



RF EXPOSURE TEST REPORT

Applicant Name

SAMSUNG ELECTRONICS CO., LTD.
#129 Samsung-Ro, Yeongtong-Gu
Suwon-Si, Gyeonggi-Do
16677, Korea (Republic Of)

Date of Testing

08/12/2024 – 05/12/2025

Test Site/Location

Element, Columbia, MD, USA

Document Serial No:

1M2406060046-01.A3L

FCC ID:

A3LSMI610

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Device

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

SM-I610

Equipment Class	Band & Mode	Tx Frequency	SAR				
		MHz	1g Head (W/kg)	10g Extremity (W/kg)			
DTS	2.4 GHz WLAN	2412 - 2462	<0.1	1.09			
NII	5 GHz WLAN	5180 - 5825	0.24	0.87			
DSS	Bluetooth	2402 - 2480	<0.1	0.17			
DTS	ESB	2402 - 2480	N/A	N/A			
Simultaneous SAR per KDB 690783 D01v01r03:			0.56	3.20			
Equipment Class	Band & Mode	Tx Frequency	SAR		APD		PD
		MHz	1g Head (W/kg)	10g Extremity (W/kg)	Head (W/m ²)	Extremity (W/m ²)	ppPD (W/m ²)
6XD	6 GHz WLAN	5935-7115	<0.1	0.36	0.17	8.46	7.15
Overall SAR Summary							
RF Exposure Position					Head		
SAR (W/kg)					0.24		
Distance (mm)					0		

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 4.1 of this report; for North American frequency bands only.

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



RJ Ortanez
Executive Vice President



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

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APPENDIX B: SAR SYSTEM VERIFICATION PLOTS

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1. TEST LABORATORY INFORMATION

1.1 Introduction

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

1.2 Test Laboratories Information

Testing Laboratory 1

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

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

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
2.4 GHz WIFI	Data	2412 - 2472 MHz
5 GHz WIFI	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
6 GHz WIFI	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
ESB	Data	2402 - 2480 MHz

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2.2 Nominal and Maximum Output Power Specifications

The 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 D01v06.

2.3 2.4 GHz Maximum SISO/MIMO WLAN Output Power

Mode		IEEE 802.11 (in dBm)																									
		SISO												MIMO													
		Antenna 1 & Antenna 2																									
		b		g (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		b		g (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
Nominal		Maximum		Nominal		Maximum		Nominal		Maximum		Nominal		Maximum		Nominal		Maximum		Nominal		Maximum		Nominal		Maximum	
2.4 GHz WiFi		17	18	16	17	16	17	15	16	15	16	15	16	20	21	19	20	18	19	18	19	18	19	18	19		
		Ch. 12-10.0 Ch. 13-3.0	Ch. 12-11 Ch. 13-2.0	Ch. 12-10.0 Ch. 13-3.0	Ch. 12-11 Ch. 13-2.0	Ch. 11-15.0 Ch. 12-10.0 Ch. 13-3.0	Ch. 11-16.0 Ch. 12-11 Ch. 13-2.0	Ch. 12-10.0 Ch. 13-3.0	Ch. 12-11 Ch. 13-2.0	Ch. 12-10.0 Ch. 13-3.0	Ch. 12-11 Ch. 13-2.0	Ch. 12-10.0 Ch. 13-3.0	Ch. 12-11 Ch. 13-2.0	Ch. 12-10.0 Ch. 13-3.0	Ch. 12-13.0 Ch. 13-0.0	Ch. 12-14.0 Ch. 13-1.0	Ch. 12-13.0 Ch. 13-0.0	Ch. 12-14.0 Ch. 13-1.0	Ch. 11-18.0 Ch. 12-13.0 Ch. 13-0.0	Ch. 11-19.0 Ch. 12-14.0 Ch. 13-1.0	Ch. 12-13.0 Ch. 13-0.0	Ch. 12-14.0 Ch. 13-1.0	Ch. 12-13.0 Ch. 13-0.0	Ch. 12-14.0 Ch. 13-1.0	Ch. 12-13.0 Ch. 13-0.0	Ch. 12-14.0 Ch. 13-1.0	

2.4 5 GHz Maximum SISO/MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)																			
		SISO										MIMO									
		Antenna 1 & Antenna 2																			
		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	U-NII-1	14 Ch. 48-11	15 Ch. 48-12	14 Ch. 48-11	15 Ch. 48-12	14 Ch. 48-11	15 Ch. 48-12	14 Ch. 48-11	15 Ch. 48-12	14 Ch. 48-11	15 Ch. 48-12	17 Ch. 48-14	18 Ch. 48-15	17 Ch. 48-14	18 Ch. 48-15	17 Ch. 48-14	18 Ch. 48-15	17 Ch. 48-14	18 Ch. 48-15	17 Ch. 48-14	18 Ch. 48-15
	U-NII-2A	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2C	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (40MHz BW)	U-NII-1	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2A	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2C	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (80MHz BW)	U-NII-1	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2A	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2C	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (160MHz BW)	U-NII-1 & 2A	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-2C	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	U-NII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	U-NII-3	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0

