0.541	Plot	17.1	
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Back	5	0.667	1.300	0.867	0.542		17.1	
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.31	216	0	Back	5	0.664	1.315	0.873	0.546		17.0	
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.03	1882.50	376500	CP-OFDM	0.0	16.5	15.09	1	1	Back	5	0.636	1.364	0.853	0.533	17.1		
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Front	5	0.505	1.279	0.646	0.404		18.3	
Body worn/Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Front	5	0.494	1.300	0.642	0.401		18.4	
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Bottom	10	0.494	1.279	0.632	0.395	18.4		17.0
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Bottom	10	0.482	1.300	0.627	0.392	18.5		
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Right	10	0.043	1.279	0.055	0.034		28.0	
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Right	10	0.042	1.300	0.055	0.034		28.1	
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.06	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Left	10	0.023	1.279	0.029	0.018		31.8	
Hotspot	NR Band-n25	40	QPSK	A	0110M	1:1	0.18	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Left	10	0.027	1.300	0.029	0.018		31.9	
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 12-85 - Plot A52

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio [10g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phabnet	NR Band-n25	40	QPSK	A	0110M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.43	1	108	Bottom	0	0.581	1.279	0.743	0.186		21.7	
Phabnet	NR Band-n25	40	QPSK	A	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	16.5	15.36	108	54	Bottom	0	0.573	1.300	0.745	0.186		21.8	
Phabnet	NR Band-n25	40	QPSK	A	0110M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	16.5	15.09	1	1	Bottom	0	0.593	1.364	0.821	0.205	Plot	21.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Phabnet							
Spatial Peak																	4.0 W/kg (mW/g) averaged over 10 grams							
Uncontrolled Exposure/General Population																	Phabnet							

Table 12-86 - Plot A50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band-n25	40	QPSK	F	0110M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Right Cheek	0	0.401	1.531	0.614	0.164		21.1	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Right Cheek	0	0.411	1.528	0.628	0.161		21.0	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Right Tilt	0	0.509	1.531	0.779	0.487	Plot	20.0	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Right Tilt	0	0.495	1.528	0.736	0.473		20.2	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	19.0	17.05	1	1	Right Tilt	0	0.439	1.549	0.680	0.425		20.6	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Left Cheek	0	0.281	1.531	0.430	0.269		22.6	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Left Cheek	0	0.289	1.528	0.442	0.276		22.5	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.05	1	214	Left Tilt	0	0.398	1.531	0.672	0.265		22.1	
Head	NR Band-n25	40	QPSK	F	0110M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Left Tilt	0	0.313	1.528	0.478	0.209		22.2	
ANSI/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 12-87

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	-0.14	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Back	5	0.288	1.531	0.441	0.276		22.5	
	NR Band-n25	40	QPSK	F	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Back	5	0.291	1.528	0.445	0.278		22.5	
Body worn/Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	0.01	1882.50	376500	CP-OFDM	0.0	19.0	17.10	1	1	Back	5	0.284	1.549	0.440	0.275		22.5	
	NR Band-n25	40	QPSK	F	0110M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Front	5	0.180	1.531	0.276	0.173		24.5	
Body worn/Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Front	5	0.176	1.528	0.269	0.168		24.7	
	Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Top	10	0.217	1.531	0.332	0.208		23.7
Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Top	10	0.207	1.528	0.318	0.198		24.0	
	NR Band-n25	40	QPSK	F	0110M	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.15	1	214	Left	10	0.034	1.531	0.052	0.033		31.8	
Hotspot	NR Band-n25	40	QPSK	F	0110M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.16	108	0	Left	10	0.033	1.528	0.050	0.031		31.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body							
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak																	Body							
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram							

12.22 NR Band n30 Standalone SAR

Table 12-88

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band-n30	10	QPSK	B	3082M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.73	1	26	Right Cheek	0	0.040	1.194	0.048	0.030		36.7	
Head	NR Band-n30	10	QPSK	B	3082M	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.67	25	14	Right Cheek	0	0.045	1.211	0.054	0.034		36.1	
Head	NR Band-n30	10	QPSK	B	3082M	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.73	1	26	Right Tilt	0	0.037	1.194	0.044	0.028		37.0	

Table 12-90 - Plot A55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n30	10	QPSK	B	308JM	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.10	1	26	Bottom	0	1.060	1.230	1.304	0.316		21.8	21.3
Phablet	NR Band n30	10	QPSK	B	308JM	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.01	25	14	Bottom	0	1.100	1.256	1.382	0.346		21.5	
Phablet	NR Band n30	10	QPSK	B	308JM	1:1	-0.06	2310.00	462000	CP-OFDM	0.0	19.0	18.06	1	1	Bottom	0	1.160	1.242	1.441	0.360	Plot	21.3	
ANS/IEEE CS6.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

Table 12-91 - Plot A53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPRR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Right Cheek	0	0.670	1.125	0.754	0.471		20.2	19.6
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Right Cheek	0	0.652	1.130	0.737	0.461		20.3	
Head	NR Band n30	10	QPSK	F	308JM	1:1	-0.15	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Right Tib	0	0.758	1.125	0.833	0.533	Plot	19.6	
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Right Tib	0	0.723	1.130	0.817	0.511		19.8	
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.07	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.40	50	0	Right Tib	0	0.690	1.148	0.792	0.495		20.0	
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.08	2310.00	462000	CP-OFDM	0.0	19.0	18.46	1	1	Right Tib	0	0.680	1.152	0.770	0.481		20.1	
Head	NR Band n30	10	QPSK	F	308JM	1:1	-0.07	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Left Cheek	0	0.496	1.125	0.558	0.349	21.5		
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Left Cheek	0	0.469	1.130	0.530	0.311	21.7		
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Left Tib	0	0.676	1.125	0.761	0.476	20.1		
Head	NR Band n30	10	QPSK	F	308JM	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Left Tib	0	0.654	1.130	0.739	0.462	20.3		
ANSI/IEEE CS3.1.1992 - SAFETY LIMIT																	Head							
Spatial Peak																	1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																	averaged over 1 gram							

Table 12-92

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Back	5	0.437	1.125	0.469	0.291		22.2	22.2
Body worn/Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Back	5	0.394	1.130	0.445	0.278		22.5	
Body worn/Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.01	2310.00	462000	CP-OFDM	0.0	19.0	18.46	1	1	Back	5	0.375	1.132	0.425	0.266		22.7	
Body worn/Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Front	5	0.341	1.125	0.386	0.241		23.1	
Body worn/Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Front	5	0.327	1.130	0.370	0.231		23.3	
Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.01	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Top	10	0.316	1.125	0.316	0.223		23.4	
Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Top	10	0.299	1.130	0.338	0.211		23.7	
Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.06	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.49	1	50	Left	10	0.018	1.125	0.020	0.013		35.9	
Hotspot	NR Band n30	10	QPSK	F	308JM	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.47	25	27	Left	10	0.015	1.130	0.017	0.011		36.7	
ANS/IEEE CS3.1.1992 - SAFETY LIMIT																		Body						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						

12.23 NR Band n41 Standalone SAR

Table 12-93 - Plot A56

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.20	1	137	Right Cheek	0	0.088	1.349	0.119	0.074		35.2	32.7
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.14	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.05	135	69	Right Cheek	0	0.087	1.396	0.121	0.076		35.4	
Head	NR Band n41	100	QPSK	B	1885M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.20	1	137	Right Tib	0	0.092	1.349	0.124	0.078		35.5	
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.05	135	69	Right Tib	0	0.089	1.396	0.124	0.078		35.5	
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.20	1	137	Left Cheek	0	0.175	1.349	0.236	0.148	Plot	32.7	
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.05	135	69	Left Cheek	0	0.136	1.396	0.218	0.136		33.1	
Head	NR Band n41	100	QPSK	B	1885M	1:1	-0.17	2592.99	518598	CP-OFDM	1.5	25.0	24.25	1	1	Left Cheek	0	0.135	1.189	0.161	0.101		32.9	
Head	NR Band n41	100	QPSK	B	1885M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.20	1	137	Left Tib	0	0.110	1.349	0.148	0.093		34.7	
Head	NR Band n41	100	QPSK	B	1885M	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.05	135	69	Left Tib	0	0.108	1.396	0.151	0.094		34.7	
ANS/IEEE CS3.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-94 - Plot A57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.35	1	271	Back	5	0.675	1.035	0.699	0.437		20.0	18.7
Body-worn/Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.39	135	138	Back	5	0.652	1.050	0.685	0.428		20.1	
Body-worn/Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	-0.05	2592.99	518598	CP-OFDM	0.0	18.5	17.49	1	1	Back	5	0.749	1.262	0.945	0.591	Plot	18.7	
Body-worn/Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.35	1	271	Front	5	0.654	1.035	0.648	0.394		21.7	
Body-worn/Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.39	135	138	Front	5	0.464	1.050	0.487	0.304		21.6	
Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.35	1	271	Bottom	10	0.433	1.035	0.448	0.280		21.9	
Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.39	135	138	Bottom	10	0.468	1.050	0.491	0.307		21.5	
Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.35	1	271	Left	10	0.153	1.035	0.158	0.099		26.5	
Hotspot	NR Band n41	100	QPSK	B	1885M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.39	135	138	Left	10	0.153	1.050	0.161	0.101		26.4	
ANS/IEEE CS3.1.1992 - SAFETY LIMIT																		Head						
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-95 - Plot A58

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n41	100	QPSK	B	1885M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	18.5	18.35	1	271	Bottom	0	1.340	1.035	1.387	0.347	Plot	21.0	20.

