



RF EXPOSURE TEST REPORT

Applicant Name:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052 USA

Date of Testing:
12/15/2025-03/03/2026
Test Site/Location:
Element Washington DC LLC,
Columbia, MD, USA
Document Serial No.:
1M2511240098-01.C3K

FCC ID: C3K2076

APPLICANT: MICROSOFT CORPORATION

DUT Type: Portable Computing Device
Application Type: Class II Permissive Change
FCC Rule Part(s): CFR §2.1093
Model(s): 2076
Reference FCC ID: C3K2085
Permissive Change(s): Please see change document

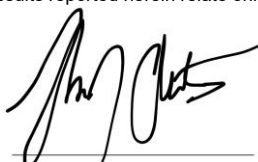
Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Body (W/kg)	
DTS	2.4 GHz WIFI	2412 - 2472 MHz	0.71	
NII	5 GHz WIFI	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz	0.67	
6CD	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	0.62	
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.79	
Simultaneous SAR per KDB 690783 D01v01r03:			1.59	
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²) Body	Reported PD (W/m ²)
6CD	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	4.83	7.01

Note: This table above includes test data from RF exposure technical report S/N: 1M2511200095-01.C3K per FCC TCB workshop for data referencing of closely related product APPENDIX G (FCC ID C3K2085)

Only operations relevant to this permissive change were evaluated for compliance. Please see the original compliance evaluation in RF Exposure Technical Report S/N: 1M2311170118-01.C3K(R1) for complete evaluation of all other operating modes. The operation description includes a description of all changed items.

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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Revision	Description	Issue Date	Revised By
-	Initial Release	03/19/2026	WKR017811

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APPENDIX G: [FOR DATA REFERENCING] C3K2085 C2PC FCC RF Exposure Part 0, Part 1, Part 2 Test Reports		

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1 TEST LABORATORY INFORMATION

1.1 Introduction

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

1.2 Test Laboratory Information

1.2.1 Testing Laboratory 1

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

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2 DEVICE UNDER TEST

2.1 Device Overview

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

2.2 Data Referencing

Reference Device		Variant Device	Key differences
FCC ID: C3K2085		FCC ID: C3K2076	Removed components for NFC (see KDB Inquiry 731334 exhibit for Data Referencing)
Equipment Class	Mode	Data Referencing	Comments
DTS	2.4 GHz WIFI	Y	See SAR Report Section 10.1 for spot-check data
NII	5 GHz WIFI	Y	See SAR Report Section 10.2 for spot-check data
6CD	6 GHz WIFI	Y	See SAR Report Section 10.3 for spot-check data
DSS	2.4 GHz BT	Y	See SAR Report Section 10.4 for spot-check data
DXX	NFC	N	Removed in variant device

Per manufacturer declaration, there are two devices FCC ID: C3K2085 and FCC ID: C3K2076, with high degree of similarity, reference model FCC ID: C3K2085 and variant model FCC ID: C3K2076. 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 power tables and have same tune-up tolerances.

Per FCC Approved Data Referencing Test Plan, testing was done fully on the reference model FCC ID: C3K2085, while spot-check verification has been performed on variant model FCC ID: C3K2076. The reference and variant model comparison data summary is included in section 10. Please see RF exposure technical reports in Appendix G: for complete compliance evaluation for the reference model.

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2.3 Time-Averaging Algorithm for RF Exposure Compliance

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

Note that Bluetooth operations are not enabled with TAS.

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

FastConnect TAS allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows Final P_{limit} settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI for FastConnect.)

			Maximum Tune-Up Output Power*	Body
Exposure Scenario				1g
Averaging Volume				0mm
Spacing				1
DSI				
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}
2.4 GHz WIFI	R	AG0	20.0	17.25
2.4 GHz WIFI	L	AG1	20.0	17.25
5 GHz WIFI UNII-1	R	AG0	16.5	15.75
5 GHz WIFI UNII-1	L	AG1	16.5	16.25
5 GHz WIFI UNII-2A	R	AG0	16.5	15.25
5 GHz WIFI UNII-2A	L	AG1	16.5	16.25
5 GHz WIFI UNII-2C	R	AG0	17.0	14.50
5 GHz WIFI UNII-2C	L	AG1	17.0	14.00
5 GHz WIFI UNII-3	R	AG0	19.5	14.00
5 GHz WIFI UNII-3	L	AG1	19.5	14.00
5 GHz WIFI UNII-4	R	AG0	16.5	14.00
5 GHz WIFI UNII-4	L	AG1	16.5	13.75
6 GHz WIFI UNII-5	R	AG0	16.5	12.75
6 GHz WIFI UNII-5	L	AG1	16.5	13.25
6 GHz WIFI UNII-6	R	AG0	7.5	7.50
6 GHz WIFI UNII-6	L	AG1	7.5	7.50
6 GHz WIFI UNII-7	R	AG0	17.0	12.75
6 GHz WIFI UNII-7	L	AG1	17.0	13.75
6 GHz WIFI UNII-8	R	AG0	7.5	7.50
6 GHz WIFI UNII-8	L	AG1	7.5	7.50

Notes:

1. MIMO is not included in SAR CHAR due to the two antennas being in separate Antenna Groups.
2. Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.
3. The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

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2.4 Power Reduction for SAR

This device used an independent fixed level power reduction mechanism for BT when the device is used in portable configuration and motion is sensed. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.5 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 D01v01.

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

2.5.1 2.4 GHz SISO/MIMO WLAN Output Powers

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion)

Band	IEEE 802.11 Modulated Frame Output Power (in dBm)																							
	SISO / SISO in MIMO												SISO / SISO in MIMO											
	Antenna R						Antenna L						Antenna R						Antenna L					
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.
2.4 GHz WLAN 20MHz	ch. 1: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 2: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 3: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 4: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 5: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 6: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 7: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 8: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 9: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 10: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 11: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 12: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 13: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00

- DSI=1 (Motion)

Band	IEEE 802.11 Modulated Frame Output Power (in dBm)																							
	SISO / SISO in MIMO												SISO / SISO in MIMO											
	Antenna R						Antenna L						Antenna R						Antenna L					
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.
2.4 GHz WLAN 20MHz	ch. 1: 18.25	17.25	18.25	17.25	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.25	17.25	18.25	17.25	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 2: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 3: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 4: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 5: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 6: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 7: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 8: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 9: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 10: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 11: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 12: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00
	ch. 13: 18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00

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2.5.2 5 GHz SISO/MIMO WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna R										Antenna L									
		a		n		as (SU)		bs (SU)		a		n		ac		as (SU)		bs (SU)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WFI (20MHz BW)	UNII-1	17.00	16.00	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.00	16.00	17.50	16.50	17.50	16.50	17.50	16.50		
	UNII-2A	17.50	16.00	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.00	16.00	17.50	16.50	17.50	16.50	17.50	16.50		
	UNII-2C	ch. 64: 15.00 17.00	16.00	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.00	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.50	ch. 64: 15.00 17.00	16.50		
	UNII-3	ch. 144: 17.00 16.00	16.00	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.00	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.50	ch. 144: 17.00 16.00	16.50		
5 GHz WFI (40MHz BW)	UNII-1	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50	20.50	19.50		
	UNII-2A	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00	ch. 149: 15.00 14.50	14.00		
	UNII-2C	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-3	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
5 GHz WFI (80MHz BW)	UNII-1	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
	UNII-2A	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
	UNII-2C	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00		
	UNII-3	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50		
5 GHz WFI (160MHz BW)	UNII-1	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2A	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2C	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00	18.00	17.00		
	UNII-3	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00		

- DSI=1 (Motion)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna R										Antenna L									
		a		n		as (RU)		bs (RU)		a		n		ac		as (RU)		bs (RU)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
5 GHz WiFi (20MHz BW)	UNII-1	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	16.75	15.75	17.00	16.00	17.25	16.25	17.25	16.25	17.25	16.25	17.25	
	UNII-2A	ch. 64: 15.00	16.25	15.00	16.25	14.00	15.00	ch. 64: 15.00	16.25	14.00	15.00	ch. 64: 15.00	16.25	14.00	15.00	ch. 64: 15.00	16.25	14.00	15.00	16.25	
	UNII-2C	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
	UNII-3	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
5 GHz WiFi (40MHz BW)	UNII-1	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2A	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
	UNII-2C	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
	UNII-3	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		
5 GHz WiFi (80MHz BW)	UNII-1	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2A	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2C	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50	ch. 106: 13.50	12.50		
	UNII-3	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00	13.00	12.00		
5 GHz WiFi (160MHz BW)	UNII-12A	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50	14.50	13.50		
	UNII-2C	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50	13.50	12.50		
	UNII-3	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50	12.50	11.50		