2.5 6 GHz Maximum SISO/MIMO WLAN Output Power

IEEE 802.11 (in dBm)																		
Mode	SISO								MIMO									
	Antenna 1						Antenna 2											
	a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
6 GHz WiFi (20MHz BW) - LPI	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	6 Ch. 2-5 Ch. 93-5 Ch. 233-5	7 Ch. 2-6 Ch. 93-6 Ch. 233-6	9 Ch. 2-8 Ch. 93-8 Ch. 233-8	10 Ch. 2-9 Ch. 93-9 Ch. 233-9	9 Ch. 2-8 Ch. 93-8 Ch. 233-8	10 Ch. 2-9 Ch. 93-9 Ch. 233-9	9 Ch. 2-8 Ch. 93-8 Ch. 233-8	10 Ch. 2-9 Ch. 93-9 Ch. 233-9
6 GHz WiFi (40MHz BW) - LPI			9.0	10.0	9.0	10.0			9.0	10.0	9.0	10.0			12.0	13.0	12.0	13.0
6 GHz WiFi (80MHz BW) - LPI			12.0	13.0	12.0	13.0			11.5	12.5	11.5	12.5			15.0	16.0	15.0	16.0
6 GHz WiFi (160MHz BW) - LPI			12.0	13.0	12.0	13.0			11.5	12.5	11.5	12.5			15.0	16.0	15.0	16.0
6 GHz WiFi (320MHz BW) - LPI					12.0	13.0					11.5	12.5					15.0	16.0
IEEE 802.11 (in dBm)																		
Mode	SISO								MIMO									
	Antenna 1						Antenna 2											
	a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
6 GHz WiFi (20MHz BW) - VLP	6 Ch. 2-2.0	7 Ch. 2-1.0	6 Ch. 2-2.0	7 Ch. 2-1.0	6 Ch. 2-2.0	7 Ch. 2-1.0	6 Ch. 2-2.0	7 Ch. 2-1.0	6 Ch. 2-2.0	7 Ch. 2-1.0	6 Ch. 2-2.0	7 Ch. 2-1.0	9 Ch. 2-1.0	10 Ch. 2-2.0	9 Ch. 2-1.0	10 Ch. 2-2.0	9 Ch. 2-1.0	10 Ch. 2-2.0
6 GHz WiFi (40MHz BW) - VLP			6.0	7.0	6.0	7.0			6.0	7.0	6.0	7.0			9.0	10.0	9.0	10.0
6 GHz WiFi (80MHz BW) - VLP			6.0	7.0	6.0	7.0			6.0	7.0	6.0	7.0			9.0	10.0	9.0	10.0
6 GHz WiFi (160MHz BW) - VLP			6.0	7.0	6.0	7.0			6.0	7.0	6.0	7.0			9.0	10.0	9.0	10.0
6 GHz WiFi (320MHz BW) - VLP					6.0	7.0					6.0	7.0					9.0	10.0

*Note: VLP Operations are only supported for UNII5

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2.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Single Antenna		Dual Mode	
	Nominal	Maximum	Nominal	Maximum
Bluetooth (1 Mbps) (in dBm)	18.0	19.0	17.0	18.0
Bluetooth (EDR) (in dBm)	16.0	17.0	15.0	16.0
Bluetooth LE 1/2Mbps (in dBm)	10.0	11.0	9.5	10.5
Bluetooth LE125/500Kbps (in dBm)	6.5	7.5	N/A	N/A

2.7 ESB Output Power

Mode	Single Antenna	
	Nominal	Maximum
ESB (in dBm)	0.0	1.0

2.8 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in the DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

SAR testing for WLAN and Bluetooth was conducted using the SPEAG Head Stand Phantom in accordance with FCC KDB 865664 D01 guidelines and TCB workshop notes. For 6 GHz WLAN, power density (PD) measurements were performed on the planar outer surfaces of the device, as current certified PD measurement systems are limited to planar surfaces. These same surfaces were also evaluated using SAR measurements with a standard flat phantom to ensure conservative RF exposure compliance. All test configurations conform to the procedures specified in KDB Publications 447498 D01 and 248227 D01 for portable device exposure assessments.

