



RF Exposure Part 1 Test Report

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

Date of Testing:
04/27/2026 – 07/06/2026
Test Site/Location:
Element, Columbia, MD, USA
Document Serial No.:
1M2606300058-01.C3K

FCC ID: C3K00002101

APPLICANT: MICROSOFT CORPORATION

DUT Type: Wireless Module
Application Type: Class II Permissive Change – Limited Modular Approval
FCC Rule Part(s): CFR §2.1093
Model(s): HWB-Q94
Host Device Model Name: 2150
Host Device FCC ID: C3K2150
Permissive Change(s): FCC C2PC Cover Letter for 2150

Equipment Class	Band & Mode	Tx Frequency	SAR		
			Index 0* 1g SAR (W/kg)	Index 0/34 1g SAR (W/kg)	
DTS	2.4 GHz WiFi	2412 - 2472 MHz	<0.1	0.62	
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	<0.1	0.90	
		U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	<0.1	1.12	
6CD	6 GHz WiFi	2402 - 2480 MHz	<0.1	0.46	
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	<0.1	0.46	
Simultaneous SAR per KDB 690783 D01v01r03:			1.22	1.99	
Equipment Class	Band & Mode	Tx Frequency	APD (W/m²)		Reported PD (W/m²)
			Index 0* 1g SAR (W/kg)	Index 0/34 1g SAR (W/kg)	
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	0.13	7.06	6.82

Note: Index 0* refers to Index 0 with Keyboard attached at <210deg

Note, this report documents the RF exposure evaluation performed for the integration of FCC ID C3K00002101 into a host device FCC ID C3K2150. Only the RF exposure conditions and operating configurations associated with this host integration were evaluated under this filing. All other transmitter characteristics and operating modes remain unchanged from the previously authorized module approval.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 2.8 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



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Revision	Description	Issue Date	Revised By
-	Initial Release	07/09/2026	WKR017811

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

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

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2 DEVICE UNDER TEST

2.1 Equipment Description

The equipment under test (EUT), Model 2150, is a portable computing device that incorporates two previously certified transmitter modules and host NFC components.

The integrated transmitter modules consist of the WLAN/Bluetooth module authorized under FCC ID C3K00002101 (Module Model: HWB-Q94) and the cellular module authorized under FCC ID C3K2114. No hardware or software modifications have been made to either certified module for this host integration.

This report documents the RF exposure evaluation of the WLAN/Bluetooth transmitter module (FCC ID C3K00002101) as integrated into host device FCC ID C3K2150. While the transmitter characteristics remain unchanged from the authorized module approval, RF exposure compliance is dependent upon the final host implementation and is therefore evaluated for the specific host configuration.

This report presents the operating configurations selected for formal FCC SAR compliance evaluation. The evaluated configurations were selected using the 0 mm SAR reference dataset documented in Appendix H. The reference dataset was established through complete SAR measurements performed in accordance with the FCC OET response documented in KDB Inquiry No. 332459 and provides the technical basis for the approved SAR test reduction methodology applied to this device.

Co-location and simultaneous transmission conditions involving the integrated transmitter modules are evaluated separately in the host device RF exposure report (Report No. 1M2603250028-01.C3K).

2.2 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

2.3 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 2.10 – Bibliography).

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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 found in Section 2.10 - 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 DUT for various transmit conditions (Device State Index DSI for FastConnect.)

This device operates using three different indices (DSIs), corresponding to the operating conditions evaluated in this report. Index 0 corresponds to the scenarios where the device detects Laptop Mode and/or No Motion is sensed (high power test cases). Index 3 corresponds to the scenarios when WWAN is inactive and where the device detects Tablet Mode or Motion is sensed (low power test cases with WWAN inactive). Index 4 corresponds to the scenarios when WWAN is active and where the device detects Tablet Mode or Motion is sensed (low power test cases with WWAN active).

			Maximum Tune-Up Output Power*	Body No Motion	Body Motion WWAN inactive	Body Motion WWAN active
Exposure Scenario				1g	1g	1g
Averaging Volume				0, 25mm	5mm	5mm
Spacing				0	3	4
Index						
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}	P _{limit}
2.4 GHz WIFI	3	AG0	20.0	29.00	15.00	10.50
2.4 GHz WIFI	4	AG1	20.0	26.90	15.00	12.00
5 GHz WIFI UNII-1	3	AG0	16.0	21.50	14.50	9.50
5 GHz WIFI UNII-2A	3	AG0	14.5	20.30	14.50	9.50
5 GHz WIFI UNII-2C	3	AG0	16.0	21.20	14.00	9.00
5 GHz WIFI UNII-3	3	AG0	20.5	21.90	14.00	9.00
5 GHz WIFI UNII-4	3	AG0	17.0	22.20	14.00	9.00
5 GHz WIFI UNII-1	4	AG1	16.0	26.90	14.00	10.00
5 GHz WIFI UNII-2A	4	AG1	14.5	25.60	14.00	10.00
5 GHz WIFI UNII-2C	4	AG1	16.0	22.30	13.25	9.25
5 GHz WIFI UNII-3	4	AG1	20.5	24.70	14.50	9.50
5 GHz WIFI UNII-4	4	AG1	17.0	22.40	14.50	9.50
6 GHz WIFI UNII-5	3	AG0	18.0	18.00	9.25	4.25
6 GHz WIFI UNII-6	3	AG0	10.0	10.00	9.25	4.25
6 GHz WIFI UNII-7	3	AG0	18.0	25.80	9.50	4.50
6 GHz WIFI UNII-8	3	AG0	11.0	11.00	8.25	3.25
6 GHz WIFI UNII-5	4	AG1	18.0	18.00	9.75	6.25
6 GHz WIFI UNII-6	4	AG1	10.0	10.00	9.75	6.25
6 GHz WIFI UNII-7	4	AG1	18.0	25.70	10.00	6.50
6 GHz WIFI UNII-8	4	AG1	11.0	11.00	9.75	6.25

Notes:

1. All P_{limit} and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of OFDM modulation schemes (e.g. WLAN).
2. Per Qualcomm guidance, MIMO P_{limits} are not included when the WLAN antennas are in separate antenna groups.
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 Bluetooth when the device is used in Power Mode configurations defined below. Detailed descriptions of the power reduction mechanism are included in the operational description.

This device operates using four different Power Modes for Bluetooth. Throughout this report, Power Mode A will refer to the Bluetooth output power in Laptop Mode or Tablet Mode with no motion detected (high power test cases), Power Mode B will refer to the Bluetooth output power in Tablet Mode when both WLAN and WWAN are inactive, Power Mode C will refer to the Bluetooth output power in Tablet Mode either WLAN or WWAN active, and Power Mode D will refer to the Bluetooth output power in Tablet Mode when both WLAN and WWAN are active.

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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 D04v01.

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

2.5.1 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, Index 0 (No Motion)

Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																							
	SISO / SISO in MIMO										SISO / SISO in MIMO													
	Antenna 3										Antenna 4													
	a		g		n		ac		ax(SU)		be(SU)		a		g		n		ac		ax(SU)		be(SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WLAN 20MHz	21.00	20.00	20.50	19.50	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50	21.00	20.00	20.50	19.50	19.50	18.50	19.50	18.50	19.50	18.50	19.50	18.50
			ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50			ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50	ch. 1: 16.50	15.50
			ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00			ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00	ch. 2: 18.00	17.00
			ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00			ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00	ch. 3: 19.00	18.00
			ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50			ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50	ch. 11: 15.50	14.50
2.4 GHz WLAN 20MHz			ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50			ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50	ch. 12: 16.50	15.50
			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00
			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00
			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00
			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00			ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00	ch. 13: 9.00	8.00
Band	SISO / SISO in MIMO										SISO / SISO in MIMO													
	Antenna 3										Antenna 4													
	n		ac		ax(SU)		be(SU)		n		ac		ax(SU)		be(SU)									
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
2.4 GHz WLAN 40MHz	17.00		16.00		17.00		16.00		17.00		16.00		17.00		16.00		17.00		16.00		17.00		16.00	
	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00	ch. 3: 14.00	13.00		
	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00	ch. 4: 16.00	15.00		
	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00	ch. 5: 16.00	15.00		
	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00	ch. 9: 14.00	13.00		
2.4 GHz WLAN 40MHz	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00	ch. 10: 7.00	6.00		
	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50	ch. 11: -8.50	-9.50		

The below table is applicable in the following conditions:

- Index 3 (WWAN is inactive, Motion)

Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
	SISO / SISO in MIMO										SISO / SISO in MIMO									
	Antenna 3					Antenna 4					Antenna 3					Antenna 4				
Maximum / Nominal Power	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
2.4 GHz WLAN 20 MHz	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
	ch. 1: 15.00	ch. 2: 14.50	ch. 3: 14.50	ch. 4: 14.50	ch. 5: 14.50	ch. 6: 14.50	ch. 7: 14.50	ch. 8: 14.50	ch. 9: 14.50	ch. 10: 14.50	ch. 1: 15.00	ch. 2: 14.50	ch. 3: 14.50	ch. 4: 14.50	ch. 5: 14.50	ch. 6: 14.50	ch. 7: 14.50	ch. 8: 14.50	ch. 9: 14.50	ch. 10: 14.50
	ch. 12: 13.00	ch. 13: 12.00	ch. 14: 12.00	ch. 15: 11.50	ch. 16: 12.50	ch. 17: 11.50	ch. 18: 12.50	ch. 19: 11.50	ch. 20: 12.50	ch. 21: 11.50	ch. 12: 13.00	ch. 13: 12.00	ch. 14: 12.00	ch. 15: 11.50	ch. 16: 12.50	ch. 17: 11.50	ch. 18: 12.50	ch. 19: 11.50	ch. 20: 12.50	ch. 21: 11.50
	ch. 13: 9.00	ch. 14: -7.00	ch. 15: -8.50	ch. 16: -9.00	ch. 17: -9.00	ch. 18: -9.00	ch. 19: -9.00	ch. 20: -9.00	ch. 21: -9.00	ch. 22: -9.00	ch. 13: 9.00	ch. 14: -7.00	ch. 15: -8.50	ch. 16: -9.00	ch. 17: -9.00	ch. 18: -9.00	ch. 19: -9.00	ch. 20: -9.00	ch. 21: -9.00	ch. 22: -9.00

The below table is applicable in the following conditions:

- Index 4 (WWAN is active, Motion)

Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
	SISO / SISO in MIMO										SISO / SISO in MIMO									
	Antenna 3					Antenna 4					Antenna 3					Antenna 4				
Maximum / Nominal Power	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
2.4 GHz WLAN 20MHz	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50	11.50	10.50
	ch. 1: 10.50	ch. 2: 10.00	ch. 3: 10.00	ch. 4: 10.00	ch. 5: 10.00	ch. 6: 10.00	ch. 7: 10.00	ch. 8: 10.00	ch. 9: 10.00	ch. 10: 10.00	ch. 1: 10.50	ch. 2: 10.00	ch. 3: 10.00	ch. 4: 10.00	ch. 5: 10.00	ch. 6: 10.00	ch. 7: 10.00	ch. 8: 10.00	ch. 9: 10.00	ch. 10: 10.00
	ch. 12: 13.00	ch. 13: 12.00	ch. 14: 12.00	ch. 15: 11.50	ch. 16: 12.50	ch. 17: 11.50	ch. 18: 12.50	ch. 19: 11.50	ch. 20: 12.50	ch. 21: 11.50	ch. 12: 13.00	ch. 13: 12.00	ch. 14: 12.00	ch. 15: 11.50	ch. 16: 12.50	ch. 17: 11.50	ch. 18: 12.50	ch. 19: 11.50	ch. 20: 12.50	ch. 21: 11.50
	ch. 13: 9.00	ch. 14: -7.00	ch. 15: -8.50	ch. 16: -9.00	ch. 17: -9.00	ch. 18: -9.00	ch. 19: -9.00	ch. 20: -9.00	ch. 21: -9.00	ch. 22: -9.00	ch. 13: 9.00	ch. 14: -7.00	ch. 15: -8.50	ch. 16: -9.00	ch. 17: -9.00	ch. 18: -9.00	ch. 19: -9.00	ch. 20: -9.00	ch. 21: -9.00	ch. 22: -9.00

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2.5.2 5 GHz WLAN Output Power

The below table is applicable in the following conditions:

- $P_{\max}$, Index 0 (No Motion)

[illegible]

The below table is applicable in the following conditions:

- Index 3 (WWAN is inactive, Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna 3										Antenna 4									
		a		n					av (SU)		ba (SU)	a		n				av (SU)		ba (SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
5 GHz WiFi (20MHz BW)	UNI-1	15.50	14.50	15.50 ch. 36: 15.00	14.50 ch. 36: 15.00	15.50	14.50	15.50 ch. 36: 15.00	14.50 ch. 36: 15.00	15.50	14.50	15.50 ch. 36: 15.00	14.50 ch. 36: 15.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00
	UNI-2A	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	14.50	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	
	UNI-2C	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	14.25	13.25	14.25	13.25	14.25	13.25	14.25	13.25	14.25	
	UNI-3	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.50	14.50	15.50	14.50	15.50	14.50	15.50	14.50	15.50	
	UNI-4	14.50	13.50	14.50 ch. 173: 13.50 ch. 177: 13.50	13.50 ch. 173: 13.50 ch. 177: 13.50	14.50	13.50	14.50 ch. 173: 13.50 ch. 177: 13.50	13.50 ch. 173: 13.50 ch. 177: 13.50	14.50	13.50	14.50 ch. 173: 13.50 ch. 177: 13.50	13.50 ch. 173: 13.50 ch. 177: 13.50	14.50	13.50	14.50 ch. 173: 13.50 ch. 177: 13.50	13.50 ch. 173: 13.50 ch. 177: 13.50	14.50	13.50	14.50 ch. 173: 13.50 ch. 177: 13.50	13.50 ch. 173: 13.50 ch. 177: 13.50
5 GHz WiFi (40MHz BW)	UNI-1			15.50 ch. 38: 13.00	14.50 ch. 38: 13.00	15.50	14.50	15.50 ch. 38: 13.00	14.50 ch. 38: 13.00	15.50	14.50	15.50 ch. 38: 13.00	14.50 ch. 38: 13.00		15.00	14.00	15.00	14.00	15.00	14.00	
	UNI-2A			15.50 ch. 62: 14.00	14.50 ch. 62: 14.00	15.50	14.50	15.50 ch. 62: 14.00	14.50 ch. 62: 14.00	15.50	14.50	15.50 ch. 62: 14.00	14.50 ch. 62: 14.00		15.00	14.00	15.00	14.00	15.00	14.00	
	UNI-2C			15.00 ch. 102: 14.00 ch. 110: 14.00	14.00 ch. 102: 14.00 ch. 110: 14.00	15.00	14.00	15.00 ch. 102: 14.00 ch. 110: 14.00	14.00 ch. 102: 14.00 ch. 110: 14.00	15.00	14.00	15.00 ch. 102: 14.00 ch. 110: 14.00	14.00 ch. 102: 14.00 ch. 110: 14.00		14.25	13.25	14.25	13.25	14.25	13.25	
	UNI-3			15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		15.50	14.50	15.50	14.50	15.50	14.50	
	UNI-4			15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		15.50	14.50	15.50	14.50	15.50	14.50	
5 GHz WiFi (80MHz BW)	UNI-1					14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00		14.00	13.00	14.00	13.00	14.00	13.00	
	UNI-2A					14.00	13.00	14.00	13.00	14.00	13.00	14.00	13.00		14.00	13.00	14.00	13.00	14.00	13.00	
	UNI-2C					15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		14.25	13.25	14.25	13.25	14.25	13.25	
	UNI-3			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
	UNI-4			15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00	15.00	14.00		15.50	14.50	15.50	14.50	15.50	14.50	
5 GHz WiFi (160MHz BW)	UNI-12A					11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00		11.00	10.00	11.00	10.00	11.00	10.00	
	UNI-2C			7.50	6.50	7.50	6.50	7.50	6.50	7.50	6.50	7.50	6.50		8.50	7.50	8.50	7.50	8.50	7.50	
	UNI-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	

The below table is applicable in the following conditions:

- Index 4 (WWAN is active, Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna 3										Antenna 4									
		a	ac	n		ax (SU)		be (SU)		a	n	ac	ax (SU)		be (SU)						
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	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00		
	UNII-2A	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	11.00	10.00	11.00	10.00	11.00	10.00	11.00	10.00		
	UNII-2C	10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.25	9.25	10.25	9.25	10.25	9.25	10.25	9.25		
	UNII-3	10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50		
5 GHz WiFi (40MHz BW)	UNII-1	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50		
	UNII-2A			10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00	11.00	10.00		
	UNII-2C			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00			10.25	9.25	10.25	9.25	10.25	9.25		
	UNII-3			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50		
5 GHz WiFi (80MHz BW)	UNII-1			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50		
	UNII-2A			10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00	11.00	10.00		
	UNII-2C			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00			10.25	9.25	10.25	9.25	10.25	9.25		
	UNII-3			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00	10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50		
5 GHz WiFi (160MHz BW)	UNII-12A			10.50	9.50	10.50	9.50	10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00	11.00	10.00		
	UNII-2C			8.50	7.50	8.50	7.50	8.50	7.50	8.50	7.50			8.50	7.50	8.50	7.50	8.50	7.50		
	UNII-3A			10.00	9.00	10.00	9.00	10.00	9.00	10.00	9.00			10.50	9.50	10.50	9.50	10.50	9.50		

