



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:

06/13/2025 – 07/23/2025

Test Site/Location:

Element, Columbia, MD, USA

Document Serial No.:

1M2505130049-01.A3L (Rev 1)

FCC ID:

A3LSMX730

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Computing Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-X730

			SAR		
Equipment Class	Band & Mode	Tx Frequency	1g Laptop (W/kg)	1g Tablet (W/kg)	
DTS	2.4 GHz WiFi	2412 - 2472 MHz	0.42	0.93	
NII	5 GHz WiFi	U-NII-1: 5180 - 5240 MHz	0.28	1.00	
		U-NII-2A: 5200 - 5320 MHz			
		U-NII-3C: 5500 - 5720 MHz			
		U-NII-3: 5745 - 5825 MHz			
6CD	6 GHz WiFi	U-NII-4: 5845 - 5885 MHz	<0.1	0.43	
		U-NII-5: 5935 - 6415 MHz			
		U-NII-6: 6435 - 6515 MHz			
		U-NII-7: 6535 - 6875 MHz			
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.15	0.32	
		Simultaneous SAR per IC08 690783 061v0103:		0.20	1.44
APD (W/m²)					
Equipment Class	Band & Mode	Tx Frequency	1g Laptop	1g Tablet	Reported PD (W/m²)
6CD	6 GHz WiFi	U-NII-5: 5935 - 6415 MHz	0.59	2.21	3.24
		U-NII-6: 6435 - 6515 MHz			
		U-NII-7: 6535 - 6875 MHz			
		U-NII-8: 6885 - 7115 MHz			
Overall SAR Summary					
RF Exposure Position		Laptop	Tablet	Simultaneous Exposure	
SAR (W/kg)		0.42	0.15	1.48	

RF Exposure Position	Laptop	Tablet	Simultaneous Transmission
SAR (W/kg)	0.11	0.11	0.11
Distance (cm)	0.11	0.11	0.11

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

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

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



RJ Ortanez
Executive Vice President



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

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03/30/2022

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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. 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. 410.381.1520
Accreditation Info.	Designation Number (FCC): US1113
	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	
Measurement System No.	G, N, O, R, S

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4GHz WIFI	Data	2412 - 2472 MHz
5 GHz WIFI	Data	U-NII-1: 5180 - 5240 MHz
	Data	U-NII-2A: 5260 - 5320 MHz
	Data	U-NII-2C: 5500 - 5720 MHz
	Data	U-NII-3: 5745 - 5825 MHz
	Data	U-NII-4: 5845 - 5885 MHz
6 GHZ WIFI	Data	U-NII-5: 5935 - 6415 MHz
	Data	U-NII-6: 6435 - 6515 MHz
	Data	U-NII-7: 6535 - 6875 MHz
	Data	U-NII-8: 6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz

2.2 Power Reduction for SAR

This device uses a power reduction mechanism for SAR compliance. The power reduction mechanism is activated when the device is used in close proximity to the user's body. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device. Detailed descriptions of the power reduction mechanism are included in the operational description.

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2.3 Data Referencing

Reference Device (FCC ID)	Variant Device (FCC ID)	Equipment Class	Mode	Supporting Data
A3LSMX736B	A3LSMX730	DTS	2.4 GHz WIFI	See RF Exposure Report Section 11 for spot-check data and Section 10 for tested data
		NII	5 GHz WIFI	See RF Exposure Report Section 11 for spot-check data
		6CD	6 GHz WIFI	See RF Exposure Report Section 11 for spot-check data and Section 12 for tested data
		DSS	2.4 GHz BT	See RF Exposure Report Section 11 for spot-check data
		PCB	Licensed	Removed in Variant Device

Per manufacturer declaration, there are two portable handset devices FCC ID: A3LSMX736B and FCC ID: A3LSMX730, with high degree of similarity, reference model FCC ID: A3LSMX736B and variant model FCC ID: A3LSMX730. Both models share the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models use the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models have the same tune-up tolerances at WIFI/BT.

Based on the Data Referencing Test Plan, testing was done fully on the reference model FCC ID: A3LSMX736B, while spot-check verification has been performed on variant model FCC ID: A3LSMX730. The spot check verification has been performed in the worst case for each exposure condition and if the spot check SAR value was higher, it was applied to the simultaneous transmission results on variant model FCC ID: A3LSMX730. The reference and variant model comparison data summary is included in section 11. Please see unlicensed SAR reference test data in Appendix J: for complete compliance evaluation for the reference model.

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2.4 Nominal and Maximum Output Power Specifications

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

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

2.4.1 2.4 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO								SISO								SISO in MIMO			
	Antenna WiFi 0				Antenna WiFi 1				Antenna WiFi 0				Antenna WiFi 1				SISO		MIMO	
	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
2.4 GHz WLAN	16.0	15.0	18.0	17.0	18.0	17.0	15.0	14.0	16.0	15.0	18.0	17.0	18.0	17.0	15.0	14.0	16.0	15.0	18.0	17.0
	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0
	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0
	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0

The table below is applicable in the following conditions:

- Grip sensor Active

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO								SISO								SISO in MIMO			
	Antenna WiFi 0				Antenna WiFi 1				Antenna WiFi 0				Antenna WiFi 1				SISO		MIMO	
	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
2.4 GHz WLAN	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	12.5	11.5	11.5	12.5	11.5	12.5
	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0
	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0
	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0

The table below is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO								SISO								SISO in MIMO			
	Antenna WiFi 0				Antenna WiFi 1				Antenna WiFi 0				Antenna WiFi 1				SISO		MIMO	
	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
2.4 GHz WLAN	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0	ch. 12: 3.0	2.0
	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0	ch. 13: 0.0	-1.0
	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0	ch. 1: 15.0	14.0

2.4.2 5 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO								SISO								SISO in MIMO			
		Antenna WiFi 0				Antenna WiFi 1				Antenna WiFi 0				Antenna WiFi 1				SISO		MIMO	
		Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
5 GHz WLAN	UNB-1	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	11.0	10.0
	UNB-2A	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	11.0	10.0
	UNB-2C	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	11.0	10.0
	UNB-3	15.0	14.0	15.0	14.0	15.0	14.0	11.0	10.0	15.0	14.0	15.0	14.0	15.0	14.0	11.0	10.0	15.0	14.0	11.0	10.0
5 GHz WLAN	UNB-4	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	18.0	17.0	18.0	17.0	11.0	10.0	18.0	17.0	11.0	10.0
	UNB-1	ch. 38: 15.0				17.0	16.0	17.0	16.0	11.0	10.0	ch. 38: 15.0				17.0	16.0	17.0	16.0	11.0	10.0
	UNB-2A	ch. 62: 15.0				17.0	16.0	17.0	16.0	11.0	10.0	ch. 62: 15.0				17.0	16.0	17.0	16.0	11.0	10.0
	UNB-2C	ch. 62: 15.0				17.0	16.0	17.0	16.0	11.0	10.0	ch. 62: 15.0				17.0	16.0	17.0	16.0	11.0	10.0
5 GHz WLAN	UNB-3	15.0				15.0	14.0	15.0	14.0	11.0	10.0	15.0				15.0	14.0	15.0	14.0	11.0	10.0
	UNB-4	17.0				17.0	16.0	17.0	16.0	11.0	10.0	17.0				17.0	16.0	17.0	16.0	11.0	10.0
5 GHz WLAN	UNB-1	13.5				13.5	12.5	13.5	12.5	11.0	10.0	13.5				13.5	12.5	13.5	12.5	11.0	10.0
	UNB-2A	15.0				15.0	14.0	15.0	14.0	11.0	10.0	15.0				15.0	14.0	15.0	14.0	11.0	10.0
	UNB-2C	16.0				16.0	15.0	16.0	15.0	11.0	10.0	16.0				16.0	15.0	16.0	15.0	11.0	10.0
	UNB-3	15.0				15.0	14.0	15.0	14.0	11.0	10.0	15.0				15.0	14.0	15.0	14.0	11.0	10.0
5 GHz WLAN	UNB-4	16.0				16.0	15.0	16.0	15.0	11.0	10.0	16.0				16.0	15.0	16.0	15.0	11.0	10.0
	UNB-10A	11.0				11.0	10.0	11.0	10.0	11.0	10.0	11.0				11.0	10.0	11.0	10.0	11.0	10.0
	UNB-2C	14.0				14.0	13.0	14.0	13.0	11.0	10.0	14.0				14.0	13.0	14.0	13.0	11.0	10.0
	UNB-3/4	15.0				15.0	14.0	15.0	14.0	11.0	10.0	15.0				15.0	14.0	15.0	14.0	11.0	10.0

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The table below is applicable in the following conditions:

- Grip sensor Active

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																							
		SISO								SISO								SISO to MIMO							
		Antenna WiFi 0								Antenna WiFi 1								2x2				4x4			
		a		n		m		ax (SU)		a		n		m		ax (SU)		a		n		m		ax (SU)	
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)	UNB-1	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNB-2A	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNB-2C	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNB-3	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
	UNB-4	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0	8.0	7.0
5 GHz WiFi (40MHz BW)	UNB-1			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0
	UNB-2A			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0
	UNB-2C			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0
	UNB-3			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0
	UNB-4			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0			8.0	7.0	8.0	7.0	8.0	7.0
5 GHz WiFi (80MHz BW)	UNB-1					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-2A					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-2C					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-3					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-4					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
5 GHz WiFi (160MHz BW)	UNB-1/2A					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-2C					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-3/4					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0
	UNB-3/4					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0					8.0	7.0	8.0	7.0

The table below is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 2.4 GHz Bluetooth

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																							
		SISO								SISO								SISO to MIMO							
		Antenna WiFi 0								Antenna WiFi 1								2x2				4x4			
		a		n		m		ax (SU)		a		n		m		ax (SU)		a		n		m		ax (SU)	
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)	UNB-1	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNB-2A	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNB-2C	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNB-3	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
	UNB-4	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0	5.0	4.0
5 GHz WiFi (40MHz BW)	UNB-1			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0
	UNB-2A			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0
	UNB-2C			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0
	UNB-3			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0
	UNB-4			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0			5.0	4.0	5.0	4.0	5.0	4.0
5 GHz WiFi (80MHz BW)	UNB-1					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-2A					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-2C					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-3					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-4					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
5 GHz WiFi (160MHz BW)	UNB-1/2A					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-2C					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-3/4					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0
	UNB-3/4					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0					5.0	4.0	5.0	4.0

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2.4.3 6 GHz SISO/MIMO WLAN Output Power

The table below is applicable in the following conditions:

- Maximum Power

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
				ch. 93: 8.0	7.0			ch. 93: 8.0	7.0			ch. 93: 8.0	7.0
	UNII-7	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			12.5	11.5			12.5	11.5			12.5	11.5
	UNII-7			13.5	12.5			13.5	12.5			13.5	12.5
6 GHz WiFi (80MHz BW) - SP	UNII-5			14.0	13.0			14.0	13.0			14.0	13.0
	UNII-7			14.0	13.0			14.0	13.0			14.0	13.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			13.0	12.0			13.0	12.0			13.0	12.0
	UNII-7			13.0	12.0			13.0	12.0			13.0	12.0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
				ch. 93: 8.0	7.0			ch. 93: 8.0	7.0			ch. 93: 8.0	7.0
	UNII-6	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0
	UNII-7	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0	10.0	9.0	11.0	10.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			12.5	11.5			12.5	11.5			12.5	11.5
	UNII-6			13.5	12.5			13.5	12.5			13.5	12.5
	UNII-7			13.5	12.5			13.5	12.5			13.5	12.5
	UNII-8			13.5	12.5			13.5	12.5			13.5	12.5
6 GHz WiFi (80MHz BW) - LPI	UNII-5			14.0	13.0			14.0	13.0			14.0	13.0
	UNII-6			14.0	13.0			14.0	13.0			14.0	13.0
	UNII-7			14.0	13.0			14.0	13.0			14.0	13.0
	UNII-8			14.0	13.0			14.0	13.0			14.0	13.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			13.0	12.0			13.0	12.0			13.0	12.0
	UNII-6			13.0	12.0			13.0	12.0			13.0	12.0
	UNII-7			13.0	12.0			13.0	12.0			13.0	12.0
	UNII-8			13.0	12.0			13.0	12.0			13.0	12.0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)											
		SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		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	10.0	9.0	6.0	5.0	10.0	9.0	6.0	5.0	10.0	9.0	6.0	5.0
	UNII-7	10.0	9.0	7.0	6.0	10.0	9.0	7.0	6.0	10.0	9.0	7.0	6.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			8.5	7.5			8.5	7.5			8.5	7.5
	UNII-7			9.5	8.5			9.5	8.5			9.5	8.5
6 GHz WiFi (80MHz BW) - VLP	UNII-5			11.0	10.0			11.0	10.0			11.0	10.0
	UNII-7			11.0	10.0			11.0	10.0			11.0	10.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			11.0	10.0			11.0	10.0			11.0	10.0
	UNII-7			11.0	10.0			11.0	10.0			11.0	10.0

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The table below is applicable in the following conditions:

- Grip Sensor Active
- Simultaneous conditions with 2.4 GHz WLAN/BT

		IEEE 802.11 Modulated Output Power (in dBm)											
Mode	Band	SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-7	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0				
6 GHz WiFi (80MHz BW) - SP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0				
6 GHz WiFi (160MHz BW) - SP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0				
IEEE 802.11 Modulated Output Power (in dBm)													
Mode	Band	SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-6	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-7	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
	UNII-8	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-6			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-8			7.0	6.0			7.0	6.0			7.0	6.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-6			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-8			7.0	6.0			7.0	6.0			7.0	6.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-6			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-8			7.0	6.0			7.0	6.0			7.0	6.0
IEEE 802.11 Modulated Output Power (in dBm)													
Mode	Band	SISO				SISO				SISO in MIMO			
		Antenna WIFI 0				Antenna WIFI 1				MIMO			
		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	7.0	6.0	6.0	5.0	7.0	6.0	6.0	5.0	7.0	6.0	6.0	5.0
	UNII-7	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			7.0	6.0			7.0	6.0			7.0	6.0
	UNII-7			7.0	6.0			7.0	6.0			7.0	6.0

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2.4.4 2.4 GHz Bluetooth Output Power

The table below is applicable in the following conditions:

- Maximum

Mode	Data Rate	Modulated Output Power (in dBm)			
		SISO			
		Antenna WIFI 0		Antenna WIFI 1	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	15.5	14.5	15.5	14.5
Bluetooth EDR	2Mbps	15.5	14.5	15.5	14.5
Bluetooth EDR	3Mbps	15.5	14.5	15.5	14.5
Bluetooth LE	1Mbps	15.0	14.0	15.0	14.0
Bluetooth LE	2Mbps	15.0	14.0	15.0	14.0
Bluetooth LE	125kbps	15.0	14.0	15.0	14.0
Bluetooth LE	500kbps	15.0	14.0	15.0	14.0

The table below is applicable in the following conditions:

- Grip Sensor Active
- Simultaneous conditions with 2.4/5/6 GHz WLAN

Mode	Data Rate	Frequency	Modulated Output Power (in dBm)			
			SISO			
			Antenna WIFI 0		Antenna WIFI 1	
Maximum / Nominal Power			Max	Nom.	Max	Nom.
Bluetooth	1Mbps	2402	9.0	8.0	9.0	8.0
		2440	10.5	9.5		
		2480	9.5	8.5		
Bluetooth EDR	2Mbps	2402	9.0	8.0	9.0	8.0
		2440	10.5	9.5		
		2480	9.5	8.5		
Bluetooth EDR	3Mbps	2402	9.0	8.0	9.0	8.0
		2440	10.5	9.5		
		2480	9.5	8.5		
Bluetooth LE	1Mbps	2402	9.0	8.0	9.0	8.0
		2440				
		2480				
Bluetooth LE	2Mbps	2402	9.0	8.0	9.0	8.0
		2440				
		2480				
Bluetooth LE	125kbps	2402	9.5	8.5	9.0	8.0
		2440	10.5	9.5		
		2480				
Bluetooth LE	500kbps	2402	9.5	8.5	9.0	8.0
		2440	10.5	9.5		
		2480				

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2.5 DUT Antenna Locations

The overall dimensions of this device is > 200 mm. A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram and SAR Test Setup Photographs Appendix. Exact dimensions and separation distances are shown in the Technical Descriptions in the FCC filings.

Table 2-1
Device Edges/Sides for SAR Testing Tablet Mode

Antenna	Back	Front	Top	Bottom	Right	Left
WIFI 0	Yes	No	Yes	Yes	Yes	Yes
WIFI 1	Yes	No	Yes	Yes	Yes	Yes
MIMO	Yes	No	Yes	Yes	Yes	Yes

Table 0-2
Device Edges/Sides for SAR Testing Laptop Mode

Antenna	Back	Front	Top	Bottom	Right	Left
WIFI 0	No	No	No	Yes	No	No
WIFI 1	No	No	No	Yes	No	No
MIMO	No	No	No	Yes	No	No

Note: Note: Per FCC KDB Publication 616217 D04v01r01, particular edges were not required to be evaluated for SAR based on the SAR exclusion threshold in KDB 447498 D04v01. Additional edges may have been evaluated for simultaneous transmission analysis.

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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 4.3.2 procedures.

**Table 2-3
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Tablet/Laptop	Notes
1	2.4 GHz Bluetooth WIFI 1 + 6 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
2	2.4 GHz Bluetooth WIFI 1 + 5 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
3	2.4 GHz Bluetooth WIFI 0 + 6 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
4	2.4 GHz Bluetooth WIFI 0 + 5 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
5	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	
6	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	
7	2.4 GHz WLAN MIMO	Yes	
8	5 GHz WLAN MIMO	Yes	
9	6 GHz WLAN MIMO	Yes	
10	2.4 GHz Bluetooth WIFI 0 + 2.4 GHz WLAN WIFI 1 + 5 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
11	2.4 GHz Bluetooth WIFI 0 + 2.4 GHz WLAN WIFI 1 + 6 GHz WLAN MIMO	Yes^	^ Bluetooth Tethering is considered
12	2.4 GHz Bluetooth WIFI 0 + 2.4 GHz WLAN WIFI 1	Yes^	^ Bluetooth Tethering is considered

1. This device supports 2x2 MIMO Tx for WLAN 802.11b/a/g/n/ac/ax. 802.11b/a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM.
2. This device supports Bluetooth Tethering.
3. 2.4 GHz WLAN WIFI 0 and 2.4 GHz Bluetooth WIFI 0 share the same antenna path and cannot transmit simultaneously.
4. 2.4 GHz WLAN WIFI 1 and 2.4 GHz Bluetooth WIFI 1 share the same antenna path and cannot transmit simultaneously.
5. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.

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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.

This device supports IEEE 802.11ac with the following features:

- a) Up to 160 MHz Bandwidth only
- b) No aggregate channel configurations
- c) 2 Tx antenna output
- d) 256 QAM is supported
- e) TDWR and Band gap channels are supported

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 40 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5/6 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC Guidance, 802.11ax RU was considered a higher order 802.11 mode when compared to a/b/g/n/ac to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax RU based on the maximum allowed output powers of OFDM modes and the reported SAR values. Per FCC Guidance, maximum conducted powers were performed for each RU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please see Measurement Reports SNs: 1M2505130049-06.A3L, 1M2505130049-08.A3L, 1M2505130049-010.A3L for 802.11ax RU output powers.

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

When 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.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. FCC KDB 648474 and FCC KDB 248227 were followed for test positions, distances, and modes. Per TCB workshop October 2020 notes, 5 channels were tested. 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%.

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2.8 Guidance Applied

- IEEE 1528-2013
- 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)
- April 2019 TCB Workshop Notes (IEEE 802.11ax/be)
- FCC KDB 648474 D04 (Accessories)
- FCC KDB Publication 616217 D04v01r02 (Tablet/Laptop)
- IEC 62479:2010
- SPEAG DASY6 System Handbook
- IEC/IEEE 63195-1:2022
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)

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 10 and Section 11.

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3 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.

3.1 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 3-1).

Equation 3-1
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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4 DOSIMETRIC ASSESSMENT

4.1 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 4-1) 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 4-1) 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 4-1. 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.

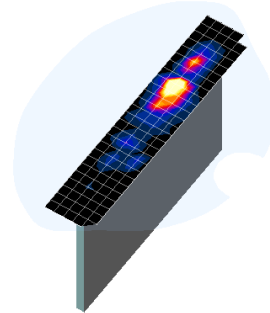


Figure 4-1
Sample SAR Area Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

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5 TEST CONFIGURATION POSITIONS

5.1 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 $\delta = 0.02$.

5.2 SAR Testing for Tablet per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, for devices containing a keyboard, SAR is required for the bottom surface. Although the keyboard is not an in-box accessory, it was tested as an outbox accessory to conservatively assess SAR compliance. Per FCC KDB Publication 616217 D04v01r02, for devices with overall dimensions >200mm, the back surface and edges of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom. Please see the exact antenna locations shown in the Technical Descriptions document.

5.3 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body. When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a nonreduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in the Power Reduction Verification Appendix. The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

5.4 SAR Evaluation with Detachable Keyboard

The DUT supports an aftermarket detachable keyboard accessory. SAR testing was conducted in accordance with FCC KDB 616217 D04 and 47 CFR §2.1093, covering both standalone tablet mode and the keyboard attached (360° folded) configuration. The device was fully tested in standalone mode at 0 mm and trigger-based separation distances across all five surfaces. Based on these results, the worst-case SAR surface was identified for each band and configuration. To assess RF exposure in the keyboard-attached condition, SAR was re-evaluated at the worst-case surface determined during standalone testing. All measured SAR values in the keyboard-attached configuration were found to be lower than those recorded in standalone mode. The test methodology relied on engineering judgment supported by the device's RF structural design and measured SAR data, and is consistent with SAR reduction principles outlined in IEEE 1528-2013 Annex I.4.2 and FCC KDB 648474 D04 Section 8. The evaluation considered the passive nature of the keyboard, which does not contain any active RF circuitry, and the increased overall device thickness resulting from the keyboard attachment, which provides additional separation from the user. The antennas are fixed within the display section and are physically decoupled from the keyboard, minimizing interaction. The overall design and structural asymmetry reduce RF coupling and limit the likelihood of any shift in the worst-case SAR location due to the keyboard. Based on these considerations, no further SAR testing was required for other surfaces when the keyboard was attached.

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6 RF EXPOSURE LIMITS

6.1 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.

6.2 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 6-1
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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6.3 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 6-2
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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7 FCC MEASUREMENT PROCEDURES

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

7.1 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.

7.2 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.

7.2.1 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.

7.2.2 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.

7.2.3 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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7.2.4 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.

7.2.5 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.

7.2.6 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.

7.2.7 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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8 RF CONDUCTED POWERS

8.1 WLAN Conducted Powers

Table 8-1
2.4 GHz WLAN Maximum Average RF Power – WIFI 0

2.4GHz WIFI (20MHz 802.11b SISO WIFI0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.51
2437	6		15.48
2462	11		15.85
2.4GHz WIFI (20MHz 802.11g SISO WIFI0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.37
2417	2		17.21
2437	6		17.26
2452	9		17.12
2457	10		16.02
2462	11		14.06
2.4GHz WIFI (20MHz 802.11n SISO WIFI0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.11
2417	2		17.16
2437	6		17.36
2452	9		17.06
2457	10		16.02
2462	11		14.02
2.4GHz WIFI (20MHz 802.11ax SISO WIFI0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.36
2437	6		14.36
2462	11		14.40

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Table 8-2
2.4 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 0

2.4GHz WIFI (20MHz 802.11b SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.60
2437	6		11.79
2462	11		11.84
2.4GHz WIFI (20MHz 802.11g SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.03
2437	6		11.42
2462	11		11.18
2.4GHz WIFI (20MHz 802.11n SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.02
2437	6		11.37
2462	11		11.25
2.4GHz WIFI (20MHz 802.11ax SISO WIFI 0)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.16
2437	6		11.52
2462	11		11.45

Table 8-3
2.4 GHz WLAN Maximum Average RF Power – WIFI 1

2.4GHz WIFI (20MHz 802.11b SISO WIFI1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.90
2437	6		15.85
2462	11		15.99
2.4GHz WIFI (20MHz 802.11g SISO WIFI1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.44
2417	2		17.82
2437	6		17.71
2452	9		17.56
2457	10		16.42
2462	11		14.36
2.4GHz WIFI (20MHz 802.11n SISO WIFI1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.46
2417	2		17.86
2437	6		17.57
2452	9		17.28
2457	10		16.55
2462	11		14.62
2.4GHz WIFI (20MHz 802.11ax SISO WIFI1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.46
2437	6		14.77
2462	11		14.79

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Table 8-4
2.4 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 1

2.4GHz WIFI (20MHz 802.11b SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.62
2437	6		11.55
2462	11		11.80
2.4GHz WIFI (20MHz 802.11g SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.75
2437	6		11.65
2462	11		11.70
2.4GHz WIFI (20MHz 802.11n SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.55
2437	6		11.60
2462	11		11.66
2.4GHz WIFI (20MHz 802.11ax SISO WIFI 1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.69
2437	6		11.90
2462	11		11.63

Table 8-5
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	14.56	14.73	17.66
2417	2		17.22	17.99	20.63
2437	6		17.11	17.52	20.33
2452	9		17.38	17.90	20.66
2457	10		16.37	16.22	19.31
2462	11		14.83	14.73	17.79

Table 8-6
2.4 GHz WLAN Reduced Average RF Power with Grip Sensor Active – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	11.65	12.20	14.94
2437	6		11.50	12.32	14.94
2462	11		11.90	12.06	14.99

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Table 8-7
5 GHz WLAN Maximum Average RF Power – WIFI 0