**Table 2-1
Device Surfaces**

Mode	Front	Top	Bottom	Right	Left
WLAN/BT Ant 1	Yes	Yes	No	No	No
WLAN/BT Ant 2	Yes	Yes	No	No	No

Note: Certain device edges were not evaluated for SAR because no transmitting antennas are located close enough to those edges to present a reasonable potential for localized RF exposure. As allowed under the general SAR test reduction guidance in FCC KDB Publication 447498 D01 Section 4.4.1, only surfaces and edges with transmitting antennas in reasonably close proximity and exposure potential under normal use require evaluation. Antenna-to-edge distances have been reviewed and are included in this filing to support the applied test reduction.

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2.9 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, 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 D01v06 4.3.2 procedures.

Table 2-2
Simultaneous Transmission Scenarios

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

- 2.4 GHz WLAN Antenna 1 and Bluetooth Antenna 1 share the same antenna path and cannot transmit simultaneously.
- 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.

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2.10 Miscellaneous Testing Considerations

(A) WIFI/BT

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 20 MHz Bandwidth only for 2.4 GHz
- d) No aggregate channel configurations
- e) 2 Tx antenna output
- f) Up to 1024 QAM is supported
- g) TDWR and Band gap channels are supported for 5 GHz
- h) MU-MIMO UL Operations are not supported

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

Per FCC KDB 447498 D01v06, the 1g and 10g SAR exclusion threshold for distances <50mm is defined by the following equation:

$$\frac{[Max\ Power\ of\ Channel\ (mW)]}{[Test\ Separation\ Dist\ (mm)]} * \sqrt{Frequency(GHz)} \leq 3.0\ (1g), 7.5(10g)$$

Based on the maximum conducted power of ESB (rounded to the nearest mW) and the antenna to user separation distance, ESB SAR was not required; $[(1/5) * \sqrt{2.440}] = 0.3 < 3.0\ (1g), 7.5(10g)$. Per KDB Publication 447498 D01v06, the maximum power of the channel was rounded to the nearest mW before calculation.

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

(B) Form Factor Considerations

The DUT is an AR/VR headset. A head stand phantom was used to support SAR testing in the representative worn configuration. For transmitters operating below 6 GHz (i.e., 2.4 GHz and 5 GHz WLAN), SAR measurements were performed in accordance with FCC KDB 447498 D01 and 865664 D01.

For WLAN operations in the 6 GHz band, power density (PD) is the applicable RF exposure metric as defined by §1.1310 and current FCC guidance. Due to current system limitations, PD measurement systems are restricted to evaluating emissions over flat planar surfaces. As such, it was not feasible to directly measure the inner surfaces of the device that contour around the head.

Based on the physical design of the DUT, a natural separation of greater than 1 cm exists between the inner device surface and the user's head. In accordance with TCB Workshop guidance (Oct 2020, Apr 2021, and Oct 2022), it is acceptable to evaluate representative external device surfaces, where worst-case exposure is expected to occur, to demonstrate compliance with the 6 GHz RF exposure limits.

Accordingly, the top and front outer surfaces of the DUT, identified as the locations closest to transmitting antennas and most likely to represent worst-case exposure, were evaluated for psPD (peak spatial power density), APD (averaged power density), and supplementary SAR (as applicable), to demonstrate compliance with FCC requirements.

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2.11 Guidance Applied

- November 2017, October 2018, April 2019, November 2019, October 2020, October 2022 TCBC Workshop Notes
- SPEAG DASY6 System Handbook
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEEE 1528-2013
- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D02 v01r02
- FCC KDB 648474 D04 v01r03
- FCC KDB 248227 D01 v02r02
- FCC KDB 447498 D01 v06
- FCC KDB 865664 D01 v01r04
- April 2019 TCB Workshop Notes (IEEE 802.11ax)

2.12 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 8.

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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. [15]

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 [44] and Health Canada RF Exposure Guidelines Safety Code 6 [35]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [17] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

σ	=	conductivity of the tissue-simulating material (S/m)
ρ	=	mass density of the tissue-simulating material (kg/m ³)
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.[20]

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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.

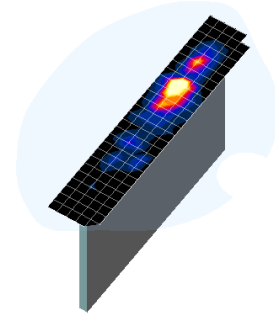


Figure 4-1
Sample SAR Area Scan

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) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
			$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 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 RF EXPOSURE LIMITS

5.1 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.

5.2 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.