12.24 NR Band n48 Standalone SAR

Table 12-96 - Plot A59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Right Cheek	0	0.716	1.079	0.773	0.483			15.1
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.11	1	53	Right Cheek	0	0.600	1.084	0.608	0.417			16.3
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.01	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.16	1	104	Right Cheek	0	0.675	1.081	0.730	0.456			15.8
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Right Cheek	0	0.635	1.074	0.682	0.426			16.1
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.16	50	28	Right Cheek	0	0.686	1.081	0.742	0.464			15.7
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.18	50	56	Right Cheek	0	0.652	1.076	0.702	0.439			16.0
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.16	100	0	Right Cheek	0	0.680	1.081	0.735	0.459			15.8
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Right Tilt	0	0.742	1.079	0.801	0.501			15.4
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.11	1	53	Right Tilt	0	0.706	1.084	0.772	0.483			15.6
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.16	1	104	Right Tilt	0	0.648	1.081	0.700	0.438			16.0
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.16	50	28	Right Tilt	0	0.702	1.074	0.754	0.471			15.7
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.05	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.16	50	28	Right Tilt	0	0.739	1.081	0.799	0.499			15.4
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.18	50	56	Right Tilt	0	0.695	1.076	0.748	0.468			15.7
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.16	100	0	Right Tilt	0	0.725	1.081	0.764	0.480			15.5
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.00	3570.00	638000	CP-OFDM	0.0	14.5	14.05	1	1	Right Tilt	0	0.743	1.109	0.824	0.515	Plot #		15.3
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Left Cheek	0	0.352	1.079	0.380	0.238			18.7
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.11	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Left Cheek	0	0.417	1.074	0.448	0.280			17.9
Head	NR Band n48	40	QPSK	F	2229M	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Left Tilt	0	0.388	1.079	0.419	0.261			18.2
Head	NR Band n48	40	QPSK	F	2229M	1:1	-0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Left Tilt	0	0.401	1.074	0.431	0.269			18.1
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-97 - Plot A60

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.08	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Back	5	0.593	1.079	0.640	0.400			16.4
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.11	1	53	Back	5	0.616	1.084	0.674	0.421			16.2
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.11	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.16	1	104	Back	5	0.586	1.081	0.617	0.381			18.2
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.07	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Back	5	0.564	1.074	0.606	0.379			16.6
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	14.5	14.16	50	28	Back	5	0.564	1.081	0.610	0.381			16.6
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.13	3679.98	645332	DFT-s-OFDM	0.0	14.5	14.18	50	56	Back	5	0.606	1.076	0.617	0.373			18.0
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.04	3570.00	638000	CP-OFDM	0.0	14.5	14.16	100	0	Back	5	0.648	1.081	0.702	0.438	Plot #		16.0
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.02	3570.00	638000	CP-OFDM	0.0	14.5	14.05	1	1	Back	5	0.568	1.109	0.630	0.394			16.5
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.09	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Front	5	0.291	1.079	0.316	0.198			19.5
Body worn/Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.13	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Front	5	0.290	1.074	0.311	0.194			19.5
Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	-0.06	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Top	10	0.210	1.079	0.227	0.142			20.9
Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Top	10	0.235	1.074	0.252	0.158			20.4
Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	0.07	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Left	10	0.018	1.079	0.019	0.012			31.6
Hotspot	NR Band n48	40	QPSK	F	2229M	1:1	0.08	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Left	10	0.022	1.074	0.024	0.015			30.7
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-98 - Plot A61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	NR Band n48	40	QPSK	F	2229M	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.17	1	53	Top	0	0.884	1.079	0.954	0.239			18.6
Phablet	NR Band n48	40	QPSK	F	2229M	1:1	0.02	3570.00	638000	DFT-s-OFDM	0.0	14.5	14.19	50	28	Top	0	0.897	1.074	0.963	0.241			18.6
Phablet	NR Band n48	40	QPSK	F	1911M	1:1	-0.02	3570.00	638000	CP-OFDM	0.0	14.5	14.05	1	1	Top	0	0.516	1.109	0.618	0.254	Plot #		18.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		4.0 W/kg (mW/g) averaged over 10 grams						

Table 12-99

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n48	40	C	2229M	1:1	0.06	3624.99	641666	CW/SRS	16.0	14.76	Right Cheek	0	0.013	1.330	0.017	0.011			33.6
Head	NR Band n48	40	C	2229M	1:1	0.02	3624.99	641666	CW/SRS	16.0	14.76	Right Tilt	0	0.041	1.330	0.055	0.034			28.6
Head	NR Band n48	40	C	2229M	1:1	0.15	3624.99	641666	CW/SRS	16.0	14.76	Left Cheek	0	0.055	1.330	0.073	0.046			27.3
Head	NR Band n48	40	C	2229M	1:1	0.05	3624.99	641666	CW/SRS	16.0	14.76	Left Tilt	0	0.014	1.330	0.019	0.012			32.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-100

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	NR Band n48	40	C	2229M	1:1	-0.01	3624.99	641666	CW/SRS	16.0	14.76	Back	5	0.409	1.330	0.544	0.340			18.6
Body worn/Hotspot	NR Band n48	40	C	2229M	1:1	-0.04	3624.99	641666	CW/SRS	16.0	14.76	Front	5	0.297	1.330	0.395	0.247			20.0
Hotspot	NR Band n48	40	C	2229M	1:1	0.01	3624.99	641666	CW/SRS	16.0	14.76	Bottom	10	0.028	1.330	0.037	0.023			36.0
Hotspot	NR Band n48	40	C	2229M	1:1	-0.03	3624.99	641666	CW/SRS	16.0	14.76	Left	10	0.178	1.330	0.237	0.148			22.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram						

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Table 12-101

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n48	40	I	2229M	1:1	-0.03	3570.00	638000	CW/SRS	16.0	15.45	Right Cheek	0	0.563	1.135	0.639	0.399		17.9	
Head	NR Band n48	40	I	2229M	1:1	0.01	3624.99	641666	CW/SRS	16.0	15.35	Right Cheek	0	0.487	1.161	0.565	0.353		18.4	
Head	NR Band n48	40	I	2229M	1:1	-0.09	3679.98	645332	CW/SRS	16.0	15.33	Right Cheek	0	0.416	1.167	0.485	0.303		19.1	
Head	NR Band n48	40	I	2229M	1:1	0.13	3570.00	638000	CW/SRS	16.0	15.45	Right Tilt	0	0.598	1.135	0.043	0.027		29.6	
Head	NR Band n48	40	I	2229M	1:1	0.05	3570.00	638000	CW/SRS	16.0	15.45	Left Cheek	0	0.290	1.135	0.329	0.206		20.8	
Head	NR Band n48	40	I	2229M	1:1	0.09	3570.00	638000	CW/SRS	16.0	15.45	Left Tilt	0	0.023	1.135	0.026	0.016		31.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Head							
Spatial Peak													1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 1 gram							

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	I	2229M	1:1	-0.05	3570.00	638000	CW/SRS	16.0	15.45	Back	5	0.302	1.135	0.343	0.214		20.6	
Body-worn/Hotspot	NR Band n48	40	I	2229M	1:1	-0.04	3570.00	638000	CW/SRS	16.0	15.45	Front	5	0.286	1.135	0.325	0.203		20.8	
Hotspot	NR Band n48	40	I	2229M	1:1	0.07	3570.00	638000	CW/SRS	16.0	15.45	Left	10	0.023	1.135	0.026	0.016		31.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body							
Spatial Peak													1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 1 gram							

Table 12-103

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n48	40	D	2229M	1:1	0.01	3679.98	645332	CW/SRS	12.0	11.61	Right Cheek	0	0.000	1.094	0.000	0.000		51.6	
Head	NR Band n48	40	D	2229M	1:1	0.03	3679.98	645332	CW/SRS	12.0	11.61	Right Tilt	0	0.000	1.094	0.000	0.000		51.6	
Head	NR Band n48	40	D	2229M	1:1	0.01	3679.98	645332	CW/SRS	12.0	11.61	Left Cheek	0	0.003	1.094	0.003	0.002		36.8	
Head	NR Band n48	40	D	2229M	1:1	0.04	3679.98	645332	CW/SRS	12.0	11.61	Left Tilt	0	0.000	1.094	0.000	0.000		51.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	D	1885M	1:1	-0.05	3679.98	645332	CW/SRS	12.0	11.61	Back	5	0.547	1.094	0.598	0.374		14.2	
Body-worn/Hotspot	NR Band n48	40	D	2229M	1:1	0.04	3679.98	645332	CW/SRS	12.0	11.61	Front	5	0.013	1.094	0.014	0.009		30.4	
Hotspot	NR Band n48	40	D	2229M	1:1	0.03	3679.98	645332	CW/SRS	12.0	11.61	Bottom	10	0.016	1.094	0.018	0.011		29.5	
Hotspot	NR Band n48	40	D	2229M	1:1	0.01	3679.98	645332	CW/SRS	12.0	11.61	Left	10	0.007	1.094	0.008	0.005		33.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body							
Uncontrolled Exposure/General Population													1.6 W/kg (mW/g)							
													averaged over 1 gram							

12.25 NR Band n77 Standalone SAR

Table 12-105 - Plot A62

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	QPSK	F	2229M	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Right Cheek	0	0.918	1.245	0.936	0.248		17.5	
Head	NR Band n77	100	QPSK	F	2229M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Right Cheek	0	0.284	1.021	0.290	0.181		18.8	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Right Cheek	0	0.344	1.014	0.349	0.218	Plot	18.0	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.01	3750.00	650000	CP-OFDM	0.0	13.5	13.35	1	1	Right Cheek	0	0.277	1.035	0.287	0.179		18.9	
Head	NR Band n77	100	QPSK	F	2229M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Right Tilt	0	0.282	1.021	0.288	0.180		18.9	
Head	NR Band n77	100	QPSK	F	2229M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Right Tilt	0	0.283	1.014	0.287	0.179		18.9	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Left Cheek	0	0.144	1.021	0.147	0.082		21.8	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Left Cheek	0	0.120	1.014	0.122	0.076		22.6	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.12	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Left Tilt	0	0.139	1.021	0.142	0.089		21.9	
Head	NR Band n77	100	QPSK	F	2229M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Left Tilt	0	0.129	1.014	0.131	0.082		22.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head									
Spatial Peak															1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population															averaged over 1 gram									