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2.5.3 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, Index 0 (No Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00
	UNII-6	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	UNII-7	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	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	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50
	UNII-6			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-7			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-8			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
6 GHz WIFI (80MHz BW) - LPI	UNII-5			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-6			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-7			7.00	6.00	7.00	6.00			7.00	6.00	7.00	6.00
	UNII-8			7.00	6.00	7.00	6.00			7.00	6.00	7.00	6.00
6 GHz WIFI (160MHz BW) - LPI	UNII-5			9.00	8.00	9.00	8.00			9.00	8.00	9.00	8.00
	UNII-6			9.00	8.00	9.00	8.00			9.00	8.00	9.00	8.00
	UNII-7			9.50	8.50	9.50	8.50			9.50	8.50	9.50	8.50
	UNII-8			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
6 GHz WIFI (320MHz BW) - LPI	UNII-5					11.00	10.00					11.00	10.00
	UNII-6					11.00	10.00					11.00	10.00
	UNII-7					12.00	11.00					12.00	11.00
	UNII-8					ch. 127: 11.50	10.50					ch. 127: 11.50	10.50
IEEE 802.11 Modulated/Frame Output Power (in dBm)													
Mode	Band	SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00	16.00	15.00
	UNII-7	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50	17.50	16.50
6 GHz WIFI (40MHz BW) - SP	UNII-5			18.00	17.00	18.00	17.00			18.00	17.00	18.00	17.00
	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			18.00	17.00	18.00	17.00			18.00	17.00	18.00	17.00
	UNII-7			ch. 7: 16.00	15.00	ch. 7: 16.00	15.00			ch. 7: 16.00	15.00	ch. 7: 16.00	15.00
				ch. 23: 17.00	16.00	ch. 23: 17.00	16.00			ch. 23: 17.00	16.00	ch. 23: 17.00	16.00
				19.00	18.00	19.00	18.00			19.00	18.00	19.00	18.00
6 GHz WIFI (160MHz BW) - SP	UNII-5			18.50	17.50	18.50	17.50			18.50	17.50	18.50	17.50
	UNII-7			ch. 15: 16.00	15.00	ch. 15: 16.00	15.00			ch. 15: 16.00	15.00	ch. 15: 16.00	15.00
				ch. 47: 16.50	15.50	ch. 47: 16.50	15.50			ch. 47: 16.50	15.50	ch. 47: 16.50	15.50
6 GHz WIFI (320MHz BW) - SP	UNII-5			19.00	18.00	19.00	18.00			19.00	18.00	19.00	18.00
	UNII-7					19.00	18.00					19.00	18.00

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The below table is applicable in the following conditions:

- Index 3 (WWAN is inactive, Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00
	UNII-6	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	UNII-7	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	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
		ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50
6 GHz WIFI (40MHz BW) - LPI	UNII-5			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-6			ch. 3: 2.50	1.50	ch. 3: 2.50	1.50			ch. 3: 2.50	1.50	ch. 3: 2.50	1.50
	UNII-7			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-8			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
6 GHz WIFI (80MHz BW) - LPI	UNII-5			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-6			ch. 7: 6.00	5.00	ch. 7: 6.00	5.00			ch. 7: 6.00	5.00	ch. 7: 6.00	5.00
	UNII-7			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-8			7.00	6.00	7.00	6.00			7.00	6.00	7.00	6.00
				ch. 119: 6.00	5.00	ch. 119: 6.00	5.00			ch. 119: 6.00	5.00	ch. 119: 6.00	5.00
6 GHz WIFI (160MHz BW) - LPI	UNII-5			7.00	6.00	7.00	6.00			7.00	6.00	7.00	6.00
	UNII-6			9.00	8.00	9.00	8.00			9.00	8.00	9.00	8.00
	UNII-7			ch. 15: 8.00	7.00	ch. 15: 8.00	7.00			ch. 15: 8.00	7.00	ch. 15: 8.00	7.00
	UNII-8			9.00	8.00	9.00	8.00			9.00	8.00	9.00	8.00
6 GHz WIFI (320MHz BW) - LPI	UNII-5			9.50	8.50	9.50	8.50			9.50	8.50	9.50	8.50
	UNII-6			6.50	5.50	6.50	5.50			6.50	5.50	6.50	5.50
	UNII-7					10.25	9.25					10.75	9.75
	UNII-8					10.25	9.25					10.75	9.75
						10.50	9.50					11.00	10.00
						9.25	8.25					10.75	9.75
Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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	10.25	9.25	10.25	9.25	10.25	9.25	10.75	9.75	10.75	9.75	10.75	9.75
	UNII-7	10.50	9.50	10.50	9.50	10.50	9.50	11.00	10.00	11.00	10.00	11.00	10.00
6 GHz WIFI (40MHz BW) - SP	UNII-5			10.25	9.25	10.25	9.25			10.75	9.75	10.75	9.75
	UNII-7			10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00
6 GHz WIFI (80MHz BW) - SP	UNII-5			10.25	9.25	10.25	9.25			10.75	9.75	10.75	9.75
	UNII-7			10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00
6 GHz WIFI (160MHz BW) - SP	UNII-5			10.25	9.25	10.25	9.25			10.75	9.75	10.75	9.75
	UNII-7			10.50	9.50	10.50	9.50			11.00	10.00	11.00	10.00
6 GHz WIFI (320MHz BW) - SP	UNII-5					10.25	9.25					10.75	9.75

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The below table is applicable in the following conditions:

- Index 4 (WWAN is active, Motion)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00	-2.00	-3.00
	UNII-6	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	UNII-7	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00	0.00	-1.00
	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
		ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50	ch. 233: -3.50	-4.50
6 GHz WIFI (40MHz BW) - LPI	UNII-5			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-6			ch. 3: 2.50	1.50	ch. 3: 2.50	1.50			ch. 3: 2.50	1.50	ch. 3: 2.50	1.50
	UNII-7			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
	UNII-8			3.50	2.50	3.50	2.50			3.50	2.50	3.50	2.50
6 GHz WIFI (80MHz BW) - LPI	UNII-5			5.25	4.25	5.25	4.25			6.50	5.50	6.50	5.50
	UNII-6			5.25	4.25	5.25	4.25			ch. 7: 6.00	5.00	ch. 7: 6.00	5.00
	UNII-7			5.50	4.50	5.50	4.50			6.50	5.50	6.50	5.50
	UNII-8			4.25	3.25	4.25	3.25			7.00	6.00	7.00	6.00
6 GHz WIFI (160MHz BW) - LPI	UNII-5			5.25	4.25	5.25	4.25			7.25	6.25	7.25	6.25
	UNII-6			5.25	4.25	5.25	4.25			6.50	5.50	6.50	5.50
	UNII-7			5.50	4.50	5.50	4.50			7.50	6.50	7.50	6.50
	UNII-8			4.25	3.25	4.25	3.25			6.50	5.50	6.50	5.50
6 GHz WIFI (320MHz BW) - LPI	UNII-5					5.25	4.25					7.25	6.25
	UNII-6					5.25	4.25					7.25	6.25
	UNII-7					5.50	4.50					7.50	6.50
	UNII-8					4.25	3.25					7.25	6.25

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO / SISO in MIMO						SISO / SISO in MIMO					
		Antenna 3						Antenna 4					
		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-7	5.25	4.25	5.25	4.25	5.25	4.25	7.25	6.25	7.25	6.25	7.25	6.25
		5.50	4.50	5.50	4.50	5.50	4.50	7.50	6.50	7.50	6.50	7.50	6.50
6 GHz WIFI (40MHz BW) - SP	UNII-5			5.25	4.25	5.25	4.25			7.25	6.25	7.25	6.25
	UNII-7			5.50	4.50	5.50	4.50			7.50	6.50	7.50	6.50
6 GHz WIFI (80MHz BW) - SP	UNII-5			5.25	4.25	5.25	4.25			7.25	6.25	7.25	6.25
	UNII-7			5.50	4.50	5.50	4.50			7.50	6.50	7.50	6.50
6 GHz WIFI (160MHz BW) - SP	UNII-5			5.25	4.25	5.25	4.25			7.25	6.25	7.25	6.25
	UNII-7			5.50	4.50	5.50	4.50			7.50	6.50	7.50	6.50
6 GHz WIFI (320MHz BW) - SP	UNII-5					5.25	4.25					7.25	6.25

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2.5.4 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

- Maximum (Power Level A)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 3		Antenna 4		MIMO per Chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	20.5	18.5	20.5	18.5	17.5	15.5
Bluetooth EDR	2Mbps	17.5	15.5	17.5	15.5	14.5	12.5
Bluetooth EDR	3Mbps	17.5	15.5	17.5	15.5	14.5	12.5
Bluetooth LE	1Mbps	19.5	17.5	19.5	17.5	16.5	14.5
Bluetooth LE	2Mbps	19.5	17.5	19.5	17.5	16.5	14.5
Bluetooth LE	125kbps	16.0	14.0	16.0	14.0	12.5	10.5
Bluetooth LE	500kbps	16.0	14.0	16.0	14.0	12.5	10.5

2.5.5 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- WLAN inactive, WWAN inactive (Power Level B)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 3		Antenna 4		MIMO per Chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	17.0	15.0	17.0	15.0	17.0	15.0
Bluetooth EDR	2Mbps	17.0	15.0	17.0	15.0	14.5	12.5
Bluetooth EDR	3Mbps	17.0	15.0	17.0	15.0	14.5	12.5
Bluetooth LE	1Mbps	17.0	15.0	17.0	15.0	16.5	14.5
Bluetooth LE	2Mbps	17.0	15.0	17.0	15.0	16.5	14.5
Bluetooth LE	125kbps	16.0	14.0	16.0	14.0	12.5	10.5
Bluetooth LE	500kbps	16.0	14.0	16.0	14.0	12.5	10.5

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The below table is applicable in the following conditions:

- WLAN or WWAN active (Power Level C)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 3		Antenna 4		MIMO per Chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth EDR	2Mbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth EDR	3Mbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth LE	1Mbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth LE	2Mbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth LE	125kbps	12.0	10.0	12.0	10.0	N/A	N/A
Bluetooth LE	500kbps	12.0	10.0	12.0	10.0	N/A	N/A

The below table is applicable in the following conditions:

- WLAN and WWAN active (Power Level D)

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Beam Forming	
		Antenna 3		Antenna 4		MIMO per Chain	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth EDR	2Mbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth EDR	3Mbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth LE	1Mbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth LE	2Mbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth LE	125kbps	9.0	7.0	10.5	8.5	N/A	N/A
Bluetooth LE	500kbps	9.0	7.0	10.5	8.5	N/A	N/A

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2.6 DUT Antenna Locations

The overall dimensions of this device are > 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 for Index 0/3/4 with no Keyboard or Keyboard attached at >210deg

Antenna	Back	Front	Top	Bottom	Right	Left
3	Yes	No	Yes	No	No	No
4	Yes	No	Yes	No	No	No

Note: At Index 0 (Laptop Mode with keyboard attached), bottom-edge testing is required for all antennas in accordance with FCC KDB 616217 D04.

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 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 4.3.2 procedures.

**Table 2-2
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Body
1	2.4 GHz WLAN MIMO	Yes
2	5 GHz WLAN MIMO	Yes
3	6 GHz WLAN MIMO	Yes
4	2.4 GHz Bluetooth Beam Forming	Yes
5	2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
6	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
7	5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
8	6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
9	2.4 GHz Bluetooth Chain 0 + 5 GHz WLAN Chain 1	Yes
10	2.4 GHz Bluetooth Chain 0 + 6 GHz WLAN Chain 1	Yes
11	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0	Yes
12	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0	Yes
13	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 1	Yes
14	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 1	Yes
15	2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes
16	2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes
17	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0	Yes
18	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0	Yes
19	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 1	Yes
20	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 1	Yes
21	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1 + 5 GHz WLAN Chain 1	Yes
22	2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1 + 6 GHz WLAN Chain 1	Yes
23	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
24	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
25	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
26	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Chain 0 + 2.4 GHz WLAN Chain 1	Yes
27	5 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
28	6 GHz WLAN MIMO + 2.4 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 1	Yes
29	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 1	Yes
30	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 1	Yes
31	5 GHz WLAN Chain 0 + 2.4 GHz WLAN Chain 1	Yes
32	6 GHz WLAN Chain 0 + 2.4 GHz WLAN Chain 1	Yes
33	5 GHz WLAN Chain 1 + 2.4 GHz Bluetooth Chain 1	Yes
34	6 GHz WLAN Chain 1 + 2.4 GHz Bluetooth Chain 1	Yes
35	5 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 0	Yes
36	6 GHz WLAN Chain 0 + 2.4 GHz Bluetooth Chain 0	Yes
37	2.4 GHz WLAN MIMO + 5 GHz WLAN Chain 0	Yes
38	2.4 GHz WLAN MIMO + 6 GHz WLAN Chain 0	Yes
39	2.4 GHz WLAN MIMO + 5 GHz WLAN Chain 1	Yes
40	2.4 GHz WLAN MIMO + 6 GHz WLAN Chain 1	Yes
41	2.4 GHz WLAN Chain 1 + 5 GHz WLAN Chain 1	Yes
42	2.4 GHz WLAN Chain 1 + 6 GHz WLAN Chain 1	Yes
43	2.4 GHz WLAN Chain 0 + 5 GHz WLAN Chain 0	Yes
44	2.4 GHz WLAN Chain 0 + 6 GHz WLAN Chain 0	Yes
45	5 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes
46	6 GHz WLAN MIMO + 2.4 GHz Bluetooth Beam Forming	Yes
47	2.4 GHz WLAN Chain 0 + WWAN	Yes
48	2.4 GHz WLAN Chain 1 + WWAN	Yes
49	2.4 GHz WLAN MIMO + WWAN	Yes
50	2.4 GHz Bluetooth Chain 0 + WWAN	Yes
51	2.4 GHz Bluetooth Chain 1 + WWAN	Yes
52	5 GHz WLAN Chain 0 + WWAN	Yes
53	5 GHz WLAN Chain 1 + WWAN	Yes
54	5 GHz WLAN MIMO + WWAN	Yes
55	6 GHz WLAN Chain 0 + WWAN	Yes
56	6 GHz WLAN Chain 1 + WWAN	Yes
57	6 GHz WLAN MIMO + WWAN	Yes

1. 2.4 GHz WLAN Antenna R and 2.4 GHz Bluetooth Ant R share the same antenna path and cannot transmit simultaneously.
2. 2.4 GHz WLAN Antenna L and 2.4 GHz Bluetooth Ant L share the same antenna path and cannot transmit simultaneously.
3. 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
4. This device supports 2x2 MIMO Tx for WLAN 802.11b/a/g/n/ac/ax/be. 802.11b/a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
5. This device supports Bluetooth Tethering.
6. For simultaneous scenarios 1-57, these WLAN simultaneous TX modes can also transmit simultaneously with the NFC Antenna and/or WPT Coil.
7. 2.4 GHz Bluetooth Beam Forming is not supported for certain reduced power levels.
8. For additional simultaneous transmission scenarios with the licensed module, please see report S/N: 1M2606300059-01.C3K

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2.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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.

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

Per FCC Guidance, 802.11ax/be RU/MRU 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/MRU 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/MRU size to demonstrate that the output powers would not be higher than the other OFDM 802.11 modes. Please see RU/MRU SAR Exclusion Appendix for 802.11ax/be RU/MRU output powers.

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

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, channels were tested to cover the full range. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density (IPD) is evaluated at a 2 mm plane, where the measurement plane and the evaluation plane coincide. Results are conservatively scaled when the uncertainty budget of IPD measurement exceeds 30%, in accordance with the methodology described in IEC 62479.

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
- FCC KDB 648474 D04 (Accessories)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

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- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (IEEE 802.11ax/be)
- 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 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	1M2606300058-02.C3K
RF Exposure Part 2 Test Report	1M2606300058-03.C3K
RF Exposure Compliance Summary Report	1M2606300058-04.C3K
RF Exposure Part 1 Test Report (Host Model)	1M2603250028-01.C3K
RF Exposure Part 1 Test Report (Licensed Module)	1M2606300059-01.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 Device Under Test (DUT). 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.

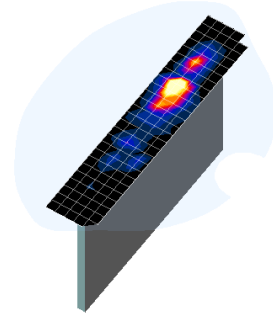


Figure 4-1
Sample SAR Area Scan

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 per KDB Publication 616217 D04v01r02

Per FCC KDB Publication 616217 D04v01r02, for devices containing a keyboard, SAR is required for the bottom surface. For devices with overall dimensions $>200\text{mm}$, the back surface and edges of the device should be tested for SAR compliance with the device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04v01 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom. Please see the exact antenna locations shown in the Technical Descriptions document.

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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/m² or mW/cm².

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

Table 6-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

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

Note: 1.0 mW/cm² is 10 W/m²

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7 FCC MEASUREMENT PROCEDURES

7.1 Measured and Reported SAR

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

7.2 SAR Testing with 802.11 Transmitters

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

7.2.1 General Device Setup

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

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

7.2.2 U-NII-1 and U-NII-2A

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

7.2.3 U-NII-2C and U-NII-3

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

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7.2.4 2.4 GHz SAR Test Requirements

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

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

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

7.2.5 OFDM Transmission Mode and SAR Test Channel Selection

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

7.2.6 Initial Test Configuration Procedure

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

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 7.2.5). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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7.2.7 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.