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2.5.3 6 GHz SISO/MIMO WLAN SP Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna R						Antenna L					
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)			
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - SP	UNII-5	15.50 ch. 2: 7.00	14.50 6.00	16.50 ch. 2: 7.00	15.50 6.00	16.50 ch. 2: 7.00	15.50 6.00	15.50 ch. 2: 7.00	14.50 6.00	16.50 ch. 2: 7.00	15.50 6.00	16.50 ch. 2: 7.00	15.50 6.00
	UNII-7	16.50	15.50	17.00	16.00	17.00	16.00	16.50	15.50	17.00	16.00	17.00	16.00
6 GHz WIFI (40MHz BW) - SP	UNII-5			17.50	16.50	17.50	16.50			17.50	16.50	17.50	16.50
	UNII-7			18.00	17.00	18.00	17.00			18.00	17.00	18.00	17.00
6 GHz WIFI (80MHz BW) - SP	UNII-5			ch. 179: 15.00	14.00	ch. 179: 15.00	14.00			ch. 179: 15.00	14.00	ch. 179: 15.00	14.00
	UNII-7			16.00	15.00	16.00	15.00			16.00	15.00	16.00	15.00
6 GHz WIFI (160MHz BW) - SP	UNII-5			18.00	17.00	18.00	17.00			18.00	17.00	18.00	17.00
	UNII-7			16.00	15.00	16.00	15.00			16.00	15.00	16.00	15.00
6 GHz WIFI (320MHz BW) - SP	UNII-5			17.50	16.50	17.50	16.50			17.50	16.50	17.50	16.50
	UNII-7												

- DSI=1 (Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)													
		SISO / SISO in MIMO						SISO / SISO in MIMO							
		Antenna R						Antenna L							
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)					
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
6 GHz WIFI (20MHz BW) - SP	UNII-5	13.75 ch. 2: 7.00	12.75 6.00	13.75 ch. 2: 7.00	12.75 6.00	13.75 ch. 2: 7.00	12.75 6.00	14.25 ch. 2: 7.00	13.25 6.00	14.25 ch. 2: 7.00	13.25 6.00	14.25 ch. 2: 7.00	13.25 6.00		
	UNII-7	13.75	12.75	13.75	12.75	13.75	12.75	14.75	13.75	14.75	13.75	14.75	13.75		
6 GHz WIFI (40MHz BW) - SP	UNII-5			13.75	12.75	13.75	12.75			14.25	13.25	14.25	13.25		
	UNII-7			13.75	12.75	13.75	12.75			14.75	13.75	14.75	13.75		
6 GHz WIFI (80MHz BW) - SP	UNII-5			13.75	12.75	13.75	12.75			14.25	13.25	14.25	13.25		
	UNII-7			13.75	12.75	13.75	12.75			14.75	13.75	14.75	13.75		
6 GHz WIFI (160MHz BW) - SP	UNII-5			13.75	12.75	13.75	12.75			14.25	13.25	14.25	13.25		
	UNII-7			13.75	12.75	13.75	12.75			14.75	13.75	14.75	13.75		
6 GHz WIFI (320MHz BW) - SP	UNII-5					13.75	12.75							14.25	13.25

2.5.4 6 GHz SISO/MIMO WLAN LPI Output Power

The below table is applicable in the following conditions:

- Pmax, DSI=0 (No Motion), DSI=1 (Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna R						Antenna L					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WIFI (20MHz BW) - LPI	UNII-5	-1.00	-2.00	-1.00	-2.00	-1.00	-2.00	-1.00	-2.00	-1.00	-2.00	-1.00	-2.00
	UNII-6	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50
	UNII-7	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50	-1.50	-2.50
	UNII-8	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
6 GHz WIFI (40MHz BW) - LPI	UNII-5			2.50	1.50	2.50	1.50			2.50	1.50	2.50	1.50
	UNII-6			1.50	0.50	1.50	0.50			1.50	0.50	1.50	0.50
	UNII-7			3.00	2.00	3.00	2.00			3.00	2.00	3.00	2.00
	UNII-8			3.00	2.00	3.00	2.00			3.00	2.00	3.00	2.00
6 GHz WIFI (80MHz BW) - LPI	UNII-5			4.00	3.00	4.00	3.00			4.00	3.00	4.00	3.00
	UNII-6			4.50	3.50	4.50	3.50			4.50	3.50	4.50	3.50
	UNII-7			5.50	4.50	5.50	4.50			5.50	4.50	5.50	4.50
	UNII-8			ch. 119: 4.50	3.50	ch. 119: 4.50	3.50			ch. 119: 4.50	3.50	ch. 119: 4.50	3.50
6 GHz WIFI (160MHz BW) - LPI	UNII-5			5.50	4.50	5.50	4.50			5.50	4.50	5.50	4.50
	UNII-6			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-7			8.00	7.00	8.00	7.00			8.00	7.00	8.00	7.00
	UNII-8			8.00	7.00	8.00	7.00			8.00	7.00	8.00	7.00
6 GHz WIFI (320MHz BW) - LPI	UNII-5					9.00	8.00					9.00	8.00
	UNII-6					8.50	7.50					8.50	7.50
	UNII-7					8.50	7.50					8.50	7.50
	UNII-8					8.50	7.50					8.50	7.50

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2.5.5 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

- No Motion

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Beam Forming Mode	
		Antenna R		Antenna L		Beam Forming	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	19.50	17.50	19.50	17.50	17.00	15.00
Bluetooth EDR	2Mbps	17.50	15.50	17.50	15.50	13.00	11.00
Bluetooth EDR	3Mbps	17.50	15.50	17.50	15.50	13.00	11.00
Bluetooth LE	1Mbps	20.50	18.50	20.50	18.50	15.50	13.50
Bluetooth LE	2Mbps	20.50	18.50	20.50	18.50	15.50	13.50
Bluetooth LE	125kbps	12.00	10.00	12.00	10.00	N/A	N/A
Bluetooth LE	500kbps	12.00	10.00	12.00	10.00	N/A	N/A

2.5.6 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- Motion sensor active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Beam Forming Mode	
		Antenna R		Antenna L		Beam Forming	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	19.25	17.25	19.25	17.25	17.00	15.00
Bluetooth EDR	2Mbps	17.50	15.50	17.50	15.50	13.00	11.00
Bluetooth EDR	3Mbps	17.50	15.50	17.50	15.50	13.00	11.00
Bluetooth LE	1Mbps	19.25	17.25	19.25	17.25	15.50	13.50
Bluetooth LE	2Mbps	19.25	17.25	19.25	17.25	15.50	13.50
Bluetooth LE	125kbps	12.00	10.00	12.00	10.00	N/A	N/A
Bluetooth LE	500kbps	12.00	10.00	12.00	10.00	N/A	N/A

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The below table is applicable in the following conditions:

- Motion sensor active and WLAN active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Beam Forming Mode	
		Antenna R		Antenna L		Beam Forming	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	14.00	12.00	14.00	12.00	14.00	12.00
Bluetooth EDR	2Mbps	14.00	12.00	14.00	12.00	13.00	11.00
Bluetooth EDR	3Mbps	14.00	12.00	14.00	12.00	13.00	11.00
Bluetooth LE	1Mbps	14.00	12.00	14.00	12.00	14.00	12.00
Bluetooth LE	2Mbps	14.00	12.00	14.00	12.00	14.00	12.00
Bluetooth LE	125kbps	12.00	10.00	12.00	10.00	N/A	N/A
Bluetooth LE	500kbps	12.00	10.00	12.00	10.00	N/A	N/A

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2.6 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
R	Yes	No	Yes	No	Yes	No
L	Yes	No	Yes	No	No	Yes

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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2.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v01, 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 D01v01 4.3.2 procedures.