Table 12-106

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Sinc	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	-0.15	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Back	5	0.260	1.245	0.324	0.203		18.4	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	-0.10	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Back	5	0.203	1.021	0.207	0.129		20.3	
Body-worn/Hotspot	Nr Band n77 DoD	100	QPSK	F	2229M	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.54	135	69	Back	5	0.240	1.247	0.299	0.187		18.7	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Back	5	0.168	1.014	0.170	0.106		21.1	
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	0.08	3500.01	633334	CP-OFDM	0.0	13.5	12.52	1	1	Back	5	0.280	1.253	0.288	0.180		18.9	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	-0.11	3750.00	650000	CP-OFDM	0.0	13.5	13.35	1	1	Back	5	0.174	1.035	0.180	0.113		20.9	
Body-worn/Hotspot	Nr Band n77 DoD	100	QPSK	F	2229M	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Front	5	0.144	1.245	0.179	0.112		20.9	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Front	5	0.111	1.021	0.113	0.071		22.9	
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.54	135	69	Front	5	0.116	1.247	0.145	0.091		21.8	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	0.14	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Front	5	0.109	1.014	0.111	0.069		21.0	
Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	0.14	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Top	10	0.086	1.245	0.107	0.067		23.2	
Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	0.08	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Top	10	0.067	1.021	0.068	0.043		25.1	
Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	-0.03	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.54	135	69	Top	10	0.085	1.247	0.106	0.066		23.2	
Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Top	10	0.067	1.014	0.064	0.040		25.4	
Hotspot	NR Band n77 DoD	100	QPSK	F	2229M	1:1	0.07	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Left	10	0.007	1.245	0.009	0.006		34.0	
Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.41	1	1	Left	10	0.010	1.021	0.010	0.006		33.4	
Hotspot	Nr Band n77 DoD	100	QPSK	F	2229M	1:1	0.02	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.54	135	69	Left	10	0.012	1.247	0.012	0.007		32.7	
Hotspot	NR Band n77	100	QPSK	F	2229M	1:1	0.18	3750.00	650000	DFT-s-OFDM	0.0	13.5	13.44	135	69	Left	10	0.030	1.014	0.030	0.006		33.4	
ANCC/IEEE C95.1-1992 - SAFETY LIMIT																		Body						
Uncorrelated Exposure (General Population)																		1.6 W/kg (mW/kg) averaged over 10g						

Table 12-107 - Plot A64

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 Sin	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n77 DoD	100	QPSK	F	1885M	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.55	1	1	Top	0	0.462	1.245	0.575	0.164	Plot	19.8	19.8
Phablet	NR Band n77	100	QPSK	F	2229M	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	13.5	11.41	1	1	Top	0	0.294	1.021	0.300	0.095		22.7	
Phablet	NR Band n77 DoD	100	QPSK	F	1885M	1:1	0.05	3500.01	633334	DFT-s-OFDM	0.0	13.5	12.54	135	69	Top	0	0.407	1.247	0.508	0.127		20.4	
Phablet	NR Band n77	100	QPSK	F	2229M	1:1	-0.17	3750.00	650000	DFT-s-OFDM	0.0	13.5	11.44	135	69	Top	0	0.275	1.014	0.275	0.090		23.0	
Phablet	NR Band n77 DoD	100	QPSK	F	1885M	1:1	0.00	3500.01	633334	CP-OFDM	0.0	13.5	11.52	1	1	Top	0	0.436	1.253	0.571	0.145		18.9	
Phablet	NR Band n77	100	QPSK	F	2229M	1:1	-0.05	3750.00	650000	CP-OFDM	0.0	13.5	11.35	1	1	Top	0	0.297	1.035	0.307	0.077		22.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77	100	C	2229M	1:1	0.09	3930.00	662000	CW/SRS	13.0	11.97	Right Cheek	0	0.010	1.268	0.013	0.008		31.9	29.6
Head	NR Band n77 DoD	100	C	1885M	1:1	0.01	3500.01	633334	CW/SRS	13.0	11.87	Right Tilt	0	0.005	1.358	0.007	0.004		34.6	
Head	NR Band n77	100	C	2229M	1:1	-0.08	3930.00	662000	CW/SRS	13.0	11.97	Right Tilt	0	0.017	1.268	0.022	0.014		29.6	
Head	NR Band n77	100	C	2229M	1:1	0.05	3930.00	662000	CW/SRS	13.0	11.97	Left Cheek	0	0.017	1.268	0.022	0.014		29.6	
Head	NR Band n77	100	C	2229M	1:1	0.07	3930.00	662000	CW/SRS	13.0	11.97	Left Tilt	0	0.005	1.268	0.006	0.004		34.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-109

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	C	2229M	1:1	-0.10	3500.01	633334	CW/SRS	13.0	11.67	Back	5	0.158	1.358	0.215	0.134		19.6	19.6
Body-worn/Hotspot	NR Band n77	100	C	2229M	1:1	-0.11	3930.00	662000	CW/SRS	13.0	11.97	Back	5	0.092	1.268	0.117	0.073		22.3	
Body-worn/Hotspot	NR Band n77 DoD	100	C	2229M	1:1	-0.12	3500.01	633334	CW/SRS	13.0	11.67	Front	5	0.151	1.358	0.205	0.128		19.8	
Body-worn/Hotspot	NR Band n77	100	C	2229M	1:1	-0.16	3930.00	662000	CW/SRS	13.0	11.97	Front	5	0.077	1.268	0.098	0.061		23.1	
Hotspot	NR Band n77 DoD	100	C	2229M	1:1	0.08	3500.01	633334	CW/SRS	13.0	11.67	Bottom	10	0.010	1.358	0.014	0.009		31.6	
Hotspot	NR Band n77	100	C	2229M	1:1	0.04	3930.00	662000	CW/SRS	13.0	11.97	Bottom	10	0.010	1.268	0.013	0.008		31.9	
Hotspot	NR Band n77 DoD	100	C	2229M	1:1	0.07	3500.01	633334	CW/SRS	13.0	11.67	Left	10	0.058	1.358	0.079	0.049		24.0	
Hotspot	NR Band n77	100	C	2229M	1:1	0.08	3930.00	662000	CW/SRS	13.0	11.97	Left	10	0.049	1.268	0.062	0.039		25.0	
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 12-110

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	I	2229M	1:1	0.01	3500.01	633334	CW/SRS	13.0	11.55	Right Cheek	0	0.193	1.396	0.269	0.168		18.6	17.9
Head	NR Band n77	100	I	2229M	1:1	-0.04	3930.00	662000	CW/SRS	13.0	12.50	Right Cheek	0	0.282	1.122	0.316	0.198		17.9	
Head	NR Band n77	100	I	2229M	1:1	0.08	3930.00	662000	CW/SRS	13.0	12.50	Right Tilt	0	0.008	1.122	0.009	0.006		33.4	
Head	NR Band n77	100	I	2229M	1:1	0.09	3930.00	662000	CW/SRS	13.0	12.50	Left Cheek	0	0.175	1.122	0.196	0.123		20.0	
Head	NR Band n77	100	I	2229M	1:1	0.07	3930.00	662000	CW/SRS	13.0	12.50	Left Tilt	0	0.006	1.122	0.007	0.004		34.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram		

Table 12-111

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Hotspot	NR Band n77	100	I	0993M	1:1	0.04	3930.00	662000	CW/SRS	13.0	12.50	Back	5	0.127	1.122	0.142	0.089		21.4	21.1	
Body-worn/Hotspot	NR Band n77 DoD	100	I	0993M	1:1	0.07	3500.01	633334	CW/SRS	13.0	11.55	Front	5	0.086	1.396	0.120	0.075		22.2		
Body-worn/Hotspot	NR Band n77	100	I	0993M	1:1	-0.04	3930.00	662000	CW/SRS	13.0	12.50	Front	5	0.136	1.122	0.153	0.096		21.1		
Hotspot	NR Band n77	100	I	0993M	1:1	0.05	3930.00	662000	CW/SRS	13.0	12.50	Left	10	0.009	1.122	0.010	0.006		32.9		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram			

Table 12-112

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	D	2229M	1:1	0.04	3500.01	633334	CW/SRS	12.0	11.46	Right Cheek	0	0.000	1.132	0.000	0.000		51.4	51.4
Head	NR Band n77	100	D	2229M	1:1	0.06	3750.00	650000	CW/SRS	12.0	11.90	Right Cheek	0	0.000	1.023	0.000	0.000		51.8	
Head	NR Band n77	100	D	2229M	1:1	0.09	3750.00	650000	CW/SRS	12.0	11.90	Right Tilt	0	0.000	1.023	0.000	0.000		51.8	
Head	NR Band n77	100	D	2229M	1:1	0.09	3750.00	650000	CW/SRS	12.0	11.90	Left Cheek	0	0.000	1.023	0.000	0.000		51.8	
Head	NR Band n77	100	D	2229M	1:1	-0.03	3750.00	650000	CW/SRS	12.0	11.90	Left Tilt	0	0.000	1.023	0.000	0.000		51.8	
Head	NR Band n77	100	D	2229M	1:1	-0.09	3750.00	650000	CW/SRS	12.0	11.90	Left Tilt	0	0.000	1.023	0.000	0.000		51.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		
Spatial Peak																		1.6 W/kg (mW/g)		
Uncontrolled Exposure/General Population																		averaged over 1 gram		