7.2.8 MIMO SAR considerations

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

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8 RF CONDUCTED POWERS

8.1 WLAN Conducted Powers

Table 8-1
2.4 GHz WLAN Measured Pmax Average Power for Index 0 – Antenna 3

2.4GHz WIFI (20MHz 802.11b SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.79
2437	6		20.42
2462	11		20.42

Table 8-2
2.4 GHz WLAN Measured PMax Average Power for Index 0 – Antenna 4

2.4GHz WIFI (20MHz 802.11b SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	20.47
2437	6		20.15
2462	11		20.27

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Table 8-3

2.4 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 3

2.4GHz WIFI (20MHz 802.11b SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.34
2437	6		14.94
2462	11		15.13
2.4GHz WIFI (20MHz 802.11g SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.50
2437	6		15.01
2457	10		15.12
2462	11		14.69
2.4GHz WIFI (20MHz 802.11n SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.62
2437	6		15.15
2457	10		15.23
2462	11		13.72
2.4GHz WIFI (20MHz 802.11ac SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.55
2437	6		15.05
2457	10		15.11
2462	11		13.64
2.4GHz WIFI (20MHz 802.11ax SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.69
2437	6		15.21
2457	10		15.25
2462	11		13.76
2.4GHz WIFI (20MHz 802.11be SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.78
2437	6		15.27
2457	10		15.31
2462	11		13.81

2.4GHz WIFI (40MHz 802.11n SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.86
2427	4		14.56
2442	7		14.74
2447	8		14.70
2452	9		12.44
2457	10		5.34
2462	11		-9.85
2.4GHz WIFI (40MHz 802.11ac SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.84
2427	4		14.59
2442	7		14.73
2447	8		14.68
2452	9		12.43
2457	10		5.32
2462	11		-9.86
2.4GHz WIFI (40MHz 802.11ax SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.85
2427	4		14.59
2442	7		14.76
2447	8		14.73
2452	9		12.42
2457	10		5.31
2462	11		-9.83
2.4GHz WIFI (40MHz 802.11be SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.59
2427	4		14.37
2442	7		14.54
2447	8		14.51
2452	9		12.28
2457	10		5.14
2462	11		-9.84

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Table 8-4

2.4 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 4

2.4GHz WIFI (20MHz 802.11b SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.06
2437	6		14.78
2462	11		14.95
2.4GHz WIFI (20MHz 802.11g SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.23
2437	6		14.98
2457	10		15.05
2462	11		14.57
2.4GHz WIFI (20MHz 802.11n SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.32
2437	6		15.06
2457	10		15.08
2462	11		13.58
2.4GHz WIFI (20MHz 802.11ac SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.31
2437	6		15.08
2457	10		15.13
2462	11		13.65
2.4GHz WIFI (20MHz 802.11ax SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.42
2437	6		15.15
2457	10		15.14
2462	11		13.68
2.4GHz WIFI (20MHz 802.11be SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.38
2437	6		15.10
2457	10		15.10
2462	11		13.65

2.4GHz WIFI (40MHz 802.11n SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	13.34
2427	4		15.08
2442	7		15.18
2447	8		15.07
2452	9		13.07
2457	10		6.02
2462	11		-9.57
2.4GHz WIFI (40MHz 802.11ac SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	13.37
2427	4		15.08
2442	7		15.20
2447	8		15.17
2452	9		13.08
2457	10		6.06
2462	11		-9.53
2.4GHz WIFI (40MHz 802.11ax SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	13.35
2427	4		15.11
2442	7		15.21
2447	8		15.17
2452	9		13.06
2457	10		6.08
2462	11		-9.55
2.4GHz WIFI (40MHz 802.11be SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	13.09
2427	4		14.84
2442	7		14.95
2447	8		14.93
2452	9		12.82
2457	10		5.87
2462	11		-9.56

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Table 8-5

2.4 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 3

2.4GHz WIFI (20MHz 802.11b SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	10.64
2437	6		10.48
2462	11		10.62
2.4GHz WIFI (20MHz 802.11g SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.02
2437	6		10.91
2462	11		10.82
2.4GHz WIFI (20MHz 802.11n SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.08
2437	6		10.85
2462	11		10.79
2.4GHz WIFI (20MHz 802.11ac SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.02
2437	6		10.87
2462	11		10.78
2.4GHz WIFI (20MHz 802.11ax SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.09
2437	6		11.01
2462	11		10.90
2.4GHz WIFI (20MHz 802.11be SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.05
2437	6		11.00
2462	11		10.88
2.4GHz WIFI (40MHz 802.11n SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	11.19
2442	7		11.01
2452	9		10.81
2457	10		6.17
2462	11		-9.05
2.4GHz WIFI (40MHz 802.11ac SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	11.20
2442	7		11.00
2452	9		10.84
2457	10		6.18
2462	11		-9.07
2.4GHz WIFI (40MHz 802.11ax SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	11.19
2442	7		11.02
2452	9		10.82
2457	10		6.17
2462	11		-9.05
2.4GHz WIFI (40MHz 802.11be SU SISO ANT 3)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	10.90
2442	7		10.73
2452	9		10.54
2457	10		5.98
2462	11		-9.06

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Table 8-6

2.4 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 4

2.4GHz WIFI (20MHz 802.11b SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.18
2437	6		12.03
2462	11		12.22
2.4GHz WIFI (20MHz 802.11g SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.45
2437	6		12.17
2462	11		12.31
2.4GHz WIFI (20MHz 802.11n SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.49
2442	7		12.25
2452	9		12.30
2457	10		6.23
2462	11		-9.37
2.4GHz WIFI (20MHz 802.11ac SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.52
2437	6		12.23
2462	11		12.31
2.4GHz WIFI (20MHz 802.11ac SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.53
2437	6		12.22
2462	11		12.35
2.4GHz WIFI (20MHz 802.11ax SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.61
2437	6		12.34
2462	11		12.41
2.4GHz WIFI (20MHz 802.11be SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.62
2437	6		12.33
2462	11		12.41
2.4GHz WIFI (40MHz 802.11ac SISO ANT 4)			
Freq. [MHz]	Channel		Detector
2422	3	Average	12.48
2442	7		12.29
2452	9		12.32
2457	10		6.21
2462	11		-9.36
2.4GHz WIFI (40MHz 802.11ax SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.51
2442	7		12.28
2452	9		12.33
2457	10		6.22
2462	11		-9.36
2.4GHz WIFI (40MHz 802.11be SU SISO ANT 4)			
Freq. [MHz]	Channel	Detector	Conducted Powers [dBm]
2422	3	Average	12.32
2442	7		12.07
2452	9		12.12
2457	10		6.03
2462	11		-9.34

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Table 8-7

5 GHz WLAN Measured PMax Average Power for Index 0 – Antenna 3

5GHz WIFI (20MHz 802.11a SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.32
	5200	40	15.85
	5220	44	15.81
	5240	48	15.80
UNII-3	5745	149	15.45
	5765	153	20.76
	5785	157	20.89
	5825	165	21.11
5GHz WIFI (20MHz 802.11n SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.93
	5200	40	15.93
	5220	44	15.86
	5240	48	15.87
UNII-3	5745	149	15.34
	5765	153	20.68
	5785	157	20.76
	5825	165	20.89
5GHz WIFI (20MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.83
	5200	40	15.88
	5220	44	15.84
	5240	48	15.83
UNII-3	5745	149	15.34
	5765	153	20.59
	5785	157	20.67
	5825	165	20.85
5GHz WIFI (20MHz 802.11ax SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.95
	5200	40	15.82
	5220	44	15.91
	5240	48	15.88
UNII-3	5745	149	15.31
	5765	153	20.61
	5785	157	20.65
	5825	165	20.83
5GHz WIFI (20MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.90
	5200	40	15.82
	5220	44	15.79
	5240	48	15.93
UNII-3	5745	149	15.31
	5765	153	20.64
	5785	157	20.63
	5825	165	20.85

5GHz WIFI (40MHz 802.11n SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.45
	5310	62	13.08
5GHz WIFI (40MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.33
	5310	62	13.14
5GHz WIFI (40MHz 802.11ax SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.32
	5310	62	13.12
5GHz WIFI (40MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.33
	5310	62	13.09

5GHz WIFI (80MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.95
	5610	122	15.62
	5690	138	15.79
UNII-4	5855	171	17.15
5GHz WIFI (80MHz 802.11ax SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.06
	5610	122	15.73
	5690	138	15.89
UNII-4	5855	171	17.16
5GHz WIFI (80MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	12.07
	5610	122	15.79
	5690	138	15.80
UNII-4	5855	171	17.11

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Table 8-8

5 GHz WLAN Measured PMax Average Power for Index 0 – Antenna 4

5GHz WIFI (20MHz 802.11a SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.15
	5200	40	15.61
	5220	44	15.59
	5240	48	15.60
UNII-3	5745	149	15.51
	5765	153	20.61
	5785	157	20.59
	5825	165	20.99
5GHz WIFI (20MHz 802.11n SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.62
	5200	40	15.61
	5220	44	15.52
	5240	48	15.58
UNII-3	5745	149	15.55
	5765	153	20.66
	5785	157	20.73
	5825	165	20.86
5GHz WIFI (20MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.71
	5200	40	15.62
	5220	44	15.62
	5240	48	15.61
UNII-3	5745	149	15.52
	5765	153	20.79
	5785	157	20.76
	5825	165	20.91
5GHz WIFI (20MHz 802.11ax SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.76
	5200	40	15.63
	5220	44	15.65
	5240	48	15.67
UNII-3	5745	149	15.56
	5765	153	20.79
	5785	157	20.81
	5825	165	20.93
5GHz WIFI (20MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.72
	5200	40	15.75
	5220	44	15.67
	5240	48	15.63
UNII-3	5745	149	15.50
	5765	153	20.77
	5785	157	20.76
	5825	165	20.89

5GHz WIFI (40MHz 802.11n SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.11
	5310	62	13.31
5GHz WIFI (40MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.13
	5310	62	13.29
5GHz WIFI (40MHz 802.11ax SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.10
	5310	62	13.23
5GHz WIFI (40MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2A	5270	54	15.08
	5310	62	13.28

5GHz WIFI (80MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.67
	5610	122	15.15
	5690	138	15.29
UNII-4	5855	171	16.71
5GHz WIFI (80MHz 802.11ax SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.71
	5610	122	15.31
	5690	138	15.36
UNII-4	5855	171	16.89
5GHz WIFI (80MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-2C	5530	106	11.64
	5610	122	15.27
	5690	138	15.37
UNII-4	5855	171	16.94

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Table 8-9

5 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 3

5GHz WIFI (40MHz 802.11n SISO ANT 3)				5GHz WIFI (80MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	11.70	UNII-2C	5530	106	11.92
	5230	46	14.27		5610	122	13.33
UNII-2A	5270	54	14.46		5690	138	13.11
	5310	62	12.82	UNII-3	5775	155	13.48
5GHz WIFI (40MHz 802.11ac SISO ANT 3)				UNII-4	5855	171	13.70
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	5GHz WIFI (80MHz 802.11ax SU SISO ANT 3)			
UNII-1	5190	38	11.68	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5230	46	14.25				
UNII-2A	5270	54	14.50				
	5310	62	12.84				
5GHz WIFI (40MHz 802.11ax SU SISO ANT 3)				UNII-2C	5530	106	11.99
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]		5610	122	13.51
UNII-1	5190	38	11.73		5690	138	13.22
	5230	46	14.27	UNII-3	5775	155	13.53
UNII-2A	5270	54	14.55	UNII-4	5855	171	13.82
	5310	62	12.88	5GHz WIFI (80MHz 802.11be SU SISO ANT 3)			
5GHz WIFI (40MHz 802.11be SU SISO ANT 3)				Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-2C	5530	106	12.02
UNII-1	5190	38	11.74		5610	122	13.51
	5230	46	14.27		5690	138	13.15
UNII-2A	5270	54	14.55	UNII-3	5775	155	13.57
	5310	62	12.91	UNII-4	5855	171	13.81

Table 8-10

5 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 4

5GHz WIFI (40MHz 802.11n SISO ANT 4)				5GHz WIFI (80MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	11.35	UNII-2C	5530	106	11.72
	5230	46	13.34		5610	122	12.38
UNII-2A	5270	54	13.48		5690	138	12.26
	5310	62	12.40	UNII-3	5775	155	13.54
5GHz WIFI (40MHz 802.11ac SISO ANT 4)				UNII-4	5855	171	13.82
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	5GHz WIFI (80MHz 802.11ax SU SISO ANT 4)			
UNII-1	5190	38	11.43	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5230	46	13.41				
UNII-2A	5270	54	13.61	UNII-2C	5530	106	11.81
	5310	62	12.54		5610	122	12.36
5GHz WIFI (40MHz 802.11ax SU SISO ANT 4)					5690	138	12.34
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-3	5775	155	13.63
UNII-1	5190	38	11.44	UNII-4	5855	171	13.86
	5230	46	13.42	5GHz WIFI (80MHz 802.11be SU SISO ANT 4)			
UNII-2A	5270	54	13.48	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5310	62	12.63				
5GHz WIFI (40MHz 802.11be SU SISO ANT 4)				UNII-2C	5530	106	11.83
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]		5610	122	12.36
UNII-1	5190	38	11.31		5690	138	12.37
	5230	46	13.30	UNII-3	5775	155	13.62
UNII-2A	5270	54	13.47	UNII-4	5855	171	13.90
	5310	62	12.38				

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Table 8-11

5 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 3

5GHz WIFI (80MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.94
UNII-2A	5290	58	9.41
UNII-2C	5530	106	8.33
	5610	122	8.28
	5690	138	8.47
UNII-3	5775	155	8.22
UNII-4	5855	171	8.54
5GHz WIFI (80MHz 802.11ax SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.95
UNII-2A	5290	58	9.39
UNII-2C	5530	106	8.38
	5610	122	8.30
	5690	138	8.52
UNII-3	5775	155	8.25
UNII-4	5855	171	8.60
5GHz WIFI (160MHz 802.11ac SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	9.35
UNII-2C	5570	114	6.66
UNII-3/4	5815	163	8.51
5GHz WIFI (160MHz 802.11ax SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	9.46
UNII-2C	5570	114	6.81
UNII-3/4	5815	163	8.66
5GHz WIFI (80MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.92
UNII-2A	5290	58	9.40
UNII-2C	5530	106	8.33
	5610	122	8.27
	5690	138	8.49
UNII-3	5775	155	8.32
UNII-4	5855	171	8.60
5GHz WIFI (160MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	9.42
UNII-2C	5570	114	6.74
UNII-3/4	5815	163	9.09

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Table 8-12

5 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 4

5GHz WIFI (80MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.41
UNII-2A	5290	58	10.00
UNII-2C	5530	106	8.37
	5610	122	8.42
	5690	138	8.64
UNII-3	5775	155	8.74
UNII-4	5855	171	8.74
5GHz WIFI (80MHz 802.11ax SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.46
UNII-2A	5290	58	10.03
UNII-2C	5530	106	8.43
	5610	122	8.47
	5690	138	8.67
UNII-3	5775	155	8.80
UNII-4	5855	171	8.92
5GHz WIFI (80MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	9.42
UNII-2A	5290	58	9.98
UNII-2C	5530	106	8.41
	5610	122	8.48
	5690	138	8.68
UNII-3	5775	155	8.75
UNII-4	5855	171	8.93

5GHz WIFI (160MHz 802.11ac SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	9.87
UNII-2C	5570	114	6.68
UNII-3/4	5815	163	8.85
5GHz WIFI (160MHz 802.11ax SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	10.04
UNII-2C	5570	114	6.80
UNII-3/4	5815	163	8.97
5GHz WIFI (160MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1/2A	5250	50	9.99
UNII-2C	5570	114	6.74
UNII-3/4	5815	163	8.91

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Table 8-13

6 GHz WLAN Measured PMax Average Power for Index 0 – Antenna 3

6GHz WIFI (160MHz 802.11ax SU SISO ANT 3)				6GHz WIFI (320MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-7	6665	143	18.27	UNII-5	6105	31	16.92
6GHz WIFI (160MHz 802.11be SU SISO ANT 3)				UNII-5	6265	63	17.99
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-6	6425	95	9.62
UNII-7	6665	143	18.28	UNII-8	6905	191	11.04

Table 8-14

6 GHz WLAN Measured PMax Average Power for Index 0 – Antenna 4

6GHz WIFI (160MHz 802.11ax SU SISO ANT 4)				6GHz WIFI (320MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-7	6665	143	17.86	UNII-5	6105	31	16.87
6GHz WIFI (160MHz 802.11be SU SISO ANT 4)				UNII-5	6265	63	17.85
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-6	6425	95	9.62
UNII-7	6665	143	17.85	UNII-8	6905	191	10.96

Table 8-15

6 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 3

6GHz WIFI (320MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	9.26
UNII-5	6265	63	9.22
UNII-6	6425	95	9.18
UNII-7	6745	159	9.61
UNII-8	6905	191	8.58

Table 8-16

6 GHz WLAN Measured Plimit Average Power for Index 3 – Antenna 4

6GHz WIFI (320MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	9.67
UNII-5	6265	63	9.78
UNII-6	6425	95	9.75
UNII-7	6745	159	9.95
UNII-8	6905	191	10.02

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Table 8-17
6 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 3

6GHz WIFI (320MHz 802.11be SU SISO ANT 3)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	4.91
UNII-5	6265	63	3.89
UNII-6	6425	95	3.80
UNII-7	6745	159	4.51
UNII-8	6905	191	2.52

Table 8-18
6 GHz WLAN Measured Plimit Average Power for Index 4 – Antenna 4

6GHz WIFI (320MHz 802.11be SU SISO ANT 4)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	6.38
UNII-5	6265	63	6.11
UNII-6	6425	95	6.04
UNII-7	6745	159	6.23
UNII-8	6905	191	6.31

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

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

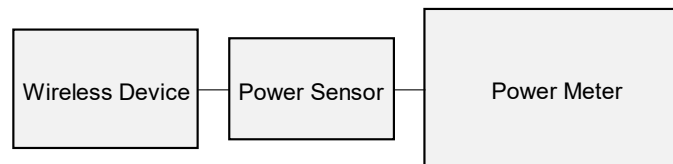


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers

Table 8-19
Bluetooth Maximum Average RF Power – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	19.06	80.538
2441	1.0	GFSK	39	19.38	86.696
2480	1.0	GFSK	78	19.37	86.497

Table 8-20
Bluetooth LE Maximum Average RF Power– Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	18.51	70.958
2440	1 Mbps	17	LE	18.98	79.068
2480	1 Mbps	39	LE	18.84	76.560

Table 8-21
Bluetooth Maximum Average RF Power – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	17.98	62.806
2441	1.0	GFSK	39	18.53	71.285
2480	1.0	GFSK	78	18.70	74.131

Table 8-22
Bluetooth LE Maximum Average RF Power – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	17.58	57.280
2440	1 Mbps	17	LE	18.02	63.387
2480	1 Mbps	39	LE	18.13	65.013

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Table 8-23

Bluetooth Reduced Average RF Power for WLAN inactive, WWAN inactive – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	14.28	26.792
2441	1 Mbps	GFSK	39	14.79	30.130
2480	1 Mbps	GFSK	78	14.57	28.642

Table 8-24

Bluetooth LE Reduced Average RF Power for WLAN inactive, WWAN inactive – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	16.55	45.186
2440	1 Mbps	17	LE	16.83	48.195
2480	1 Mbps	39	LE	16.67	46.452

Table 8-25

Bluetooth Reduced Average RF Power for WLAN inactive, WWAN inactive – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	13.01	19.999
2441	1 Mbps	GFSK	39	13.43	22.029
2480	1 Mbps	GFSK	78	13.43	22.029

Table 8-26

Bluetooth LE Reduced Average RF Power for WLAN inactive, WWAN inactive – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	15.04	31.915
2440	1 Mbps	17	LE	15.43	34.914
2480	1 Mbps	39	LE	15.35	34.277

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Table 8-27

Bluetooth Reduced Average RF Power for WLAN or WWAN active – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	10.71	11.776
2441	1 Mbps	GFSK	39	11.15	13.032
2480	1 Mbps	GFSK	78	11.09	12.853