**Table 2-2
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Laptop	Tablet
1	2.4 GHz WLAN MIMO	Yes	Yes
2	5 GHz WLAN MIMO	Yes	Yes
3	6 GHz WLAN MIMO	Yes	Yes
4	2.4 GHz Bluetooth Beam Forming	Yes	Yes
5	2.4 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
6	2.4 GHz Bluetooth Ant R + 2.4 GHz WLAN Ant L	Yes	Yes
7	5 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
8	6 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
9	2.4 GHz Bluetooth Ant R + 5 GHz WLAN Ant L	Yes	Yes
10	2.4 GHz Bluetooth Ant R + 6 GHz WLAN Ant L	Yes	Yes
11	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant R	Yes	Yes
12	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant R	Yes	Yes
13	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant L	Yes	Yes
14	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant L	Yes	Yes
15	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes
16	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes
17	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant R	Yes	Yes
18	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant R	Yes	Yes
19	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant L	Yes	Yes
20	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant L	Yes	Yes
21	2.4 GHz Bluetooth Ant R + 2.4 GHz WLAN Ant L + 5 GHz WLAN Ant L	Yes	Yes
22	2.4 GHz Bluetooth Ant R + 2.4 GHz WLAN Ant L + 6 GHz WLAN Ant L	Yes	Yes
23	2.4 GHz WLAN Ant R + 5 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
24	2.4 GHz WLAN Ant R + 6 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
25	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant R + 2.4 GHz WLAN Ant L	Yes	Yes
26	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant R + 2.4 GHz WLAN Ant L	Yes	Yes
27	5 GHz WLAN MIMO + 2.4 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
28	6 GHz WLAN MIMO + 2.4 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant L	Yes	Yes
29	2.4 GHz WLAN Ant R + 5 GHz WLAN Ant L	Yes	Yes
30	2.4 GHz WLAN Ant R + 6 GHz WLAN Ant L	Yes	Yes
31	5 GHz WLAN Ant R + 2.4 GHz WLAN Ant L	Yes	Yes
32	6 GHz WLAN Ant R + 2.4 GHz WLAN Ant L	Yes	Yes
33	5 GHz WLAN Ant L + 2.4 GHz Bluetooth Ant L	Yes	Yes
34	6 GHz WLAN Ant L + 2.4 GHz Bluetooth Ant L	Yes	Yes
35	5 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant R	Yes	Yes
36	6 GHz WLAN Ant R + 2.4 GHz Bluetooth Ant R	Yes	Yes
37	2.4 GHz WLAN MIMO + 5 GHz WLAN Ant R	Yes	Yes
38	2.4 GHz WLAN MIMO + 6 GHz WLAN Ant R	Yes	Yes
39	2.4 GHz WLAN MIMO + 5 GHz WLAN Ant L	Yes	Yes
40	2.4 GHz WLAN MIMO + 6 GHz WLAN Ant L	Yes	Yes
41	2.4 GHz WLAN Ant L + 5 GHz WLAN Ant L	Yes	Yes
42	2.4 GHz WLAN Ant L + 6 GHz WLAN Ant L	Yes	Yes
43	2.4 GHz WLAN Ant R + 5 GHz WLAN Ant R	Yes	Yes
44	2.4 GHz WLAN Ant R + 6 GHz WLAN Ant R	Yes	Yes
45	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes	Yes
46	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes	Yes

- 2.4 GHz WLAN Antenna R and 2.4 GHz Bluetooth Ant R share the same antenna path and cannot transmit simultaneously.
- 2.4 GHz WLAN Antenna L and 2.4 GHz Bluetooth Ant L share the same antenna path and cannot transmit simultaneously.
- 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
- This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
- This device supports Bluetooth Tethering.

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2.8 Miscellaneous SAR Test Considerations

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/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6 GHz
- b) Up to 160 MHz Bandwidth only for 5 GHz
- c) Up to 40 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

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.

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 0mm and measured at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%.

Per FCC Guidance, 802.11ax/be RU was considered a higher order 802.11 mode when compared to a/b/g/n/ac/be to apply KDB Publication 248227 D01v02r02 for OFDM mode selection. Therefore, SAR tests were not required for 802.11ax/be 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.

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.

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2.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (Interim General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 616217 D04v01r02 (Tablet/Laptop)
- FCC KDB 648474 D04 (Accessories)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax)
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)

2.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR and PD 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.

2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 0 Test Report – Reference Model	Appendix G: Part 0
RF Exposure Part 1 Test Report – Reference Model	Appendix G: Part 1
RF Exposure Part 2 Test Report – Reference Model	Appendix G: Part 2
RF Exposure Part 1 Test Report – Original Filing	1M2312190129-01.C3K(R1)
RF Exposure Compliance Summary Report	1M2511240098-03.C3K

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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.

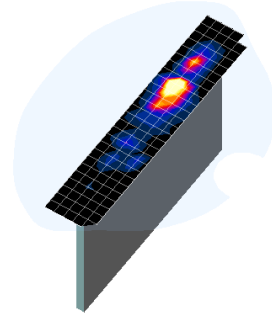


Figure 4-1
Sample SAR Area
Scan

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, the back surface and edges of the portable computing devices 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 device 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.

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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.

6.3 RF Exposure Limits for Frequencies Below 6 GHz

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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6.4 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/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 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/cm^2 is 10 W/m^2

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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 D01v01, 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 Initial Test Position Procedure

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

7.2.5 2.4 GHz SAR Test Requirements

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

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

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

7.2.6 OFDM Transmission Mode and SAR Test Channel Selection

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

7.2.7 Initial Test Configuration Procedure

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

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When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.2.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.2.8 Subsequent Test Configuration Procedures

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

7.2.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v01 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 for Data Referencing

Table 8-1

2.4 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R LCD

2.4GHz WIFI (20MHz 802.11b SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2457	10	Average	17.99

Table 8-2

2.4 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R OLED

2.4GHz WIFI (20MHz 802.11b SISO ANT R)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2457	10	Average	18.19

Table 8-3

2.4 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L LCD

2.4GHz WIFI (20MHz 802.11b SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2422	3	Average	17.96

Table 8-4

2.4 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L OLED

2.4GHz WIFI (20MHz 802.11b SISO ANT L)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2457	10	Average	18.17

Table 8-5

5 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R LCD

5GHz WIFI (20MHz 802.11n SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5280	56	16.22

Table 8-6

5 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R OLED

5GHz WIFI (20MHz 802.11a SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5280	56	16.21

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Table 8-7

5 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L LCD

5GHz WIFI (40MHz 802.11n SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-4	5835	167	14.73

Table 8-8

5 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L OLED

5GHz WIFI (20MHz 802.11a SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5260	52	16.32

Table 8-9

6 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R LCD

6GHz WIFI (160MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.11
UNII-7	6665	143	13.50

Table 8-10

6 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna R OLED

6GHz WIFI (160MHz 802.11ax SISO ANT R)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.21
UNII-7	6665	143	13.31

Table 8-11

6 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L LCD

6GHz WIFI (160MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.67
UNII-7	6665	143	14.46

Table 8-12

6 GHz WLAN Measured P_{Limit} Average Power for DSI = 1 (Motion) – Antenna L OLED

6GHz WIFI (160MHz 802.11ax SISO ANT L)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	13.57
UNII-7	6665	143	14.26

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.

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- Power measurements were taken according to the approved data referencing test plan.