5GHz WIFI (20MHz 802.11a SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.01
	5200	40	17.10
	5220	44	17.24
	5240	48	17.30
UNII-2A	5260	52	17.44
	5280	56	17.39
	5300	60	17.23
	5320	64	17.22
UNII-2C	5500	100	17.72
	5600	120	17.50
	5620	124	17.51
	5720	144	17.56
UNII-3	5745	149	14.69
	5785	157	14.78
	5825	165	14.70
UNII-4	5845	169	17.62
	5865	173	17.65
	5885	177	17.68
5GHz WIFI (20MHz 802.11n SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.43
	5200	40	17.36
	5220	44	17.60
	5240	48	17.57
UNII-2A	5260	52	17.40
	5280	56	17.79
	5300	60	17.82
	5320	64	17.79
UNII-2C	5500	100	17.80
	5600	120	17.90
	5620	124	17.94
	5720	144	17.59
UNII-3	5745	149	14.70
	5765	153	14.88
	5785	157	14.72
	5825	165	14.75
UNII-4	5845	169	17.88
	5865	173	17.68
	5885	177	17.66
5GHz WIFI (20MHz 802.11ac SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.70
	5200	40	17.35
	5220	44	17.53
	5240	48	17.56
UNII-2A	5260	52	17.63
	5280	56	17.55
	5300	60	17.79
	5320	64	17.82
UNII-2C	5500	100	17.78
	5600	120	17.35
	5620	124	17.90
	5720	144	17.58
UNII-3	5745	149	14.90
	5765	153	14.77
	5785	157	14.80
	5825	165	14.75
UNII-4	5845	169	17.98
	5865	173	17.62
	5885	177	17.63
5GHz WIFI (20MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	10.66
	5200	40	10.87
	5220	44	10.69
	5240	48	10.70
UNII-2A	5260	52	10.88
	5280	56	10.65
	5300	60	10.56
	5320	64	10.75
UNII-2C	5500	100	10.99
	5600	120	10.80
	5620	124	10.50
	5720	144	10.65
UNII-3	5745	149	10.88
	5765	153	10.90
	5785	157	10.86
	5825	165	10.45
UNII-4	5845	169	10.50
	5865	173	10.49
	5885	177	10.90

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Table 8-8
5 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 0

5GHz WIFI (80MHz 802.11ac SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.25
UNII-2A	5290	58	7.26
UNII-2C	5530	106	7.70
	5610	122	7.33
	5690	138	7.90
UNII-3	5775	155	7.83
UNII-4	5885	171	7.42
5GHz WIFI (80MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.06
UNII-2A	5290	58	7.28
UNII-2C	5530	106	7.80
	5610	122	7.43
	5690	138	7.70
UNII-3	5775	155	7.56
UNII-4	5885	171	7.39

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Table 8-9
5 GHz WLAN Maximum Average RF Power – WIFI 1

5GHz WIFI (20MHz 802.11a SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.58
	5200	40	17.64
	5220	44	17.94
	5240	48	17.84
UNII-2A	5260	52	17.89
	5280	56	17.84
	5300	60	17.85
	5320	64	17.61
UNII-2C	5500	100	17.98
	5600	120	17.69
	5620	124	17.90
	5720	144	17.61
UNII-3	5745	149	14.82
	5785	157	14.65
	5825	165	14.99
UNII-4	5845	169	17.86
	5865	173	17.89
	5885	177	17.85
5GHz WIFI (20MHz 802.11n SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.83
	5200	40	17.80
	5220	44	17.90
	5240	48	17.98
UNII-2A	5260	52	17.77
	5280	56	17.73
	5300	60	17.55
	5320	64	17.46
UNII-2C	5500	100	17.60
	5600	120	17.90
	5620	124	17.94
	5720	144	17.89
UNII-3	5745	149	14.60
	5785	157	14.96
	5825	165	14.83
UNII-4	5845	169	17.65
	5865	173	17.62
	5885	177	17.62
5GHz WIFI (20MHz 802.11ac SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	17.85
	5200	40	17.85
	5220	44	17.96
	5240	48	17.95
UNII-2A	5260	52	17.79
	5280	56	17.70
	5300	60	17.63
	5320	64	17.77
UNII-2C	5500	100	17.57
	5600	120	17.93
	5620	124	17.90
	5720	144	17.95
UNII-3	5745	149	14.70
	5785	157	14.89
	5825	165	14.87
UNII-4	5845	169	17.64
	5865	173	17.65
	5885	177	17.77
5GHz WIFI (20MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	10.96
	5200	40	10.77
	5220	44	10.60
	5240	48	10.90
UNII-2A	5260	52	10.96
	5280	56	10.88
	5300	60	10.54
	5320	64	10.52
UNII-2C	5500	100	10.68
	5600	120	10.99
	5620	124	10.98
	5720	144	10.98
UNII-3	5745	149	10.78
	5765	153	10.90
	5785	157	10.91
	5805	161	10.93
	5825	165	10.50
UNII-4	5845	169	10.60
	5865	173	10.65
	5885	177	10.57

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Table 8-10
5 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 1

5GHz WIFI (80MHz 802.11ac SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.05
UNII-2A	5290	58	7.11
UNII-2C	5530	106	7.70
	5610	122	7.80
	5690	138	7.40
UNII-3	5775	155	7.80
UNII-4	5885	171	7.28
5GHz WIFI (80MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	7.38
UNII-2A	5290	58	7.10
UNII-2C	5530	106	7.60
	5610	122	7.60
	5690	138	7.65
UNII-3	5775	155	7.55
UNII-4	5885	171	7.74

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Table 8-11
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz WIFI (20MHz 802.11a MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5180	36	17.06	17.80	20.46
	5200	40	17.12	17.83	20.50
	5220	44	16.95	17.39	20.19
	5240	48	17.45	17.78	20.63
UNII-2A	5260	52	17.52	17.29	20.42
	5280	56	17.59	17.31	20.46
	5300	60	17.42	17.26	20.35
	5320	64	17.38	17.22	20.31
UNII-2C	5500	100	17.38	17.93	20.67
	5600	120	16.92	17.98	20.49
	5620	124	16.91	17.95	20.47
	5720	144	17.34	17.65	20.51
UNII-3	5745	149	14.22	14.80	17.53
	5785	157	14.16	14.87	17.54
	5825	165	14.11	14.67	17.41
UNII-4	5845	169	17.41	17.90	20.67
	5865	173	17.19	17.84	20.54
	5885	177	17.38	17.83	20.62

Table 8-12
5 GHz WLAN Reduced Average RF Power with Grip Sensor Active – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	7.08	7.40	10.25
UNII-2A	5290	58	7.23	7.14	10.20
UNII-2C	5530	106	7.78	7.99	10.90
	5610	122	7.21	7.58	10.41
	5690	138	7.50	7.20	10.36
UNII-3	5775	155	7.69	7.57	10.64
UNII-4	5885	171	7.49	7.79	10.65

Table 8-13
5 GHz WLAN Reduced Average RF Power with 2.4 GHz WLAN Active – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	4.16	4.36	7.27
UNII-2A	5290	58	4.35	4.12	7.25
UNII-2C	5530	106	4.90	4.95	7.94
	5610	122	4.00	4.99	7.53
	5690	138	4.79	4.36	7.59
UNII-3	5775	155	4.70	4.99	7.86
UNII-4	5885	171	4.47	4.52	7.51

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Table 8-14
6 GHz WLAN Maximum Average RF Power – WIFI 0

6GHz WIFI (80MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	13.54
	6305	71	13.27
UNII-6	6465	103	13.86
UNII-7	6705	151	13.95
UNII-8	7025	215	13.51

Table 8-15
6 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 0

6GHz WIFI (160MHz 802.11ax SISO WIFI 0)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.45
	6345	79	6.10
UNII-6	6505	111	6.16
UNII-7	6665	143	6.05
UNII-8	6985	207	6.26

Table 8-16
6 GHz WLAN Maximum Average RF Power – WIFI 1

6GHz WIFI (80MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	13.92
	6305	71	13.25
UNII-6	6465	103	13.19
UNII-7	6705	151	13.80
UNII-8	7025	215	13.55

Table 8-17
6 GHz WLAN Reduced Average RF Power with Grip Sensor Active – WIFI 1

6GHz WIFI (160MHz 802.11ax SISO WIFI 1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.26
	6345	79	6.40
UNII-6	6505	111	6.36
UNII-7	6665	143	6.05
	6825	175	6.00
UNII-8	6985	207	5.53

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Table 8-18
6 GHz WLAN Maximum Average RF Power – MIMO

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	13.39	13.70	16.56
	6305	71	13.45	13.30	16.39
UNII-6	6465	103	13.90	13.13	16.54
UNII-7	6705	151	13.58	13.00	16.31
UNII-8	7025	215	13.00	13.55	16.29

Table 8-19
6 GHz WLAN Reduced Average RF Power with Grip Sensor Active – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	6.90	6.10	9.53
	6345	79	6.00	6.56	9.30
UNII-6	6505	111	6.16	6.90	9.56
UNII-7	6665	143	6.00	6.22	9.12
	6825	175	6.03	6.12	9.09
UNII-8	6985	207	6.50	5.55	9.06

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.

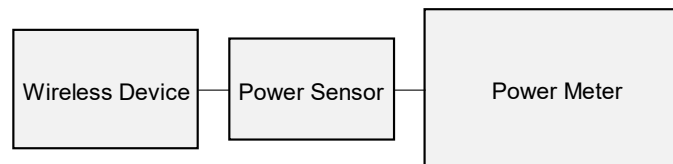


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers

Table 8-20
Bluetooth Maximum Average RF Power – WIFI 0

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.85	30.549
2441	1.0	GFSK	39	14.80	30.200
2480	1.0	GFSK	78	14.47	27.990
2402	2.0	$\pi/4$ -DQPSK	0	14.95	31.261
2441	2.0	$\pi/4$ -DQPSK	39	14.71	29.580
2480	2.0	$\pi/4$ -DQPSK	78	14.61	28.907
2402	3.0	8DPSK	0	14.91	30.974
2441	3.0	8DPSK	39	14.65	29.174
2480	3.0	8DPSK	78	14.57	28.642

Table 8-21
Bluetooth Reduced Average RF Power with Grip Sensor Active – WIFI 0

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	8.57	7.194
2441	1.0	GFSK	39	10.41	10.990
2480	1.0	GFSK	78	9.31	8.531
2402	2.0	$\pi/4$ -DQPSK	0	8.82	7.621
2441	2.0	$\pi/4$ -DQPSK	39	10.48	11.169
2480	2.0	$\pi/4$ -DQPSK	78	8.43	6.966
2402	3.0	8DPSK	0	8.78	7.551
2441	3.0	8DPSK	39	10.47	11.143
2480	3.0	8DPSK	78	9.45	8.810

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Table 8-22
Bluetooth Maximum Average RF Power – WIFI 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.59	28.774
2441	1.0	GFSK	39	14.58	28.708
2480	1.0	GFSK	78	14.55	28.510
2402	2.0	$\pi/4$ -DQPSK	0	14.78	30.061
2441	2.0	$\pi/4$ -DQPSK	39	14.69	29.444
2480	2.0	$\pi/4$ -DQPSK	78	14.25	26.607
2402	3.0	8DPSK	0	14.81	30.269
2441	3.0	8DPSK	39	14.70	29.512
2480	3.0	8DPSK	78	14.27	26.730