Table 8-28

Bluetooth LE Reduced Average RF Power for WLAN or WWAN active – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	10.76	11.912
2440	1 Mbps	17	LE	11.64	14.588
2480	1 Mbps	39	LE	11.37	13.709

Table 8-29

Bluetooth Reduced Average RF Power for WLAN or WWAN active – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	10.07	10.162
2441	1 Mbps	GFSK	39	10.52	11.272
2480	1 Mbps	GFSK	78	10.24	10.568

Table 8-30

Bluetooth LE Reduced Average RF Power for WLAN or WWAN active – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	11.28	13.428
2440	1 Mbps	17	LE	11.93	15.596
2480	1 Mbps	39	LE	11.48	14.060

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Table 8-31

Bluetooth Reduced Average RF Power for WLAN and WWAN active – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	7.60	5.754
2441	1 Mbps	GFSK	39	7.95	6.237
2480	1 Mbps	GFSK	78	7.81	6.039

Table 8-32

Bluetooth LE Reduced Average RF Power for WLAN and WWAN active – Antenna 3

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	8.51	7.096
2440	1 Mbps	17	LE	8.90	7.762
2480	1 Mbps	39	LE	8.45	6.998

Table 8-33

Bluetooth Reduced Average RF Power for WLAN and WWAN active – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	GFSK	0	8.58	7.211
2441	1 Mbps	GFSK	39	9.01	7.962
2480	1 Mbps	GFSK	78	8.92	7.798

Table 8-34

Bluetooth LE Reduced Average RF Power for WLAN and WWAN active – Antenna 4

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	37	LE	9.57	9.057
2440	1 Mbps	17	LE	9.78	9.506
2480	1 Mbps	39	LE	9.92	9.817

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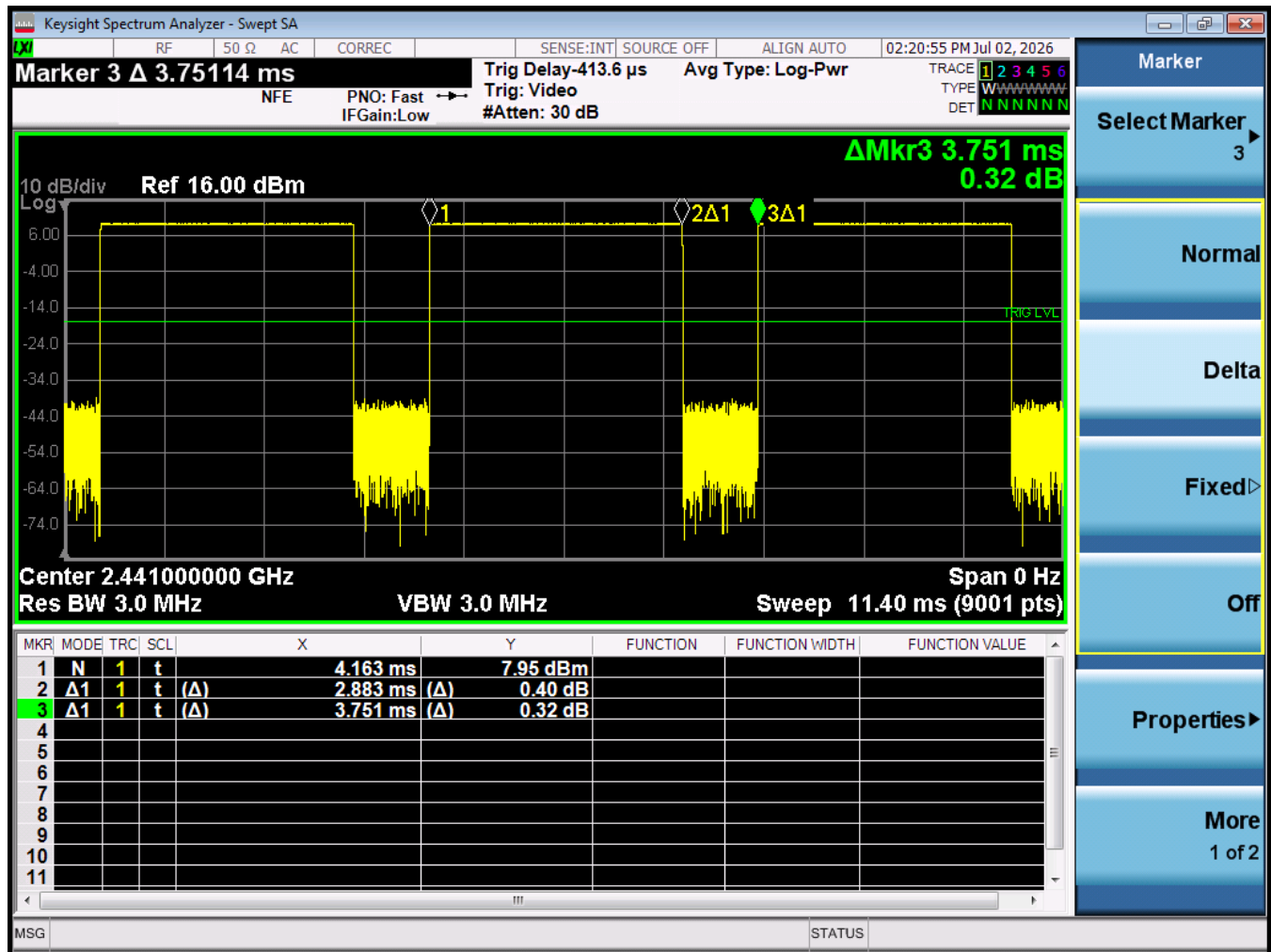


Figure 8-2
Bluetooth Transmission Plot – Antenna 3

Equation 8-1
Bluetooth Antenna 3 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.883\text{ms}}{3.751\text{ms}} * 100\% = 76.86\%$$

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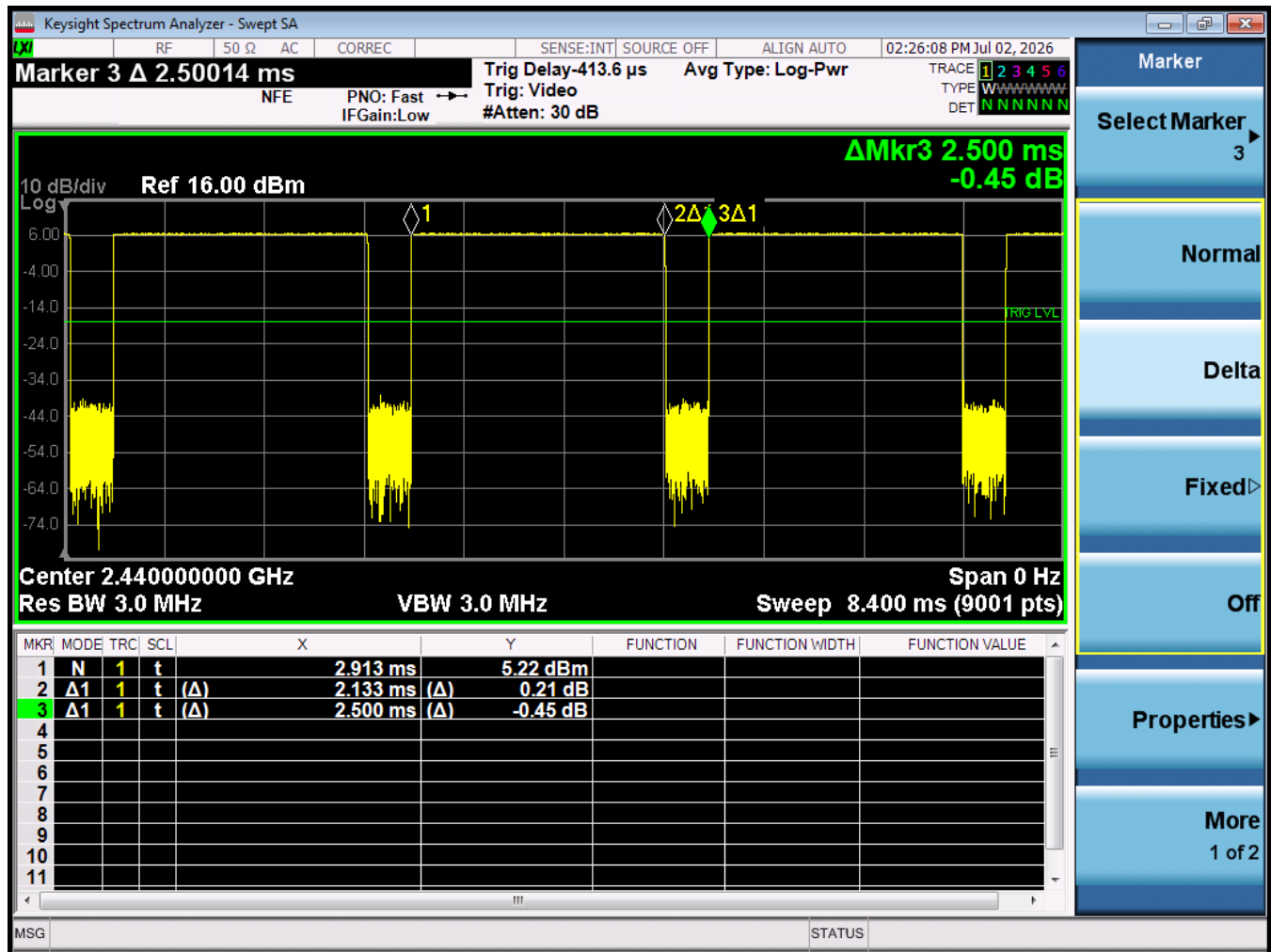


Figure 8-3
Bluetooth LE Transmission Plot – Antenna 3

Equation 8-2
Bluetooth Antenna 3 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.133\text{ms}}{2.500\text{ms}} * 100\% = 85.32\%$$

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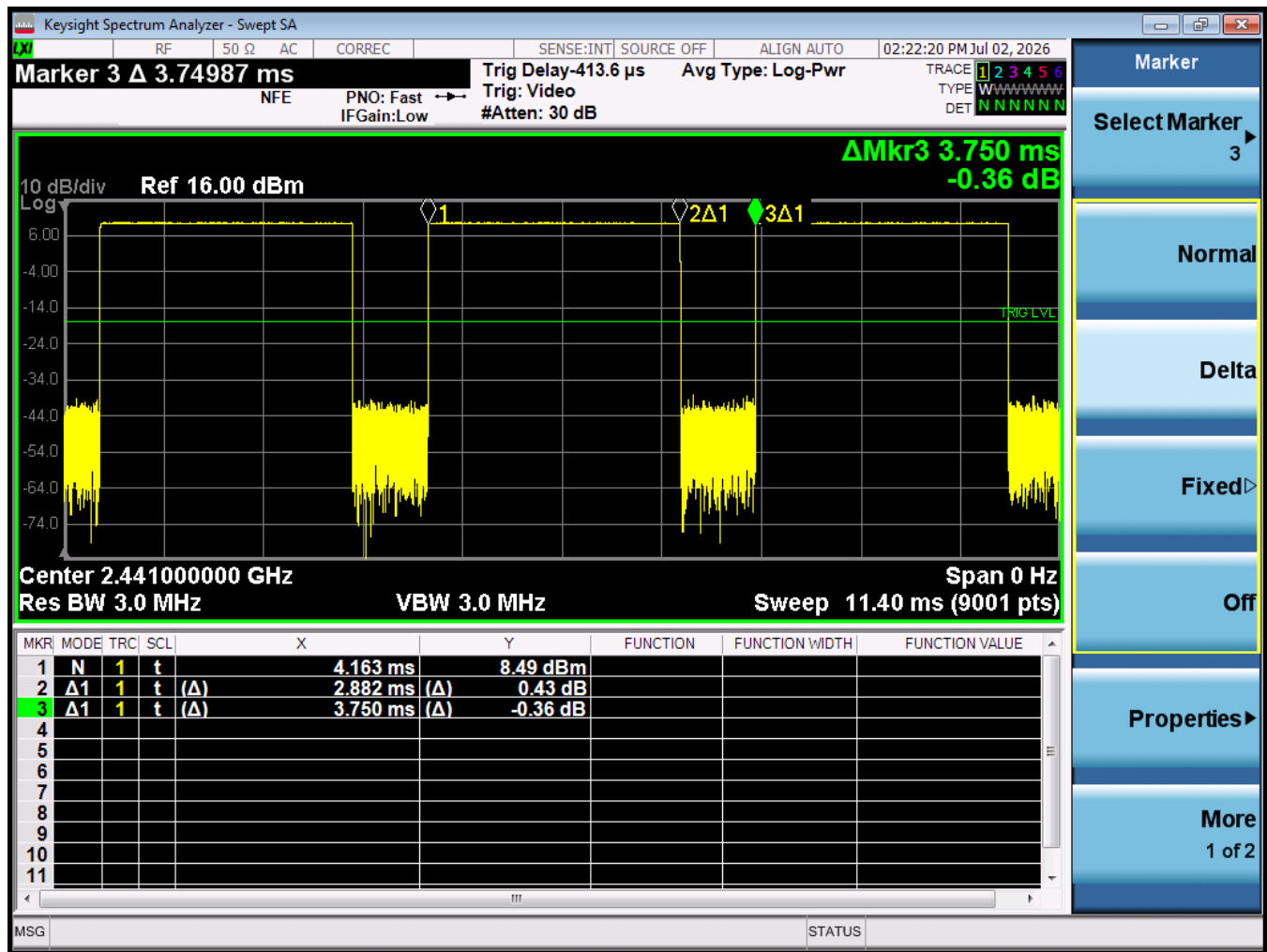


Figure 8-4
Bluetooth Transmission Plot – Antenna 4

Equation 8-3
Bluetooth Antenna 4 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.882\text{ms}}{3.750\text{ms}} * 100\% = 76.85\%$$

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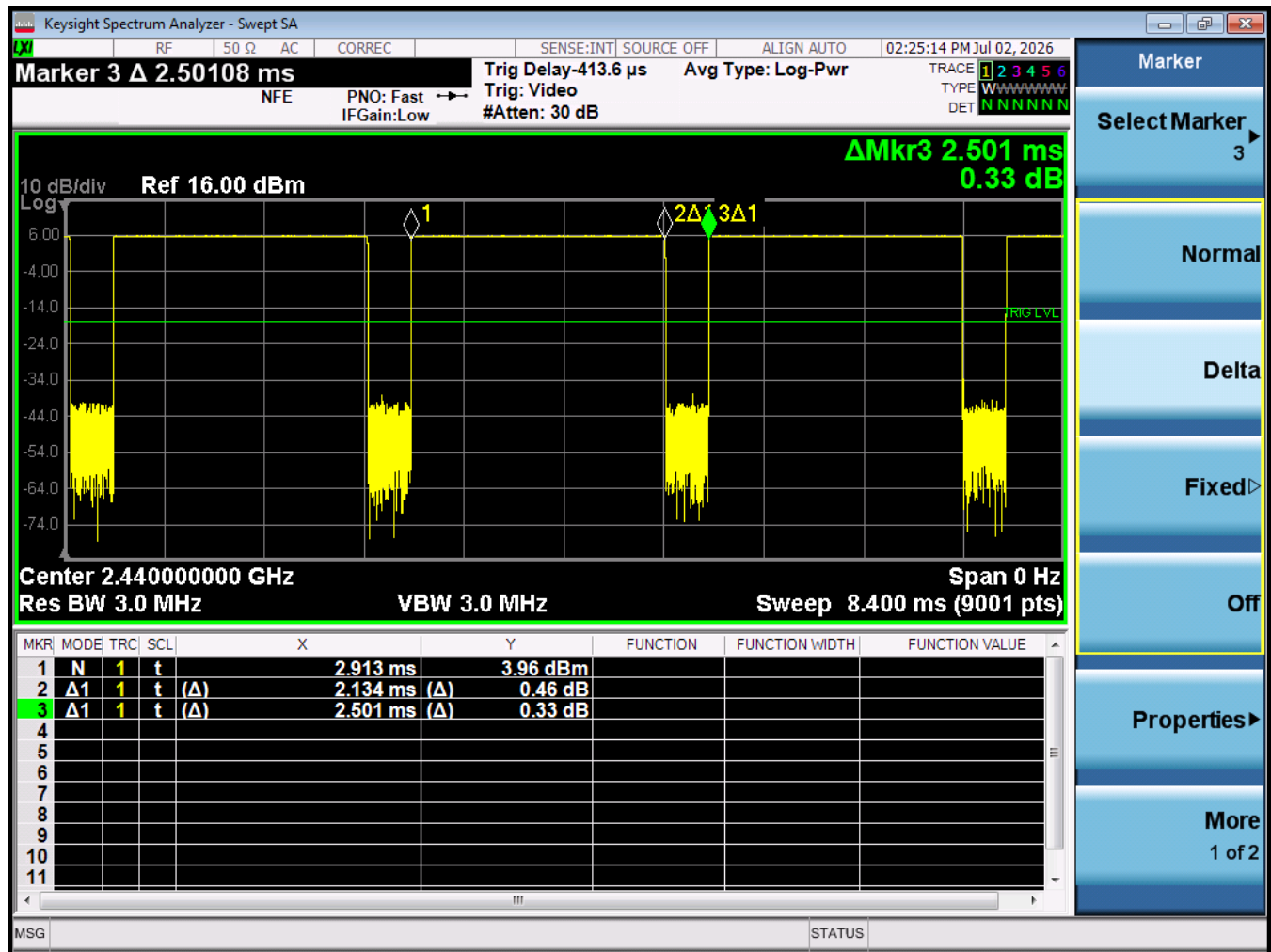


Figure 8-5
Bluetooth LE Transmission Plot – Antenna 4

Equation 8-4
Bluetooth LE Antenna 4 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.134\text{ms}}{2.501\text{ms}} * 100\% = 85.33\%$$

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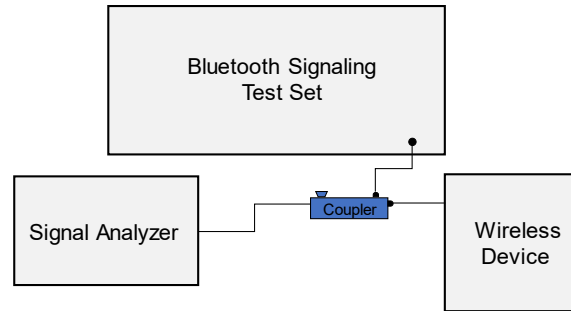