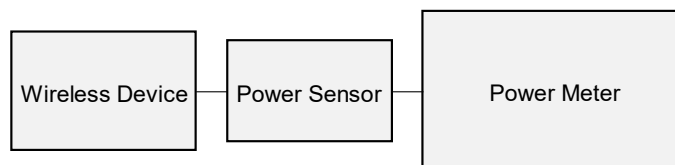


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers for Data Referencing

Table 8-13
Bluetooth Reduced Average RF Power in Motion – Antenna R LCD

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	18.45	69.984

Table 8-14
Bluetooth Reduced Average RF Power in Motion – Antenna R OLED

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	18.70	74.131

Table 8-15
Bluetooth Reduced Average RF Power in Motion – Antenna L LCD

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	18.55	71.614

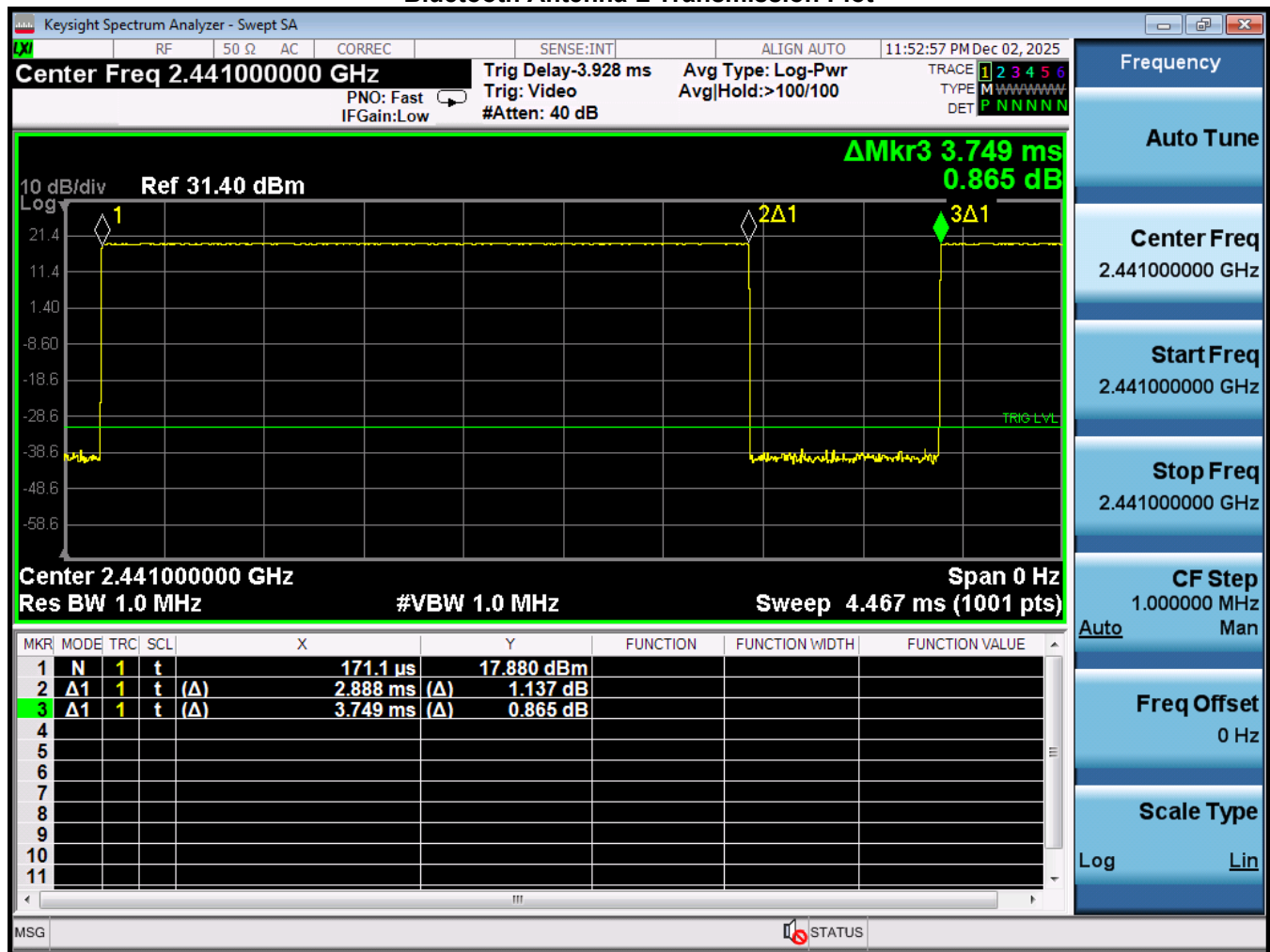
Table 8-16
Bluetooth Reduced Average RF Power in Motion – Antenna L OLED

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2441	1.0	39	18.88	77.268

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Figure 8-3
Bluetooth Antenna L Transmission Plot



Equation 8-2
Bluetooth Antenna L Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.888ms}{3.749ms} * 100\% = 77.03\%$$

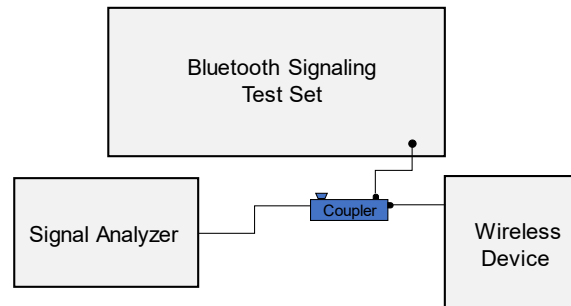


Figure 8-4
Power Measurement Setup

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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
12/15/2025	2450 Head	24.4	2300	1.664	40.221	1.670	39.500	-0.36%	1.83%
			2310	1.670	40.209	1.679	39.480	-0.54%	1.85%
			2320	1.677	40.188	1.687	39.460	-0.59%	1.84%
			2400	1.731	40.074	1.756	39.289	-1.42%	2.00%
			2450	1.763	40.023	1.800	39.200	-2.06%	2.10%
			2480	1.784	39.963	1.833	39.162	-2.67%	2.05%
			2500	1.800	39.930	1.855	39.136	-2.96%	2.03%
			2510	1.808	39.920	1.866	39.123	-3.11%	2.04%
			2535	1.824	39.879	1.893	39.092	-3.65%	2.01%
			2550	1.835	39.857	1.909	39.073	-3.88%	2.01%
			2560	1.841	39.845	1.920	39.060	-4.11%	2.01%
			2600	1.872	39.806	1.964	39.009	-4.68%	2.04%
			2300	1.658	37.725	1.670	39.500	-0.72%	-4.49%
			2310	1.665	37.714	1.679	39.480	-0.83%	-4.47%
			2320	1.673	37.706	1.687	39.460	-0.83%	-4.45%
02/12/2026	2450 Head	19.0	2400	1.733	37.569	1.756	39.289	-1.31%	-4.38%
			2450	1.771	37.480	1.800	39.200	-1.61%	-4.39%
			2480	1.794	37.400	1.833	39.162	-2.13%	-4.50%
			2500	1.812	37.372	1.855	39.136	-2.32%	-4.51%
			2510	1.820	37.362	1.866	39.123	-2.47%	-4.50%
			2535	1.841	37.333	1.893	39.092	-2.75%	-4.50%
			2550	1.853	37.304	1.909	39.073	-2.93%	-4.53%
			2560	1.860	37.275	1.920	39.060	-3.12%	-4.57%
			2600	1.891	37.167	1.964	39.009	-3.72%	-4.72%
			2300	1.703	38.419	1.670	39.500	1.98%	-2.74%
			2310	1.710	38.413	1.679	39.480	1.85%	-2.70%
			2320	1.716	38.406	1.687	39.460	1.72%	-2.67%
			2400	1.771	38.265	1.756	39.289	0.85%	-2.61%
			2450	1.813	38.223	1.800	39.200	0.72%	-2.49%
			2480	1.832	38.169	1.833	39.162	-0.05%	-2.54%
03/02/2026	2450 Head	19.2	2500	1.846	38.121	1.855	39.136	-0.49%	-2.59%
			2510	1.854	38.096	1.866	39.123	-0.64%	-2.63%
			2535	1.877	38.046	1.893	39.092	-0.84%	-2.68%
			2550	1.891	38.027	1.909	39.073	-0.94%	-2.68%
			2560	1.901	38.013	1.920	39.060	-0.99%	-2.68%
			2600	1.930	37.956	1.964	39.009	-1.73%	-2.70%
			5150	4.421	35.556	4.608	36.050	-4.06%	-1.37%
			5160	4.433	35.547	4.618	36.040	-4.01%	-1.37%
			5170	4.441	35.540	4.629	36.030	-4.06%	-1.36%
			5180	4.451	35.519	4.635	36.009	-3.97%	-1.36%
			5190	4.464	35.485	4.645	35.998	-3.90%	-1.43%
			5200	4.477	35.467	4.655	35.986	-3.82%	-1.44%
			5210	4.489	35.461	4.666	35.975	-3.79%	-1.43%
			5220	4.499	35.443	4.676	35.963	-3.79%	-1.45%
			5240	4.525	35.394	4.696	35.940	-3.64%	-1.52%
01/19/2026	5200-5800 Head	19.0	5250	4.539	35.373	4.706	35.929	-3.55%	-1.55%
			5260	4.549	35.353	4.717	35.917	-3.56%	-1.57%
			5270	4.559	35.337	4.727	35.906	-3.55%	-1.58%
			5280	4.566	35.326	4.737	35.894	-3.61%	-1.58%
			5290	4.575	35.311	4.748	35.883	-3.64%	-1.59%
			5300	4.587	35.283	4.758	35.871	-3.59%	-1.64%
			5310	4.597	35.270	4.768	35.860	-3.59%	-1.65%
			5320	4.609	35.264	4.778	35.849	-3.54%	-1.63%
			5500	4.811	34.931	4.963	35.643	-3.06%	-2.00%
			5510	4.818	34.890	4.973	35.632	-3.12%	-2.08%
			5520	4.835	34.861	4.983	35.620	-2.97%	-2.13%
			5530	4.850	34.844	4.994	35.609	-2.88%	-2.15%
			5540	4.864	34.836	5.004	35.597	-2.80%	-2.14%
			5550	4.875	34.822	5.014	35.586	-2.77%	-2.15%
			5560	4.882	34.802	5.024	35.574	-2.83%	-2.17%
			5580	4.905	34.774	5.045	35.551	-2.76%	-2.19%
			5600	4.927	34.740	5.065	35.529	-2.72%	-2.22%
			5610	4.933	34.713	5.076	35.518	-2.82%	-2.27%
			5620	4.948	34.685	5.086	35.506	-2.71%	-2.31%
			5640	4.979	34.652	5.106	35.483	-2.49%	-2.34%
			5660	4.997	34.604	5.127	35.460	-2.54%	-2.41%
			5670	5.010	34.591	5.137	35.449	-2.47%	-2.42%
			5680	5.023	34.585	5.147	35.437	-2.41%	-2.40%
			5690	5.035	34.576	5.158	35.426	-2.38%	-2.40%
			5700	5.048	34.560	5.168	35.414	-2.32%	-2.41%
			5710	5.056	34.520	5.178	35.403	-2.36%	-2.49%
			5720	5.066	34.490	5.188	35.391	-2.35%	-2.55%
			5745	5.100	34.459	5.214	35.363	-2.19%	-2.56%
			5750	5.107	34.451	5.219	35.357	-2.15%	-2.56%
			5755	5.114	34.442	5.224	35.351	-2.11%	-2.57%
			5765	5.124	34.426	5.234	35.340	-2.10%	-2.59%
			5775	5.136	34.413	5.245	35.329	-2.08%	-2.59%
			5785	5.148	34.393	5.255	35.317	-2.04%	-2.62%
			5795	5.158	34.366	5.265	35.305	-2.03%	-2.66%
			5805	5.168	34.343	5.275	35.294	-2.03%	-2.69%
			5825	5.189	34.328	5.296	35.271	-2.02%	-2.67%
			5835	5.200	34.319	5.305	35.230	-1.98%	-2.59%
			5845	5.213	34.296	5.315	35.210	-1.92%	-2.60%
			5850	5.220	34.277	5.320	35.200	-1.88%	-2.62%
			5855	5.226	34.261	5.325	35.197	-1.86%	-2.66%
			5875	5.245	34.232	5.347	35.183	-1.91%	-2.70%
			5885	5.256	34.228	5.357	35.177	-1.89%	-2.70%
			5905	5.281	34.188	5.379	35.163	-1.82%	-2.77%