Table 8-23
Bluetooth Reduced Average RF Power with Grip Sensor Active – WIFI 1

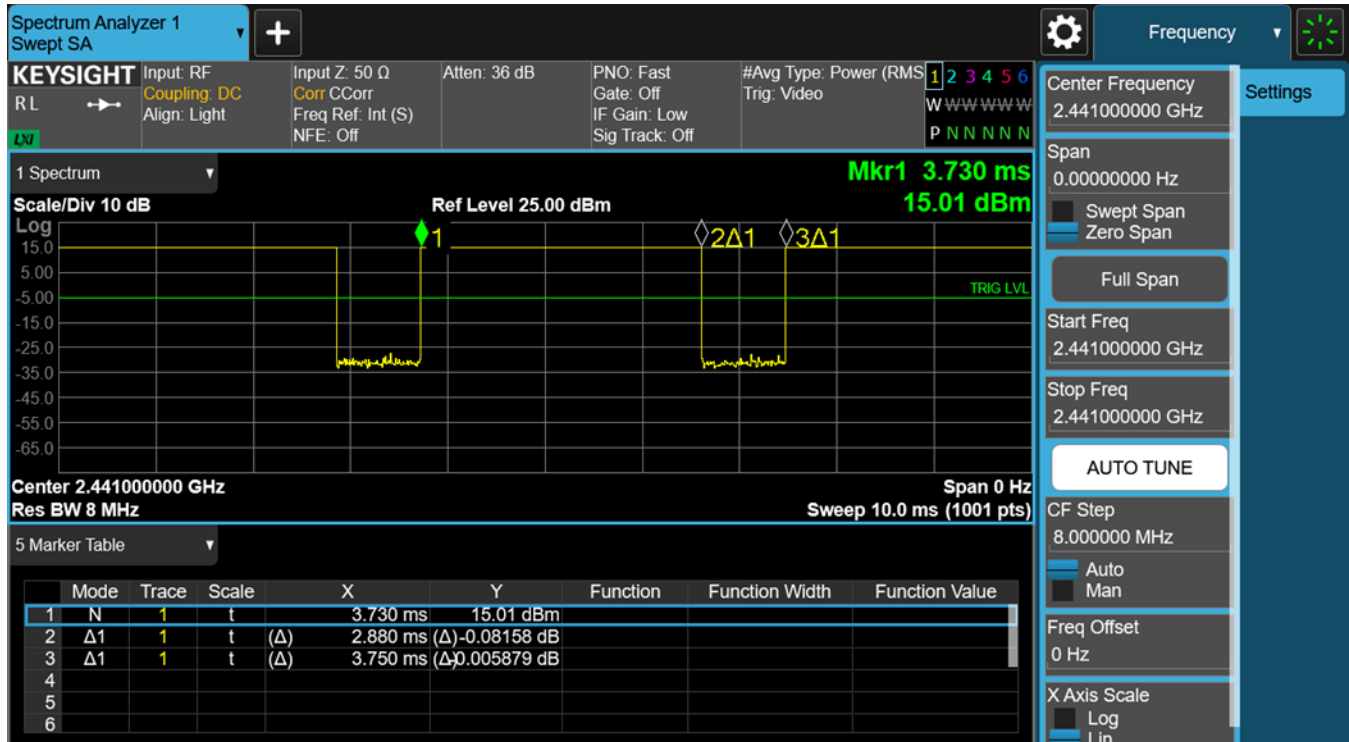
Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	8.38	6.887
2441	1.0	GFSK	39	8.69	7.396
2480	1.0	GFSK	78	7.98	6.281
2402	2.0	$\pi/4$ -DQPSK	0	8.52	7.112
2441	2.0	$\pi/4$ -DQPSK	39	8.83	7.638
2480	2.0	$\pi/4$ -DQPSK	78	8.16	6.546
2402	3.0	8DPSK	0	8.53	7.129
2441	3.0	8DPSK	39	8.85	7.674
2480	3.0	8DPSK	78	8.17	6.561

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Figure 8-2
Bluetooth Transmission Plot – WIFI 0

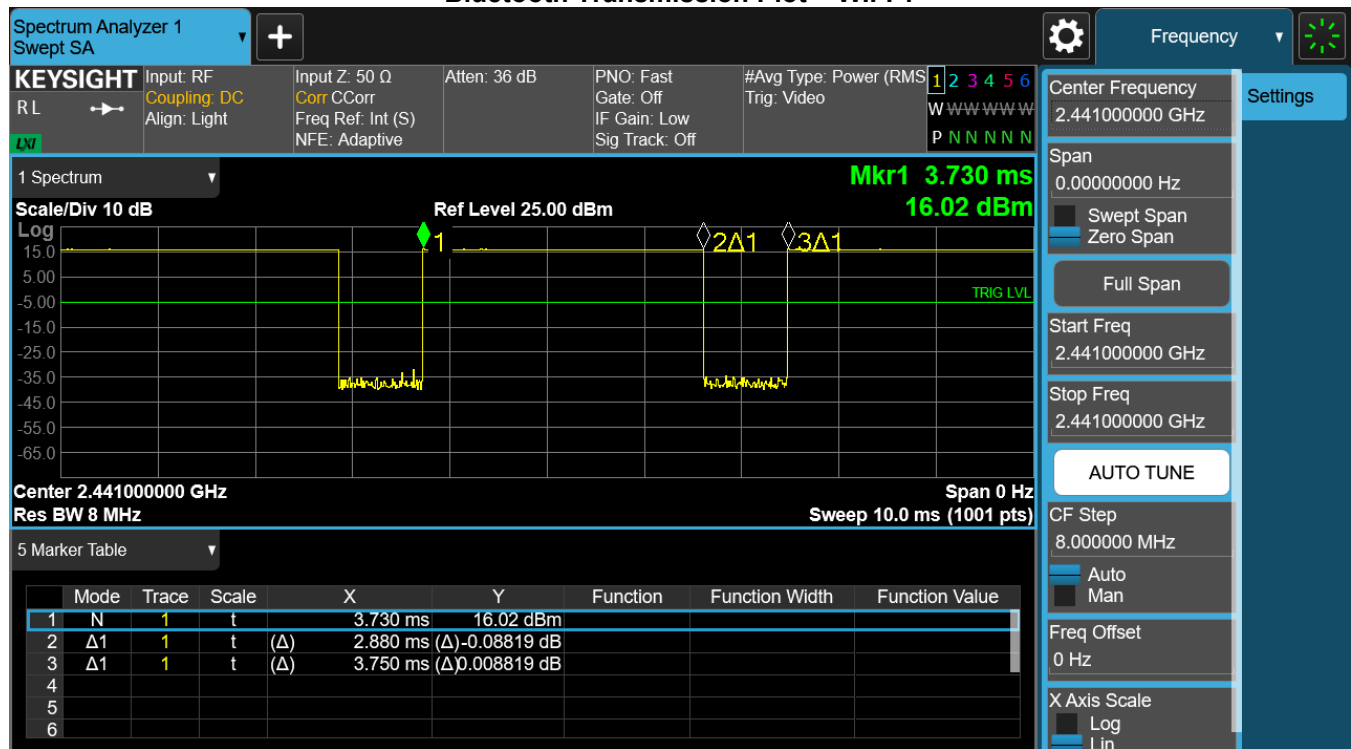


Equation 8-1
Bluetooth WIFI 0 Duty Cycle Calculation

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

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Figure 8-3
Bluetooth Transmission Plot – WIFI 1



Equation 8-2
Bluetooth WIFI 1 Duty Cycle Calculation

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

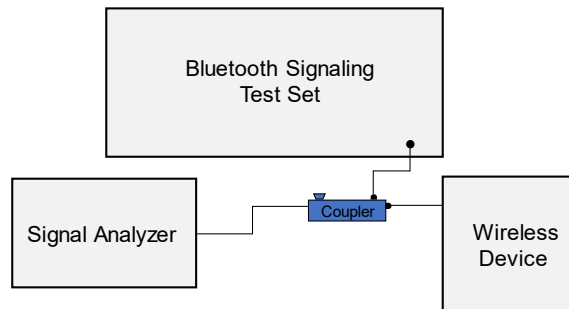


Figure 8-4
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
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
06/13/2025	2450 Head	20.1	2300	1.682	38.460	1.670	39.500	0.72%	-2.63%
			2310	1.689	38.444	1.679	39.480	0.60%	-2.62%
			2320	1.696	38.427	1.687	39.460	0.53%	-2.62%
			2400	1.755	38.922	1.756	39.289	-0.06%	-2.46%
			2450	1.793	38.246	1.800	39.200	-0.39%	-2.43%
			2480	1.816	38.201	1.833	39.162	-0.93%	-2.45%
			2500	1.832	38.170	1.855	39.136	-1.24%	-2.47%
			2510	1.840	38.155	1.866	39.123	-1.39%	-2.47%
			2535	1.859	38.119	1.893	39.092	-1.80%	-2.49%
			2550	1.871	38.099	1.909	39.073	-1.99%	-2.49%
			2560	1.879	38.085	1.920	39.060	-2.14%	-2.50%
			2600	1.911	38.014	1.964	39.009	-2.70%	-2.55%
			2650	1.952	37.933	2.018	38.945	-3.27%	-2.60%
			2680	1.976	37.873	2.051	38.907	-3.66%	-2.66%
			2700	1.991	37.835	2.073	38.882	-3.96%	-2.69%
06/17/2025	2450 Head	19.9	2300	1.700	39.254	1.670	39.500	0.80%	-0.62%
			2310	1.706	39.239	1.679	39.480	1.61%	-0.61%
			2320	1.713	39.224	1.687	39.460	1.54%	-0.60%
			2400	1.779	39.121	1.756	39.289	1.31%	-0.43%
			2450	1.816	39.030	1.800	39.200	0.89%	-0.43%
			2480	1.843	38.977	1.833	39.162	0.55%	-0.47%
			2500	1.860	38.946	1.855	39.136	0.27%	-0.49%
			2510	1.868	38.929	1.866	39.123	0.11%	-0.50%
			2535	1.886	38.880	1.893	39.092	-0.37%	-0.54%
			2550	1.898	38.851	1.909	39.073	-0.58%	-0.57%
			2560	1.907	38.829	1.920	39.060	-0.68%	-0.59%
			2600	1.941	38.758	1.964	39.009	-1.17%	-0.64%
			2650	1.979	38.669	2.018	38.945	-1.93%	-0.71%
			2680	2.003	38.608	2.051	38.907	-2.34%	-0.77%
			2700	2.020	38.577	2.073	38.882	-2.56%	-0.78%
07/07/2025	2450 Head	21.8	2300	1.649	40.931	1.670	39.500	-1.26%	3.62%
			2310	1.652	40.900	1.679	39.480	-1.61%	3.60%
			2320	1.660	40.866	1.687	39.460	-1.60%	3.56%
			2400	1.724	40.791	1.756	39.289	-1.82%	3.82%
			2450	1.773	40.677	1.800	39.200	-1.50%	3.77%
			2480	1.799	40.671	1.833	39.162	-1.85%	3.85%
			2500	1.801	40.661	1.855	39.136	-2.91%	3.90%
			2510	1.804	40.645	1.866	39.123	-3.32%	3.89%
			2535	1.826	40.573	1.893	39.092	-3.54%	3.79%
			2550	1.849	40.532	1.909	39.073	-3.14%	3.73%
			2560	1.862	40.517	1.920	39.060	-3.02%	3.73%
			2600	1.883	40.505	1.964	39.009	-4.12%	3.84%
			2650	1.925	40.376	2.018	38.945	-4.61%	3.67%
			2680	1.960	40.340	2.051	38.907	-4.44%	3.68%
			2700	1.991	40.300	2.073	38.882	-4.34%	3.63%
07/09/2025	2450 Head	22.3	2300	1.691	37.680	1.670	39.500	1.26%	-4.61%
			2310	1.698	37.662	1.679	39.480	1.13%	-4.60%
			2320	1.705	37.646	1.687	39.460	1.07%	-4.60%
			2400	1.759	37.545	1.756	39.289	0.17%	-4.44%
			2450	1.797	37.472	1.800	39.200	-0.17%	-4.41%
			2480	1.819	37.428	1.833	39.162	-0.76%	-4.43%
			2500	1.833	37.393	1.855	39.136	-1.19%	-4.45%
			2510	1.840	37.377	1.866	39.123	-1.39%	-4.46%
			2535	1.860	37.341	1.893	39.092	-1.74%	-4.48%
			2550	1.873	37.323	1.909	39.073	-1.89%	-4.48%
			2560	1.881	37.310	1.920	39.060	-2.03%	-4.48%
			2600	1.909	37.246	1.964	39.009	-2.80%	-4.52%
			2650	1.950	37.157	2.018	38.945	-3.37%	-4.59%
			2680	1.971	37.121	2.051	38.907	-3.90%	-4.59%
			2700	1.983	37.081	2.073	38.882	-4.34%	-4.63%
07/16/2025	2450 Head	20.1	2300	1.704	38.580	1.670	39.500	2.04%	-2.33%
			2310	1.712	38.560	1.679	39.480	1.87%	-2.33%
			2320	1.720	38.548	1.687	39.460	1.96%	-2.31%
			2400	1.782	38.444	1.756	39.289	1.48%	-2.15%
			2450	1.821	38.361	1.800	39.200	1.17%	-2.14%
			2480	1.843	38.310	1.833	39.162	0.65%	-2.18%
			2500	1.858	38.272	1.855	39.136	0.16%	-2.21%
			2510	1.866	38.252	1.866	39.123	0.00%	-2.23%
			2535	1.887	38.209	1.893	39.092	-0.32%	-2.26%
			2550	1.899	38.183	1.909	39.073	-0.52%	-2.28%
			2560	1.907	38.164	1.920	39.060	-0.68%	-2.29%
			2600	1.937	38.092	1.964	39.009	-1.37%	-2.35%
			2650	1.978	37.995	2.018	38.945	-1.99%	-2.44%
			2680	2.003	37.962	2.051	38.907	-2.34%	-2.45%
			2700	2.018	37.919	2.073	38.882	-2.65%	-2.46%
07/23/2025	2450 Head	20.9	2300	1.693	40.654	1.670	39.500	1.38%	2.92%
			2310	1.701	40.638	1.679	39.480	1.31%	2.94%
			2320	1.708	40.623	1.687	39.460	1.24%	2.95%
			2400	1.770	40.480	1.756	39.289	0.80%	3.03%
			2450	1.810	40.394	1.800	39.200	0.56%	3.05%
			2480	1.832	40.335	1.833	39.162	-0.05%	3.00%
			2500	1.850	40.300	1.855	39.136	-0.27%	2.97%
			2510	1.859	40.282	1.866	39.123	-0.38%	2.96%
			2535	1.878	40.242	1.893	39.092	-0.79%	2.94%
			2550	1.889	40.214	1.909	39.073	-1.05%	2.92%
			2560	1.897	40.194	1.920	39.060	-1.20%	2.90%
			2600	1.931	40.119	1.964	39.009	-1.68%	2.85%
			2650	1.974	40.041	2.018	38.945	-2.16%	2.81%
			2680	1.997	39.982	2.051	38.907	-2.63%	2.76%
			2700	2.013	39.952	2.073	38.882	-2.89%	2.75%