Figure 8-6
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/10/2026	2450 Head	20.1	2300	1.659	40.882	1.670	39.500	-0.66%	3.50%
			2310	1.667	40.869	1.679	39.480	-0.71%	3.52%
			2320	1.674	40.852	1.687	39.460	-0.77%	3.53%
			2400	1.732	40.744	1.756	39.289	-1.37%	3.70%
			2450	1.772	40.668	1.800	39.200	-1.56%	3.74%
			2480	1.794	40.578	1.833	39.162	-2.13%	3.62%
			2500	1.809	40.537	1.855	39.136	-2.48%	3.58%
			2510	1.817	40.525	1.866	39.123	-2.63%	3.58%
			2535	1.839	40.516	1.893	39.092	-2.85%	3.64%
			2550	1.852	40.506	1.909	39.073	-2.99%	3.67%
			2560	1.860	40.487	1.920	39.060	-3.12%	3.65%
			2600	1.890	40.363	1.964	39.009	-3.77%	3.47%
			2650	1.929	40.280	2.018	38.945	-4.41%	3.43%
06/22/2026	2450 Head	19.9	2680	1.954	40.252	2.051	38.907	-4.73%	3.46%
			2300	1.714	40.303	1.670	39.500	2.63%	2.03%
			2310	1.722	40.303	1.679	39.480	2.56%	2.08%
			2320	1.729	40.305	1.687	39.460	2.49%	2.14%
			2400	1.788	40.153	1.756	39.289	1.82%	2.20%
			2450	1.826	40.132	1.800	39.200	1.44%	2.38%
			2480	1.843	40.024	1.833	39.162	0.55%	2.20%
			2500	1.861	39.982	1.855	39.136	0.32%	2.16%
			2510	1.872	39.977	1.866	39.123	0.32%	2.18%
			2535	1.897	39.985	1.893	39.092	0.21%	2.28%
			2550	1.908	39.975	1.909	39.073	-0.05%	2.31%
			2560	1.913	39.955	1.920	39.060	-0.36%	2.29%
			2600	1.939	39.823	1.964	39.009	-1.27%	2.09%
07/06/2026	2450 Head	20.1	2650	1.989	39.781	2.018	38.945	-1.44%	2.15%
			2680	2.010	39.743	2.051	38.907	-2.00%	2.15%
			2700	2.021	39.687	2.073	38.882	-2.51%	2.07%
			2300	1.674	38.381	1.670	39.500	0.21%	-2.83%
			2310	1.681	38.367	1.679	39.480	0.14%	-2.82%
			2320	1.689	38.356	1.687	39.460	0.14%	-2.80%
			2400	1.748	38.232	1.756	39.289	-0.48%	-2.69%
			2450	1.787	38.142	1.800	39.200	-0.71%	-2.70%
			2480	1.812	38.098	1.833	39.162	-1.12%	-2.72%
			2500	1.826	38.073	1.855	39.136	-1.55%	-2.72%
			2510	1.832	38.054	1.866	39.123	-1.80%	-2.73%
			2535	1.848	38.001	1.893	39.092	-2.36%	-2.79%
			2550	1.860	37.972	1.909	39.073	-2.59%	-2.82%
			2560	1.868	37.952	1.920	39.060	-2.70%	-2.84%
			2600	1.903	37.905	1.964	39.009	-3.12%	-2.83%
			2650	1.938	37.806	2.018	38.945	-3.94%	-2.93%
			2680	1.959	37.750	2.051	38.907	-4.47%	-2.97%
			2700	1.976	37.737	2.073	38.882	-4.69%	-2.95%

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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
05/18/2026	5200-5800 Head	19.4	5150	4.422	36.724	4.608	36.050	-4.04%	1.87%
			5160	4.433	36.699	4.618	36.040	-4.01%	1.83%
			5170	4.445	36.681	4.629	36.030	-3.97%	1.81%
			5180	4.455	36.669	4.635	36.009	-3.88%	1.83%
			5190	4.469	36.653	4.645	35.998	-3.79%	1.82%
			5200	4.478	36.633	4.655	35.986	-3.80%	1.80%
			5210	4.486	36.599	4.666	35.975	-3.86%	1.73%
			5220	4.495	36.583	4.676	35.963	-3.87%	1.72%
			5240	4.520	36.553	4.696	35.940	-3.75%	1.71%
			5250	4.532	36.540	4.706	35.929	-3.70%	1.70%
			5260	4.541	36.532	4.717	35.917	-3.73%	1.71%
			5270	4.551	36.524	4.727	35.906	-3.72%	1.72%
			5280	4.559	36.499	4.737	35.894	-3.76%	1.69%
			5290	4.570	36.468	4.748	35.883	-3.75%	1.63%
			5300	4.583	36.448	4.758	35.871	-3.68%	1.61%
			5310	4.596	36.442	4.768	35.860	-3.61%	1.62%
			5320	4.606	36.418	4.778	35.849	-3.60%	1.59%
			5500	4.795	36.112	4.963	35.643	-3.39%	1.32%
			5510	4.808	36.089	4.973	35.632	-3.32%	1.28%
			5520	4.822	36.074	4.983	35.620	-3.23%	1.27%
			5530	4.829	36.068	4.994	35.609	-3.30%	1.29%
			5540	4.838	36.050	5.004	35.597	-3.32%	1.27%
			5550	4.853	36.026	5.014	35.586	-3.21%	1.24%
			5560	4.867	35.999	5.024	35.574	-3.13%	1.19%
			5580	4.888	35.959	5.045	35.551	-3.11%	1.15%
			5600	4.910	35.911	5.065	35.529	-3.06%	1.08%
			5610	4.918	35.907	5.076	35.518	-3.11%	1.10%
			5620	4.925	35.906	5.086	35.506	-3.17%	1.13%
			5640	4.950	35.862	5.106	35.483	-3.06%	1.07%
			5660	4.979	35.831	5.127	35.460	-2.89%	1.05%
			5670	4.987	35.817	5.137	35.449	-2.92%	1.04%
			5680	4.998	35.802	5.147	35.437	-2.89%	1.03%
			5690	5.010	35.770	5.158	35.426	-2.87%	0.97%
			5700	5.024	35.743	5.168	35.414	-2.79%	0.93%
			5710	5.036	35.718	5.178	35.403	-2.74%	0.89%
			5720	5.048	35.697	5.188	35.391	-2.70%	0.86%
			5745	5.071	35.668	5.214	35.363	-2.74%	0.86%
			5750	5.076	35.662	5.219	35.357	-2.74%	0.86%
			5755	5.081	35.651	5.224	35.351	-2.74%	0.85%
			5765	5.095	35.636	5.234	35.340	-2.66%	0.84%
			5775	5.106	35.625	5.245	35.329	-2.65%	0.84%
			5785	5.117	35.618	5.255	35.317	-2.63%	0.85%
			5795	5.130	35.594	5.265	35.305	-2.56%	0.82%
			5805	5.142	35.581	5.275	35.294	-2.52%	0.81%
			5825	5.161	35.544	5.296	35.271	-2.55%	0.77%
			5835	5.169	35.519	5.305	35.230	-2.56%	0.82%
			5845	5.182	35.492	5.315	35.210	-2.50%	0.80%
			5850	5.188	35.480	5.320	35.200	-2.48%	0.80%
			5855	5.195	35.474	5.325	35.197	-2.44%	0.79%
			5875	5.218	35.453	5.347	35.183	-2.41%	0.77%
			5885	5.226	35.438	5.357	35.177	-2.45%	0.74%
			5905	5.256	35.391	5.379	35.163	-2.29%	0.65%

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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
06/09/2026	5200-5800 Head	19.5	5150	4.388	35.045	4.608	36.050	-4.77%	-2.79%
			5160	4.400	35.029	4.618	36.040	-4.72%	-2.81%
			5170	4.411	35.027	4.629	36.030	-4.71%	-2.78%
			5180	4.423	35.004	4.635	36.009	-4.57%	-2.79%
			5190	4.434	34.975	4.645	35.998	-4.54%	-2.84%
			5200	4.443	34.950	4.655	35.986	-4.55%	-2.88%
			5210	4.447	34.932	4.666	35.975	-4.69%	-2.90%
			5220	4.455	34.912	4.676	35.963	-4.73%	-2.92%
			5240	4.475	34.850	4.696	35.940	-4.71%	-3.03%
			5250	4.487	34.834	4.706	35.929	-4.65%	-3.05%
			5260	4.496	34.828	4.717	35.917	-4.69%	-3.03%
			5270	4.508	34.819	4.727	35.906	-4.63%	-3.03%
			5280	4.519	34.799	4.737	35.894	-4.60%	-3.05%
			5290	4.534	34.783	4.748	35.883	-4.51%	-3.07%
			5300	4.548	34.757	4.758	35.871	-4.41%	-3.11%
			5310	4.559	34.737	4.768	35.860	-4.38%	-3.13%
			5320	4.566	34.715	4.778	35.849	-4.44%	-3.16%
			5500	4.731	34.392	4.963	35.643	-4.67%	-3.51%
			5510	4.740	34.380	4.973	35.632	-4.69%	-3.51%
			5520	4.751	34.365	4.983	35.620	-4.66%	-3.52%
			5530	4.762	34.332	4.994	35.609	-4.65%	-3.59%
			5540	4.776	34.305	5.004	35.597	-4.56%	-3.63%
			5550	4.792	34.292	5.014	35.586	-4.43%	-3.64%
			5560	4.808	34.270	5.024	35.574	-4.30%	-3.67%
			5580	4.834	34.228	5.045	35.551	-4.18%	-3.72%
			5600	4.843	34.176	5.065	35.529	-4.38%	-3.81%
			5610	4.851	34.168	5.076	35.518	-4.43%	-3.80%
			5620	4.859	34.139	5.086	35.506	-4.46%	-3.85%
			5640	4.875	34.104	5.106	35.483	-4.52%	-3.89%
			5660	4.895	34.084	5.127	35.460	-4.53%	-3.88%
			5670	4.913	34.069	5.137	35.449	-4.36%	-3.89%
			5680	4.930	34.052	5.147	35.437	-4.22%	-3.91%
			5690	4.947	34.029	5.158	35.426	-4.09%	-3.94%
			5700	4.957	34.000	5.168	35.414	-4.08%	-3.99%
			5710	4.966	33.984	5.178	35.403	-4.09%	-4.01%
			5720	4.974	33.964	5.188	35.391	-4.12%	-4.03%
			5745	4.990	33.916	5.214	35.363	-4.30%	-4.09%
			5750	4.995	33.911	5.219	35.357	-4.29%	-4.09%
			5755	4.998	33.905	5.224	35.351	-4.33%	-4.09%
			5765	5.008	33.887	5.234	35.340	-4.32%	-4.11%
			5775	5.019	33.876	5.245	35.329	-4.31%	-4.11%
			5785	5.032	33.867	5.255	35.317	-4.24%	-4.11%
			5795	5.048	33.844	5.265	35.305	-4.12%	-4.14%
			5805	5.062	33.829	5.275	35.294	-4.04%	-4.15%
			5825	5.088	33.787	5.296	35.271	-3.93%	-4.21%
			5835	5.094	33.774	5.305	35.230	-3.98%	-4.13%
			5845	5.102	33.742	5.315	35.210	-4.01%	-4.17%
			5850	5.107	33.723	5.320	35.200	-4.00%	-4.20%
			5855	5.111	33.707	5.325	35.197	-4.02%	-4.23%
			5875	5.127	33.692	5.347	35.183	-4.11%	-4.24%
			5885	5.133	33.688	5.357	35.177	-4.18%	-4.23%
			5905	5.152	33.650	5.379	35.163	-4.22%	-4.30%

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Table 9-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/27/2026	6000 Head	19.0	5935	5.260	34.966	5.411	35.143	-2.79%	-0.50%
			5970	5.299	34.878	5.448	35.120	-2.73%	-0.69%
			5985	5.323	34.833	5.464	35.110	-2.58%	-0.79%
			6000	5.322	34.793	5.480	35.100	-2.88%	-0.87%
			6025	5.350	34.779	5.510	35.070	-2.90%	-0.83%
			6065	5.419	34.678	5.557	35.022	-2.48%	-0.98%
			6075	5.430	34.612	5.569	35.010	-2.50%	-1.14%
			6085	5.438	34.570	5.580	34.998	-2.54%	-1.22%
			6185	5.589	34.605	5.698	34.878	-1.91%	-0.78%
			6275	5.736	34.413	5.805	34.770	-1.19%	-1.03%
			6285	5.733	34.452	5.816	34.758	-1.43%	-0.88%
			6305	5.750	34.481	5.840	34.734	-1.54%	-0.73%
			6345	5.799	34.309	5.887	34.686	-1.49%	-1.09%
			6475	5.954	34.036	6.041	34.530	-1.44%	-1.43%
			6485	5.974	34.041	6.052	34.518	-1.29%	-1.38%
			6500	6.003	34.074	6.070	34.500	-1.10%	-1.23%
			6505	6.007	34.084	6.076	34.494	-1.14%	-1.19%
			6545	6.009	34.109	6.122	34.446	-1.85%	-0.98%
			6665	6.104	33.830	6.265	34.302	-2.57%	-1.38%
			6675	6.121	33.846	6.273	34.290	-2.42%	-1.29%
			6685	6.142	33.806	6.285	34.278	-2.28%	-1.38%
			6715	6.153	33.762	6.319	34.242	-2.63%	-1.40%
			6785	6.235	33.576	6.400	34.158	-2.58%	-1.70%
			6825	6.277	33.619	6.447	34.110	-2.64%	-1.44%
			6985	6.417	33.253	6.633	33.918	-3.26%	-1.96%
			6995	6.402	33.246	6.644	33.906	-3.64%	-1.95%
			7000	6.401	33.244	6.650	33.900	-3.74%	-1.94%
			7005	6.404	33.232	6.656	33.894	-3.79%	-1.95%
			7025	6.450	33.112	6.680	33.870	-3.44%	-2.24%
06/01/2026	6000 Head	20.1	6000	5.339	35.252	5.480	35.100	-2.57%	0.43%
			6025	5.379	35.259	5.510	35.070	-2.38%	0.54%
			6065	5.426	35.211	5.557	35.022	-2.36%	0.54%
			6075	5.433	35.194	5.569	35.010	-2.44%	0.53%
			6085	5.443	35.171	5.580	34.998	-2.46%	0.49%
			6185	5.578	34.963	5.698	34.878	-2.11%	0.24%
			6275	5.689	34.732	5.805	34.770	-2.00%	-0.11%
			6285	5.700	34.716	5.816	34.758	-1.99%	-0.12%
			6305	5.727	34.702	5.840	34.734	-1.93%	-0.09%
			6345	5.794	34.594	5.887	34.686	-1.58%	-0.27%
			6475	5.982	34.216	6.041	34.530	-0.98%	-0.91%
			6485	5.990	34.197	6.052	34.518	-1.02%	-0.93%
			6500	5.998	34.185	6.070	34.500	-1.19%	-0.91%
			6505	6.000	34.174	6.076	34.494	-1.25%	-0.93%
			6545	6.047	34.020	6.122	34.446	-1.23%	-1.24%
			6665	6.176	33.597	6.265	34.302	-1.42%	-2.06%
			6675	6.188	33.548	6.273	34.290	-1.36%	-2.16%
			6685	6.203	33.523	6.285	34.278	-1.30%	-2.20%
			6715	6.255	33.476	6.319	34.242	-1.01%	-2.24%
			6785	6.300	33.214	6.400	34.158	-1.56%	-2.76%
			6825	6.377	33.146	6.447	34.110	-1.09%	-2.83%
			6985	6.516	32.898	6.633	33.918	-1.76%	-3.01%
			6995	6.514	32.894	6.644	33.906	-1.96%	-2.98%
			7000	6.511	32.887	6.650	33.900	-2.09%	-2.99%
			7005	6.509	32.873	6.656	33.894	-2.21%	-3.01%
			7025	6.524	32.796	6.680	33.870	-2.34%	-3.17%
			7500	7.119	32.387	7.240	33.300	-1.67%	-2.74%

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 9-5
System Verification Results**

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
L	2450	Head	06/10/2026	20.7	20.1	0.10	719	7539	1450	5.21	52.20	52.10	-0.19%	2.43	24.60	24.30	-1.22%	N/A	N/A	N/A	N/A
L	2450	Head	06/22/2026	20.9	19.0	0.10	719	7539	1450	5.68	52.20	56.80	8.81%	2.64	24.60	26.40	7.32%	N/A	N/A	N/A	N/A
L	2450	Head	07/06/2026	21.8	20.2	0.10	719	7539	1450	5.72	52.20	57.20	9.58%	2.67	24.60	26.70	8.54%	N/A	N/A	N/A	N/A
S	5250	Head	05/18/2026	20.5	20.5	0.05	1191	7661	1558	3.64	78.40	72.80	-7.14%	1.05	22.50	21.00	-6.67%	N/A	N/A	N/A	N/A
S	5250	Head	06/29/2026	24.2	21.4	0.05	1191	3914	728	3.54	78.40	70.80	-9.69%	1.02	22.50	20.40	-9.33%	N/A	N/A	N/A	N/A
S	5600	Head	05/18/2026	20.5	20.5	0.05	1191	7661	1558	3.71	77.50	74.20	-4.26%	1.06	22.30	21.20	-4.93%	N/A	N/A	N/A	N/A
S	5600	Head	06/29/2026	24.2	21.4	0.05	1191	3914	728	4.02	77.50	80.40	3.74%	1.15	22.30	23.00	3.14%	N/A	N/A	N/A	N/A
S	5750	Head	05/18/2026	20.5	20.5	0.05	1191	7661	1558	3.43	75.40	68.60	-9.02%	0.978	21.50	19.56	-9.02%	N/A	N/A	N/A	N/A
S	5750	Head	06/29/2026	24.2	21.4	0.05	1191	3914	728	3.66	75.40	73.20	-2.92%	1.04	21.50	20.80	-3.26%	N/A	N/A	N/A	N/A
S	5850	Head	05/18/2026	20.5	20.5	0.05	1191	7661	1558	3.53	76.80	70.60	-8.07%	0.999	21.90	19.98	-8.77%	N/A	N/A	N/A	N/A
S	5850	Head	06/29/2026	24.2	21.4	0.05	1191	3914	728	3.56	76.80	71.20	-7.29%	1.02	21.90	20.40	-6.85%	N/A	N/A	N/A	N/A
M	6500	Head	04/27/2026	20.3	19.0	0.025	1018	7406	1677	7.94	298.00	317.60	6.58%	1.48	55.70	59.20	6.28%	35.90	1350.00	1436.00	6.37%
M	6500	Head	06/01/2026	20.0	20.1	0.025	1111	7406	1677	7.60	288.00	304.00	5.56%	1.41	53.30	56.40	5.82%	34.10	1350.00	1364.00	1.04%