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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
03/03/2026	5200-5800 Head	19.0	5150	4.509	35.459	4.608	36.050	-2.15%	-1.64%
			5160	4.522	35.447	4.618	36.040	-2.08%	-1.65%
			5170	4.532	35.444	4.629	36.030	-2.10%	-1.63%
			5180	4.541	35.442	4.635	36.009	-2.03%	-1.57%
			5190	4.552	35.431	4.645	35.998	-2.00%	-1.58%
			5200	4.563	35.409	4.655	35.986	-1.98%	-1.60%
			5210	4.571	35.381	4.666	35.975	-2.04%	-1.65%
			5220	4.582	35.353	4.676	35.963	-2.01%	-1.70%
			5240	4.609	35.282	4.696	35.940	-1.85%	-1.83%
			5250	4.625	35.276	4.706	35.929	-1.72%	-1.82%
			5260	4.638	35.268	4.717	35.917	-1.67%	-1.81%
			5270	4.647	35.251	4.727	35.906	-1.69%	-1.82%
			5280	4.655	35.227	4.737	35.894	-1.73%	-1.86%
			5290	4.669	35.208	4.748	35.883	-1.66%	-1.88%
			5300	4.680	35.200	4.758	35.871	-1.64%	-1.87%
			5310	4.688	35.184	4.768	35.860	-1.68%	-1.89%
			5320	4.698	35.159	4.778	35.849	-1.67%	-1.92%
			5500	4.908	34.789	4.963	35.643	-1.11%	-2.40%
			5510	4.918	34.793	4.973	35.632	-1.11%	-2.35%
			5520	4.927	34.794	4.983	35.620	-1.12%	-2.32%
			5530	4.937	34.768	4.994	35.609	-1.14%	-2.36%
			5540	4.947	34.724	5.004	35.597	-1.14%	-2.45%
			5550	4.959	34.682	5.014	35.586	-1.10%	-2.54%
			5560	4.973	34.645	5.024	35.574	-1.02%	-2.61%
			5580	5.000	34.599	5.045	35.551	-0.89%	-2.68%
			5600	5.032	34.575	5.065	35.529	-0.65%	-2.69%
			5610	5.045	34.576	5.076	35.518	-0.61%	-2.65%
			5620	5.055	34.573	5.086	35.506	-0.61%	-2.63%
			5640	5.072	34.528	5.106	35.483	-0.67%	-2.69%
			5660	5.087	34.467	5.127	35.460	-0.78%	-2.80%
			5670	5.101	34.447	5.137	35.449	-0.70%	-2.83%
			5680	5.116	34.421	5.147	35.437	-0.60%	-2.87%
			5690	5.134	34.397	5.158	35.426	-0.47%	-2.90%
			5700	5.146	34.374	5.168	35.414	-0.43%	-2.94%
			5710	5.160	34.366	5.178	35.403	-0.35%	-2.93%
			5720	5.175	34.360	5.188	35.391	-0.25%	-2.91%
			5745	5.196	34.325	5.214	35.363	-0.35%	-2.94%
			5750	5.200	34.312	5.219	35.357	-0.36%	-2.96%
			5755	5.205	34.298	5.224	35.351	-0.36%	-2.98%
			5765	5.217	34.270	5.234	35.340	-0.32%	-3.03%
			5775	5.228	34.238	5.245	35.329	-0.32%	-3.09%
			5785	5.240	34.205	5.255	35.317	-0.29%	-3.15%
			5795	5.255	34.168	5.265	35.305	-0.19%	-3.16%
			5800	5.264	34.165	5.270	35.300	-0.11%	-3.16%
			5800	5.264	34.185	5.270	35.300	-0.11%	-3.16%
			5805	5.272	34.180	5.275	35.294	-0.06%	-3.16%
			5825	5.304	34.170	5.296	35.271	0.15%	-3.12%
			5835	5.312	34.168	5.305	35.230	0.13%	-3.01%
			5845	5.316	34.169	5.315	35.210	0.02%	-2.96%
			5850	5.319	34.161	5.320	35.200	-0.02%	-2.95%
			5855	5.326	34.148	5.325	35.197	0.02%	-2.98%
			5865	5.334	34.124	5.336	35.190	-0.04%	-3.03%
			5865	5.334	34.124	5.336	35.190	-0.04%	-3.03%
			5865	5.334	34.124	5.336	35.190	-0.04%	-3.03%
			5865	5.334	34.124	5.336	35.190	-0.04%	-3.03%
			5875	5.343	34.110	5.347	35.183	-0.07%	-3.05%
			5885	5.355	34.081	5.357	35.177	-0.04%	-3.12%
			5905	5.381	33.998	5.379	35.163	0.04%	-3.31%
01/19/2026	6000 Head	19.0	5935	5.207	34.409	5.411	35.143	-3.77%	-2.09%
			5970	5.207	34.354	5.448	35.120	-4.42%	-2.18%
			5985	5.219	34.296	5.464	35.110	-4.48%	-2.32%
			6000	5.217	34.265	5.480	35.100	-4.80%	-2.38%
			6025	5.254	34.193	5.510	35.070	-4.65%	-2.50%
			6065	5.317	34.115	5.557	35.022	-4.32%	-2.59%
			6075	5.320	34.068	5.569	35.010	-4.47%	-2.69%
			6085	5.316	34.041	5.580	34.998	-4.73%	-2.73%
			6185	5.466	33.872	5.698	34.878	-4.07%	-2.88%
			6275	5.583	33.707	5.805	34.770	-3.82%	-3.06%
			6285	5.582	33.711	5.816	34.758	-4.02%	-3.01%
			6305	5.607	33.739	5.840	34.734	-3.99%	-2.86%
			6345	5.661	33.601	5.887	34.686	-3.84%	-3.13%
			6475	5.819	33.331	6.041	34.530	-3.67%	-3.47%
			6485	5.833	33.329	6.052	34.518	-3.62%	-3.44%
			6500	5.851	33.354	6.070	34.500	-3.61%	-3.32%
			6505	5.852	33.370	6.076	34.494	-3.69%	-3.26%
			6545	5.875	33.310	6.122	34.446	-4.03%	-3.30%
			6665	5.982	33.019	6.265	34.302	-4.52%	-3.74%
			6675	6.006	32.997	6.273	34.290	-4.26%	-3.77%
			6685	6.035	32.949	6.285	34.278	-3.98%	-3.88%
			6715	6.064	32.953	6.319	34.242	-4.04%	-3.76%
			6785	6.140	32.762	6.400	34.158	-4.06%	-4.09%
			6825	6.207	32.731	6.447	34.110	-3.72%	-4.04%
			6985	6.354	32.517	6.633	33.918	-4.21%	-4.13%
			6995	6.335	32.519	6.644	33.906	-4.65%	-4.09%
			7000	6.334	32.514	6.650	33.900	-4.75%	-4.09%
			7005	6.339	32.509	6.656	33.894	-4.76%	-4.09%
			7025	6.392	32.382	6.680	33.870	-4.31%	-4.39%