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Table 12-113 - Plot A63

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	1885M	1:1	-0.16	3500.01	633334	CW/SRS	12.0	11.46	Back	5	0.319	1.132	0.361	0.226		16.4	
Body-worn/Hotspot	NR Band n77	100	D	1885M	1:1	-0.12	3750.00	650000	CW/SRS	12.0	11.90	Back	5	0.896	1.023	0.917	0.573	Plot	12.3	
Body-worn/Hotspot	NR Band n77	100	D	1885M	1:1	-0.10	3750.00	650000	CW/SRS	12.0	11.80	Back	5	0.810	1.023	0.831	0.518		12.8	
Body-worn/Hotspot	NR Band n77	100	D	1885M	1:1	0.04	3500.01	633334	CW/SRS	12.0	11.05	Back	5	0.610	1.245	0.759	0.474		13.1	
Body-worn/Hotspot	NR Band n77 DoD	100	D	2229M	1:1	0.07	3500.01	633334	CW/SRS	12.0	11.45	Front	5	0.051	1.132	0.058	0.036		24.3	
Body-worn/Hotspot	NR Band n77	100	D	2229M	1:1	0.06	3750.00	650000	CW/SRS	12.0	11.90	Front	5	0.010	1.023	0.010	0.006		31.8	
Hotspot	NR Band n77 DoD	100	D	2229M	1:1	0.01	3500.01	633334	CW/SRS	12.0	11.46	Bottom	10	0.023	1.132	0.026	0.016		27.8	
Hotspot	NR Band n77	100	D	2229M	1:1	0.09	3750.00	650000	CW/SRS	12.0	11.90	Bottom	10	0.017	1.023	0.017	0.011		29.5	
Hotspot	NR Band n77 DoD	100	D	2229M	1:1	0.06	3500.01	633334	CW/SRS	12.0	11.46	Right	10	0.010	1.132	0.011	0.007		31.4	
Hotspot	NR Band n77	100	D	2229M	1:1	0.01	3750.00	650000	CW/SRS	12.0	11.90	Right	10	0.006	1.023	0.006	0.004		34.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram										

Note: Blue entry represents variability measurement

12.26 2.4 GHz WIFI SISO Standalone SAR

Table 12-114 - Plot A65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	0.06	2412.00	1	1.0	15.0	14.50	Right Cheek	0	0.546	1.122	1.012	0.620	0.388	Plot	17.0	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	0.06	2412.00	1	1.0	15.0	14.50	Right Tilt	0	0.267	1.122	1.012	0.303	0.189		20.1	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	0.03	2412.00	1	1.0	15.0	14.50	Left Cheek	0	0.153	1.122	1.012	0.149	0.093		23.2	
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	0.02	2412.00	1	1.0	15.0	14.50	Left Tilt	0	0.089	1.122	1.012	0.101	0.063		24.9	
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 12-115 - Plot A66

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	-0.05	2462.00	11	1.0	17.0	16.60	Back	5	0.364	1.096	1.012	0.406	0.253	Plot	20.9	
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	-0.16	2462.00	11	1.0	17.0	16.60	Front	5	0.205	1.096	1.012	0.221	0.142		23.4	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	-0.10	2462.00	11	1.0	17.0	16.60	Top	10	0.089	1.096	1.012	0.099	0.062		27.0	
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	2256M	98.77	-0.13	2462.00	11	1.0	17.0	16.60	Left	10	0.204	1.096	1.012	0.226	0.141		23.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram												

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Table 12-116

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd Ant) [dBm]	Conducted Power (2nd Ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO Plimit Ant H [dBm]	MIMO Plimit Ant J [dBm]	Overall MIMO Plimit Ant H [dBm]	Overall MIMO Plimit Ant J [dBm]	
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	-0.03	2462.00	11	1.0	15.0	14.07	13.0	12.63	Right Cheek	0	0.304	1.239	1.013	0.382	0.239		19.1	25.9			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	-0.10	2462.00	11	1.0	15.0	14.07	13.0	12.63	Right Tilt	0	0.236	1.239	1.013	0.296	0.185		20.2	26.9			
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	0.02	2462.00	11	1.0	15.0	14.07	13.0	12.63	Left Cheek	0	0.117	1.239	1.013	0.123	0.078		22.2	28.2	19.1	25.9	
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	0.01	2462.00	11	1.0	15.0	14.07	13.0	12.63	Left Tilt	0	0.090	1.239	1.013	0.113	0.071		24.4	30.1			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Exposure/General Population averaged over 1 gram																	
Note: To achieve the 17.0 dBm maximum allowed MIMO power down in the documentation, Antenna H transmits at a maximum allowed power of 15.0 dBm and Antenna J transmits at a maximum power of 13.0 dBm. Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna H and Antenna J.																											

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15.0 dBm and Antenna J transmits at a maximum power of 13.0 dBm.
Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna H and Antenna J.

Table 12-117

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd Ant) [dBm]	Conducted Power (2nd Ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO Plimit Ant H [dBm]	MIMO Plimit Ant J [dBm]	Overall MIMO Plimit Ant H [dBm]	Overall MIMO Plimit Ant J [dBm]	
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	-0.16	2462.00	11	1.0	17.0	16.25	15.0	14.82	Back	5	0.863	1.189	1.013	0.417	0.273		20.5	26.6			
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	-0.07	2462.00	11	1.0	17.0	16.25	15.0	14.82	Front	5	0.173	1.189	1.013	0.208	0.130		23.8	29.9			
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	0.06	2462.00	11	1.0	17.0	16.25	15.0	14.82	Top	10	0.063	1.189	1.013	0.100	0.063		27.0	32.1			
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	2256M	98.69	0.02	2462.00	11	1.0	17.0	16.25	15.0	14.82	Right	10	0.013	1.189	1.013	0.013	0.008		35.7	41.0			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram																	
Note: To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, Antenna 1 transmits at a maximum allowed power of 17.0 dBm and Antenna 2 transmits at a maximum power of 15.0 dBm. Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna H and Antenna J.																											

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

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Table 12-118 - Plot A67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.05	5270.00	54	U-NII-2A	13.5	14.0	13.95	Right Cheek	0	0.986	1.012	1.044	0.987	0.242		18.1	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	-0.03	5630.00	126	U-NII-2C	13.5	14.0	13.98	Right Cheek	0	0.945	1.005	1.044	0.977	0.423		15.6	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.07	5755.00	151	U-NII-3	13.5	14.0	13.98	Right Cheek	0	0.973	1.005	1.044	0.966	0.441	Plot	15.5	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.17	5835.00	167	U-NII-4	13.5	14.0	13.82	Right Cheek	0	0.550	1.042	1.044	0.598	0.374		16.2	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.09	5270.00	54	U-NII-2A	13.5	14.0	13.95	Right Thr	0	0.269	1.012	1.044	0.217	0.136		20.6	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	-0.04	5630.00	126	U-NII-2C	13.5	14.0	13.98	Right Thr	0	0.170	1.005	1.044	0.178	0.111		21.4	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.01	5755.00	151	U-NII-3	13.5	14.0	13.98	Right Thr	0	0.164	1.005	1.044	0.172	0.108		21.6	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.04	5835.00	167	U-NII-4	13.5	14.0	13.82	Right Thr	0	0.142	1.042	1.044	0.154	0.096		22.1	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.11	5270.00	54	U-NII-2A	13.5	14.0	13.95	Left Cheek	0	0.064	1.012	1.044	0.068	0.043		25.7	15.5
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	-0.11	5630.00	126	U-NII-2C	13.5	14.0	13.98	Left Cheek	0	0.104	1.005	1.044	0.109	0.068		23.6	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	-0.02	5755.00	151	U-NII-3	13.5	14.0	13.98	Left Cheek	0	0.136	1.005	1.044	0.122	0.076		23.1	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.19	5835.00	167	U-NII-4	13.5	14.0	13.82	Left Cheek	0	0.082	1.042	1.044	0.080	0.056		24.4	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.01	5270.00	54	U-NII-2A	13.5	14.0	13.95	Left Thr	0	0.055	1.012	1.044	0.058	0.036		26.3	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.02	5630.00	126	U-NII-2C	13.5	14.0	13.98	Left Thr	0	0.065	1.005	1.044	0.068	0.043		25.6	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.03	5755.00	151	U-NII-3	13.5	14.0	13.98	Left Thr	0	0.059	1.005	1.044	0.052	0.035		26.8	
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	G	2461M	95.83	0.05	5835.00	167	U-NII-4	13.5	14.0	13.82	Left Thr	0	0.055	1.042	1.044	0.060	0.038		26.2	
ANSI/IEEE CS-1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-119 - Plot A68, A69