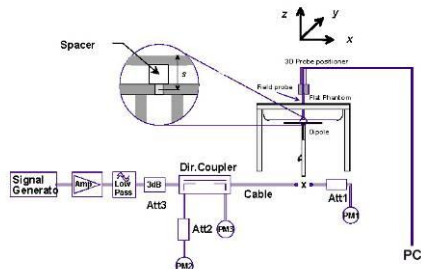


**Figure 9-1
System Verification Setup Diagram**



**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.

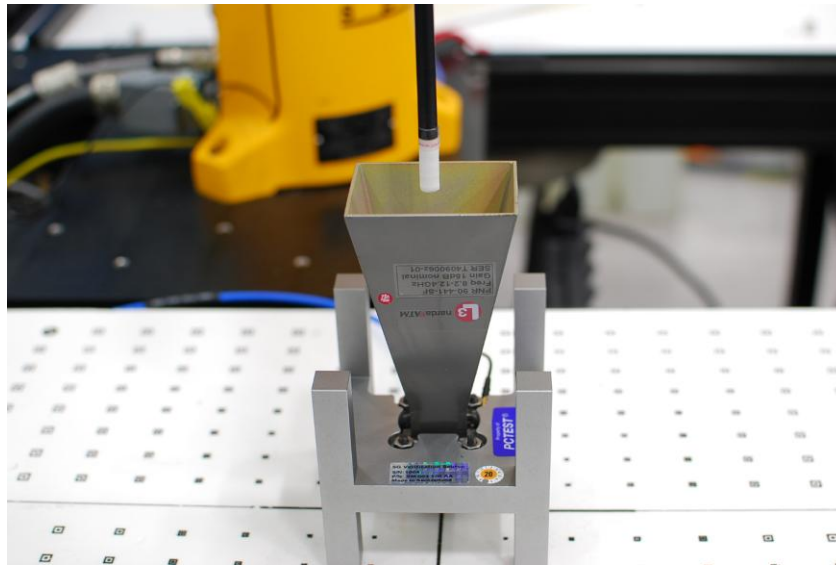


Figure 9-3
System Verification Setup Photo

Table 9-6
10 GHz Verifications

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
Q	10	06/01/2026	1004	9389	93.3	57.60	58.90	-0.10	57.70	59.80	-0.16
Q	10	06/08/2026	1004	9389	93.3	55.40	58.90	-0.27	55.50	59.80	-0.32

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

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10 SAR DATA SUMMARY

10.1 2.4 GHz WIFI SISO Standalone SAR

Table 10-1
2.4 GHz WIFI Antenna 3 – Index 0

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	78TFT2609	97.22	-0.01	2437.00	6	1.0	21.0	20.42	Back	25	0.103	1.143	1.029	0.120	0.075		30.2	29.0
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	78TFT2609	97.22	0.00	2437.00	6	1.0	21.0	20.42	Top	25	0.133	1.143	1.029	0.156	0.098		29.0	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	78TFT2609	97.22	0.39	2412.00	1	1.0	21.0	20.79	Bottom	0	0.002	1.050	1.029	0.002	0.002		47.6	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	78TFT2609	97.22	-0.14	2462.00	11	1.0	21.0	20.42	Right	25	0.024	1.143	1.029	0.028	0.018		36.4	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	78TFT2609	97.22	-0.03	2462.00	11	1.0	21.0	20.42	Left	25	0.013	1.143	1.029	0.015	0.009		39.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-2
2.4 GHz WIFI Antenna 4 - Index 0 | Plot I1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	78TFT2609	96.57	-0.01	2437.00	6	1.0	21.0	20.15	Back	25	0.161	1.216	1.036	0.203	0.127		27.9	26.9
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	78TFT2609	96.57	-0.03	2412.00	1	1.0	21.0	20.47	Top	25	0.219	1.130	1.036	0.256	0.160		26.9	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	78TFT2609	96.57	0.09	2412.00	1	1.0	21.0	20.47	Bottom	0	0.006	1.130	1.036	0.007	0.004	Plot	42.5	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	78TFT2609	96.57	0.36	2412.00	1	1.0	21.0	20.47	Right	25	0.033	1.130	1.036	0.039	0.024		35.1	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	78TFT2609	96.57	0.04	2412.00	1	1.0	21.0	20.47	Left	25	0.036	1.130	1.036	0.042	0.026		34.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-3
2.4 GHz WIFI Antenna 3 - Index 3 | Plot I2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	-0.01	2437.00	6	1.0	16.0	14.94	Back	5	0.306	1.276	1.029	0.481	0.301		19.1	18.0
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	0.07	2437.00	6	1.0	16.0	14.94	Top	5	0.475	1.276	1.029	0.628	0.390	Plot	18.0	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	-0.09	2462.00	11	1.0	16.0	15.13	Bottom	5	0.000	1.222	1.029	0.000	0.000		55.0	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	0.05	2462.00	11	1.0	16.0	15.13	Right	5	0.012	1.222	1.029	0.015	0.009		34.2	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	0.05	2462.00	11	1.0	16.0	15.13	Left	5	0.002	1.222	1.029	0.003	0.002		51.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-4
2.4 GHz WIFI Antenna 4 - Index 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	4TDRD2609	96.57	0.06	2437.00	6	1.0	16.0	14.78	Back	5	0.454	1.324	1.036	0.623	0.389		18.0	18.0
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	4TDRD2609	96.57	-0.08	2412.00	1	1.0	16.0	15.06	Top	5	0.456	1.242	1.036	0.587	0.367		18.3	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	4TDRD2609	96.57	0.09	2412.00	1	1.0	16.0	15.06	Bottom	5	0.000	1.242	1.036	0.000	0.000		54.9	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	4TDRD2609	96.57	0.11	2412.00	1	1.0	16.0	15.06	Right	5	0.006	1.242	1.036	0.008	0.005		37.1	
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	4	4TDRD2609	96.57	0.01	2412.00	1	1.0	16.0	15.06	Left	5	0.010	1.242	1.036	0.013	0.008		34.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 10-5
2.4 GHz WIFI Antenna 3 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	0.00	2437.00	6	1.0	11.5	10.48	Back	5	0.159	1.265	1.029	0.207	0.129		18.3	17.6
Body	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	3	4TDRD2609	97.22	-0.16	2437.00	6	1.0	11.5	10.48	Top	5	0.173	1.265	1.029	0.225	0.141		17.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Body 1.6 W/kg (mW/g) averaged over 1 gram							

FCC ID C3K00002101	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager	
Document S/N: 1M2606300058-01.C3K	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.									Page 54 of 70	

Table 10-6
2.4 GHz WIFI Antenna 4 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	4	4TQD2609	96.57	0.07	2437.00	6	1.0	13.0	12.89	Back	5	0.125	1.250	1.036	0.162	0.101		20.9	19.1
Body	2.4 GHz WiFi/ IEEE 802.11b	22	DSSS	4	4TQD2609	96.57	0.05	2412.00	1	1.0	13.0	12.58	Top	5	0.155	1.208	1.036	0.244	0.153		19.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT												Spatial Peak										
Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

10.2 5 GHz WIFI Standalone SAR

Table 10-7
5 GHz WIFI Antenna 3 - Index 0 | Plot I3, I4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	0.16	5200.00	40	U-NII-1	6.0	17.0	15.85	Back	25	0.267	1.303	1.013	0.352	0.220		21.5
Body	5 GHz WIFI / IEEE 802.11a	40	OFDM	3	4TQD2609	99.33	0.06	5270.00	54	U-NII-2A	13.5	15.5	15.45	Back	25	0.321	1.012	1.007	0.327	0.204		20.3
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	4TQD2609	99.04	0.18	5600.00	138	U-NII-2C	29.3	17.0	15.79	Back	25	0.279	1.321	1.010	0.322	0.233		21.2
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	0.05	5825.00	165	U-NII-3	6.0	21.5	21.11	Back	25	0.810	1.094	1.013	0.898	0.561	Plot	21.9
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	0.05	5825.00	165	U-NII-3	6.0	21.5	21.11	Back	25	0.810	1.094	1.013	0.898	0.561		22.0
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	4TQD2609	99.04	0.06	5855.00	171	U-NII-4	29.3	18.0	17.25	Back	25	0.329	1.216	1.010	0.379	0.236		22.2
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	-0.11	5825.00	165	U-NII-3	6.0	21.5	21.11	Top	25	0.179	1.094	1.013	0.197	0.123		28.5
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	C326093	98.72	-0.10	5200.00	40	U-NII-1	6.0	17.0	15.85	Bottom	0	0.005	1.303	1.013	0.007	0.004		38.8
Body	5 GHz WIFI / IEEE 802.11a	40	OFDM	3	4TQD2609	99.33	0.08	5270.00	54	U-NII-2A	13.5	15.5	15.45	Bottom	0	0.006	1.012	1.007	0.006	0.004		37.6
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	C326093	99.04	0.04	5600.00	138	U-NII-2C	29.3	17.0	15.79	Bottom	0	0.000	1.321	1.010	0.000	0.000		35.7
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	C326093	98.72	0.07	5825.00	165	U-NII-3	6.0	21.5	21.11	Bottom	0	0.015	1.094	1.013	0.017	0.011		39.2
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	TC326093	99.04	0.04	5855.00	171	U-NII-4	29.3	18.0	17.25	Bottom	0	0.019	1.216	1.010	0.024	0.014	Plot	34.3
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	0.09	5825.00	165	U-NII-3	6.0	21.5	21.11	Right	25	0.022	1.094	1.013	0.024	0.015		37.6
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	3	4TQD2609	98.72	0.08	5825.00	165	U-NII-3	6.0	21.5	21.11	Left	25	0.000	1.094	1.013	0.000	0.000		61.0
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

Table 10-8
5 GHz WIFI Antenna 4 - Index 0

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	4TQD2609	98.77	-0.09	5200.00	40	U-NII-1	6.0	17.0	15.61	Back	25	0.872	1.377	1.012	0.300	0.063		26.9
Body	5 GHz WIFI / IEEE 802.11a	40	OFDM	4	4TQD2609	99.52	0.01	5270.00	54	U-NII-2A	13.5	15.5	15.11	Back	25	0.087	1.094	1.005	0.096	0.060		25.6
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	4TQD2609	99.04	0.01	5600.00	138	U-NII-2C	29.3	17.0	15.29	Back	25	0.194	1.483	1.010	0.291	0.182		22.9
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	4TQD2609	98.77	0.12	5825.00	165	U-NII-3	6.0	21.5	20.99	Back	25	0.414	1.125	1.012	0.471	0.294		24.7
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	4TQD2609	99.04	-0.09	5855.00	171	U-NII-4	29.3	18.0	16.71	Back	25	0.266	1.346	1.010	0.362	0.226		22.4
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	4TQD2609	98.77	0.03	5825.00	165	U-NII-3	6.0	21.5	20.99	Bottom	0	0.118	1.125	1.012	0.134	0.084		30.2
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	C326093	98.77	0.06	5200.00	40	U-NII-1	6.0	17.0	15.61	Top	25	0.000	1.377	1.012	0.000	0.000		55.5
Body	5 GHz WIFI / IEEE 802.11a	40	OFDM	4	4TQD2609	99.52	0.08	5270.00	54	U-NII-2A	13.5	15.5	15.11	Bottom	0	0.000	1.094	1.005	0.000	0.000		55.0
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	C326093	99.04	0.04	5600.00	138	U-NII-2C	29.3	17.0	15.29	Bottom	0	0.004	1.483	1.010	0.006	0.004		39.2
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	C326093	98.77	0.07	5825.00	165	U-NII-3	6.0	21.5	20.99	Bottom	0	0.014	1.125	1.012	0.016	0.010		39.4
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	TC326093	99.04	0.09	5855.00	171	U-NII-4	29.3	18.0	16.71	Bottom	0	0.005	1.346	1.010	0.007	0.004		39.6
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	4TQD2609	98.77	0.04	5825.00	165	U-NII-3	6.0	21.5	20.99	Right	25	0.000	1.125	1.012	0.000	0.000		60.9
Body	5 GHz WIFI / IEEE 802.11a	20	OFDM	4	4TQD2609	98.77	0.01	5825.00	165	U-NII-3	6.0	21.5	20.99	Left	25	0.010	1.125	1.012	0.011	0.007		40.9
ANSI/IEEE C63.1 1992 - SAFETY LIMIT												Body Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram										

Table 10-9
5 GHz WIFI Antenna 3 - Index 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]
Body	5 GHz WIFI / IEEE 802.11a	40	OFDM	3	78T82609	99.33	-0.04	5270.00	54	U-NII-2A	13.5	15.5	14.46	Back	5	0.642	1.271	1.007	0.822	0.514		16.3
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.04	5610.00	122	U-NII-2C	29.3	15.0	13.33	Back	5	0.604	1.469	1.010	0.896	0.560		15.4
Body	5 GHz WIFI / IEEE 802.11a	80	OFDM	3	4TQD2609	99.04	0.12	5270.00	155	U-NII-3	29.3	15.0	13.48	Back	5	0.547	1.419	1.010	0.784	0.404		16.8
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	4TQD2609	99.04	0.14	5855.00	171	U-NII-4	29.3	15.0	13.70	Back	5	0.663	1.349	1.010	0.901	0.564		15.4
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.05	5855.00	171	U-NII-4	29.3	15.0	13.70	Top	5	0.192	1.349	1.010	0.262	0.164		20.8
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.06	5855.00	171	U-NII-4	29.3	15.0	13.70	Bottom	5	0.005	1.349	1.010	0.007	0.004		36.6
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.02	5855.00	171	U-NII-4	29.3	15.0	13.70	Right	5	0.007	1.349	1.010	0.010	0.006		35.2
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.02	5855.00	171	U-NII-4	29.3	15.0	13.70	Left	5	0.000	1.349	1.010	0.000	0.000		53.6
ANSI/IEEE C63.1 1992 - SAFETY LIMIT												Spatial Peak Uncontrolled Exposure/General Population										
															1.6 W/kg averaged over 1 gram							

Table 10-10
5 GHz WIFI Antenna 4 - Index 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]
Body	5 GHz WIFI / IEEE 802.11n	40	OFDM	4	78T82609	99.52	0.12	5270.00	54	U-NII-2A	13.5	15.00	13.48	Back	5	0.411	1.419	1.005	0.586	0.366		17.3
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	4TQD2609	99.04	0.08	5610.00	122	U-NII-2C	29.3	14.25	12.38	Back	5	0.414	1.538	1.010	0.643	0.402		16.3
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	4TQD2609	99.04	0.11	5775.00	155	U-NII-3	29.3	15.50	13.54	Back	5	0.524	1.570	1.010	0.831	0.519		16.3
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	4TQD2609	99.04	0.07	5855.00	171	U-NII-4	29.3	15.50	13.82	Back	5	0.489	1.472	1.010	0.731	0.457		16.8
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	-0.17	5775.00	155	U-NII-3	29.3	15.50	13.54	Bottom	5	0.533	0.243	0.152	0.243	0.152		21.6
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.07	5775.00	155	U-NII-3	29.3	15.50	13.54	Bottom	5	0.600	1.570	1.010	0.000	0.000		53.4
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.06	5775.00	155	U-NII-3	29.3	15.50	13.54	Right	5	0.600	1.570	1.010	0.000	0.000		53.4
Body	5 GHz WIFI / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.06	5775.00	155	U-NII-3	29.3	15.50	13.54	Left	5	0.603	1.570	1.010	0.000	0.000		58.7
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Uncontrolled Exposure (General Population)																Body						
																1.6 W/kg (mm/kg)						
																averaged over 1 gram						

Table 10-11
5 GHz WIFI Antenna 3 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	-0.04	5290.00	58	U-NII-2A	29.3	10.5	8.41	Back	5	0.266	1.285	1.010	0.219	0.109		15.4
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.05	5690.00	138	U-NII-2C	29.3	10.0	8.47	Back	5	0.182	1.422	1.010	0.233	0.146		16.3
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.03	5775.00	155	U-NII-3	29.3	10.0	8.22	Back	5	0.144	1.507	1.010	0.219	0.137		16.5
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.06	5855.00	171	U-NII-4	29.3	10.0	8.54	Back	5	0.177	1.400	1.010	0.250	0.156		16.0
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	3	78T82609	99.04	0.09	5290.00	58	U-NII-2A	29.3	10.5	8.45	Top	5	0.060	1.285	1.010	0.076	0.049		21.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 10-12
5 GHz WIFI Antenna 4 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Limit [dBm]
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.03	5290.00	58	U-NII-2A	29.3	11.00	10.00	Back	5	0.205	1.259	1.010	0.261	0.163		16.8
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.01	5690.00	138	U-NII-2C	29.3	10.25	8.64	Back	5	0.126	1.449	1.010	0.258	0.161		16.1
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.08	5775.00	155	U-NII-3	29.3	10.50	8.74	Back	5	0.154	1.500	1.010	0.233	0.146		16.8
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	-0.21	5855.00	171	U-NII-4	29.3	10.50	8.74	Back	5	0.208	1.500	1.010	0.315	0.187		15.5
Body	5 GHz WiFi / IEEE 802.11ac	80	OFDM	4	78T82609	99.04	0.09	5290.00	58	U-NII-2A	29.3	11.00	10.00	Top	5	0.093	1.259	1.010	0.067	0.042		22.7
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