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Table 9-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/27/2025	5200-5800 Head	19.2	5150	4.559	35.627	4.608	36.050	-1.06%	-1.17%
			5160	4.568	35.635	4.618	36.040	-1.08%	-1.12%
			5170	4.577	35.632	4.629	36.030	-1.12%	-1.10%
			5180	4.587	35.622	4.635	36.009	-1.04%	-1.07%
			5190	4.597	35.612	4.645	35.998	-1.03%	-1.07%
			5200	4.605	35.600	4.655	35.986	-1.07%	-1.09%
			5210	4.611	35.575	4.666	35.975	-1.18%	-1.11%
			5220	4.622	35.550	4.676	35.963	-1.15%	-1.19%
			5240	4.653	35.466	4.696	35.940	-0.92%	-1.32%
			5250	4.670	35.451	4.706	35.929	-0.76%	-1.33%
			5260	4.686	35.444	4.717	35.917	-0.66%	-1.32%
			5270	4.700	35.442	4.727	35.906	-0.57%	-1.29%
			5280	4.706	35.436	4.737	35.894	-0.65%	-1.28%
			5290	4.706	35.434	4.748	35.883	-0.88%	-1.25%
			5300	4.712	35.421	4.758	35.871	-0.97%	-1.25%
			5310	4.720	35.391	4.768	35.860	-1.01%	-1.31%
			5320	4.731	35.336	4.778	35.849	-0.98%	-1.43%
			5500	4.952	34.997	4.963	35.643	-0.22%	-1.81%
			5510	4.960	34.998	4.973	35.632	-0.26%	-1.78%
			5520	4.968	34.976	4.983	35.620	-0.30%	-1.61%
			5530	4.981	34.939	4.994	35.609	-0.26%	-1.88%
			5540	4.996	34.890	5.004	35.597	-0.16%	-1.99%
			5550	5.007	34.869	5.014	35.586	-0.14%	-2.01%
			5560	5.016	34.861	5.024	35.574	-0.16%	-2.00%
			5580	5.054	34.848	5.045	35.551	0.18%	-1.98%
			5600	5.073	34.840	5.065	35.529	0.16%	-1.94%
			5610	5.076	34.819	5.076	35.518	0.00%	-1.97%
			5620	5.086	34.799	5.086	35.506	0.00%	-1.99%
			5640	5.112	34.725	5.106	35.483	0.12%	-2.14%
			5660	5.141	34.660	5.127	35.460	0.27%	-2.28%
			5670	5.164	34.653	5.137	35.449	0.53%	-2.25%
			5680	5.179	34.649	5.147	35.437	0.62%	-2.22%
			5690	5.185	34.658	5.158	35.426	0.52%	-2.17%
			5700	5.188	34.666	5.168	35.414	0.39%	-2.11%
			5710	5.196	34.649	5.178	35.403	0.35%	-2.13%
			5720	5.207	34.623	5.188	35.391	0.37%	-2.17%
			5745	5.230	34.559	5.214	35.363	0.31%	-2.38%
			5750	5.231	34.509	5.219	35.357	0.34%	-2.40%
			5755	5.244	34.488	5.224	35.351	0.38%	-2.44%
			5765	5.261	34.468	5.234	35.340	0.52%	-2.47%
			5775	5.278	34.459	5.245	35.329	0.63%	-2.46%
			5785	5.294	34.447	5.255	35.317	0.74%	-2.46%
			5795	5.308	34.438	5.265	35.305	0.78%	-2.46%
			5805	5.315	34.438	5.275	35.294	0.76%	-2.42%
			5825	5.329	34.445	5.286	35.271	0.60%	-2.34%
			5835	5.332	34.411	5.305	35.230	0.51%	-2.32%
			5845	5.342	34.361	5.315	35.210	0.51%	-2.41%
			5850	5.348	34.333	5.320	35.200	0.53%	-2.46%
			5855	5.354	34.305	5.325	35.197	0.54%	-2.53%
			5875	5.389	34.250	5.347	35.163	0.79%	-2.65%
			5885	5.412	34.241	5.357	35.177	1.03%	-2.66%
			5905	5.439	34.262	5.379	35.163	1.12%	-2.59%
07/07/2025	5200-5800 Head	21.3	5150	4.453	35.933	4.608	36.050	-3.36%	-0.32%
			5160	4.468	35.929	4.618	36.040	-3.25%	-0.31%
			5170	4.480	35.937	4.629	36.030	-3.22%	-0.28%
			5180	4.488	35.928	4.635	36.009	-3.17%	-0.22%
			5190	4.498	35.959	4.645	35.998	-3.21%	-0.28%
			5200	4.500	35.967	4.655	35.986	-3.33%	-0.33%
			5210	4.508	35.838	4.666	35.975	-3.39%	-0.38%
			5220	4.519	35.822	4.676	35.963	-3.36%	-0.39%
			5240	4.540	35.774	4.696	35.940	-3.13%	-0.46%
			5250	4.561	35.770	4.706	35.929	-3.08%	-0.44%
			5260	4.572	35.761	4.717	35.917	-3.07%	-0.43%
			5270	4.586	35.758	4.727	35.906	-2.98%	-0.41%
			5280	4.593	35.748	4.737	35.894	-3.04%	-0.41%
			5290	4.599	35.721	4.748	35.883	-3.14%	-0.45%
			5300	4.606	35.682	4.758	35.871	-3.19%	-0.53%
			5310	4.615	35.633	4.768	35.860	-3.21%	-0.63%
			5320	4.632	35.623	4.778	35.849	-3.06%	-0.63%
			5500	4.833	35.303	4.963	35.643	-2.62%	-0.95%
			5510	4.849	35.281	4.973	35.632	-2.49%	-0.99%
			5520	4.865	35.264	4.983	35.620	-2.37%	-1.00%
			5530	4.883	35.260	4.994	35.609	-2.22%	-0.98%
			5540	4.899	35.273	5.004	35.597	-2.10%	-0.91%
			5550	4.905	35.278	5.014	35.586	-2.17%	-0.87%
			5560	4.910	35.257	5.024	35.574	-2.27%	-0.89%
			5580	4.926	35.184	5.045	35.551	-2.36%	-1.03%
			5600	4.948	35.113	5.065	35.529	-2.31%	-1.17%
			5610	4.965	35.092	5.076	35.518	-2.19%	-1.20%
			5620	4.982	35.089	5.086	35.506	-2.04%	-1.17%
			5640	5.010	35.109	5.106	35.483	-1.88%	-1.05%
			5660	5.014	35.082	5.127	35.460	-2.20%	-1.07%
			5670	5.020	35.045	5.137	35.448	-2.28%	-1.12%
			5680	5.037	35.014	5.147	35.437	-2.14%	-1.19%
			5690	5.054	34.969	5.158	35.426	-2.02%	-1.26%
			5700	5.072	34.928	5.168	35.414	-1.86%	-1.37%
			5710	5.089	34.914	5.178	35.403	-1.72%	-1.38%
			5720	5.099	34.905	5.188	35.391	-1.72%	-1.37%
			5745	5.116	34.928	5.214	35.363	-1.88%	-1.24%
			5750	5.120	34.919	5.219	35.357	-1.90%	-1.24%
			5755	5.125	34.902	5.224	35.351	-1.90%	-1.27%
			5765	5.133	34.865	5.234	35.340	-1.93%	-1.34%
			5775	5.145	34.816	5.245	35.329	-1.91%	-1.45%
			5785	5.160	34.784	5.255	35.317	-1.81%	-1.51%
			5795	5.189	34.755	5.265	35.305	-1.61%	-1.58%
			5800	5.189	34.743	5.270	35.300	-1.54%	-1.58%
			5800	5.189	34.743	5.270	35.300	-1.54%	-1.58%
			5805	5.198	34.740	5.275	35.294	-1.46%	-1.57%
			5825	5.223	34.782	5.296	35.271	-1.38%	-1.39%
			5835	5.228	34.793	5.305	35.230	-1.49%	-1.24%
			5845	5.235	34.781	5.315	35.210	-1.64%	-1.22%
			5850	5.231	34.763	5.320	35.200	-1.67%	-1.24%
			5855	5.235	34.742	5.325	35.197	-1.69%	-1.29%
			5875	5.261	34.648	5.347	35.163	-1.61%	-1.52%
			5885	5.277	34.616	5.357	35.177	-1.49%	-1.59%
			5905	5.316	34.592	5.379	35.163	-1.17%	-1.62%
			5900	5.189	34.743	5.270	35.300	-1.54%	-1.58%
			5900	5.189	34.743	5.270	35.300	-1.54%	-1.58%