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.04	5260.00	52	U-NII-2A	6.0	17.0	15.43	Back	5	0.150	1.435	1.042	0.224	0.140		23.4	
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.13	5720.00	144	U-NII-2C	6.0	17.0	16.74	Back	5	0.582	1.062	1.042	0.606	0.405	Plot	18.5	
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.11	5845.00	169	U-NII-4	6.0	17.0	16.64	Back	5	0.389	1.086	1.042	0.327	0.204		21.8	
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.14	5260.00	52	U-NII-2A	6.0	17.0	15.43	Front	5	0.134	1.435	1.042	0.170	0.106		24.6	
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.17	5720.00	144	U-NII-2C	6.0	17.0	16.74	Front	5	0.501	1.062	1.042	0.554	0.346		19.3	
Body-worn	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.04	5845.00	169	U-NII-4	6.0	17.0	16.64	Front	5	0.422	1.086	1.042	0.478	0.299		20.2	
Body-worn/Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.15	5825.00	149	U-NII-3	6.0	17.0	16.61	Back	5	0.179	1.094	1.042	0.412	0.270		20.6	
Body-worn/Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.07	5845.00	169	U-NII-4	6.0	17.0	16.64	Back	5	0.596	1.094	1.042	0.779	0.505	Plot	20.5	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2256M	95.98	0.05	5220.00	44	U-NII-1	6.0	17.0	15.69	Back	5	0.180	1.352	1.042	0.225	0.141		23.4	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2256M	95.98	0.05	5220.00	44	U-NII-1	6.0	17.0	15.69	Front	5	0.229	1.352	1.042	0.323	0.202		21.9	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.03	5270.00	44	U-NII-1	6.0	17.0	15.69	Front	10	0.041	1.352	1.042	0.058	0.036		29.3	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.02	5825.00	149	U-NII-3	6.0	17.0	16.61	Top	10	0.039	1.094	1.042	0.044	0.028		30.5	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.13	5270.00	44	U-NII-1	6.0	17.0	15.69	Left	10	0.074	1.352	1.042	0.104	0.065		26.8	
Hotspot	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.05	5825.00	149	U-NII-3	6.0	17.0	16.61	Left	10	0.150	1.094	1.042	0.171	0.107		24.6	
ANSI/IEEE CS-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 A70

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.09	5260.00	52	U-NII-2A	6.0	17.0	15.43	Back	0	0.322	1.435	1.042	0.481	0.320		24.1	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.14	5720.00	144	U-NII-2C	6.0	17.0	16.74	Back	0	0.998	1.062	1.042	0.994	0.249	Plot	21.0	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.16	5845.00	169	U-NII-4	6.0	17.0	16.64	Back	0	0.404	1.086	1.042	0.357	0.234		21.2	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.17	5260.00	52	U-NII-2A	6.0	17.0	15.43	Front	0	0.392	1.435	1.042	0.586	0.147		23.2	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.20	5720.00	144	U-NII-2C	6.0	17.0	16.74	Front	0	0.736	1.062	1.042	0.814	0.204		21.8	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.02	5845.00	169	U-NII-4	6.0	17.0	16.64	Front	0	0.626	1.086	1.042	0.708	0.177		22.4	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.14	5260.00	52	U-NII-2A	6.0	17.0	15.43	Top	0	0.185	1.435	1.042	0.179	0.085		28.4	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.11	5720.00	144	U-NII-2C	6.0	17.0	16.74	Top	0	0.178	1.062	1.042	0.197	0.049		28.0	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.08	5845.00	169	U-NII-4	6.0	17.0	16.64	Top	0	0.131	1.086	1.042	0.148	0.037		29.2	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	-0.02	5260.00	52	U-NII-2A	6.0	17.0	15.43	Left	0	0.295	1.435	1.042	0.441	0.130		24.5	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.12	5720.00	144	U-NII-2C	6.0	17.0	16.74	Left	0	0.725	1.062	1.042	0.802	0.201		21.9	
Phablet	5 GHz WIF/ IEEE 802.11a	20	OFDM	G	2461M	95.98	0.02	5845.00	169	U-NII-4	6.0	17.0	16.64	Left	0	0.566	1.086	1.042	0.640	0.160		22.9	
ANSI/IEEE CS-1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

12.29 5 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 #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd Ant) [dBm]	Conducted Power (2nd Ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO P1 (dBm)	MIMO P2 (dBm)	Overall P1 (dBm)	Overall P2 (dBm)
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.03	5270.00	54	U-NII-2A	27.0	12.0	10.38	14.0	13.45	Right Cheek	0	0.267	1.452	1.039	0.403	0.252		15.9	27.7		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.06	5590.00	118	U-NII-2C	27.0	12.0	11.51	14.0	13.67	Right Cheek	0	0.286	1.452	1.039	0.681	0.426		14.8	26.3		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.21	5755.00	151	U-NII-3	27.0	12.0	11.39	14.0	13.90	Right Cheek	0	0.578	1.551	1.039	0.691	0.432		13.8	25.6		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.04	5835.00	167	U-NII-4	27.0	12.0	11.09	14.0	13.98	Right Cheek	0	0.443	1.233	1.039	0.568	0.355		14.4	26.8		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.03	5270.00	54	U-NII-2A	27.0	12.0	10.38	14.0	13.40	Right Thr	0	0.246	1.452	1.039	0.220	0.138		18.5	30.7		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.18	5500.00	118	U-NII-2C	27.0	12.0	11.19	14.0	13.67	Right Thr	0	0.283	1.119	1.039	0.221	0.138		17.4	29.4		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.11	5755.00	151	U-NII-3	27.0	12.0	11.19	14.0	13.90	Right Thr	0	0.227	1.515	1.039	0.152	0.095		20.1	31.3		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.06	5590.00	118	U-NII-2C	27.0	12.0	11.51	14.0	13.67	Left Cheek	0	0.246	1.233	1.039	0.220	0.138		18.5	30.7		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.13	5720.00	54	U-NII-2A	27.0	12.0	10.38	14.0	13.40	Left Cheek	0	0.245	1.452	1.039	0.212	0.131		18.7	31.0		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.07	5590.00	118	U-NII-2C	27.0	12.0	11.51	14.0	13.67	Left Cheek	0	0.283	1.119	1.039	0.227	0.204		16.8	28.5		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.03	5270.00	118	U-NII-2C	27.0	12.0	11.51	14.0	13.67	Left Cheek	0	0.283	1.452	1.039	0.220	0.138		18.5	30.7		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.04	5835.00	167	U-NII-4	27.0	12.0	11.09	14.0	13.98	Left Cheek	0	0.472	1.233	1.039	0.320	0.218		16.8	28.5		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.09	5370.00	54	U-NII-2A	27.0	12.0	10.38	14.0	13.45	Left Thr	0	0.232	1.452	1.039	0.199	0.124		19.0	32.4		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.18	5500.00	118	U-NII-2C	27.0	12.0	11.19	14.0	13.67	Left Thr	0	0.283	1.119	1.039	0.221	0.138		17.4	29.4		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	0.02	5755.00	151	U-NII-3	27.0	12.0	11.39	14.0	13.90	Left Thr	0	0.285	1.515	1.039	0.221	0.138		18.5	31.4		
Head	5 GHz WIF/ IEEE 802.11n	40	OFDM	MIMO	2461M	96.24	-0.09	5835.00	167	U-NII-4	27.0	12.0	11.09	14.0	13.98	Left Thr	0	0.257	1.733	1.039	0.201	0.126		18.3	32.1		
ANSI/CIS 119.02 - SAFETY LIMIT																							Head				
Spatial Peak																							1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																							averaged over 1 gram				

Table 12-122

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MMIO P1001 Ant 1 [dBm]	MMIO P1001 Ant 2 [dBm]	Overall MMIO P1001 Ant 1 [dBm]	Overall MMIO P1001 Ant 2 [dBm]
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5320.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Back	5	0.111	1.138	1.039	0.152	0.095		23.1	26.1		
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5600.00	130	U-NI 2C	6.0	15.0	14.65	17.0	16.75	Back	5	0.089	1.103	1.039	0.117	0.130		17.7	20.2		
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Back	5	0.121	1.189	1.039	0.285	0.178		20.4	22.1		
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5320.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Front	5	0.119	1.138	1.039	0.163	0.102		22.8	24.4		
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Front	5	0.091	1.109	1.039	0.402	0.251		18.9	20.4		
Body-worn	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Front	5	0.129	1.189	1.039	0.343	0.214		19.6	21.7		
Body-worn/Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.07	5220.00	165	U-NI 4	6.0	15.0	14.55	17.0	16.25	Back	5	0.129	1.203	1.039	0.446	0.290		18.6	20.5		
Body-worn/Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.04	5825.00	165	U-NI 4	6.0	15.0	14.55	17.0	16.25	Front	5	0.129	1.203	1.039	0.337	0.211		20.0	21.8		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2256M	96.28	0.07	5220.00	44	U-NI 1	6.0	15.0	14.65	17.0	16.99	Back	5	0.147	1.084	1.039	0.278	0.174		18.5	20.3		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2256M	96.28	0.09	5220.00	44	U-NI 1	6.0	15.0	14.65	17.0	16.99	Front	5	0.145	1.084	1.039	0.276	0.173		18.6	20.3		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.07	5220.00	44	U-NI 1	6.0	15.0	14.65	17.0	16.99	Top	10	0.055	1.084	1.039	0.062	0.039		40.0	35.3		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5825.00	165	U-NI 4	6.0	15.0	14.55	17.0	16.25	Top	10	0.099	1.203	1.039	0.037	0.033		25.6	46.0		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5220.00	44	U-NI 1	6.0	15.0	14.65	17.0	16.99	Right	10	0.059	1.084	1.039	0.029	0.018		43.1	38.3		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.01	5825.00	165	U-NI 4	6.0	15.0	14.55	17.0	16.25	Right	10	0.059	1.203	1.039	0.047	0.029		28.5	41.2		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.08	5220.00	44	U-NI 1	6.0	15.0	14.65	17.0	16.99	Left	10	0.111	1.084	1.039	0.130	0.081		16.8	17.7		
Hotspot	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.07	5825.00	165	U-NI 4	6.0	15.0	14.55	17.0	16.25	Left	10	0.088	1.202	1.039	0.110	0.069		24.9	36.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						Spatial Peak		1.6 W/kg (mW/g)		averaged over 1 gram	

Note: To achieve the 10.0 dBm maximum allowed MMIO power shown in the documentation, Antenna E transmits at a maximum allowed power of 15.0 dBm and Antenna G transmits at a maximum power of 17.0 dBm.