10.3 6 GHz Standalone SAR

Table 10-13
6 GHz WIFI Antenna 3 - Index 0 | Plot 15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Limit [dBm]
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.07	6305.00	31	U-NII-5	136.1	17.0	16.92	Back	25	0.263	1.019	1.023	0.212	0.133		23.7
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.06	6665.00	143	U-NII-7	68.1	19.0	18.27	Back	25	0.067	1.183	1.012	0.200	0.125		25.9
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.11	6305.00	31	U-NII-5	136.1	17.0	16.92	Top	25	0.112	1.019	1.023	0.117	0.071		26.3
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.16	6665.00	143	U-NII-7	68.1	19.0	18.27	Top	25	0.172	1.183	1.012	0.206	0.129		25.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.04	6305.00	31	U-NII-5	136.1	17.0	16.92	Bottom	0	0.021	1.019	1.013	0.028	0.008	Plot	36.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.02	6305.00	63	U-NII-5	136.1	19.0	17.99	Bottom	0	0.009	1.262	1.023	0.012	0.008		38.3
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.07	6425.00	95	U-NII-6	136.1	11.0	9.62	Bottom	0	0.001	1.374	1.023	0.001	0.001		39.5
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.09	6665.00	143	U-NII-7	68.1	19.0	18.27	Bottom	0	0.008	1.183	1.012	0.010	0.006		39.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.09	6905.00	191	U-NII-8	136.1	12.0	11.04	Bottom	0	0.000	1.247	1.023	0.000	0.000		50.9
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.09	6305.00	31	U-NII-5	136.1	17.0	16.92	Right	25	0.097	1.019	1.023	0.058	0.011		34.5
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.08	6665.00	143	U-NII-7	68.1	19.0	18.27	Right	25	0.023	1.183	1.012	0.026	0.010		37.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.06	6305.00	31	U-NII-5	136.1	17.0	16.92	Left	25	0.002	1.019	1.023	0.002	0.001		43.8
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	-0.01	6665.00	143	U-NII-7	68.1	19.0	18.27	Left	25	0.005	1.183	1.012	0.006	0.004		41.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured AFO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported AFO [W/m² (4cm²)]	AFO Exposure Ratio	Plot #	Limit [dBm]
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.07	6305.00	31	U-NII-5	136.1	17.0	16.92	Back	25	1.950	1.019	1.023	2.033	0.102		24.9
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.06	6665.00	143	U-NII-7	68.1	19.0	18.27	Back	25	1.500	1.183	1.012	1.856	0.093		27.3
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.11	6305.00	31	U-NII-5	136.1	17.0	16.92	Top	25	1.070	1.019	1.013	1.215	0.056		27.5
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.16	6665.00	143	U-NII-7	68.1	19.0	18.27	Top	25	1.580	1.183	1.012	1.892	0.095		27.2
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.04	6305.00	31	U-NII-5	136.1	17.0	16.92	Bottom	0	0.120	1.019	1.023	0.125	0.006		37.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.02	6285.00	63	U-NII-5	136.1	19.0	17.99	Bottom	0	0.079	1.262	1.023	0.105	0.005		39.5
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.07	6425.00	95	U-NII-6	136.1	11.0	9.62	Bottom	0	0.007	1.374	1.023	0.010	0.001		42.0
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.09	6665.00	143	U-NII-7	68.1	19.0	18.27	Bottom	0	0.004	1.183	1.012	0.077	0.004		41.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	78T7T2609	97.71	0.09	6905.00	191	U-NII-8	136.1	12.0	11.04	Bottom	0	0.000	1.247	1.023	0.000	0.000		61.9
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.09	6305.00	31	U-NII-5	136.1	17.0	16.92	Right	25	0.157	1.019	1.013	0.164	0.008		35.8
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	0.09	6665.00	143	U-NII-7	68.1	19.0	18.27	Right	25	0.129	1.183	1.012	0.154	0.008		38.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	4TDQ2609	97.71	0.06	6305.00	31	U-NII-5	136.1	17.0	16.92	Left	25	0.008	1.019	1.023	0.008	0.000		48.7
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	3	78T7T2609	98.77	-0.01	6665.00	143	U-NII-7	68.1	19.0	18.27	Left	25	0.049	1.183	1.012	0.059	0.003		42.3

FCC ID C3K00002101		RF EXPOSURE PART 1 TEST REPORT														Approved by: Technical Manager					
Document S/N: 1M2606300058-01.C3K	DUT Type: Wireless Module	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.														Page 56 of 70					



Table 10-14
6 GHz WIFI Antenna 4 - Index 0

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plot #
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.07	6105.00	31	U-NII-5	136.1	17.0	16.87	Back	25	0.226	1.030	1.023	0.238	0.149		23.2
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	781C32609	98.77	0.06	6665.00	143	U-NII-7	68.1	19.0	17.86	Back	25	0.151	1.300	1.012	0.171	0.107		26.6
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	-0.10	6105.00	31	U-NII-5	136.1	17.0	16.87	Top	25	0.305	1.030	1.023	0.111	0.069		26.5
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	781C32609	98.77	0.01	6665.00	143	U-NII-7	68.1	19.0	17.86	Top	25	0.239	1.300	1.012	0.209	0.131		25.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.04	6105.00	31	U-NII-5	136.1	17.0	16.87	Bottom	0	0.004	1.030	1.023	0.004	0.003		40.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.08	6265.00	63	U-NII-5	136.1	19.0	17.85	Bottom	0	0.000	1.303	1.023	0.000	0.000		57.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.01	6425.00	95	U-NII-6	136.1	11.0	9.62	Bottom	0	0.000	1.374	1.023	0.000	0.000		49.5
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	4T0RD2609	98.77	0.03	6665.00	143	U-NII-7	68.1	19.0	17.86	Bottom	0	0.001	1.300	1.012	0.001	0.001		47.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.02	6905.00	191	U-NII-8	136.1	12.0	10.96	Bottom	0	0.000	1.271	1.023	0.000	0.000		50.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.20	6105.00	31	U-NII-5	136.1	17.0	16.87	Right	25	0.010	1.030	1.023	0.011	0.007		36.7
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	781C32609	98.77	0.10	6665.00	143	U-NII-7	68.1	19.0	17.86	Right	25	0.003	1.300	1.012	0.004	0.003		43.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.05	6105.00	31	U-NII-5	136.1	17.0	16.87	Left	25	0.055	1.030	1.023	0.010	0.010		35.0
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	781C32609	98.77	0.02	6665.00	143	U-NII-7	68.1	19.0	17.86	Left	25	0.001	1.300	1.012	0.041	0.026		32.8
ANSI/IEEE C63.19P2 SAFETY LIMIT																Body						
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)						
																averaged over 1 gram						

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plot #
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.07	6105.00	31	U-NII-5	136.1	17.0	16.87	Back	25	2.130	1.030	1.023	2.265	0.113		24.4
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4	781C32609	98.77	0.06	6665.00	143	U-NII-7	68.1	19.0	17.86	Back	25	1.170	1.300	1.012	1.539	0.077		28.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	-0.10	6105.00	31	U-NII-5	136.1	17.0	16.87	Top	25	0.962	1.030	1.023	0.993	0.050		28.0
Body	6 GHz WiFi / IEEE 802.11be	160	OFDM	4	781C32609	98.77	0.01	6665.00	143	U-NII-7	68.1	19.0	17.86	Top	25	1.309	1.300	1.012	1.776	0.089		27.5
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.04	6105.00	31	U-NII-5	136.1	17.0	16.87	Bottom	0	0.029	1.030	1.023	0.031	0.002		43.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.08	6265.00	63	U-NII-5	136.1	19.0	17.85	Bottom	0	0.004	1.303	1.023	0.005	0.003		52.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.01	6425.00	95	U-NII-6	136.1	11.0	9.62	Bottom	0	0.002	1.374	1.023	0.003	0.000		47.5
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4	4T0RD2609	98.77	0.03	6665.00	143	U-NII-7	68.1	19.0	17.86	Bottom	0	0.014	1.300	1.012	0.018	0.001		47.3
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	4T0RD2609	97.71	0.02	6905.00	193	U-NII-8	136.1	12.0	10.96	Bottom	0	0.000	1.271	1.023	0.000	0.000		61.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.20	6105.00	31	U-NII-5	136.1	17.0	16.87	Right	25	0.093	1.030	1.023	0.098	0.005		38.0
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4	781C32609	98.77	0.00	6665.00	143	U-NII-7	68.1	19.0	17.86	Right	25	0.027	1.300	1.012	0.036	0.002		44.4
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	4	781C32609	97.71	0.05	6105.00	31	U-NII-5	136.1	17.0	16.87	Left	25	0.240	1.030	1.023	0.146	0.007		36.3
Body	6 GHz WiFi / IEEE 802.11ax	160	OFDM	4	781C32609	98.77	0.02	6665.00	143	U-NII-7	68.1	19.0	17.86	Left	25	0.292	1.300	1.012	0.384	0.019		34.1
AVE/IEEE C63.19P2 SAFETY LIMIT																						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																						

Table 10-15
6 GHz WIFI Antenna 3 - Index 3| Plot 16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plot #	Plot #
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.05	6105.00	31	U-NII-5	136.1	10.25	9.26	Back	0	0.742	1.256	1.023	0.953	0.596		10.4	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.08	6265.00	63	U-NII-5	136.1	10.25	9.22	Back	0	0.779	1.268	1.023	1.010	0.631		9.7	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.09	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	0.855	1.279	1.023	1.119	0.699		10.2	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	Keyboard	4T0R02609	97.71	-0.21	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	0.199	1.279	1.023	0.260	0.161		16.0	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.05	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	0.855	1.279	1.023	1.112	0.695		9.7	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.01	6745.00	159	U-NII-7	136.1	10.50	9.61	Back	0	0.717	1.227	1.023	0.900	0.561		10.9	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.05	6905.00	191	U-NII-8	136.1	9.25	8.58	Back	0	0.799	1.107	1.023	0.954	0.596		9.4	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.04	6105.00	31	U-NII-5	136.1	10.25	9.26	Top	0	0.213	1.256	1.023	0.215	0.201		15.1	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.06	6745.00	159	U-NII-7	136.1	10.50	9.61	Top	0	0.366	1.227	1.023	0.409	0.287		13.8	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	-0.08	6105.00	31	U-NII-5	136.1	10.25	9.26	Bottom	0	0.002	1.256	1.023	0.003	0.002		36.1	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781T2609	97.71	0.16	6745.00	159	U-NII-7	136.1	10.50	9.61	Bottom	0	0.002	1.227	1.023	0.003	0.002		36.4	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	0.01	6105.00	31	U-NII-5	136.1	10.25	9.26	Right	0	0.017	1.256	1.023	0.022	0.014		26.8	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781T2609	97.71	0.06	6745.00	159	U-NII-7	136.1	10.50	9.61	Right	0	0.002	1.227	1.023	0.003	0.002		36.4	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	0.05	6105.00	31	U-NII-5	136.1	10.25	9.26	Left	0	0.000	1.256	1.023	0.000	0.000		49.1	
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781T2609	97.71	0.02	6745.00	159	U-NII-7	136.1	10.50	9.61	Left	0	0.001	1.227	1.023	0.001	0.001		39.5	
AVE/IEEE C63.19P2 SAFETY LIMIT																Body								
Spatial Peak																1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																averaged over 1 gram								

Note: Blue entry represents variability measurement

Exposure	Band/Mode	Bandwidth [MHz]	Service/Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plot #
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.05	6105.00	31	U-NII-5	136.1	10.25	9.26	Back	0	4.860	1.256	1.023	6.219	0.311		13.3
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.08	6265.00	63	U-NII-5	136.1	10.25	9.22	Back	0	4.940	1.268	1.023	6.408	0.320		13.1
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.09	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	5.180	1.279	1.023	6.778	0.339		12.9
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	Keychain	4T0QD2609	97.71	-0.11	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	1.660	1.279	1.023	1.117	0.109		17.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.09	6425.00	95	U-NII-6	136.1	10.25	9.18	Back	0	5.230	1.279	1.023	6.843	0.342		12.9
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.01	6745.00	159	U-NII-7	136.1	10.50	9.61	Back	0	4.440	1.227	1.023	5.573	0.279		14.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.05	6905.00	191	U-NII-8	136.1	9.5	8.58	Back	0	4.750	1.247	1.023	5.671	0.284		12.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.06	6745.00	159	U-NII-7	136.1	10.50	9.61	Back	0	4.440	1.227	1.023	5.573	0.279		14.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.06	6745.00	159	U-NII-7	136.1	10.50	9.61	Back	0	4.440	1.227	1.023	5.573	0.279		14.0
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	-0.08	6305.00	33	U-NII-5	136.1	10.25	9.26	Bottom	0	0.011	1.256	1.023	0.014	0.001		39.7
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.11	6105.00	31	U-NII-5	136.1	10.25	9.26	Bottom	0	0.012	1.256	1.023	0.015	0.001		39.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	0.01	6305.00	33	U-NII-5	136.1	10.25	9.26	Bottom	0	0.147	1.256	1.023	0.189	0.009		28.4
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781T714269	97.71	0.06	6745.00	159	U-NII-7	136.1	10.50	9.61	Right	0	0.016	1.227	1.023	0.020	0.001		38.4
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	4T0QD2609	97.71	0.01	6305.00	33	U-NII-5	136.1	10.25	9.26	Right	0	0.011	1.256	1.023	0.015	0.001		39.8
Body	6 GHz WiFi / IEEE 802.11be	320	OFDM	3	N/A	781T714269	97.71	0.02	6745.00	159	U-NII-7	136.1	10.50	9.61	Left	0	0.009	1.227	1.023	0.011	0.001		40.0

Table 10-16
6 GHz WIFI Antenna 4 - Index 3

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Back	0	0.821	1.282	1.023	1.077	0.673	10.4	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.09	6265.00	63	U-NI-5	136.1	10.75	9.78	Back	0	0.629	1.250	1.023	0.804	0.563	11.6	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.04	6425.00	95	U-NI-6	136.1	10.75	9.75	Back	0	0.865	1.259	1.023	1.099	0.687	10.3	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	Keyboard	781D32609	97.71	-0.05	6425.00	95	U-NI-6	136.1	10.75	9.75	Back	0	0.839	1.259	1.023	0.933	0.786	18.8	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.02	6745.00	159	U-NI-7	136.1	11.00	9.95	Back	0	0.733	1.274	1.023	0.955	0.597	11.1	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.04	6905.00	191	U-NI-8	136.1	10.75	10.02	Back	0	0.759	1.183	1.023	0.919	0.574	11.1	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Top	0	0.835	1.282	1.023	0.839	0.274	14.1	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Top	0	0.386	1.183	1.023	0.467	0.292	14.3	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD32609	97.71	-0.08	6305.00	31	U-NI-5	136.1	10.75	9.67	Bottom	0	0.000	1.282	1.023	0.000	0.000	49.5	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Bottom	0	0.902	1.183	1.023	0.902	0.001	36.9	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD2609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Right	0	0.001	1.282	1.023	0.001	0.001	39.5	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.04	6905.00	191	U-NI-8	136.1	10.75	10.02	Right	0	0.001	1.183	1.023	0.001	0.001	39.9	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD32609	97.71	-0.19	6305.00	31	U-NI-5	136.1	10.75	9.67	Left	0	0.014	1.282	1.023	0.018	0.011	78.1	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Left	0	0.018	1.183	1.023	0.022	0.014	27.3	
ANSI/IEEE C63.1 1997 - SAFETY LIMIT																		Body					
Spatial Peak										1.6 W/kg (mW/g) averaged over 1 gram													
Uncontrolled Exposure/General Population																							
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD SAR [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD SAR [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Back	0	1.380	1.282	1.023	7.056	0.353	13.2	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.09	6265.00	63	U-NI-5	136.1	10.75	9.78	Back	0	4.320	1.250	1.023	5.524	0.276	14.3	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.04	6425.00	95	U-NI-6	136.1	10.75	9.75	Back	0	1.902	1.259	1.023	6.646	0.267	11.4	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	Keyboard	781D32609	97.71	-0.05	6425.00	95	U-NI-6	136.1	10.75	9.75	Back	0	0.992	1.259	1.023	1.278	0.064	20.3	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.02	6745.00	159	U-NI-7	136.1	11.00	9.95	Back	0	4.190	1.274	1.023	5.463	0.273	14.6	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.04	6905.00	191	U-NI-8	136.1	10.75	10.02	Back	0	4.210	1.183	1.023	5.095	0.255	14.6	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Top	0	2.380	1.282	1.023	3.121	0.156	16.8	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Top	0	2.220	1.183	1.023	2.687	0.134	17.4	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD2609	97.71	-0.08	6305.00	31	U-NI-5	136.1	10.75	9.67	Bottom	0	0.000	1.282	1.023	0.000	0.000	50.0	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Bottom	0	0.017	1.183	1.023	0.021	0.001	38.6	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD32609	97.71	-0.03	6305.00	31	U-NI-5	136.1	10.75	9.67	Right	0	0.016	1.282	1.023	0.021	0.001	38.5	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.04	6905.00	191	U-NI-8	136.1	10.75	10.02	Right	0	0.018	1.183	1.023	0.021	0.001	40.9	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	4TQD32609	97.71	-0.19	6305.00	31	U-NI-5	136.1	10.75	9.67	Left	0	0.304	1.282	1.023	0.336	0.007	38.5	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781T72609	97.71	-0.01	6905.00	191	U-NI-8	136.1	10.75	10.02	Left	0	0.122	1.183	1.023	0.148	0.007	30.0	

Table 10-17
6 GHz WIFI Antenna 3 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	0.00	6305.00	31	U-NI-5	136.1	5.25	4.91	Back	0	0.188	1.081	1.023	0.208	0.130	12.0	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.03	6305.00	63	U-NI-5	136.1	5.25	3.89	Back	0	0.192	1.081	1.023	0.241	0.151	11.4	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.06	6425.00	95	U-NI-6	136.1	5.25	3.80	Back	0	0.232	1.396	1.023	0.331	0.207	10.0	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	Keyboard	781D32609	97.71	-0.01	6425.00	95	U-NI-6	136.1	5.25	3.80	Back	0	0.026	1.396	1.023	0.037	0.023	19.5	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.04	6305.00	159	U-NI-7	136.1	5.50	4.51	Back	0	0.738	1.156	1.023	0.366	0.191	10.6	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.04	6905.00	191	U-NI-8	136.1	4.25	2.52	Back	0	0.153	1.489	1.023	0.233	0.146	10.5	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.05	6305.00	31	U-NI-5	136.1	5.3	4.91	Top	0	0.072	1.081	1.023	0.080	0.050	16.2	
ANSI/IEEE C63.1 1997 - 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.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD SAR [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD SAR [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.05	6305.00	31	U-NI-5	136.1	5.25	4.91	Back	0	1.220	1.081	1.023	1.349	0.067	14.9	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.03	6305.00	63	U-NI-5	136.1	5.25	3.89	Back	0	1.110	1.368	1.023	1.513	0.078	14.3	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.06	6425.00	95	U-NI-6	136.1	5.25	3.80	Back	0	1.390	1.396	1.023	1.985	0.099	13.2	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	Keyboard	781D32609	97.71	-0.01	6425.00	95	U-NI-6	136.1	5.25	3.80	Back	0	0.217	1.396	1.023	0.310	0.016	21.3	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.04	6745.00	159	U-NI-7	136.1	5.50	4.51	Back	0	1.870	1.236	1.023	1.730	0.086	14.0	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.04	6905.00	191	U-NI-8	136.1	4.25	2.52	Back	0	0.860	1.489	1.023	1.324	0.066	14.0	
Body	6 GHz WIFI / IEEE 802.11be	320	OFDM	3	N/A	781D32609	97.71	-0.05	6305.00	31	U-NI-5	136.1	5.3	4.91	Top	0	0.483	1.081	1.023	0.534	0.027	18.9	