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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
02/02/2026	6000 Head	19.0	5935	5.661	34.441	5.411	35.143	4.62%	-2.00%
			5970	5.677	34.420	5.448	35.120	4.20%	-1.99%
			5985	5.681	34.374	5.464	35.110	3.97%	-2.10%
			6000	5.693	34.329	5.480	35.100	3.89%	-2.20%
			6025	5.730	34.255	5.510	35.070	3.99%	-2.32%
			6065	5.790	34.202	5.557	35.022	4.19%	-2.34%
			6075	5.802	34.191	5.569	35.010	4.18%	-2.34%
			6085	5.810	34.170	5.580	34.998	4.12%	-2.37%
			6185	5.957	33.937	5.698	34.878	4.55%	-2.70%
			6275	6.067	33.749	5.805	34.770	4.51%	-2.94%
			6285	6.083	33.734	5.816	34.758	4.59%	-2.95%
			6305	6.103	33.732	5.840	34.734	4.50%	-2.88%
			6345	6.150	33.641	5.887	34.686	4.47%	-3.01%
			6475	6.323	33.376	6.041	34.530	4.67%	-3.34%
			6485	6.332	33.368	6.052	34.518	4.63%	-3.33%
			6500	6.341	33.372	6.070	34.500	4.46%	-3.27%
			6505	6.344	33.370	6.076	34.494	4.41%	-3.26%
			6545	6.385	33.264	6.122	34.446	4.30%	-3.43%
			6665	6.518	32.974	6.265	34.302	4.04%	-3.87%
			6675	6.529	32.923	6.273	34.290	4.08%	-3.99%
			6685	6.546	32.896	6.285	34.278	4.15%	-4.03%
			6715	6.595	32.888	6.319	34.242	4.37%	-3.95%
			6785	6.658	32.719	6.400	34.158	4.03%	-4.21%
			6825	6.734	32.641	6.447	34.110	4.45%	-4.31%
			6985	6.892	32.451	6.633	33.918	3.90%	-4.33%
			6995	6.892	32.445	6.644	33.906	3.73%	-4.31%
			7000	6.892	32.431	6.650	33.900	3.64%	-4.33%
			7005	6.892	32.418	6.656	33.894	3.55%	-4.35%
			7025	6.915	32.340	6.680	33.870	3.52%	-4.52%
02/09/2026	6000 Head	19.3	5935	5.299	34.520	5.411	35.143	-2.07%	-1.77%
			5970	5.314	34.449	5.448	35.120	-2.46%	-1.91%
			5985	5.323	34.371	5.464	35.110	-2.58%	-2.10%
			6000	5.319	34.309	5.480	35.100	-2.94%	-2.25%
			6025	5.347	34.170	5.510	35.070	-2.96%	-2.57%
			6065	5.397	34.083	5.557	35.022	-2.88%	-2.68%
			6075	5.406	34.057	5.569	35.010	-2.93%	-2.72%
			6085	5.416	34.049	5.580	34.998	-2.94%	-2.71%
			6185	5.576	33.917	5.698	34.878	-2.14%	-2.76%
			6275	5.693	33.760	5.805	34.770	-1.93%	-2.90%
			6285	5.697	33.766	5.816	34.758	-2.05%	-2.85%
			6305	5.724	33.784	5.840	34.734	-1.99%	-2.74%
			6345	5.773	33.681	5.887	34.686	-1.94%	-2.90%
			6475	5.943	33.376	6.041	34.530	-1.62%	-3.34%
			6485	5.958	33.384	6.052	34.518	-1.55%	-3.29%
			6500	5.979	33.412	6.070	34.500	-1.50%	-3.15%
			6505	5.980	33.423	6.076	34.494	-1.58%	-3.10%
			6545	6.011	33.343	6.122	34.446	-1.81%	-3.20%
			6665	6.128	33.072	6.265	34.302	-2.19%	-3.59%
			6675	6.151	33.054	6.273	34.290	-1.94%	-3.60%
			6685	6.177	33.012	6.285	34.278	-1.72%	-3.69%
			6715	6.203	32.987	6.319	34.242	-1.84%	-3.67%
			6785	6.284	32.825	6.400	34.158	-1.81%	-3.90%
			6825	6.354	32.768	6.447	34.110	-1.44%	-3.93%
			6985	6.513	32.553	6.633	33.918	-1.81%	-4.02%
			6995	6.500	32.566	6.644	33.906	-2.17%	-3.95%
			7000	6.500	32.569	6.650	33.900	-2.26%	-3.93%
			7005	6.505	32.567	6.656	33.894	-2.27%	-3.92%
			7025	6.553	32.421	6.680	33.870	-1.90%	-4.28%

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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9.2 Test System Verification

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

Table 9-4
System Verification Results

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
G	2450	HEAD	12/15/2025	20.1	22.4	0.1	797	7488	1415	5.04	52.6	50.4	-4.18%	2.37	24.8	23.7	-4.44%	N/A	N/A	N/A	N/A
N	2450	HEAD	02/12/2026	22.6	20.3	0.1	797	7670	1449	5.48	52.6	54.8	4.18%	2.60	24.8	26.0	4.84%	N/A	N/A	N/A	N/A
L	2450	HEAD	03/02/2026	21.8	19.2	0.1	797	7659	1272	5.30	52.6	53.0	0.76%	2.48	24.8	24.8	0.00%	N/A	N/A	N/A	N/A
S	5250	HEAD	01/19/2026	19.1	19.0	0.05	1057	7661	1558	3.81	79.4	76.2	-4.03%	1.09	22.7	21.8	-3.96%	N/A	N/A	N/A	N/A
S	5250	HEAD	03/03/2026	19.1	19.0	0.05	1191	7661	1558	3.92	78.4	78.4	0.00%	1.14	22.5	22.8	1.33%	N/A	N/A	N/A	N/A
S	5600	HEAD	01/19/2026	19.1	19.0	0.05	1057	7661	1558	3.88	82.8	77.6	-6.28%	1.11	23.6	22.2	-5.93%	N/A	N/A	N/A	N/A
S	5600	HEAD	03/03/2026	19.1	19.0	0.05	1191	7661	1558	4.17	77.5	83.4	7.61%	1.20	22.3	24.0	7.62%	N/A	N/A	N/A	N/A
S	5750	HEAD	01/19/2026	19.1	19.0	0.05	1057	7661	1558	3.83	79.8	76.6	-4.01%	1.09	22.7	21.8	-3.96%	N/A	N/A	N/A	N/A
S	5750	HEAD	03/03/2026	19.1	19.0	0.05	1191	7661	1558	3.75	75.4	75.0	-0.53%	1.08	21.5	21.6	0.47%	N/A	N/A	N/A	N/A
S	5850	HEAD	01/19/2026	19.1	19.0	0.05	1057	7661	1558	3.97	81.5	79.4	-2.58%	1.13	23.0	22.6	-1.74%	N/A	N/A	N/A	N/A
S	5850	HEAD	03/03/2026	19.1	19.0	0.05	1191	7661	1558	3.99	76.8	79.8	3.91%	1.13	21.9	22.6	3.20%	N/A	N/A	N/A	N/A
R	6500	HEAD	01/19/2026	19.0	19.0	0.03	1018	7570	1638	7.48	298.0	299.2	0.40%	1.38	55.7	55.2	-0.90%	33.4	1350.0	1336.0	-1.04%
M	6500	HEAD	02/02/2026	19.0	19.0	0.03	1018	7406	1677	7.17	298.0	286.8	-3.76%	1.32	55.7	52.8	-5.21%	31.9	1350.0	1276.0	-5.48%
R	6500	HEAD	02/09/2026	21.2	19.3	0.03	1018	7713	1639	7.79	298.0	311.6	4.56%	1.42	55.7	56.8	1.97%	34.5	1350.0	1380.0	2.22%

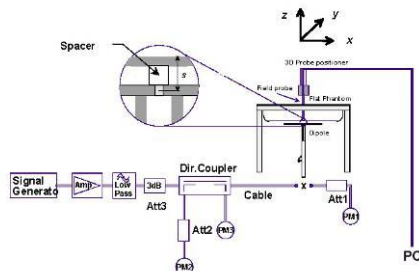


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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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.