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

Table 12-123

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	MMIO P1001 Ant 1 [dBm]	MMIO P1001 Ant 2 [dBm]	Overall MMIO P1001 Ant 1 [dBm]	Overall MMIO P1001 Ant 2 [dBm]
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.11	5260.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Back	0	0.179	1.118	1.039	0.519	0.130		17.8	21.0		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.08	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Back	0	0.176	1.103	1.039	0.404	0.251		14.9	17.4		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.06	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Back	0	0.122	1.189	1.039	0.892	0.223		15.5	18.2		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.05	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Front	0	0.141	1.169	1.039	0.709	0.178		16.8	19.7		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.05	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Front	0	0.140	1.103	1.039	0.848	0.212		15.7	18.1		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.13	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Front	0	0.174	1.189	1.039	0.986	0.242		17.3	20.0		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.06	5260.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Top	0	0.135	1.118	1.039	0.185	0.046		22.3	26.5		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.10	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Top	0	0.158	1.103	1.039	0.296	0.074		20.2	22.7		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.01	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Top	0	0.057	1.189	1.039	0.127	0.036		24.7	26.9		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.05	5260.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Right	0	0.119	1.118	1.039	0.163	0.045		22.8	26.0		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.01	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Right	0	0.107	1.103	1.039	0.226	0.057		23.4	23.8		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.09	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Right	0	0.149	1.189	1.039	0.527	0.134		21.5	26.2		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.07	5260.00	52	U-NI 2A	6.0	15.0	13.80	17.0	16.15	Left	0	0.163	1.118	1.039	0.463	0.121		18.1	21.3		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.18	5600.00	130	U-NI 2C	6.0	15.0	14.58	17.0	16.75	Left	0	0.405	1.103	1.039	1.026	0.257		14.8	17.3		
Phantom	5 GHz WIFU / IEEE 802.11a	20	OFDM	MMMO	2461M	96.28	0.01	5845.00	169	U-NI 4	6.0	15.0	14.30	17.0	16.25	Left	0	0.441	1.189	1.039	0.147	0.137		17.6	20.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						Spatial Peak		1.6 W/kg (mW/g)		averaged over 10 grams	

Note: To achieve the 10.0 dBm maximum allowed MMIO power shown in the documentation, Antenna E transmits at a maximum allowed power of 15.0 dBm and Antenna G transmits at a maximum power of 17.0 dBm.

Note: Reported 10g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.

12.30 6 GHz WIFI SISO Standalone SAR and APD

Table 12-124

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P1001 [dBm]	Overall P1001 [dBm]					
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.14	5955.00	1	6.0	16.0	15.62	Right Cheek	0	0.413	1.091	1.039	0.468	0.293		19.2						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.02	6275.00	65	6.0	16.0	15.44	Right Cheek	0	0.251	1.138	1.039	0.297	0.186		21.2						
Head	6 GHz WIFU / IEEE 802.11ax	80	OFDM	G	0554M	93.18	0.01	6465.00	103	34.0	10.0	9.76	Right Cheek	0	0.071	1.057	1.073	0.081	0.051		20.9						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.09	6675.00	145	6.0	16.0	15.12	Right Cheek	0	0.262	1.169	1.039	0.318	0.199		20.8						
Head	6 GHz WIFU / IEEE 802.11ax	80	OFDM	G	0554M	93.18	0.01	7025.00	215	34.0	10.0	9.02	Right Cheek	0	0.118	1.253	1.073	0.159	0.099		17.9						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.04	5955.00	1	6.0	16.0	15.62	Right Tilt	0	0.272	1.091	1.039	0.308	0.193		21.1						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.08	5955.00	1	6.0	16.0	15.62	Left Cheek	0	0.128	1.091	1.039	0.143	0.089		24.4						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.07	5955.00	1	6.0	16.0	15.62	Left Tilt	0	0.128	1.091	1.039	0.145	0.091		24.3						
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						Spatial Peak		Head		1.6 W/kg (mW/g)	
Uncontrolled Exposure/General Population																								averaged over 1 gram			
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	P1001 [dBm]	Overall P1001 [dBm]					
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.14	5955.00	1	6.0	16.0	15.62	Right Cheek	0	2.750	1.091	1.039	3.317	0.156		22.0						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.02	6275.00	65	6.0	16.0	15.44	Right Cheek	0	1.780	1.138	1.039	2.105	0.105		23.7						
Head	6 GHz WIFU / IEEE 802.11ax	80	OFDM	G	0554M	93.18	0.01	6465.00	103	34.0	10.0	9.76	Right Cheek	0	0.047	1.057	1.073	0.530	0.027		23.7						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.09	6675.00	145	6.0	16.0	15.12	Right Cheek	0	1.710	1.169	1.039	2.077	0.104		23.8						
Head	6 GHz WIFU / IEEE 802.11ax	80	OFDM	G	0554M	93.18	0.01	7025.00	215	34.0	10.0	9.02	Right Cheek	0	0.768	1.253	1.073	1.073	0.054		20.7						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.04	5955.00	1	6.0	16.0	15.62	Right Tilt	0	1.880	1.091	1.039	2.131	0.107		23.7						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.06	5955.00	1	6.0	16.0	15.62	Left Cheek	0	0.811	1.091	1.039	0.919	0.046		27.3						
Head	6 GHz WIFU / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.07	5955.00	1	6.0	16.0	15.62	Left Tilt	0	0.847	1.091	1.039	0.960	0.048		27.1						

Table 12-126

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 30g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 30g SAR [W/kg]	Exposure Ratio [%]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.01	5935.00	1	6.0	16.0	15.62	Back	0	0.534	1.091	1.039	0.606	0.151		22.1	21.4
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	-0.03	6275.00	65	6.0	16.0	15.44	Back	0	0.522	1.091	1.039	0.381	0.095		24.1	
Phabnet	6 GHz WiFi / IEEE 802.11a	80	OFDM	G	0554M	93.18	-0.03	6465.00	103	34.0	10.0	9.76	Back	0	0.965	1.097	1.073	0.074	0.019		25.3	
Phabnet	6 GHz WiFi / IEEE 802.11a	80	OFDM	G	0554M	96.28	0.01	6675.00	145	6.0	16.0	15.37	Back	0	0.903	1.169	1.039	0.367	0.042		24.3	
Phabnet	6 GHz WiFi / IEEE 802.11a	80	OFDM	G	0554M	93.18	-0.03	7025.00	215	34.0	10.0	9.62	Back	0	0.923	1.169	1.073	0.127	0.044		21.4	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.06	5935.00	1	6.0	16.0	15.62	Front	0	0.365	1.091	1.039	0.414	0.104		23.8	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	-0.02	5935.00	1	6.0	16.0	15.62	Top	0	0.115	1.091	1.039	0.130	0.033		28.8	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.09	5935.00	1	6.0	16.0	15.62	Left	0	0.995	1.091	1.039	0.448	0.112		23.4	
ANSI/IEEE CS-1.1992.3 SAFETY LIMIT														Phabnet								
Spatial Peak Uncontrolled Exposure/General Population														4.0 W/kg (mW/g) averaged over 10 grams								
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (dcm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (dcm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.01	5935.00	1	6.0	16.0	15.62	Back	0	12.300	1.091	1.039	13.943	0.697		15.5	14.7
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	-0.03	6275.00	65	6.0	16.0	15.44	Back	0	7.480	1.138	1.039	8.856	0.443		17.5	
Phabnet	6 GHz WiFi / IEEE 802.11a	80	OFDM	G	0554M	93.18	-0.03	6465.00	103	34.0	10.0	9.76	Back	0	1.040	1.067	1.073	1.690	0.085		18.7	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.01	6675.00	145	6.0	16.0	15.32	Back	0	6.950	1.169	1.039	4.441	0.422		17.7	
Phabnet	6 GHz WiFi / IEEE 802.11a	80	OFDM	G	0554M	93.18	-0.03	7025.00	215	34.0	10.0	9.02	Back	0	1.110	1.253	1.073	4.181	0.209		14.7	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.06	5935.00	1	6.0	16.0	15.62	Front	0	8.010	1.091	1.039	9.080	0.454		17.4	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	-0.02	5935.00	1	6.0	16.0	15.62	Top	0	2.670	1.091	1.039	1.027	0.151		22.1	
Phabnet	6 GHz WiFi / IEEE 802.11a	20	OFDM	G	0554M	96.28	0.09	5935.00	1	6.0	16.0	15.62	Left	0	9.330	1.091	1.039	10.576	0.529		16.7	