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Table 9-3
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
07/15/2025	5200-5800 Head	19.5	5150	4.460	35.014	4.608	36.050	-3.21%	-2.87%
			5160	4.470	35.003	4.618	36.040	-3.20%	-2.88%
			5170	4.470	34.991	4.629	36.030	-3.24%	-2.88%
			5180	4.490	34.974	4.635	36.009	-3.13%	-2.87%
			5190	4.498	34.969	4.645	35.998	-3.16%	-2.89%
			5200	4.509	34.958	4.655	35.986	-3.14%	-2.93%
			5210	4.522	34.898	4.666	35.975	-3.09%	-2.99%
			5220	4.535	34.877	4.676	35.963	-3.02%	-3.02%
			5240	4.558	34.854	4.696	35.940	-2.94%	-3.02%
			5250	4.570	34.832	4.706	35.929	-2.89%	-3.05%
			5260	4.583	34.812	4.717	35.917	-2.84%	-3.08%
			5270	4.594	34.787	4.727	35.906	-2.81%	-3.12%
			5280	4.604	34.777	4.737	35.894	-2.81%	-3.11%
			5290	4.614	34.761	4.748	35.883	-2.82%	-3.13%
			5300	4.624	34.738	4.758	35.871	-2.82%	-3.16%
			5310	4.639	34.708	4.768	35.860	-2.71%	-3.21%
			5320	4.656	34.686	4.778	35.849	-2.59%	-3.24%
			5500	4.860	34.362	4.963	35.643	-2.08%	-3.51%
			5510	4.870	34.374	4.973	35.632	-2.07%	-3.53%
			5520	4.880	34.369	4.983	35.620	-2.07%	-3.54%
			5530	4.888	34.337	4.994	35.609	-2.12%	-3.57%
			5540	4.899	34.319	5.004	35.597	-2.10%	-3.59%
			5550	4.914	34.304	5.014	35.586	-1.99%	-3.60%
			5560	4.927	34.297	5.024	35.574	-1.93%	-3.59%
			5580	4.946	34.248	5.045	35.551	-1.96%	-3.67%
			5600	4.968	34.193	5.065	35.529	-1.92%	-3.76%
			5610	4.977	34.185	5.076	35.518	-1.95%	-3.75%
			5620	4.989	34.175	5.086	35.506	-1.91%	-3.75%
			5640	5.011	34.114	5.108	35.483	-1.86%	-3.86%
			5650	5.029	34.081	5.127	35.460	-1.91%	-3.89%
			5670	5.042	34.060	5.137	35.449	-1.85%	-3.92%
			5680	5.056	34.041	5.147	35.437	-1.77%	-3.94%
			5690	5.069	34.028	5.158	35.426	-1.73%	-3.95%
			5700	5.080	34.004	5.168	35.414	-1.70%	-3.98%
			5710	5.092	33.981	5.178	35.403	-1.66%	-4.02%
			5720	5.106	33.963	5.188	35.391	-1.58%	-4.03%
			5745	5.132	33.932	5.214	35.363	-1.57%	-4.05%
			5750	5.140	33.921	5.219	35.357	-1.51%	-4.06%
			5755	5.148	33.908	5.224	35.351	-1.49%	-4.08%
			5765	5.160	33.860	5.234	35.340	-1.41%	-4.10%
5775	5.173	33.870	5.245	35.329	-1.37%	-4.13%			
5785	5.186	33.856	5.255	35.317	-1.31%	-4.14%			
5795	5.200	33.834	5.265	35.305	-1.23%	-4.17%			
5800	5.207	33.822	5.270	35.300	-1.20%	-4.19%			
5800	5.207	33.822	5.270	35.300	-1.20%	-4.19%			
5805	5.212	33.814	5.275	35.294	-1.19%	-4.19%			
5825	5.234	33.795	5.296	35.271	-1.17%	-4.18%			
5835	5.250	33.777	5.305	35.230	-1.04%	-4.12%			
5845	5.261	33.765	5.315	35.210	-1.02%	-4.10%			
5850	5.266	33.754	5.320	35.200	-1.02%	-4.11%			
5855	5.267	33.746	5.325	35.197	-1.09%	-4.12%			
5865	5.271	33.735	5.336	35.190	-1.22%	-4.13%			
5865	5.271	33.735	5.336	35.190	-1.22%	-4.13%			
5865	5.271	33.735	5.336	35.190	-1.22%	-4.13%			
5865	5.271	33.735	5.336	35.190	-1.22%	-4.13%			
5875	5.287	33.712	5.347	35.183	-1.12%	-4.18%			
5885	5.302	33.688	5.357	35.177	-1.03%	-4.23%			
5905	5.325	33.656	5.379	35.163	-1.00%	-4.29%			
5150	4.396	34.646	4.608	36.050	-4.60%	-3.34%			
5160	4.410	34.638	4.618	36.040	-4.50%	-3.28%			
5170	4.419	34.658	4.629	36.030	-4.54%	-3.25%			
5180	4.421	34.645	4.635	36.009	-4.62%	-3.23%			
5190	4.425	34.620	4.645	35.998	-4.74%	-3.27%			
5200	4.434	34.791	4.655	35.986	-4.75%	-3.32%			
5210	4.442	34.753	4.666	35.975	-4.80%	-3.40%			
5220	4.455	34.722	4.676	35.963	-4.73%	-3.45%			
5240	4.486	34.670	4.696	35.940	-4.43%	-3.53%			
5250	4.506	34.608	4.706	35.929	-4.25%	-3.54%			
5260	4.517	34.681	4.717	35.917	-4.24%	-3.56%			
5270	4.526	34.660	4.727	35.906	-4.25%	-3.47%			
5280	4.532	34.647	4.737	35.894	-4.33%	-3.47%			
5290	4.536	34.622	4.748	35.883	-4.42%	-3.51%			
5300	4.546	34.590	4.758	35.871	-4.46%	-3.57%			
5310	4.554	34.562	4.768	35.860	-4.49%	-3.69%			
5320	4.570	34.511	4.778	35.849	-4.35%	-3.73%			
5500	4.768	34.227	4.963	35.643	-3.93%	-3.97%			
5510	4.762	34.196	4.973	35.632	-3.84%	-4.03%			
5520	4.798	34.177	4.983	35.620	-3.71%	-4.08%			
5530	4.812	34.150	4.994	35.609	-3.64%	-4.10%			
5540	4.827	34.127	5.004	35.597	-3.54%	-4.13%			
5550	4.838	34.138	5.014	35.586	-3.51%	-4.07%			
5560	4.846	34.149	5.024	35.574	-3.54%	-4.01%			
5580	4.862	34.103	5.045	35.551	-3.63%	-4.07%			
5600	4.867	34.049	5.065	35.529	-3.51%	-4.17%			
5610	4.899	34.042	5.076	35.518	-3.46%	-4.16%			
5620	4.908	34.027	5.086	35.506	-3.50%	-4.17%			
5640	4.940	34.007	5.106	35.483	-3.25%	-4.16%			
5660	4.962	33.969	5.127	35.460	-3.22%	-4.20%			
5670	4.973	33.989	5.137	35.449	-3.19%	-4.26%			
5680	4.980	33.912	5.147	35.437	-3.24%	-4.30%			
5690	4.990	33.894	5.158	35.426	-3.26%	-4.32%			
5700	5.000	33.874	5.168	35.414	-3.25%	-4.35%			
5710	5.017	33.863	5.178	35.403	-3.11%	-4.38%			
5720	5.035	33.868	5.188	35.391	-2.95%	-4.35%			
5745	5.050	33.826	5.214	35.363	-3.15%	-4.35%			
5750	5.053	33.819	5.219	35.357	-3.18%	-4.35%			
5755	5.059	33.801	5.224	35.351	-3.16%	-4.38%			
5765	5.073	33.758	5.234	35.340	-3.08%	-4.48%			
5775	5.089	33.729	5.245	35.329	-2.97%	-4.59%			
5785	5.101	33.708	5.255	35.317	-2.93%	-4.59%			
5795	5.116	33.693	5.265	35.305	-2.83%	-4.57%			
5800	5.122	33.691	5.270	35.300	-2.81%	-4.56%			
5800	5.122	33.691	5.270	35.300	-2.81%	-4.56%			
5805	5.130	33.689	5.275	35.294	-2.75%	-4.55%			
5825	5.151	33.668	5.296	35.271	-2.74%	-4.58%			
5835	5.152	33.655	5.305	35.230	-2.88%	-4.47%			
5845	5.156	33.648	5.315	35.210	-2.90%	-4.44%			
5850	5.160	33.642	5.320	35.200	-3.01%	-4.43%			
5855	5.165	33.629	5.325	35.197	-3.00%	-4.48%			
5865	5.179	33.592	5.336	35.190	-2.94%	-4.54%			
5865	5.179	33.592	5.336	35.190	-2.94%	-4.54%			
5865	5.179	33.592	5.336	35.190	-2.94%	-4.54%			
5875	5.195	33.558	5.347	35.183	-2.84%	-4.63%			
5885	5.210	33.527	5.357	35.177	-2.74%	-4.69%			
5905	5.242	33.495	5.379	35.163	-2.59%	-4.74%			
07/22/2025	5200-5800 Head	21.0							

Table 9-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/27/2025	6000 Head	19.2	5935	5.614	35.022	5.411	35.143	3.78%	-0.34%
			5970	5.655	34.938	5.448	35.120	3.86%	-0.52%
			5985	5.647	34.943	5.464	35.110	3.35%	-0.76%
			6000	5.633	34.817	5.480	35.100	2.79%	-0.81%
			6025	5.673	34.845	5.510	35.070	2.96%	-0.64%
			6065	5.772	34.748	5.557	35.022	3.87%	-0.78%
			6075	5.780	34.682	5.569	35.010	3.79%	-0.94%
			6085	5.779	34.626	5.580	34.998	3.57%	-1.06%
			6185	5.919	34.435	5.698	34.878	3.88%	-1.27%
			6275	6.065	34.295	5.805	34.770	4.48%	-1.37%
			6285	6.053	34.235	5.816	34.758	4.07%	-1.50%
			6305	6.025	34.208	5.840	34.734	3.17%	-1.51%
			6345	6.116	34.184	5.887	34.686	3.89%	-1.45%
			6475	6.322	33.877	6.041	34.530	4.65%	-1.89%
			6485	6.313	33.850	6.052	34.518	4.31%	-1.94%
			6500	6.282	33.889	6.070	34.500	3.49%	-1.77%
			6505	6.277	33.901	6.076	34.494	3.31%	-1.72%
			6545	6.327	33.788	6.122	34.446	3.35%	-1.91%
			6665	6.541	33.500	6.265	34.302	4.41%	-2.34%
			6675	6.565	33.496	6.273	34.290	4.65%	-2.32%
			6685	6.572	33.480	6.285	34.278	4.57%	-2.33%
			6715	6.540	33.386	6.319	34.242	3.59%	-2.50%
			6785	6.688	33.353	6.400	34.158	4.50%	-2.36%
			6825	6.616	33.243	6.447	34.110	2.62%	-2.54%
			6985	6.905	32.898	6.633	33.918	4.10%	-3.01%
			6995	6.905	32.879	6.644	33.906	3.93%	-3.03%
			7000	6.897	32.854	6.650	33.900	3.71%	-3.09%
			7005	6.890	32.831	6.656	33.894	3.52%	-3.14%
			7025	6.862	32.773	6.680	33.870	2.72%	-3.24%
07/14/2025	6000 Head	20.3	5935	5.514	35.352	5.411	35.143	1.90%	0.59%
			5970	5.533	35.248	5.448	35.120	1.96%	0.36%
			5985	5.560	35.198	5.464	35.110	1.78%	0.25%
			6000	5.567	35.191	5.480	35.100	1.59%	0.26%
			6025	5.590	35.145	5.510	35.070	1.45%	0.21%
			6065	5.631	35.050	5.557	35.022	1.33%	0.08%
			6075	5.657	35.023	5.569	35.010	1.58%	0.04%
			6085	5.679	34.994	5.580	34.998	1.77%	-0.01%
			6185	5.811	34.806	5.698	34.878	1.98%	-0.21%
			6275	5.922	34.630	5.805	34.770	2.02%	-0.40%
			6285	5.924	34.597	5.816	34.758	1.88%	-0.46%
			6305	5.944	34.597	5.840	34.734	1.78%	-0.39%
			6345	5.999	34.498	5.887	34.686	1.90%	-0.58%
			6475	6.173	34.187	6.041	34.530	2.15%	-0.99%
			6485	6.182	34.197	6.052	34.518	2.15%	-0.93%
			6500	6.186	34.266	6.070	34.500	1.91%	-0.68%
			6505	6.190	34.280	6.076	34.494	1.88%	-0.62%
			6545	6.240	34.114	6.122	34.446	1.93%	-0.96%
			6665	6.380	33.868	6.265	34.302	1.98%	-1.27%
			6675	6.404	33.886	6.273	34.290	2.09%	-1.17%
			6685	6.413	33.899	6.285	34.278	2.04%	-1.11%
			6715	6.428	33.810	6.319	34.242	1.72%	-1.26%
			6785	6.537	33.733	6.400	34.158	2.14%	-1.24%
			6825	6.533	33.593	6.447	34.110	1.33%	-1.52%
			6985	6.765	33.269	6.633	33.918	1.99%	-1.91%
			6995	6.754	33.297	6.644	33.906	1.66%	-1.80%
			7000	6.743	33.295	6.650	33.900	1.40%	-1.78%
			7005	6.733	33.280	6.656	33.894	1.16%	-1.81%
			7025	6.730	33.137	6.680	33.870	0.75%	-2.16%
07/21/2025	6000 Head	21.1	5935	5.355	34.822	5.411	35.143	-1.03%	-0.91%
			5970	5.390	34.763	5.448	35.120	-1.06%	-1.02%
			5985	5.402	34.707	5.464	35.110	-1.13%	-1.15%
			6000	5.432	34.727	5.480	35.100	-0.88%	-1.06%
			6025	5.469	34.704	5.510	35.070	-0.74%	-1.04%
			6065	5.518	34.613	5.557	35.022	-0.70%	-1.17%
			6075	5.536	34.582	5.569	35.010	-0.59%	-1.22%
			6085	5.551	34.561	5.580	34.998	-0.52%	-1.25%
			6185	5.683	34.431	5.698	34.878	-0.26%	-1.28%
			6275	5.791	34.258	5.805	34.770	-0.24%	-1.47%
			6285	5.795	34.233	5.816	34.758	-0.36%	-1.51%
			6305	5.813	34.222	5.840	34.734	-0.46%	-1.47%
			6345	5.868	34.185	5.887	34.686	-0.32%	-1.44%
			6475	6.027	33.911	6.041	34.530	-0.23%	-1.79%
			6485	6.030	33.898	6.052	34.518	-0.36%	-1.80%
			6500	6.042	33.956	6.070	34.500	-0.46%	-1.58%
			6505	6.050	33.960	6.076	34.494	-0.43%	-1.55%
			6545	6.106	33.824	6.122	34.446	-0.26%	-1.81%
			6665	6.260	33.561	6.265	34.302	-0.08%	-2.16%
			6675	6.271	33.564	6.273	34.290	-0.03%	-2.12%
			6685	6.281	33.564	6.285	34.278	-0.06%	-2.08%
			6715	6.320	33.496	6.319	34.242	0.02%	-2.18%
			6785	6.387	33.444	6.400	34.158	-0.23%	-2.09%
			6825	6.417	33.392	6.447	34.110	-0.47%	-2.10%
			6985	6.634	33.034	6.633	33.918	0.02%	-2.61%
			6995	6.636	33.038	6.644	33.906	-0.12%	-2.56%
			7000	6.641	33.033	6.650	33.900	-0.14%	-2.56%
			7005	6.644	33.034	6.656	33.894	-0.18%	-2.54%
			7025	6.661	33.028	6.680	33.870	-0.28%	-2.49%

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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9.3 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.