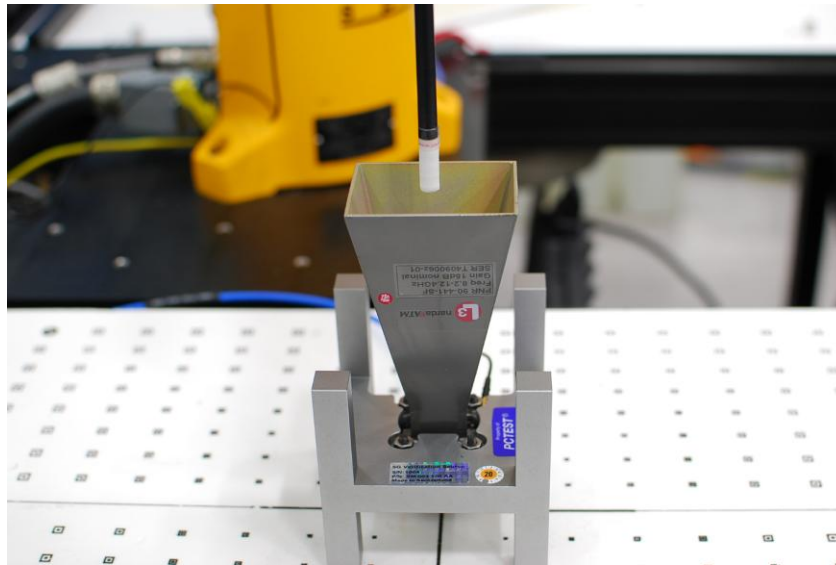


Figure 9-3
System Verification Setup Photo

Table 9-5
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	02/02/2026	1002	9421	93.3	55.60	53.80	0.14	55.90	54.00	0.15

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 REFERENCING

10.1 DTS SISO Standalone SAR Data

Table 10-1
DTS SISO Antenna R Body – Motion LCD| Plot A1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plot# [dBm]	Overall Plot# [dBm]
Body	2.4GHz WiFi / IEEE 802.11b	22	DSSS	R	LCD	0F33YQ25433TF	98.08	0.02	2457.00	10	1.0	18.25	17.99	Top	0	0.459	1.062	1.020	0.497	0.311	0.494	Plot	21.2	21.2
ANS/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-2
DTS SISO Antenna R Body – Motion OLED| Plot A2, A3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plot# [dBm]	Overall Plot# [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	R	OLED	0F38VQ2425413TF	98.08	0.07	2457.00	10	1.0	18.25	18.19	Top	0	N/A	0.374	1.034	1.020	0.387	0.243	0.455	Plot	22.3	22.3
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	R	OLED	0F38VQ2425413TF	98.08	0.03	2457.00	10	1.0	18.25	18.19	Top	0	Keyboard	0.379	1.034	1.020	0.392	0.245	0.470	Plot	22.3	
ANS/IEEE C95.3 1992 - SAFETY LIMIT																1.6 W/kg Body averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/ General Population																									

Table 10-3
DTS SISO Antenna L Body – Motion LCD| Plot A4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plot# [dBm]	Overall Plot# [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	L	LCD	0F33YQ25433TF	98.08	-0.03	2422.00	3	1.0	18.25	17.96	Top	0	0.421	1.069	1.020	0.459	0.287	0.506	Plot	21.6	21.6
ANS/IEEE C95.3 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-4
DTS SISO Antenna L Body – Motion OLED| Plot A5, A6

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plot# [dBm]	Overall Plot# [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	L	OLED	0F38VQ2425413TF	98.08	0.02	2457.00	10	1.0	18.25	18.17	Top	0	N/A	0.393	1.039	1.020	0.616	0.385	0.602	Plot	20.3	20.1
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	L	OLED	0F38VQ2425413TF	98.08	0.00	2457.00	10	1.0	18.25	18.17	Top	0	Keyboard	0.608	1.039	1.020	0.640	0.400	0.488	Plot	20.1	20.1
ANS/IEEE C95.3 1992 - SAFETY LIMIT																Body									
Spatial Peak																1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																averaged over 1 gram									

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10.2 NII SISO Standalone SAR Data

Table 10-5
NII SISO Antenna R Body – Motion LCD| Plot A7, A8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	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]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WIF/ IEEE 802.11a	20	OFDM	R	LCD	0F39VQ25431TF	99.10	-0.64	5280.00	56	U-NII-2A	6.0	16.25	16.25	Top	0	N/A	0.509	1.007	1.009	0.517	0.333	0.449	Plot	19.1	19.0
Body	5 GHz WIF/ IEEE 802.11a	20	OFDM	R	LCD	0F39VQ25431TF	99.10	-0.15	5280.00	56	U-NII-2A	6.0	16.25	16.25	Top	0	Keyboard	0.525	1.007	1.009	0.533	0.333	0.523	Plot	18.9	
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-6
NII SISO Antenna R Body – Motion OLED| Plot A9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	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]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WIF/ IEEE 802.11a	20	OFDM	R	OLED	0F39VQ25431TF	99.10	-0.10	5280.00	56	U-NII-2A	6.0	16.25	16.25	Top	0	N/A	0.603	1.009	1.009	0.614	0.384	0.616	Plot	18.3	18.3
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-7
NII SISO Antenna L Body – Motion LCD| Plot A10, A11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	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]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WIF/ IEEE 802.11a	40	OFDM	L	LCD	0F39VQ25431TF	99.05	-0.68	5850.00	167	U-NII-4	13.5	14.75	14.75	Top	0	N/A	0.507	1.005	1.004	0.512	0.320	0.485	Plot	17.6	17.5
Body	5 GHz WIF/ IEEE 802.11a	40	OFDM	L	LCD	0F39VQ25431TF	99.05	-0.68	5850.00	167	U-NII-4	13.5	14.75	14.75	Top	0	Keyboard	0.523	1.005	1.004	0.527	0.329	0.562	Plot	17.5	
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 10-8
NII SISO Antenna L Body – Motion OLED| Plot A12

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	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]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	5 GHz WIF/ IEEE 802.11a	20	OFDM	L	OLED	0F39VQ25431TF	99.05	-0.05	5280.00	52	U-NII-2A	6.0	17.25	16.52	Top	0	N/A	0.450	1.239	1.010	0.563	0.352	0.633	Plot	19.7	19.7
Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

10.3 6CD SISO Standalone SAR & APD Data

Table 10-9
6CD SISO Antenna R Tablet - Motion LCD| Plot A13, A14

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	LCD	0F3CCB25423TF	99.44	-0.08	6025.00	15	68.1	13.75	13.11	Top	0	0.420	1.159	1.006	0.490	0.306	0.435	Plot	16.8	16.8		
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	LCD	0F3CCB25423TF	99.44	-0.21	6665.00	143	68.1	13.75	13.50	Top	0	0.443	1.059	1.006	0.472	0.295	0.528	Plot	17.0			
AND/IEEE C95.1-1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured APD [W/m² (dcm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (dcm²)]	APD Exposure Ratio	Reported APD for Reference Model [W/m² (dcm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	LCD	0F3CCB25423TF	99.44	-0.08	6025.00	15	68.1	13.75	13.31	Top	0	N/A	3.209	1.159	1.006	3.745	0.287	3.222	Plot	19.0	19.0
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	LCD	0F3CCB25423TF	99.44	-0.21	6665.00	143	68.1	13.75	13.50	Top	0	N/A	3.390	1.059	1.006	3.959	0.278	4.126	Plot	19.2	19.0

Table 10-10
6CD SISO Antenna R Tablet - Motion OLED| Plot A15, A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]							
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	OLED	0F39VQ25431TF	99.44	-0.13	6025.00	15	68.1	13.75	13.31	Top	0	0.453	1.132	1.006	0.492	0.308	0.497	Plot	16.9	16.3							
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	OLED	0F39VQ25431TF	99.44	-0.12	6665.00	143	68.1	13.75	13.31	Top	0	0.494	1.107	1.006	0.550	0.344	0.544	Plot	16.3								
ANSI/IEEE C95.1.1992: Safety Limit														Spatial Peak									Body								
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g)									averaged over 1 gram								

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured APD [W/m² (dcm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (dcm²)]	APD Exposure Ratio	Reported APD for Reference Model [W/m² (dcm²)]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	OLED	0F39VQ25431TF	99.44	-0.13	6025.00	15	68.1	13.75	13.31	Top	0	N/A	3.320	1.152	1.006	3.793	0.289	3.793	Plot	18.9	18.9
Body	6 GHz WIF/ IEEE 802.11ax	160	OFDM	R	OLED	0F39VQ25431TF	99.44	-0.12	6665.00	143	68.1	13.75	13.31	Top	0	N/A	3.830	1.107	1.006	4.265	0.233	4.264	Plot	18.4	18.4

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Table 10-11
6CD SISO Antenna L Body – Motion LCD| Plot A17, A18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	PinIt [dBm]	Overall PinIt [dBm]
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	LCD	0F3C8V25423TF	99.46	0.02	6025.00	15	68.1	14.25	13.67	Top	0	0.418	1.143	1.005	0.480	0.300	0.412	Plot	17.4	17.4
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	LCD	0F3C8V25423TF	99.46	-0.19	6665.00	143	68.1	14.75	14.46	Top	0	0.387	1.069	1.005	0.416	0.260	0.524	Plot	18.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram										
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Screen	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 APO SAR [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO SAR [W/m² (4cm²)]	APO Exposure Ratio	Reported APO SAR for Reference Model [W/m² (4cm²)]	Plot #	PinIt [dBm]	Overall PinIt [dBm]
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	LCD	0F3C8V25423TF	99.46	0.02	6025.00	15	68.1	14.25	13.67	Top	0	1.440	1.143	1.005	1.912	0.188	3.168	Plot	19.2	19.2
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	LCD	0F3C8V25423TF	99.46	-0.19	6665.00	143	68.1	14.75	14.46	Top	0	1.310	1.069	1.005	3.126	0.156	4.271	Plot	20.8	