5.3 RF Exposure Limits for Frequencies Below 6 GHz

Table 5-1
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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5.4 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 5-2
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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6 MEASUREMENT PROCEDURES

6.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, 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.

6.2 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.

6.3 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.

6.4 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.

6.5 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

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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 $> 1.2 \text{ W/kg}$. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.6 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.

6.7 Initial Test Position Procedure

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

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

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is $> 1.2 \text{ W/kg}$. 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.

6.9 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

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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.

6.10 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 6.4). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

6.11 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.

6.12 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 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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7 RF CONDUCTED POWERS

Table 7-1
2.4 GHz WLAN Testing Average RF Power – 802.11b Ant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.07
2437	6		19.00
2462	11		19.05

Table 7-2
2.4 GHz WLAN Testing Average RF Power – 802.11b Ant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.70
2437	6		19.66
2462	11		19.93

Note At the request of the manufacturer, SAR testing for 2.4 GHz WLAN was performed at a target conducted power level of 19.0 dBm. This is higher than the declared maximum tune-up target of 17.0 dBm and provides a conservative evaluation margin for demonstrating RF exposure compliance.

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Table 7-3
2.4 GHz WLAN Maximum Average RF Power – Ant 1

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.10
2437	6		17.22
2462	11		17.11
2467	12		10.21
2472	13		-3.89
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.01
2437	6		17.54
2462	11		17.37
2467	12		10.24
2472	13		-2.55
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.98
2437	6		16.98
2462	11		15.83
2467	12		10.21
2472	13		-2.55
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.52
2437	6		15.49
2462	11		15.33
2467	12		10.56
2472	13		-2.54
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.38
2437	6		15.98
2462	11		15.42
2467	12		10.52
2472	13		-2.44
2.4GHz WIFI (20MHz 802.11be SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.42
2437	6		15.85
2462	11		15.39
2467	12		10.44
2472	13		-2.56

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Table 7-4
2.4 GHz WLAN Maximum Average RF Power –Ant 2

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.65
2437	6		17.34
2462	11		17.25
2467	12		10.52
2472	13		-3.52
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.89
2437	6		16.93
2462	11		15.82
2467	12		10.52
2472	13		-2.01
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.60
2437	6		15.79
2462	11		15.63
2467	12		10.86
2472	13		-2.24
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.82
2437	6		15.79
2462	11		15.63
2467	12		10.86
2472	13		-2.24
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.68
2437	6		15.98
2462	11		15.72
2467	12		10.82
2472	13		-2.14
2.4GHz WIFI (20MHz 802.11be SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.72
2437	6		16.15
2462	11		15.69
2467	12		10.74
2472	13		-2.26

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Table 7-5
5 GHz WLAN Maximum Average RF Power – Ant 1

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.60
UNII-2A	5290	58	14.69
UNII-2C	5530	106	14.65
	5610	122	14.77
	5690	138	14.98
UNII-3	5775	155	11.31
5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.54
UNII-2A	5290	58	14.76
UNII-2C	5530	106	14.66
	5610	122	14.35
	5690	138	14.52
UNII-3	5775	155	11.28
5GHz WIFI (80MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.93
UNII-2A	5290	58	14.90
UNII-2C	5530	106	14.90
	5610	122	14.70
	5690	138	14.97
UNII-3	5775	155	11.59

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Table 7-6
5 GHz WLAN Maximum Average RF Power – Ant 2

5GHz WIFI (80MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.46
UNII-2A	5290	58	14.32
UNII-2C	5530	106	14.56
	5610	122	14.34
	5690	138	14.62
UNII-3	5775	155	11.75
5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.45
UNII-2A	5290	58	14.45
UNII-2C	5530	106	14.61
	5610	122	14.36
	5690	138	14.64
UNII-3	5775	155	11.56
5GHz WIFI (80MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.75
UNII-2A	5290	58	14.45
UNII-2C	5530	106	14.40
	5610	122	14.48
	5690	138	14.39
UNII-3	5775	155	11.29

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Table 7-7
6 GHz WLAN Maximum Average RF Power – 802.11be 320 MHz BW Ant 1

6GHz WIFI (320MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	12.29
UNII-6	6425	95	12.03
UNII-7	6745	159	12.04
UNII-8	6905	191	12.78

Table 7-8
6 GHz WLAN Maximum Average RF Power – 802.11be 320 MHz BW Ant 2

6GHz WIFI (320MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6105	31	12.30
UNII-6	6425	95	12.46
UNII-7	6745	159	12.48
UNII-8	6905	191	12.46