Table 10-18
6 GHz WIFI Antenna 4 - Index 4

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.08	6305.00	31	U-NI-5	136.1	7.25	6.38	Back	0	0.309	1.222	1.023	0.386	0.241	11.3	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.06	6305.00	31	U-NI-5	136.1	7.25	6.38	Back	0	0.965	1.222	1.023	0.981	0.051	18.1	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.02	6265.00	63	U-NI-5	136.1	7.25	6.11	Back	0	0.384	1.300	1.023	0.378	0.236	11.4	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.03	6425.00	95	U-NI-6	136.1	7.25	6.50	Back	0	0.803	1.321	1.023	0.809	0.256	11.5	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.05	6745.00	159	U-NI-7	136.1	7.50	6.23	Back	0	1.080	1.340	1.023	0.963	0.277	11.8	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.09	6965.00	191	U-NI-8	136.1	7.25	6.38	Back	0	0.249	1.242	1.023	0.316	0.108	12.2	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.05	6305.00	31	U-NI-5	136.1	7.25	6.18	Top	0	0.138	1.222	1.023	0.173	0.108	14.8	
AKS/IEEE C95.1-2007 SAFETY LIMIT																							
Spatial Peak																		1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population																		averaged over 1 gram					
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (cm²)]	APO Exposure Ratio	Plot #	PLimit [dBm]
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.08	6305.00	31	U-NI-5	136.1	7.25	6.38	Back	0	2.140	1.222	1.023	2.675	0.134	13.9	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	Keyboard	781D32609	97.71	0.06	6305.00	63	U-NI-5	136.1	7.25	6.38	Back	0	0.547	1.222	1.023	0.684	0.054	14.9	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.02	6265.00	63	U-NI-5	136.1	7.25	6.11	Back	0	1.080	1.340	1.023	2.500	0.125	14.2	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.03	6425.00	95	U-NI-6	136.1	7.25	6.50	Back	0	1.950	1.321	1.023	2.635	0.132	14.0	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.05	6745.00	159	U-NI-7	136.1	7.50	6.23	Back	0	1.710	1.340	1.023	2.364	0.117	14.8	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.09	6965.00	191	U-NI-8	136.1	7.25	6.31	Back	0	1.580	1.242	1.023	2.007	0.100	15.2	
Body	6 GHz WIFI/ IEEE 802.11be	320	OFDM	4	N/A	781D32609	97.71	0.05	6305.00	31	U-NI-5	136.1	7.25	6.38	Top	0	0.983	1.222	1.023	1.229	0.061	17.3	

10.4 Bluetooth SISO Standalone SAR

Table 10-19
Bluetooth Antenna 3 - Maximum

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.02	2440.00	17	1	19.5	18.98	Back	25	0.036	1.127	1.020	0.041	0.026	
Body	2.4 GHz Bluetooth	FHSS	3	78TD32609	76.86	-0.20	2441.00	39	1	20.5	19.38	Top	25	0.016	1.294	1.015	0.021	0.013	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.03	2440.00	17	1	19.5	18.98	Top	25	0.059	1.127	1.020	0.068	0.043	
Body	2.4 GHz Bluetooth	FHSS	3	78TFT2609	76.86	0.05	2441.00	39	1	20.5	19.38	Bottom	0	0.000	1.294	1.015	0.000	0.000	
Body	2.4 GHz Bluetooth LE	DSSS	3	78TFT2609	85.32	0.06	2440.00	17	1	19.5	18.98	Bottom	0	0.000	1.127	1.020	0.000	0.000	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.01	2440.00	17	1	19.5	18.98	Right	25	0.007	1.127	1.020	0.008	0.005	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.04	2440.00	17	1	19.5	18.98	Left	25	0.002	1.127	1.020	0.002	0.001	
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 10-20
Bluetooth Antenna 4 - Maximum | Plot I7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	4	78TD32609	85.33	0.13	2402.00	37	1	19.5	17.58	Back	25	0.059	1.556	1.020	0.094	0.059	
Body	2.4 GHz Bluetooth	FHSS	4	78TD32609	76.85	0.07	2480.00	78	1	20.5	18.70	Top	25	0.033	1.514	1.015	0.051	0.032	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.02	2440.00	17	1	19.5	18.02	Top	25	0.083	1.406	1.020	0.119	0.074	
Body	2.4 GHz Bluetooth	FHSS	4	78TD32609	76.85	0.05	2480.00	78	1	20.5	18.70	Bottom	0	0.001	1.514	1.015	0.001	0.001	Plot
Body	2.4 GHz Bluetooth LE	DSSS	4	78TC32609	85.33	0.03	2440.00	17	1	19.5	18.02	Bottom	0	0.000	1.406	1.020	0.000	0.000	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.02	2440.00	17	1	19.5	18.02	Right	25	0.011	1.406	1.020	0.016	0.010	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.02	2440.00	17	1	19.5	18.02	Left	25	0.014	1.406	1.020	0.020	0.013	
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 10-21
Bluetooth Reduced Antenna 3 - WLAN and WWAN inactive | Plot I8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	-0.18	2440.00	17	1	17.0	16.83	Back	5	0.311	1.040	1.020	0.330	0.206	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	-0.10	2440.00	17	1	17.0	15.04	Top	5	0.340	1.040	1.020	0.361	0.226	Plot
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.04	2440.00	17	1	17.0	16.83	Bottom	5	0.000	1.040	1.020	0.000	0.000	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.01	2440.00	17	1	17.0	16.83	Right	5	0.006	1.040	1.020	0.006	0.005	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	0.04	2440.00	17	1	17.0	15.83	Left	5	0.005	1.040	1.020	0.001	0.001	
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 10-22
Bluetooth Reduced Antenna 4 - WLAN and WWAN inactive

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.05	2402.00	37	1	17.0	15.04	Back	5	0.283	1.570	1.020	0.453	0.283	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	-0.01	2440.00	17	1	17.0	15.43	Top	5	0.314	1.435	1.020	0.460	0.288	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.01	2440.00	17	1	17.0	15.43	Bottom	5	0.000	1.435	1.020	0.000	0.000	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.03	2440.00	17	1	17.0	15.43	Right	5	0.003	1.435	1.020	0.004	0.003	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TDRO2609	85.33	0.01	2440.00	17	1	17.0	15.43	Left	5	0.002	1.435	1.020	0.003	0.002	
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 10-23
Bluetooth Reduced Antenna 3 - WLAN or WWAN active

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	-0.11	2440.00	17	1	12.0	11.64	Back	5	0.044	1.086	1.020	0.049	0.031	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TDRO2609	85.32	-0.01	2440.00	17	1	12.0	11.64	Top	5	0.052	1.086	1.020	0.058	0.036	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 10-24
Bluetooth Reduced Antenna 4 - WLAN or WWAN active

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	4	4TD0D2609	85.33	0.03	2402.00	37	1	12.0	11.28	Back	5	0.147	1.180	1.020	0.177	0.111	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TD0D2609	85.33	0.19	2440.00	17	1	12.0	11.93	Top	5	0.164	1.016	1.020	0.170	0.106	
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 10-25
Bluetooth Reduced Antenna 3 - WLAN and WWAN active

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	3	4TD0D2609	85.32	-0.03	2440.00	17	1	9.0	8.90	Back	5	0.013	1.023	1.020	0.014	0.009	
Body	2.4 GHz Bluetooth LE	DSSS	3	4TD0D2609	85.32	0.07	2440.00	17	1	9.0	8.90	Top	5	0.020	1.023	1.020	0.021	0.013	
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 10-26
Bluetooth Reduced Antenna 4 - WLAN and WWAN active

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth LE	DSSS	4	4TD0D2609	85.33	0.06	2402.00	37	1	10.5	9.57	Back	5	0.036	1.239	1.020	0.045	0.028	
Body	2.4 GHz Bluetooth LE	DSSS	4	4TD0D2609	85.33	0.00	2440.00	17	1	10.5	9.78	Top	5	0.040	1.180	1.020	0.048	0.030	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.5 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, FCC KDB Publication 447498 D04v01, and FCC KDB Publication 616217 D04v01r02.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
- 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 was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
- FCC KDB Publication 616217 D04v01r02 Section 4.3, SAR tests are required for the back surface and edges of 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.
- Per FCC KDB 616217 D04, SAR is evaluated for the bottom surface of a keyboard when it is attached to the DUT in Index 0 with Keyboard attached at <210deg configuration.
- Per FCC Guidance, SAR tests are required for the back surface and edges of the device with the device 25mm away from the phantom when the motion sensor is not active. The SAR Exclusion Threshold in FCC KDB 447498 D04v01 was applied to determine SAR test exclusion for adjacent edge configurations.

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12. Per FCC KDB 648474 D04, highest reported SAR at Indices 1 and Index 2 in the reference appendix K, configuration for a transmission band on an antenna was additionally evaluated with keyboard accessory attached and folded back at 360°
13. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.

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/be) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 7.2.4 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 7.2.5 for more information.
3. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see the Multi-Tx and Antenna SAR Considerations Appendix for complete analysis.
4. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance.
6. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, channels were tested to cover the entire range.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 78% transmission duty factor for Bluetooth Antenna 3 and 78% transmission duty factor for Bluetooth Antenna 4 to determine compliance. Similarly, the reported SAR was scaled to the 87% transmission duty factor for Bluetooth LE Antenna 3 and 87% transmission duty factor for Bluetooth LE Antenna 4. See RF Conducted Power Section 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
6 GHz WLAN – Index 0, No Motion| Plot A9

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 Diff (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6105.00	31	802.11be	OFDM	320	17.00	16.90	N/A	N/A	-0.18	2	3	4TDO2009	136.1	Bottom	97.71	0.042	1.61	1.019	1.023	0.278	0.467	0.263	0.475	Plot
6105.00	31	802.11be	OFDM	320	N/A	N/A	17.00	16.87	0.19	2	4	4TDO2009	136.1	Bottom	97.71	0.042	1.61	1.030	1.023	0.096	0.112	0.068	0.115	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																	Power Density 10 W/m² averaged over 4 cm²							

Table 11-2
6 GHz WLAN – Index 3, Motion| Plot A10

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)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6425.00	95	802.11be	OFDM	320	10.25	9.18	N/A	N/A	-0.16	2	3	7BT12609	136.1	Back	97.71	0.044	1.61	1.279	1.023	1.990	4.192	2.540	5.351	
6425.00	95	802.11be	OFDM	320	N/A	N/A	10.75	9.75	-0.15	2	4	4TDO2009	136.1	Back	97.71	0.044	1.61	1.259	1.023	2.940	6.096	3.290	6.822	Plot
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 the recommendations of the measurement system manufacturer, power density results were conservatively scaled in accordance with the methodology described in IEC 62479:2010 for the portion of the expanded measurement uncertainty exceeding 30%. A total expanded uncertainty of 2.8 dB (90.5%) was applied, resulting in a psPD scaling factor of 1.61.
6. PTP-PR algorithm was used during psPD measurement and calculations.
7. 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, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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

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

Table 12-1

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
5850	5825.00	165	5 GHz WiFi/ IEEE 802.11a, 20 MHz BW	OFDM	Back	25	3	0.810	0.804	1.01	N/A	N/A	N/A	N/A
6500	6425.00	95	6 GHz WiFi/ IEEE 802.be, 320 MHz BW	OFDM	Back	0	3	0.855	0.850	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram									

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 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	3/23/2026	Annual	3/23/2027	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	4/13/2026	Annual	4/13/2027	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/27/2025	Annual	10/27/2026	US39170118
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Insize	1108-150	Insize - Digital Caliper	1/7/2026	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770121
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770096
Control Company	4040	Therm./ Clock/ Humidity Monitor	12/29/2025	Biennial	12/29/2027	250778120
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/24/2025	Biennial	10/24/2027	250652331
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
GW Instek	GPS-3030DD	DC Power Supply	N/A	N/A	N/A	E1883874
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Biennial	8/7/2026	719
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/16/2026	Annual	1/16/2027	1191
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/10/2026	Annual	2/10/2027	1111
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/5/2025	Annual	12/5/2026	1018
SPEAG	5G Verification Source 10GHz	10 GHz System Verification Antenna	8/6/2025	Annual	8/6/2026	1004
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/7/2026	Annual	5/7/2027	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2026	Annual	3/10/2027	1450
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	EUmmWV3	EUmmWV3 Probe	1/14/2026	Annual	1/14/2027	9389
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7661
SPEAG	EX3DV4	SAR Probe	5/8/2026	Annual	5/8/2027	3914
SPEAG	EX3DV4	SAR Probe	3/11/2026	Annual	3/11/2027	7539

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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14 MEASUREMENT UNCERTAINTIES

Applicable for SAR Measurements < 6 GHz:

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

a	b	c	d	e $f(d,k)$	f	g	h cx/f_e	i cxg/e	k
Uncertainty component	Reference	Tol. ($\pm$ %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui ($\pm$ %)	10g ui ($\pm$ %)	vi
Measurement system									
Probe calibration	E.2.1	6.55	N	1	1	1	6.55	6.55	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	2.50	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement	E.3.3	2.50	N	1	0.23	0.26	0.58	0.65	∞
Liquid conductivity - temperature uncertainty	E.3.4	3.36	R	1.73	0.78	0.71	1.51	1.38	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.77	R	1.73	0.23	0.26	0.10	0.12	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							11.0	10.8	40
Expanded uncertainty (95% confidence interval)							21.9	21.6	

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Applicable for SAR Measurements > 6 GHz:

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

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

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Applicable for Power Density Measurements:

PD Uncertainty Budget based on IEC IEEE 63195-1 for PTP-PR Reconstruction Mode and/or IPD Measurement at $d < \lambda/5$ under 24 GHz

Symbol	Source of uncertainty	Description	Unc. $\pm$ dB	Prob. Dist.	Div. q	ci	Standard uncertainty $\pm$ dB	vi
Uncertainty terms dependent on the measurement system								
CAL	Calibration	8.4.1	0.49	N	1	1	0.49	∞
COR	Probe correction	8.4.2	0.00	R	1.73	1	0.00	∞
FRS	Frequency response	8.4.3	0.20	R	1.73	1	0.12	∞
SCC	Sensor cross coupling	8.4.4	0.00	R	1.73	1	0.00	∞
ISO	Isotropy	8.4.5	0.50	R	1.73	1	0.29	∞
LIN	System linearity error	8.4.6	0.20	R	1.73	1	0.12	∞
PSC	Probe scattering	8.4.7	0.00	R	1.73	1	0.00	∞
PPO	Probe positioning offset	8.4.8	0.30	R	1.73	1	0.17	∞
PPR	Probe positioning repeatability	8.4.9	0.04	R	1.73	1	0.02	∞
SMO	Sensor mechanical offset	8.4.10	0.02	R	1.73	1	0.01	∞
PSR	Probe spatial resolution	8.4.11	0.00	R	1.73	1	0.00	∞
FLD	Field impedance dependence	8.4.12	0.00	R	1.73	1	0.00	∞
MED	Measurement drift	8.4.13	0.00	R	1.73	1	0.00	∞
APN	Amplitude and phase noise	8.4.14	0.04	R	1.73	1	0.02	∞
TR	Measurement area truncation	8.4.15	0.10	R	1.73	1	0.06	∞
DAQ	Data acquisition	8.4.16	0.03	N	1	1	0.03	∞
SMP	Sampling	8.4.17	0.00	R	1.73	1	0.00	∞
REC	Field reconstruction	8.4.18	2.00	R	1.73	1	1.15	∞
SNR	Signal-to-noise ratio	8.4.19	0.00	N	1	1	0.00	∞
TRA	Forward and backward transformation	8.4.20	0.70	R	1.73	1	0.40	∞
SCA	Power density scaling	8.4.21	0.00	R	1.73	1	0.00	∞
SAV	Spatial averaging	8.4.22	0.10	R	1.73	1	0.06	∞
COM	Exposure combining	8.4.23	0.00	N	1	1	0.00	∞
SDL	System detection limit		0.04	R	1.73	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors								
PC	Probe coupling with DUT	8.5.1	0.00	R	1.73	1	0.00	∞
MOD	Modulation response	8.5.2	0.40	R	1.73	1	0.23	∞
IT	Integration time	8.5.3	0.00	R	1.73	1	0.00	∞
RT	Response time	8.5.4	0.00	R	1.73	1	0.00	∞
DH	Device holder influence	8.5.5	0.10	R	1.73	1	0.06	∞
DA	DUT alignment	8.5.6	0.00	R	1.73	1	0.00	∞
AC	RF ambient conditions	8.5.7	0.04	R	1.73	1	0.02	∞
TEM	Laboratory temperature	8.5.8	0.00	R	1.73	1	0.00	∞
REF	Reflections in laboratory	8.5.9	0.04	R	1.73	1	0.02	∞
MSI	Immunity / secondary reception	8.5.10	0.00	R	1.73	1	0.00	∞
DRI	DUT drift	8.5.11	0.22	R	1.73	1	0.13	∞
u(ASAR)	Combined uncertainty						1.40	
U	Expanded uncertainty and effective degrees of freedom (95 % confidence interval)						2.80	

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15 CONCLUSION

15.1 Measurement Conclusion

The SAR evaluation indicates that the DUT 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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