12.31 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-127 - Plot A71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [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 SAR [W/m ² /cm ²]	Power Scaling Factor	Duty Cycle Factor	Reported SAR [W/kg]	Exposure Rate [g SAR]	Plot #	MMMO Plant Ant. # [dBm]	MMMO Plant Ant. # [dBm]	Overall Plant Ant. # [dBm]	Overall Plant Ant. # [dBm]
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.01	9955.00	1	6.0	13.5	12.80	16.0	15.30	Right Check	0	0.400	1.175	1.038	0.744	0.461	Plot: 14.7	17.2			
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.01	6275.00	65	6.0	13.5	12.10	16.0	14.50	Right Check	0	0.225	1.413	1.038	0.330	0.205		18.4	20.1		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AM	89.68	-0.06	6465.00	103	65.1	7.0	6.30	10.0	8.20	Right Check	0	0.040	1.514	1.115	0.088	0.043		19.8	21.7		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AM	96.31	-0.01	6275.00	145	6.0	13.5	12.80	16.0	14.50	Right Check	0	0.225	1.413	1.038	0.332	0.238		18.0	20.1		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AF	89.68	-0.01	7405.00	215	65.1	7.0	6.40	10.0	8.3	Right Check	0	0.069	1.462	1.115	0.112	0.070		17.5	19.6		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.07	9955.00	1	6.0	13.5	12.80	16.0	15.30	Right Tilt	0	0.220	1.175	1.038	0.305	0.191		18.6	21.1		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.07	9955.00	1	6.0	13.5	12.80	16.0	15.30	Left Check	0	0.220	1.175	1.038	0.274	0.173		19.1	24.9		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.03	9955.00	1	6.0	13.5	12.80	16.0	15.30	Left Tilt	0	0.228	1.175	1.038	0.378	0.174		19.0	21.5		
Antenna E (Antenna F) EUTRA EUTRA																		1.6 W/kg (mW/g) averaged over 1 gram								
Uncontrolled Exposure (Maximum Power shown in the documentation, Antenna E transmit at a maximum allowed power of 13.5 dBm and Antenna G transmit at a maximum power of 16.0 dBm)																										
Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmit at a maximum allowed power of 13.5 dBm and Antenna G transmit at a maximum power of 16.0 dBm.																										
Note: Reported SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [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 APO [W/m ² /cm ²]	Power Scaling Factor	Duty Cycle Factor	Reported APO [W/m ² /cm ²]	APD Exposure Rate	Plot #	MMMO Plant Ant. # [dBm]	MMMO Plant Ant. # [dBm]	Overall Plant Ant. # [dBm]	Overall Plant Ant. # [dBm]
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.01	9955.00	1	6.0	13.5	12.80	16.0	15.30	Right Check	0	0.400	1.175	1.038	0.439	0.244	Plot: 17.6	20.1			
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.01	6275.00	65	6.0	13.5	12.10	16.0	14.50	Right Check	0	1.580	1.413	1.038	0.237	0.116		20.9	23.3		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AM	89.68	-0.06	6465.00	103	65.1	7.0	6.30	10.0	8.20	Right Check	0	0.252	1.514	1.115	0.425	0.021		22.8	24.7		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AM	96.31	-0.03	6675.00	145	6.0	13.5	12.80	16.0	14.90	Right Check	0	1.090	1.274	1.038	0.252	0.128		20.7	22.9		
Head	6 GHz W/FF / EEE 802.11a	80	OFDM	MMMO	0545AF	89.68	-0.01	7025.00	215	65.1	7.0	6.40	10.0	8.3	Right Check	0	0.410	1.462	1.115	0.446	0.033		20.8	22.7		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.07	9955.00	1	6.0	13.5	12.80	16.0	15.30	Right Tilt	0	1.710	1.175	1.038	2.086	0.104		21.3	23.8		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.07	9955.00	1	6.0	13.5	12.80	16.0	15.30	Left Check	0	1.610	1.175	1.038	1.964	0.088		21.5	24.0		
Head	6 GHz W/FF / EEE 802.11a	20	OFDM	MMMO	0545AM	96.31	-0.03	9955.00	1	6.0	13.5	12.80	16.0	15.30	Left Tilt	0	1.170	1.175	1.038	1.671	0.084		22.2	24.7		
Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmit at a maximum allowed power of 13.5 dBm and Antenna G transmit at a maximum power of 16.0 dBm.																										
Note: Reported APO[W/m ² /cm ²] is calculated from the highest power scaling factor between Antenna E and Antenna G.																										

Table 12-128 - Plot A72

ANSI/IEEE C62.19-1 SAFETY LIMIT																										
Spatial Peak																				Body						
Uncontrolled Exposure/General Population																				1.6 W/m (mW/g)						
																				averaged over 1 gram						
Note: To achieve the 10.0 dBm maximum allowed MIMO power shown in the documentation, Antenna 1 transmits at a maximum allowed power of 13.5 dBm and Antenna 2 transmits at a maximum power of 16.0 dBm.																										
Note: Reported SAR (W/kg) is calculated from the minimum power scaling factor between Antenna 1 and Antenna 2.																										
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [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 SAR [W/m ² /kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported SAR [W/m ² /kg]	AFD Exposure Ratio	Plot #	MIMO P1dnt [dBm]	MIMO P2dnt [dBm]	Overall MIMO P1dnt+P2dnt [dBm]	Overall MIMO P1dnt+P2dnt [dGm]
Body-worm/Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	-0.07	9595.00	1	6.0	13.5	12.80	16.0	15.30	Back	5	0.110	1.175	1.038	0.134	0.084		22.2	26.7		
Body-worm/Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	-0.09	9595.00	1	6.0	13.5	12.80	16.0	15.30	Front	5	0.213	1.175	1.038	0.200	0.163	Plot	19.1	21.6		
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	0.04	9595.00	1	6.0	13.5	12.80	16.0	15.30	Top	10	0.044	1.175	1.038	0.054	0.034		28.2	28.2	19.3	21.8
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	0.01	9595.00	1	6.0	13.5	12.80	16.0	15.30	Right	10	0.046	1.175	1.038	0.041	0.031		28.4	28.4		
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	-0.02	9595.00	1	6.0	13.5	12.80	16.0	15.30	Left	10	0.084	1.175	1.038	0.066	0.043		24.3	27.8		
ANSI/IEEE C62.19-1 SAFETY LIMIT																										
Spatial Peak																				Body						
Uncontrolled Exposure/General Population																				1.6 W/m (mW/g)						
																				averaged over 1 gram						
Note: To achieve the 10.0 dBm maximum allowed MIMO power shown in the documentation, Antenna 1 transmits at a maximum allowed power of 13.5 dBm and Antenna 2 transmits at a maximum power of 16.0 dBm.																										
Note: Reported SAR (W/kg) is calculated from the minimum power scaling factor between Antenna 1 and Antenna 2.																										
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [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 SAR [W/m ² /kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported SAR [W/m ² /kg]	AFD Exposure Ratio	Plot #	MIMO P1dnt [dBm]	MIMO P2dnt [dBm]	Overall MIMO P1dnt+P2dnt [dBm]	Overall MIMO P1dnt+P2dnt [dGm]
Body-worm/Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	-0.07	9595.00	1	6.0	13.5	12.80	16.0	15.30	Back	5	0.735	1.175	1.038	0.896	0.045		24.9	27.4		
Body-worm/Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	-0.09	9595.00	1	6.0	13.5	12.80	16.0	15.30	Front	5	1.420	1.175	1.038	1.273	0.087	Plot	23.1	24.6		
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	0.04	9595.00	1	6.0	13.5	12.80	16.0	15.30	Top	10	0.176	1.175	1.038	0.457	0.023		27.9	30.4	22.1	24.6
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	0.06	9595.00	1	6.0	13.5	12.80	16.0	15.30	Right	10	1.174	1.175	1.038	0.212	0.011		31.2	33.7		
Hotspot	6 GHz WU/ IEEE 802.11a	20	OFDM	MIMO	0504M	96.31	0.01	9595.00	1	6.0	13.5	12.80	16.0	15.30	Left	10	0.422	1.175	1.038	0.515	0.026		27.3	29.8		
Note: To achieve the 10.0 dBm maximum allowed MIMO power shown in the documentation, Antenna 1 transmits at a maximum allowed power of 13.5 dBm and Antenna 2 transmits at a maximum power of 16.0 dBm.																										
Note: Reported SAR (W/kg) is calculated from the highest power scaling factor between Antenna 1 and Antenna 2.																										

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Table 12-129 - Plot A73

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	MIMO Plant Ant E [dBm]	MIMO Plant Ant G [dBm]	Overall MIMO Plant Ant E [dBm]	Overall MIMO Plant Ant G [dBm]	
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Back	0	0.643	1.175	1.038	0.662	0.166	Plot	19.2	21.7			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.06	6275.00	65	6.0	13.5	12.10	16.0	14.50	Back	0	0.346	1.413	1.038	0.507	0.127		20.5	22.9			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	89.68	0.07	6465.00	109	65.1	7.0	6.30	10.0	8.70	Back	0	0.073	1.144	1.115	0.112	0.031		21.2	23.1			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.07	6675.00	145	6.0	13.5	12.80	16.0	14.95	Back	0	0.294	1.274	1.038	0.389	0.097		21.9	24.0			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	89.68	0.08	7025.00	215	65.1	7.0	6.40	10.0	8.35	Back	0	0.099	1.462	1.115	0.136	0.039		21.9	24.0			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Front	0	0.327	1.175	1.038	0.389	0.100		21.4	23.5			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.12	5955.00	1	6.0	13.5	12.80	16.0	15.30	Top	0	0.447	1.175	1.038	0.179	0.045		24.9	27.4			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.05	5955.00	1	6.0	13.5	12.80	16.0	15.30	Right	0	0.286	1.175	1.038	0.099	0.055		21.9	24.0			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Left	0	0.435	1.175	1.038	0.531	0.133		20.2	22.9			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Phablet 4.0 W/kg (mW/g) averaged over 10 grams											
Spatial Peak Uncontrolled Exposure/General Population																											
Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 13.5 dBm and Antenna G transmits at a maximum power of 16.0 dBm. Note: Reported 10g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.																											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APO [W/m ² (μW/cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m ² (μW/cm ²)]	APO Exposure Ratio	Plot #	MIMO Plant Ant E [dBm]	MIMO Plant Ant G [dBm]	Overall MIMO Plant Ant E [dBm]	Overall MIMO Plant Ant G [dBm]	
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Back	0	12.400	1.175	1.038	15.124	0.756	Plot	12.7	15.2			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.06	6275.00	65	6.0	13.5	12.10	16.0	14.50	Back	0	7.940	1.413	1.038	11.646	0.582		13.9	16.3			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	89.68	0.07	6465.00	109	65.1	7.0	6.30	10.0	8.70	Back	0	1.430	1.554	1.115	2.793	0.136		14.7	16.6			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.07	6675.00	145	6.0	13.5	12.80	16.0	14.95	Back	0	6.600	1.274	1.038	8.794	0.440		15.4	17.5			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	89.68	0.08	7025.00	215	65.1	7.0	6.40	10.0	8.35	Back	0	2.240	1.462	1.115	3.651	0.183		13.4	15.5			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Front	0	7.180	1.175	1.038	8.757	0.438		15.0	17.5			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.12	5955.00	1	6.0	13.5	12.80	16.0	15.30	Top	0	3.410	1.175	1.038	4.109	0.208		18.3	20.8			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.05	5955.00	1	6.0	13.5	12.80	16.0	15.30	Right	0	1.880	1.175	1.038	2.293	0.115		20.9	23.4			
Phablet	6 GHz Wi-Fi / IEEE 802.11a	20	OFDM	MIMO	0554M	96.31	0.03	5955.00	1	6.0	13.5	12.80	16.0	15.30	Left	0	10.300	1.175	1.038	12.582	0.628		13.5	16.0			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																											
Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 13.5 dBm and Antenna G transmits at a maximum power of 16.0 dBm. Note: Reported APO [W/m ² (μW/cm ²)] is calculated from the highest power scaling factor between Antenna E and Antenna G.																											