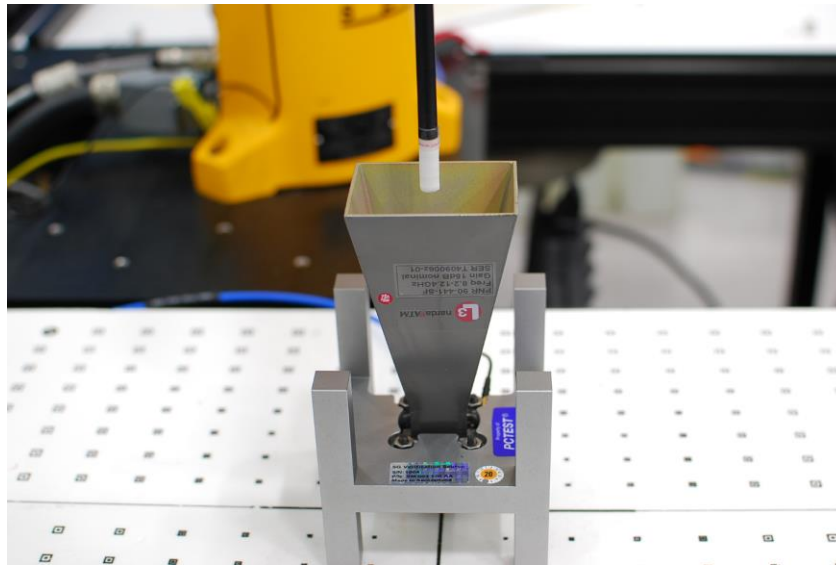


Figure 9-3
System Verification Setup Photo

Table 9-6
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	07/21/2025	1002	9389	93.3	52.70	53.80	-0.09	53.40	54.00	-0.05

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

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10 SAR DATA SUMMARY

10.1 2.4 GHz WLAN SISO Standalone SAR

Table 10-1
2.4 GHz WLAN WIFI 0 Tablet Max Power | Plot A1

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 #
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0685M	95.52	0.03	2437.00	6	6.0	18.0	17.26	Back	19	0.051	1.186	1.047	0.063	0.039	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0685M	95.52	0.03	2437.00	6	6.0	18.0	17.26	Top	19	0.045	1.186	1.047	0.056	0.035	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0685M	95.52	-0.10	2437.00	6	6.0	18.0	17.26	Bottom	0	0.037	1.186	1.047	0.046	0.029	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0685M	95.52	0.09	2437.00	6	6.0	18.0	17.26	Right	0	0.002	1.186	1.047	0.002	0.001	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0685M	95.52	-0.04	2437.00	6	6.0	18.0	17.26	Left	11	0.145	1.186	1.047	0.180	0.113	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-2
2.4 GHz WLAN WIFI 0 Laptop Max Power | Plot A2

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 #
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 0	0506M	95.52	0.05	2437.00	6	6.0	18.0	17.26	Bottom	11	0.113	1.186	1.047	0.140	0.088	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-3
2.4 GHz WLAN WIFI 1 Tablet Max Power | Plot A3

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 #
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	-0.04	2437.00	2	6.0	18.0	17.82	Back	19	0.059	1.042	1.047	0.064	0.040	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	0.06	2437.00	2	6.0	18.0	17.82	Top	19	0.046	1.042	1.047	0.050	0.031	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	0.16	2437.00	2	6.0	18.0	17.82	Bottom	0	0.035	1.042	1.047	0.038	0.024	
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	-0.05	2437.00	2	6.0	18.0	17.82	Right	11	0.173	1.042	1.047	0.189	0.118	Plot
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	0.09	2437.00	2	6.0	18.0	17.82	Left	0	0.023	1.042	1.047	0.025	0.016	
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 10-4
2.4 GHz WLAN WIFI 1 Laptop Max Power | Plot A4

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 #
Body	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	WIFI 1	0685M	95.52	0.01	2437.00	2	6.0	18.0	17.82	Bottom	0	0.018	1.042	1.047	0.020	0.013	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram							

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10.2 2.4 GHz WLAN MIMO Standalone SAR

Table 10-5
2.4 GHz WLAN MIMO Tablet Max Power | Plot A5

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	1	0685M	98.40	0.04	2452.00	9	6.0	18.0	17.38	18.0	17.90	Back	19	0.052	1.153	1.016	0.061	0.038	
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	2	0685M	98.40	0.02	2452.00	9	6.0	18.0	17.38	18.0	17.90	Back	19	0.056	1.153	1.016	0.066	0.041	
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	N/A	0685M	98.40	0.07	2452.00	9	6.0	18.0	17.38	18.0	17.90	Top	19	0.063	1.153	1.016	0.074	0.046	
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	N/A	0685M	98.40	0.07	2452.00	9	6.0	18.0	17.38	18.0	17.90	Bottom	0	0.044	1.153	1.016	0.052	0.033	
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	N/A	0685M	98.40	0.02	2452.00	9	6.0	18.0	17.38	18.0	17.90	Right	11	0.220	1.153	1.016	0.234	0.161	Plot
Body	2.4 GHz WIFV / IEEE 802.11g	20	OFDM	MIMO	N/A	0685M	98.40	0.03	2452.00	9	6.0	18.0	17.38	18.0	17.90	Left	11	0.199	1.153	1.016	0.233	0.146	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 10-6
2.4 GHz WLAN MIMO Laptop Max Power | Plot A6

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 #
Body	2.4 GHz WiFi / IEEE 802.11g	20	OFDM	MIMO	0506M	98.40	0.13	2452.00	9	6.0	18.0	17.38	18.0	17.90	Bottom	11	0.128	1.153	1.016	0.150	0.094	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

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11 SAR REFERENCE DATA SUMMARY

11.1 2.4 GHz WIFI SISO Spot-check Verification for Data Referencing

Table 11-1
2.4 GHz WLAN WIFI 0 Tablet with Grip Sensor Active | Plot A7, A8

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WIFI 0	0506M	97.90	0.04	2462.00	11	1.0	12.5	11.84	Left	0	N/A	0.781	1.164	1.021	0.936	0.895	0.580	Plot
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WIFI 0	0685M	97.90	0.05	2462.00	11	1.0	12.5	11.84	Left	0	Keyboard	0.297	1.164	1.021	0.353	0.395	0.221	Plot
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 11-2
2.4 GHz WLAN WIFI 0 Laptop with Grip Sensor Active | Plot A9

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]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	WiFi 0	0506M	97.90	0.13	2462.00	11	1.0	12.5	11.84	Bottom	0	0.352	1.164	1.021	0.418	0.331	0.261	Plot
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 11-3
2.4 GHz WLAN WIFI 1 Tablet with Grip Sensor Active | Plot A10, A11

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WIFI 1	0506M	97.90	-0.04	2437.00	6	1.0	12.5	11.55	Right	0	N/A	0.640	1.245	1.021	0.814	0.907	0.509	Plot
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	WIFI 1	0506M	97.90	-0.05	2437.00	6	1.0	12.5	11.55	Right	0	Keyboard	0.548	1.245	1.021	0.688	0.674	0.436	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-4
2.4 GHz WLAN MIMO Tablet with Grip Sensor Active | Plot A12, A13

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	0506M	99.11	0.03	2412.00	1	1.0	12.5	11.65	12.5	12.20	Right	0	N/A	0.775	1.216	1.009	0.951	1.020	0.594	Plot	
Body	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	MIMO	0685M	99.11	0.01	2412.00	1	1.0	12.5	11.65	12.5	12.20	Right	0	Keyboard	0.593	1.216	1.009	0.728	0.716	0.455	Plot	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram													
Note: To achieve the 15.5 dbm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum transmit power of 12.5 dbm.																									

Note: To achieve the 15.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.5 dBm.

Table 11-5
2.4 GHz WLAN MIMO Laptop with Grip Sensor Active | Plot A14

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]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	0506M	99.11	0.38	2462.00	11	1.0	12.5	11.90	12.5	12.06	Bottom	0	0.375	1.148	1.009	0.434	0.346	0.271	Plot
Uncontrolled Exposure/General Population															Body								
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															1.6 W/kg (mW/g) averaged over 1 gram								

Note: To achieve the 15.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.5 dBm.

Note: To achieve the 15.5 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.5 dBm.

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11.2 5 GHz WLAN SISO Standalone SAR

Table 11-6
5 GHz WLAN WIFI 0 Tablet Max Power | Plot A15, A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	WiFi 0	0515M	97.48	0.04	5845.00	169	U-NII-4	6.0	18.0	17.62	Left	11	N/A	0.358	1.091	1.026	0.401	0.503	0.251	Plot
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	WiFi 0	0515M	97.48	0.06	5845.00	169	U-NII-4	6.0	18.0	17.62	Left	11	Keyboard	0.336	1.091	1.026	0.365	N/A	0.228	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 11-7
5 GHz WLAN WIFI 0 Tablet with Grip Sensor Active | Plot A17

ure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 0	0515M	98.36	0.13	5855.00	171	U-NII-4	29.3	8.0	7.43	Back	0	0.222	1.143	1.017	0.258	0.862	0.161	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 11-8
5 GHz WLAN WIFI 0 Laptop with Grip Sensor Active | Plot A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 0	0515M	98.36	0.06	5855.00	171	U-NII-4	29.3	8.0	7.43	Bottom	0	0.234	1.143	1.017	0.240	0.221	0.163	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 11-9
5 GHz WLAN WIFI 1 Tablet Max Power | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	WiFi 1	0506M	97.48	-0.19	5500.00	100	U-NII-2C	6.0	18.0	17.98	Right	11	0.699	1.005	1.026	0.721	0.699	0.451	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 11-10
5 GHz WLAN WIFI 1 Tablet with Grip Sensor Active | Plot A20, A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	0515M	98.36	-0.02	5610.00	122	U-NII-2C	29.3	8.0	7.80	Right	0	N/A	0.594	1.047	1.017	0.393	1.000	0.595	Plot
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	0515M	98.36	-0.04	5610.00	122	U-NII-2C	29.3	8.0	7.80	Right	0	Keyboard	0.801	1.047	1.017	0.853	0.479	0.533	Plot
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	WiFi 1	0515M	98.36	-0.13	5610.00	122	U-NII-2C	29.3	8.0	7.80	Right	0	N/A	0.595	1.047	1.017	0.393	0.568	0.574	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak																		Body 1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																							

Note: Blue entry represents variability measurement

Table 11-11
5 GHz WLAN WIFI 1 Laptop Max Power | Plot A22

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	WiFi 1	0515M	97.48	0.03	5500.00	100	U-NII-2C	6.0	18.0	17.98	Bottom	0	0.014	1.005	1.026	0.014	0.025	0.009	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram					

11.3 5 GHz WLAN MIMO Standalone SAR

Table 11-12
5 GHz WLAN MIMO Tablet Max Power | Plot A23, A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	0506M	98.35	-0.09	5500.00	100	U-NII-2C	6.0	18.0	17.38	18.0	17.85	Right	11	N/A	0.732	1.153	1.017	0.858	0.726	0.536	Plot
Body	5 GHz WiFi / IEEE 802.11a	20	OFDM	MIMO	0506M	98.35	0.10	5500.00	100	U-NII-2C	6.0	18.0	17.38	18.0	17.85	Right	11	Antenna 2	0.988	1.153	1.017	0.884	0.540	0.426	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

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Table 11-13
5 GHz WLAN MIMO Tablet with Grip Sensor Active | Plot A25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Peak Number	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dbm]	Conducted Power [dbm]	Max Allowed Power (2nd ant) [dbm]	Conducted Power (2nd ant) [dbm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5.GHz WFI / IEEE 802.11ac	80	OFDM	MIMO	1	0506M	98.57	0.00	5690.00	138	U-NII-2C	58.5	8.0	7.50	8.0	7.20	Back	0	0.294	1.202	1.035	0.359	0.774	0.224	
Body	5.GHz WFI / IEEE 802.11ac	80	OFDM	MIMO	2	0506M	98.57	0.03	5690.00	138	U-NII-2C	58.5	8.0	7.50	8.0	7.20	Back	0	0.240	1.202	1.035	0.435	0.579	0.259	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				Body					
Spatial Peak																				1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																				averaged over 1 gram					

Note: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.

Table 11-14
5 GHz WLAN MIMO Tablet with 2.4 GHz WLAN Active | Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WFI / IEEE 802.11ac	80	OFDM	MIMO	0506M	98.57	-0.13	5290.00	58	U-NII-2A	58.5	5.0	4.35	5.0	4.12	Right	0	0.334	1.225	1.035	0.435	0.396	0.259	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						Body 1.6 W/kg (mW/g) averaged over 1 gram		

Note: To achieve the 8 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.

Table 11-15
5 GHz WLAN MIMO Laptop with Grip Sensor Active | Plot A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	5 GHz WFI / IEEE 802.11ac	80	OFDM	MIMO	0513M	98.57	-0.08	5955.00	171	U-NII-4	58.5	8.0	7.40	8.0	7.79	Bottom	0	0.232	1.125	1.035	0.265	0.344	0.166	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						Body 1.6 W/kg (mW/g) averaged over 1 gram		

Note: To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 8 dBm.