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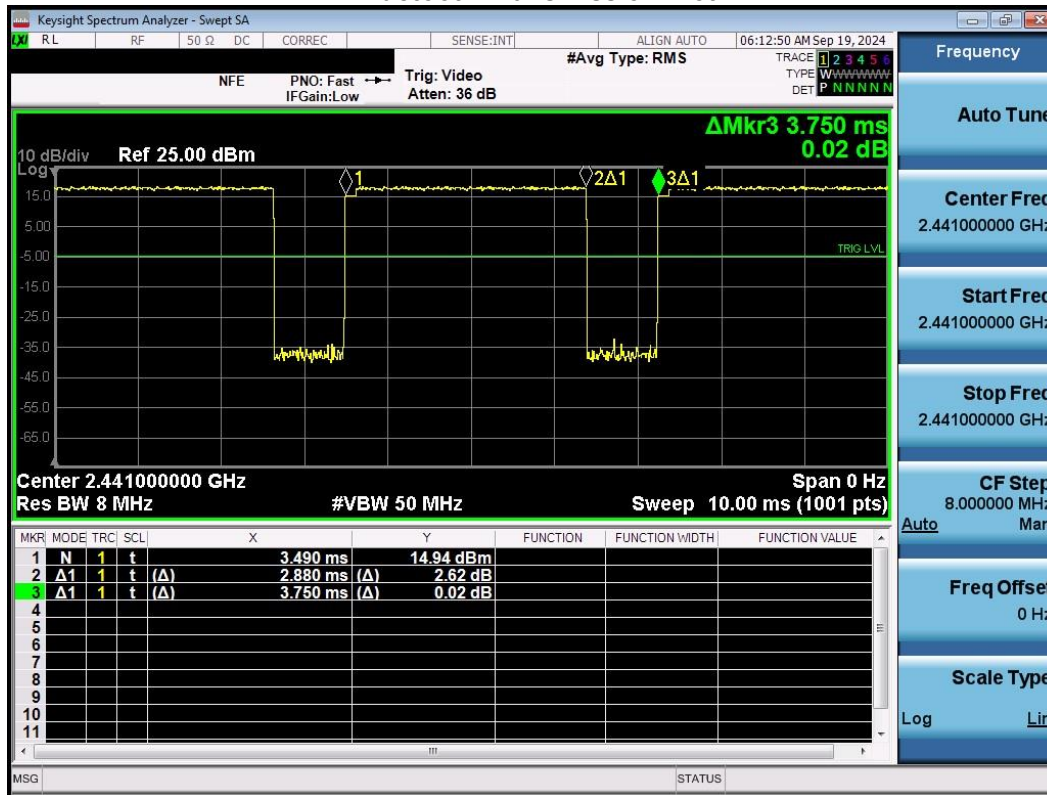
Table 7-9
Bluetooth Maximum Average RF Power – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	17.68	58.652
2441	1.0	GFSK	ePA	39	17.73	59.251
2480	1.0	GFSK	ePA	78	17.56	57.070
2402	2.0	$\pi/4$ -DQPSK	ePA	0	14.63	29.073
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.74	29.815
2480	2.0	$\pi/4$ -DQPSK	ePA	78	14.24	26.564
2402	3.0	8DPSK	ePA	0	14.80	30.223
2441	3.0	8DPSK	ePA	39	14.65	29.199
2480	3.0	8DPSK	ePA	78	14.34	27.168

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Figure 6-1 Bluetooth Transmission Plot



Equation 6-1 Bluetooth Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880ms}{3.750ms} * 100\% = 76.8\%$$