12.32 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-130 - Plot A74

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	-0.02	2440.00	19	1	18.5	17.43	Right Cheek	0	0.402	1.279	1.012	0.520	0.325	Plot	20.6	20.6
Head	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	0.02	2440.00	19	1	18.5	17.43	Right Tibi	0	0.303	1.279	1.012	0.392	0.245		21.9	
Head	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	-0.09	2440.00	19	1	18.5	17.43	Left Cheek	0	0.122	1.279	1.012	0.158	0.099		25.8	
Head	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	0.03	2440.00	19	1	18.5	17.43	Left Tibi	0	0.101	1.279	1.012	0.131	0.082		26.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																					

Table 12-131 - Plot A75, A76

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	-0.03	2440.00	19	1	18.5	17.43	Back	5	0.338	1.279	1.012	0.437	0.273	Plot	21.4	21.4
Body-worn	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	0.08	2440.00	19	1	18.5	17.43	Front	5	0.212	1.279	1.012	0.274	0.171		23.4	
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	0545M	76.5	0.02	2441.00	39	1	18.5	17.73	Back	5	0.052	1.194	1.039	0.063	0.039	Plot	29.4	
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	0545M	76.5	0.09	2441.00	39	1	18.5	17.73	Front	5	0.036	1.194	1.039	0.044	0.028		31.0	
Hotspot	2.4 GHz Bluetooth	FHSS	H	0545M	76.5	0.03	2441.00	39	1	18.5	17.73	Top	10	0.009	1.194	1.039	0.011	0.007		37.0	
Hotspot	2.4 GHz Bluetooth	FHSS	H	0545M	76.5	-0.13	2441.00	39	1	18.5	17.73	Left	10	0.033	1.194	1.039	0.040	0.025		31.3	
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 12-132 - Plot A77

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	-0.01	2440.00	19	1	18.5	17.43	Back	0	0.690	1.279	1.012	0.893	0.223		22.3	21.3
Phablet	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	0.02	2440.00	19	1	18.5	17.43	Front	0	0.329	1.279	1.012	0.426	0.107		25.5	
Phablet	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	0.00	2440.00	19	1	18.5	17.43	Top	0	0.233	1.279	1.012	0.302	0.076		27.0	
Phablet	2.4 GHz Bluetooth LE	DSSS	H	2262M	85.0	-0.06	2440.00	19	1	18.5	17.43	Left	0	0.854	1.279	1.012	1.106	0.276	Plot	21.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Phablet 4.0 W/kg (mW/g) averaged over 10 grams								
Spatial Peak																					
Uncontrolled Exposure/General Population																					

12.33 NFC Standalone SAR

Table 12-133 - Plot A78

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	0545M	0.01	13.60	Back	0	0.011	0.003	Plot
Phablet	NFC	B	NFC	0545M	0.01	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	0545M	0.05	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	0545M	0.03	13.60	Right	0	0.000	0.000	
Phablet	NFC	B	NFC	0545M	0.08	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				

12.34 SAR Test Notes

General Notes:

1. 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.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 5 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see section 14 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
12. This device uses S.LSI TAS for WWAN, WIFI, and Bluetooth operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (RSI).
13. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

GSM Test Notes:

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

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.

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- 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:

- 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.
- 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.
- 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).
- Per FCC KDB Publication 447498 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41 or LTE B48, testing at the other channels was required for such test configurations.
- 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.
- 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.
- 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:

- 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.
- Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
- Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
- This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
- 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.
- 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.
- Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 and NR Band n48 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.
- SRS was tested with CW signal per S.LSI guidance.

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9. For final implementation, NR Band n41, n48, n77, and n78 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due 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.
9. Although 6 GHz Hotspot is only supported for VLP mode, hotspot testing was done at SP/LPI level because it is a higher target and more conservative.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth BDR operations and 87% for Bluetooth LE operations to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. 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
3. Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1 - Plot A79

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power DUT [dB]	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
5955.00	1	802.11a	OFDM	20	NA	NA	16.00	15.62	0.16	2	G	2401M	6	Front	96.28	0.05	4.180	1.554	1.091	1.039	1.430	2.519	1.480	2.607	
5955.00	1	802.11a	OFDM	20	NA	NA	16.00	15.62	-0.11	2	G	2401M	6	Back	96.28	0.05	-	1.554	1.091	1.039	1.100	1.938	1.260	2.220	
5955.00	1	802.11a	OFDM	20	NA	NA	16.00	15.62	0.10	10.07	G	2401M	6	Front	96.28	0.05	3.090	1.554	1.091	1.039	1.590	2.801	1.670	2.942	
5955.00	1	802.11a	OFDM	20	13.50	12.80	16.00	15.30	0.14	2	MIMO	2401M	6	Front	96.31	0.05	-	1.554	1.175	1.038	2.460	4.663	2.820	5.345	Plot
5955.00	1	802.11a	OFDM	20	13.50	12.80	16.00	15.30	-0.10	2	MIMO	2401M	6	Back	96.31	0.05	1.790	1.554	1.175	1.038	1.280	2.426	1.380	2.616	
5955.00	1	802.11a	OFDM	20	13.50	12.80	16.00	15.30	0.10	10.07	MIMO	2401M	6	Back	96.31	0.25	1.250	1.554	1.175	1.038	0.897	1.624	0.916	1.736	
47 CFR §1.1316 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²													

Power Density General Notes

- The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- 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.
- 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 $d=2\text{mm}$.
- psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
- PTP-PR algorithm was used during psPD measurement and calculations.
- PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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14 SAR MEASUREMENT VARIABILITY

14.1 Measurement Variability

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

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

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

Table 14-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Test Distance	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
835	836.5	167300	NR Band n5, 20 MHz Bandwidth	DFT-s-OFDM, 1 RB, 104 RB Offset	Back	5mm	A	0.827	0.719	1.15	N/A	N/A	N/A	N/A
1750	1745.0	349000	NR Band n66, 40 MHz Bandwidth	CP-OFDM, 1 RB, 1RB Offset	Back	5mm	A	0.933	0.924	1.01	N/A	N/A	N/A	N/A
1900	1860.0	26140	LTE Band 25, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Back	5mm	A	0.957	0.944	1.01	N/A	N/A	N/A	N/A
3700	3750.0	650000	NR Band n77, 100 MHz Bandwidth	CW/SRS	Back	5mm	D	0.896	0.812	1.10	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak														
Uncontrolled Exposure/General Population														

14.2 Measurement Uncertainty

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

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15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
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	15S1G6	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	10/17/2025	Annual	10/17/2026	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	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	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

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAK-3.5	Dielectric Assessment Kit	12/3/2024	Annual	12/3/2025	1278
SPEAG	DAK-3.5	Dielectric Assessment Kit	7/14/2025	Annual	7/14/2026	1039
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
SPEAG	CLA-13	Confined Loop Antenna	9/4/2024	Annual	9/4/2025	1002
SPEAG	D750V3	750 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	1046
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D750V3	750 MHz SAR Dipole	10/7/2024	Biennial	10/7/2026	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	4d133
SPEAG	D835V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	4d119
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	4d047
SPEAG	D835V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	4d180
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Annual	1/13/2026	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	6/4/2025	Annual	6/4/2026	1092
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	5d026
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	5d148
SPEAG	D2300V2	2300 MHz SAR Dipole	6/14/2024	Biennial	6/14/2026	1116
SPEAG	D2300V2	2300 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	1008
SPEAG	D2300V2	2300 MHz SAR Dipole	8/12/2025	Annual	8/12/2026	1073
SPEAG	D2300V2	2300 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1117
SPEAG	D2450V2	2450 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	945
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D2450V2	2450 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	882
SPEAG	D2600V2	2600 MHz SAR Dipole	8/11/2025	Annual	8/11/2026	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1009
SPEAG	D3500V2	3500 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1127
SPEAG	D3700V2	3700 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1096
SPEAG	D3900V2	3900 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1074
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/4/2025	Annual	2/4/2026	1111
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2025	Annual	1/14/2026	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2025	Annual	1/13/2026	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	EX3DV4	SAR Probe	10/14/2025	Annual	10/14/2026	7527
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7546
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	8/12/2025	Annual	8/12/2026	7491
SPEAG	EX3DV4	SAR Probe	1/7/2025	Annual	1/7/2026	7713
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7803
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7558
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
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	2/10/2025	Annual	2/10/2026	7570
SPEAG	EUMmWV3	EUMmWV3 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.

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16 MEASUREMENT UNCERTAINTIES

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

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

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Applicable for Power Density Measurements:

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

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17 CONCLUSION

17.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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