11.4 6 GHz SISO Standalone SAR and APD

Table 11-16
6 GHz WLAN WIFI 0 Tablet Max Power | Plot A28

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]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI/ IEEE 802.11ax	80	OFDM	WIFI 0	0506M	97.74	-0.14	5985.00	7	34.0	14.0	13.54	Left	11	0.087	1.112	1.023	0.099	0.060	0.062	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																					

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model (1g) [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WFI / IEEE 802.11ax	80	OFDM	WIFI 0	0506M	97.74	-0.14	5985.00	7	34.0	14.0	13.54	Left	11	0.661	1.112	1.023	0.752	0.360	0.038	Plot

Table 11-17
6 GHz WLAN WIFI 0 Tablet with Grip Sensor Active | Plot A29, A30, A31

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0697M	97.81	0.07	6025.00	15	68.1	7.0	6.45	Left	0	N/A	0.374	1.135	1.022	0.454	0.310	0.271	Plot
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0697M	97.81	0.07	6025.00	25	68.1	7.0	6.45	Left	0	Keyboard	0.346	1.135	1.022	0.369	N/A	0.106	Plot
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0506M	97.81	0.09	6345.00	79	68.1	7.0	6.10	Left	0	N/A	0.340	1.230	1.022	0.427	0.392	0.267	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body 1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak Uncontrolled Exposure/General Population																						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model (1g) [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0697M	97.81	0.07	6025.00	15	68.1	7.0	6.45	Left	0	N/A	1.830	1.135	1.022	2.123	1.525	0.106	Plot
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0697M	97.81	0.07	6025.00	15	68.1	7.0	6.45	Left	0	Keyboard	0.886	1.135	1.022	1.028	N/A	0.051	Plot
Body	6 GHz WFI / IEEE 802.11ax	160	OFDM	WIFI 0	0506M	97.81	0.09	6345.00	79	68.1	7.0	6.10	Left	0	N/A	1.760	1.230	1.022	2.212	1.891	0.111	Plot

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Table 11-18
6 GHz WLAN WIFI 0 Laptop with Grip Sensor Active | Plot A32

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]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WiFi 0	0506M	97.81	-0.05	6025.00	15	68.1	7.0	6.45	Bottom	0	0.079	1.135	1.022	0.092	0.055	0.058	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	WiFi 0	0506M	97.81	-0.05	6025.00	15	68.1	7.0	6.45	Bottom	0	0.504	1.135	1.022	0.585	0.344	0.029	Plot

Table 11-19
6 GHz WLAN WIFI 1 Tablet Max Power | Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	WiFi 1	0697M	98.24	0.01	6705.00	151	34.0	14.0	13.80	Right	11	0.040	1.047	1.018	0.043	0.168	0.027	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	WiFi 1	0697M	98.24	0.01	6705.00	151	34.0	14.0	13.80	Right	11	0.348	1.047	1.018	0.371	1.438	0.019	Plot

Table 11-20
6 GHz WLAN WIFI 1 Tablet with Grip Sensor Active | Plot A34, A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi/IEEE 802.11ax	160	OFDM	WiFi 1	0506M	97.33	0.02	6025.00	15	68.1	7.0	6.26	Right	0	N/A	0.285	1.186	1.027	0.347	0.333	0.217	Plot
Body	6 GHz WiFi/IEEE 802.11ax	160	OFDM	WiFi 1	0506M	97.33	0.03	6025.00	15	68.1	7.0	6.26	Right	0	Keyboard	0.129	1.186	1.027	0.137	0.202	0.098	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									
Exposure	Band/ Mode	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]	Add'l Info	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi/IEEE 802.11ax	160	OFDM	WiFi 1	0506M	97.33	0.02	6025.00	15	68.1	7.0	6.26	Right	0	N/A	1.510	1.186	1.027	1.839	1.840	0.092	Plot
Body	6 GHz WiFi/IEEE 802.11ax	160	OFDM	WiFi 1	0506M	97.33	0.03	6025.00	15	68.1	7.0	6.26	Right	0	Keyboard	0.834	1.186	1.027	0.991	1.594	0.050	Plot

Table 11-21
6 GHz WLAN WIFI 1 Laptop | Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	WiFi 1	0506M	98.24	0.07	6705.00	151	34.0	14.0	13.80	Bottom	0	0.016	1.047	1.018	0.017	0.006	0.011	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	WiFi 1	0506M	98.24	0.07	6705.00	151	34.0	14.0	13.80	Bottom	0	0.138	1.047	1.018	0.147	0.052	0.007	Plot

11.5 6 GHz MIMO Standalone SAR and APD

Table 11-22
6 GHz WLAN MIMO Tablet Max Power | Plot A37

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]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	80	OFDM	MIMO	0506M	98.36	0.03	5985.00	7	68.1	14.0	13.39	14.0	13.70	Right	11	0.194	1.151	1.017	0.227	0.202	0.142	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram								
Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.																							
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	Reported APD from Reference Model [1g] [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	MIMO	0506M	98.35	0.03	5985.00	7	68.1	14.0	13.39	14.0	13.70	Right	11	1.530	1.151	1.017	1.885	1.681	0.094	Plot

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

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Table 11-23
6 GHz WLAN MIMO Tablet with Grip Sensor Active or 2.4 GHz WLAN Active | Plot A38, A39

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.03	6025.00	15	136.1	7.0	6.90	7.0	6.30	Right	0	N/A	0.311	1.230	1.016	0.389	0.282	0.243	Plot
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.06	6025.00	15	136.1	7.0	6.90	7.0	6.30	Right	0	Keyboard	0.150	1.230	1.016	0.187	0.201	0.117	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 7 dBm.

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported APO from Reference Model [W/m² (4cm²)]	APO Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.03	6025.00	15	136.1	7.0	6.90	7.0	6.30	Right	0	N/A	1.960	1.230	1.016	2.074	1.505	0.104	Plot
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.06	6025.00	15	136.1	7.0	6.90	7.0	6.30	Right	0	Keyboard	0.960	1.230	1.016	1.200	1.208	0.060	Plot

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 7 dBm.

Table 11-24
6 GHz WLAN MIMO Laptop with Grip Sensor Active | Plot A40

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.02	6025.00	15	136.1	7.0	6.90	7.0	6.10	Bottom	0		0.101	1.230	1.016	0.126	0.063	0.079	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 7 dBm.

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Add'l Info	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	Reported APO from Reference Model [W/m² (4cm²)]	APO Exposure Ratio	Plot #
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	0506M	98.41	0.02	6025.00	15	136.1	7.0	6.90	7.0	6.10	Bottom	0		0.662	1.230	1.016	0.827	0.363	0.041	Plot

Note: To achieve the 10 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 7 dBm.

11.6 Bluetooth SISO Standalone SAR

Table 11-25
Bluetooth WIFI 0 Tablet Max Power | Plot A41

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]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	0506M	76.80	0.03	2402.00	0	1	15.5	14.85	Left	11	0.010	1.161	1.016	0.012	0.014	0.008	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-26
Bluetooth WIFI 0 Tablet with Grip Sensor Active | Plot A42, A43

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WiFi 0	0506M	76.80	0.01	2441.00	39	1	10.5	10.41	Left	0	N/A	0.305	1.021	1.016	0.316	0.316	0.198	Plot
Body	2.4 GHz Bluetooth	FHSS	WiFi 0	0506M	76.80	0.04	2441.00	39	1	10.5	10.41	Left	0	Keyboard	0.305	1.021	1.016	0.109	0.139	0.068	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-27
Bluetooth WIFI 0 Laptop with Grip Sensor Active | Plot A44

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]	Reported SAR from Reference Model (1g) [W/kg]	Exposure Ratio (1g SAR)	Plot #	
Body	2.4 GHz Bluetooth	FHSS	WIFI 0	0506M	76.80	0.05	2441.00	39	1	10.5	10.41	Bottom	0	0.087	1.021	1.016	0.090	0.130	0.056	Plot	
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 11-28
Bluetooth WIFI 1 Tablet Max Power | Plot A45

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]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	0506M	76.80	-0.08	2402.00	0	1	15.5	14.59	Right	11	0.059	1.233	1.016	0.074	0.077	0.046	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-29
Bluetooth WIFI 1 Tablet with Grip Sensor Active | Plot A46, A47

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]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	0506M	76.80	0.01	2441.00	39	1	9.0	8.69	Right	0	N/A	0.227	1.074	1.016	0.248	0.268	0.155	Plot
Body	2.4 GHz Bluetooth	FHSS	WiFi 1	0506M	76.80	0.02	2441.00	39	1	9.0	8.69	Right	0	Keyboard	0.114	1.074	1.016	0.124	0.237	0.078	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-30
Bluetooth WIFI 1 Laptop | Plot A48

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]	Reported SAR from Reference Model [1g] [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	WIFI 1	0506M	76.80	-0.11	2402.00	0	1	15.5	14.59	Bottom	11	0.051	1.233	1.016	0.064	0.000	0.040	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.7 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the tablet with the tablet touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
- Per FCC KDB 616217 D04, SAR is evaluated for the bottom surface of a keyboard when it is attached to the DUT in laptop configuration.
- Per FCC KDB 648474 D04, highest reported SAR tablet configuration for a transmission band on an antenna was additionally evaluated with keyboard accessory attached and folded back at 360°
- The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
- Peak number 1 and 2 correspond to WIFI 0 and WIFI 1 of DUT respectively

WLAN Notes:

- 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/be) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.2.4 for more information.
- 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

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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 7.2.5 for more information.

3. 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 the Simultaneous Numerical Calculations Appendix for complete analysis.
4. 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.
5. 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.
6. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 78% transmission duty factor for Bluetooth. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.

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12 POWER DENSITY DATA SUMMARY

12.1 6 GHz WIFI Power Density Results

Table 10-1
6 GHz WLAN Tablet | Plot A49

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 Dntrl (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal pAPD (W/m²)	Scaled Normal pAPD (W/m²)	Total pAPD (W/m²)	Scaled Total pAPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	7.00	6.45	N/A	N/A	0.17	2	WIFI 0	0697M	68.1	Left	97.81	0.05	-	1.554	1.135	1.022	0.705	1.271	0.889	1.603	
6025.00	15	802.11ax	OFDM	160	N/A	N/A	7.00	6.26	0.13	2	WIFI 1	0697M	68.1	Right	97.33	0.05	-	1.554	1.186	1.027	1.440	2.726	1.710	3.237	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.90	7.00	6.10	0.03	2	MIMO	0697M	136.1	Right	96.41	0.05	0.572	1.554	1.230	1.016	0.786	1.526	1.030	2.000	
6025.00	15	802.11ax	OFDM	160	7.00	6.90	7.00	6.10	-0.13	9.95	MIMO	0697M	136.1	Right	96.41	0.125	0.525	1.554	1.230	1.016	0.513	0.996	0.960	1.088	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²													

Table 10-2
6 GHz WLAN Laptop | Plot A50

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal pAPD (W/m²)	Scaled Normal pAPD (W/m²)	Total pAPD (W/m²)	Scaled Total pAPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	7.00	6.45	N/A	N/A	-0.13	2	WIFI 0	0697M	68.1	Bottom	97.81	0.05	-	1.554	1.135	1.022	0.204	0.368	0.214	0.386	
6705.00	151	802.11ax	OFDM	80	N/A	N/A	14.00	13.80	0.15	2	WIFI 1	0697M	68.1	Bottom	96.24	0.05	-	1.554	1.047	1.018	0.025	0.041	0.027	0.045	
6025.00	15	802.11ax	OFDM	160	7.00	6.90	7.00	6.10	-0.20	2	MIMO	0697M	136.1	Bottom	96.41	0.05	0.538	1.554	1.230	1.016	0.479	0.930	0.530	1.029	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.90	7.00	6.10	0.05	9.95	MIMO	0697M	136.1	Bottom	96.41	0.125	0.362	1.554	1.230	1.016	0.213	0.414	0.238	0.462	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population												Power Density 10 W/m² averaged over 4 cm²													

Power Density General Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PTP-PR algorithm was used during psPD measurement and calculations.
8. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.
9. Peak number 1 and 2 correspond to WIFI 0 and WIFI 1 of DUT respectively

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13 SAR MEASUREMENT VARIABILITY

13.1 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

Table 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
5600	5610.00	122	5 GHz WiFi/IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Right	0.00	WiFi 1	0.894	0.862	1.04	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram							

13.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g 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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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Rohde & Schwarz	FSVA3044	Signal and Spectrum Analyzer	1/29/2025	Annual	1/29/2026	C01469
Agilent	E4438C	ESG Vector Signal Generator	10/23/2024	Annual	10/23/2025	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2024	Annual	11/15/2025	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	12/5/2024	Annual	12/5/2025	US46240505
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	9/25/2024	Annual	9/25/2025	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	9/5/2024	Annual	9/5/2025	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/21/2024	Annual	10/21/2025	1027293
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344545
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	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
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/5/2024	Annual	11/5/2025	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/7/2024	Annual	8/7/2025	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Annual	8/7/2025	719
SPEAG	D2450V2	2450 MHz SAR Dipole	11/7/2024	Annual	11/7/2025	981
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/17/2024	Biennial	1/17/2026	1191
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/6/2024	Annual	12/6/2025	1018
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/4/2024	Annual	12/4/2025	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	1449
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/27/2025	Annual	2/7/2026	1638
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	12/5/2024	Annual	12/5/2025	7410
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
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: 1) All equipment was used solely within its respective calibration period. 2) 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.

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15 MEASUREMENT UNCERTAINTIES

Applicable for SAR Measurements < 6 GHz:

Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	f(d,k)	c _i 1gm	c _i 10 gms	c x f/e 1gm u _i (± %)	c x g/e 10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for SAR Measurements > 6 GHz:

				f(d,k)			c x f/e	c x g/e	
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

The above measurement uncertainties are according to IEEE Std. 1528-2013

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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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16 CONCLUSION

16.1 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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