Table 10-12
6CD SISO Antenna L Body – Motion OLED| Plot A19, A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	PinIt [dBm]	Overall PinIt [dBm]
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	OLED	0F3BQV25413TF	99.46	0.03	6025.00	15	68.1	14.25	13.57	Top	0	0.405	1.169	1.005	0.476	0.298	0.421	Plot	17.4	17.4
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	OLED	0F3BQV25413TF	99.46	-0.08	6665.00	143	68.1	14.75	14.26	Top	0	0.448	1.119	1.005	0.504	0.315	0.522	Plot	17.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Screen	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 APO SAR [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO SAR [W/m² (4cm²)]	APO Exposure Ratio	Reported APO SAR for Reference Model [W/m² (4cm²)]	Plot #	PinIt [dBm]	Overall PinIt [dBm]
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	OLED	0F3BQV25413TF	99.46	0.03	6025.00	15	68.1	14.25	13.57	Top	0	3.150	1.169	1.005	3.701	0.185	3.271	Plot	19.5	19.4
Body	6 GHz Wi-Fi / IEEE 802.11ax	160	OFDM	L	OLED	0F3BQV25413TF	99.46	-0.08	6665.00	143	68.1	14.75	14.26	Top	0	3.790	1.119	1.005	4.261	0.213	4.297	Plot	19.4	

10.4 DSS SISO Standalone SAR Data

Table 10-13
DSS SISO Antenna R Body – Motion LCD| Plot A21

Exposure	Band / Mode	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	LCD	0F33YQV25433TF	77.03	-0.02	2441.00	39	1	19.25	18.45	Top	0	0.339	1.202	1.026	0.418	0.261	0.462	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-14
DSS SISO Antenna R Body – Motion OLED| Plot A22, A23

Exposure	Band / Mode	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	R	OLED	0F3BQV25413TF	77.03	0.02	2441.00	39	1	19.25	18.70	Top	0	N/A	0.475	1.135	1.026	0.553	0.346	0.545	Plot
Body	2.4 GHz Bluetooth	FHSS	R	OLED	0F3BQV25413TF	77.03	0.04	2441.00	39	1	19.25	18.70	Top	0	Keyboard	0.687	1.135	1.026	0.567	0.354	0.570	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 10-15
DSS SISO Antenna L Body – Motion LCD| Plot A24

Exposure	Band / Mode	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	LCD	0F33YQV25433TF	77.03	-0.02	2441.00	39	1	19.25	18.55	Top	0	0.446	1.175	1.026	0.538	0.326	0.478	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-16
DSS SISO Antenna L Body – Motion OLED| Plot A25, A26

Exposure	Band / Mode	Service / Modulation	Ant.	Screen	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Accessory	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #
Body	2.4 GHz Bluetooth	FHSS	L	OLED	0F3BQV25413TF	77.03	0.05	2441.00	39	1	19.25	18.88	Top	0	N/A	0.517	1.089	1.026	0.600	0.375	0.516	Plot
Body	2.4 GHz Bluetooth	FHSS	L	OLED	0F3BQV25413TF	77.03	0.02	2441.00	39	1	19.25	18.48	Top	0	Keyboard	0.527	1.089	1.026	0.589	0.368	0.616	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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10.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg.
7. This device uses Qualcomm FastConnect TAS for WLAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
8. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
9. FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of the device with the device touching the phantom. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.
10. Per FCC KDB 648474 D04, when the motion sensor is active, the highest reported SAR tablet configuration for a transmission band on an antenna was additionally evaluated with keyboard accessory attached and folded back at 360°.
11. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
12. The device is sold with either an OLED or LCD display type. Testing was performed with both display types.
13. Please see the original filing for reference for NFC and No Motion data.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.2.5 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 7.2.6 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v01 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 Section 13 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.

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Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor to determine compliance. See Section 8.2 for the time domain plot and calculation for the duty factor of the device.

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11 POWER DENSITY DATA SUMMARY

11.1 6 GHz WIFI Power Density Results

Table 11-1
6CD Tablet - Motion Power Density - LCD

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 (A)	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 #
6665.00	143	802.11ax	OFDM	160	13.75	13.50	N/A	N/A	-0.17	2	R	3F33YKP25433TF	66.1	Top	99.44	0.05	1.560	1.554	1.059	1.006	1.710	2.831	1.890	3.129	
6665.00	143	802.11ax	OFDM	160	13.75	13.50	N/A	N/A	-0.20	9	R	3F33YKP25433TF	66.1	Top	99.44	0.125	1.670	1.554	1.059	1.006	0.889	1.472	1.030	1.705	
6665.00	143	802.11ax	OFDM	160	N/A	N/A	14.75	14.46	-0.10	2	L	3F33YKP25433TF	66.1	Top	99.46	0.05	1.550	1.554	1.069	1.005	1.980	3.306	2.210	3.690	
6665.00	143	802.11ax	OFDM	160	N/A	N/A	14.75	14.46	-0.06	9	L	3F33YKP25433TF	66.1	Top	99.46	0.05	1.260	1.554	1.069	1.005	0.930	1.553	0.986	1.646	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		Power Density 10 W/m² averaged over 4 cm²							

Table 11-2
6CD Tablet - Motion Power Density - OLED| Plot A21

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 (A)	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 #
6665.00	143	802.11ax	OFDM	160	13.75	13.31	N/A	N/A	-0.12	2	R	3F38VQ25413TF	66.1	Top	99.44	0.05	2.150	1.554	1.107	1.006	2.580	4.465	2.820	4.880	Plot
6665.00	143	802.11ax	OFDM	160	13.75	13.31	N/A	N/A	-0.11	9	R	3F38VQ25413TF	66.1	Top	99.44	0.05	1.760	1.554	1.107	1.006	1.140	1.973	1.220	2.111	
6665.00	143	802.11ax	OFDM	160	N/A	N/A	14.75	14.26	-0.12	2	L	3F38VQ25413TF	66.1	Top	99.46	0.05	1.640	1.554	1.119	1.005	1.430	2.469	2.160	3.775	
6665.00	143	802.11ax	OFDM	160	N/A	N/A	14.75	14.26	-0.16	9	L	3F38VQ25413TF	66.1	Top	99.46	0.125	1.220	1.554	1.119	1.005	1.130	1.975	1.260	2.202	
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.

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12 SAR MEASUREMENT VARIABILITY

12.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, all measured 1 g SAR values were <0.8 W/kg. Therefore, no SAR measurement variability analysis was required.

12.2 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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13 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

13.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously.

13.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Please see the Multi-TX Appendix and complete compliance evaluation of reference model APPENDIX E (FCC ID C3K2085) in RF Exposure Technical Report 1M2511200095-01.C3K for standalone reported SAR for models and bands not evaluated for variant models.

13.3 Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the worst-case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528-2013 Section 6.3.4.1.2.

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	8/1/2025	Annual	8/1/2026	MY47420651
Anritsu	MS2038C	20 GHz Network Analyzer	5/14/2025	Annual	5/14/2026	1214109
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Rohde & Schwarz	NRP2	Power Meter	5/23/2025	Annual	5/23/2026	103084
Anritsu	MA24106A	USB Power Sensor	5/29/2025	Annual	5/29/2026	1344554
Anritsu	MA24106A	USB Power Sensor	6/26/2025	Annual	6/26/2026	1827529
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4242	High Accuracy Platinum Thermometer	4/1/2025	Biennial	4/1/2027	250203775
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316952
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316953
Testo	ALARM-HYGROMETER	ALARM-HYGROMETER	7/3/2025	Annual	7/3/2026	83316970
Keysight Technologies	N9020A	MXA Signal Analyzer	9/15/2025	Annual	9/15/2026	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MCL	BW-N3W5+	3dB Attenuator	CBT	N/A	CBT	2028
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAK-3.5	Dielectric Assessment Kit	8/5/2025	Annual	8/6/2026	1041
SPEAG	DAK-3.5	Dielectric Assessment Kit	7/14/2025	Annual	7/14/2026	1039
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/16/2026	Annual	1/16/2027	1191
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/5/2025	Annual	12/5/2026	1018
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/3/2025	Annual	12/3/2026	1213
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	1/8/2026	Annual	1/8/2027	1639
SPEAG	EUmmWV3	EUmmWV3 Probe	3/12/2025	Annual	3/12/2026	9421
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7670
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7661
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	1/14/2026	Annual	1/14/2027	7713

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:

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

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

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Applicable for Power Density Measurements:

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

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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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