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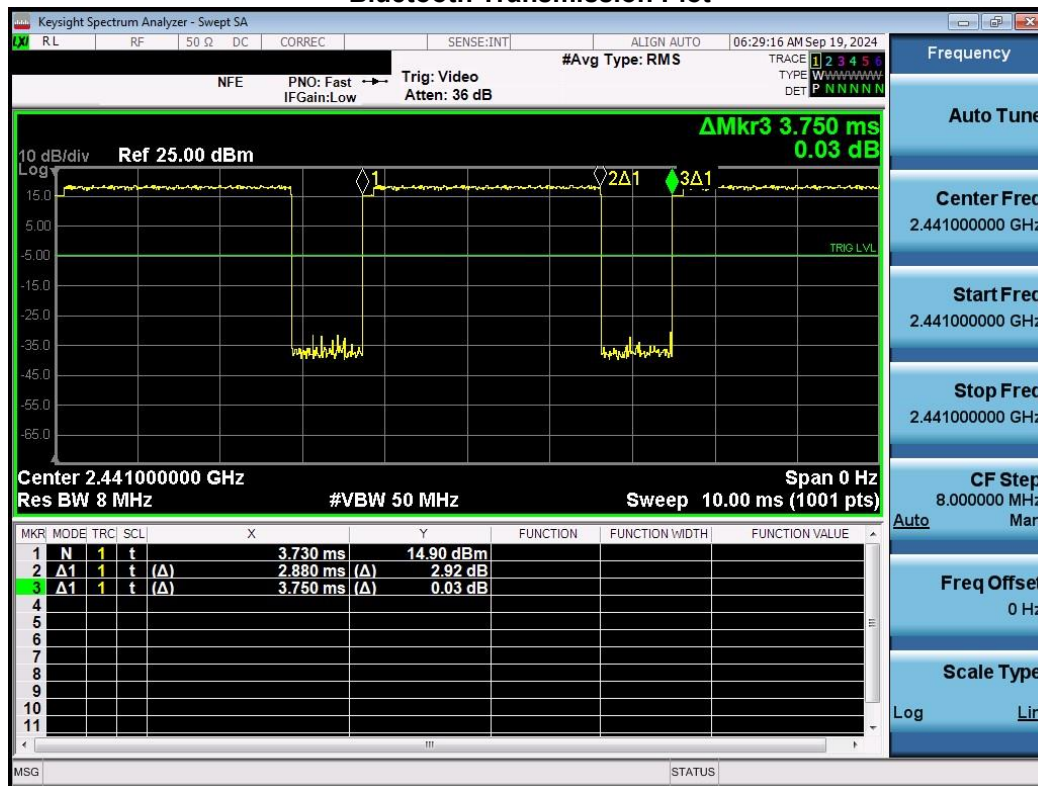
Table 7-10
Bluetooth Maximum Average RF Power – Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	17.64	58.074
2441	1.0	GFSK	ePA	39	17.36	54.480
2480	1.0	GFSK	ePA	78	17.42	55.182
2402	2.0	$\pi/4$ -DQPSK	ePA	0	14.60	28.850
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.00	25.147
2480	2.0	$\pi/4$ -DQPSK	ePA	78	14.00	25.145
2402	3.0	8DPSK	ePA	0	14.68	29.398
2441	3.0	8DPSK	ePA	39	14.11	25.792
2480	3.0	8DPSK	ePA	78	14.11	25.753

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Figure 6-1
Bluetooth Transmission Plot



Equation 6-1
Bluetooth Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.880ms}{3.750ms} * 100\% = 76.8\%$$

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 identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- 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.

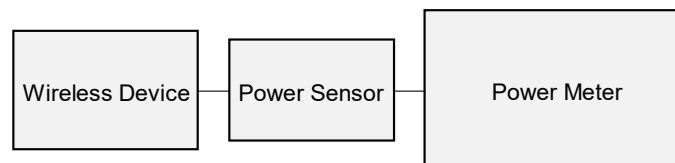


Figure 7-2
Power Measurement Setup

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8 SYSTEM VERIFICATION

8.1 SAR Test System Verification

Table 8-1
Measured 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
8/12/2024	Head	20.3	2300	1.681	38.694	1.670	39.500	0.64%	-2.04%
			2310	1.689	38.683	1.679	39.480	0.60%	-2.02%
			2320	1.697	38.674	1.687	39.460	0.61%	-1.99%
			2400	1.755	38.565	1.756	39.289	-0.08%	-1.84%
			2450	1.796	38.502	1.800	39.200	-0.22%	-1.78%
			2480	1.817	38.453	1.833	39.162	-0.89%	-1.81%
			2500	1.832	38.409	1.855	39.136	-1.23%	-1.86%
			2510	1.841	38.386	1.866	39.123	-1.35%	-1.88%
			2535	1.862	38.339	1.893	39.092	-1.62%	-1.93%
			2550	1.876	38.321	1.909	39.073	-1.74%	-1.93%
			2560	1.884	38.305	1.920	39.060	-1.89%	-1.93%
			2600	1.914	38.241	1.964	39.009	-2.55%	-1.97%
			2650	1.956	38.124	2.018	38.945	-3.05%	-2.11%
			2680	1.981	38.081	2.051	38.907	-3.43%	-2.12%
			2700	1.995	38.056	2.073	38.882	-3.77%	-2.12%
08/26/2024	2450 Head	21.9	2300	1.673	39.417	1.670	39.500	0.18%	-0.21%
			2310	1.681	39.403	1.679	39.480	0.12%	-0.20%
			2320	1.688	39.384	1.687	39.460	0.06%	-0.19%
			2400	1.750	39.262	1.756	39.289	-0.34%	-0.07%
			2450	1.788	39.159	1.800	39.200	-0.67%	-0.10%
			2480	1.811	39.114	1.833	39.162	-1.20%	-0.12%
			2500	1.826	39.082	1.855	39.136	-1.56%	-0.14%
			2510	1.834	39.067	1.866	39.123	-1.71%	-0.14%
			2535	1.853	39.023	1.893	39.092	-2.11%	-0.18%
			2550	1.866	38.999	1.909	39.073	-2.25%	-0.19%
			2560	1.874	38.986	1.920	39.060	-2.40%	-0.19%
			2600	1.905	38.921	1.964	39.009	-3.00%	-0.23%
			2650	1.946	38.833	2.018	38.945	-3.57%	-0.29%
			2680	1.971	38.779	2.051	38.907	-3.90%	-0.33%
			2700	1.986	38.740	2.073	38.882	-4.20%	-0.37%
09/12/2024	2450 Head	22.3	2300	1.698	39.332	1.670	39.500	1.68%	-0.43%
			2310	1.705	39.319	1.679	39.480	1.55%	-0.41%
			2320	1.712	39.305	1.687	39.460	1.48%	-0.39%
			2400	1.771	39.180	1.756	39.289	0.85%	-0.28%
			2450	1.808	39.102	1.800	39.200	0.44%	-0.25%
			2480	1.830	39.047	1.833	39.162	-0.16%	-0.29%
			2500	1.845	39.011	1.855	39.136	-0.54%	-0.32%
			2510	1.853	38.996	1.866	39.123	-0.70%	-0.32%
			2535	1.873	38.962	1.893	39.092	-1.06%	-0.33%
			2550	1.883	38.944	1.909	39.073	-1.36%	-0.33%
			2560	1.891	38.928	1.920	39.060	-1.51%	-0.34%
			2600	1.922	38.858	1.964	39.009	-2.14%	-0.39%
			2650	1.962	38.792	2.018	38.945	-2.78%	-0.39%
			2680	1.984	38.742	2.051	38.907	-3.27%	-0.42%
			2700	1.999	38.702	2.073	38.882	-3.57%	-0.46%
04/17/2025	2450 Head	21.5	2300	1.678	39.161	1.670	39.500	0.48%	-0.86%
			2310	1.686	39.150	1.679	39.480	0.42%	-0.84%
			2320	1.693	39.136	1.687	39.460	0.36%	-0.82%
			2400	1.751	39.033	1.756	39.289	-0.28%	-0.65%
			2450	1.787	38.962	1.800	39.200	-0.72%	-0.61%
			2480	1.809	38.918	1.833	39.162	-1.31%	-0.62%
			2500	1.826	38.885	1.855	39.136	-1.56%	-0.64%
			2510	1.834	38.873	1.866	39.123	-1.71%	-0.64%
			2535	1.854	38.836	1.893	39.092	-2.06%	-0.65%
			2550	1.865	38.814	1.909	39.073	-2.30%	-0.66%
			2560	1.874	38.800	1.920	39.060	-2.40%	-0.67%
			2600	1.908	38.736	1.964	39.009	-2.85%	-0.70%
			2650	1.946	38.650	2.018	38.945	-3.57%	-0.76%
			2680	1.972	38.603	2.051	38.907	-3.85%	-0.78%
			2700	1.988	38.566	2.073	38.882	-4.10%	-0.81%

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Table 8-2
Measured Tissue Properties (cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
08/26/2024	5200-5800 Head	23	5180	4.488	37.663	4.635	36.009	-3.17%	4.59%
			5190	4.498	37.626	4.645	35.998	-3.16%	4.55%
			5200	4.509	37.615	4.655	35.986	-3.14%	4.53%
			5210	4.520	37.592	4.666	35.975	-3.13%	4.49%
			5220	4.532	37.563	4.676	35.963	-3.08%	4.45%
			5240	4.561	37.525	4.696	35.940	-2.87%	4.41%
			5250	4.575	37.514	4.706	35.929	-2.78%	4.41%
			5260	4.586	37.512	4.717	35.917	-2.78%	4.44%
			5270	4.592	37.504	4.727	35.906	-2.86%	4.45%
			5280	4.598	37.483	4.737	35.894	-2.93%	4.43%
			5290	4.604	37.462	4.748	35.883	-3.03%	4.40%
			5300	4.613	37.434	4.758	35.871	-3.05%	4.36%
			5310	4.628	37.412	4.768	35.860	-2.94%	4.33%
			5320	4.644	37.393	4.778	35.849	-2.80%	4.31%
			5500	4.840	37.115	4.963	35.643	-2.48%	4.13%
			5510	4.854	37.092	4.973	35.632	-2.39%	4.10%
			5520	4.869	37.067	4.983	35.620	-2.29%	4.06%
			5530	4.885	37.042	4.994	35.609	-2.18%	4.02%
			5540	4.900	37.022	5.004	35.597	-2.08%	4.00%
			5550	4.912	37.017	5.014	35.586	-2.03%	4.02%
			5560	4.922	37.007	5.024	35.574	-2.03%	4.03%
			5580	4.939	36.987	5.045	35.551	-2.10%	4.04%
			5600	4.957	36.943	5.065	35.529	-2.13%	3.98%
			5610	4.968	36.915	5.076	35.518	-2.13%	3.93%
			5620	4.983	36.894	5.086	35.506	-2.03%	3.91%
			5640	5.013	36.862	5.106	35.483	-1.82%	3.89%
			5660	5.040	36.839	5.127	35.460	-1.70%	3.88%
			5670	5.051	36.837	5.137	35.449	-1.67%	3.82%
			5680	5.058	36.824	5.147	35.437	-1.73%	3.91%
			5690	5.067	36.794	5.158	35.426	-1.76%	3.86%
			5700	5.077	36.763	5.168	35.414	-1.76%	3.81%
			5710	5.090	36.740	5.178	35.403	-1.70%	3.78%
			5720	5.105	36.722	5.188	35.391	-1.60%	3.76%
			5745	5.143	36.690	5.214	35.363	-1.36%	3.75%
			5750	5.149	36.686	5.219	35.357	-1.34%	3.76%
			5755	5.153	36.683	5.224	35.351	-1.36%	3.77%
			5765	5.163	36.679	5.234	35.340	-1.36%	3.79%
			5775	5.170	36.666	5.245	35.329	-1.40%	3.78%
			5785	5.180	36.642	5.255	35.317	-1.43%	3.75%
			5795	5.191	36.615	5.265	35.305	-1.41%	3.71%
			5800	5.197	36.605	5.270	35.300	-1.39%	3.70%
			5800	5.197	36.605	5.270	35.300	-1.39%	3.70%
			5805	5.203	36.596	5.275	35.294	-1.36%	3.69%
			5825	5.229	36.564	5.296	35.271	-1.27%	3.67%
			5835	5.244	36.547	5.305	35.230	-1.15%	3.74%
			5845	5.259	36.531	5.315	35.210	-1.05%	3.75%
			5850	5.264	36.527	5.320	35.200	-1.05%	3.77%
			5855	5.269	36.520	5.325	35.197	-1.05%	3.76%
			5865	5.274	36.511	5.336	35.190	-1.16%	3.75%
			5865	5.274	36.511	5.336	35.190	-1.16%	3.75%
			5865	5.274	36.511	5.336	35.190	-1.16%	3.75%
			5865	5.274	36.511	5.336	35.190	-1.16%	3.75%
			5875	5.282	36.493	5.347	35.183	-1.22%	3.72%
			5885	5.290	36.477	5.357	35.177	-1.25%	3.70%
			5905	5.317	36.426	5.379	35.163	-1.15%	3.59%
04/16/2025	5200-5800 Head	20.2	5150	4.415	35.691	4.608	36.050	-4.19%	-1.00%
			5160	4.420	35.657	4.618	36.040	-4.29%	-1.06%
			5170	4.429	35.609	4.629	36.030	-4.32%	-1.17%
			5180	4.441	35.573	4.635	36.009	-4.19%	-1.21%
			5190	4.456	35.542	4.645	35.998	-4.07%	-1.27%
			5200	4.473	35.530	4.655	35.986	-3.91%	-1.27%
			5210	4.490	35.519	4.666	35.975	-3.77%	-1.27%
			5220	4.506	35.507	4.676	35.963	-3.64%	-1.27%
			5240	4.523	35.491	4.696	35.940	-3.68%	-1.25%
			5250	4.527	35.475	4.706	35.929	-3.80%	-1.26%
			5260	4.530	35.441	4.717	35.917	-3.96%	-1.33%
			5270	4.537	35.414	4.727	35.906	-4.02%	-1.37%
			5280	4.549	35.389	4.737	35.894	-3.97%	-1.41%
			5290	4.564	35.361	4.748	35.883	-3.88%	-1.45%
			5300	4.580	35.332	4.758	35.871	-3.74%	-1.50%
			5310	4.598	35.310	4.768	35.860	-3.57%	-1.53%
			5320	4.615	35.304	4.778	35.849	-3.41%	-1.52%
			5500	4.811	34.984	4.963	35.643	-3.06%	-1.85%
			5510	4.829	34.980	4.973	35.632	-2.90%	-1.83%
			5520	4.847	34.981	4.983	35.620	-2.73%	-1.79%
			5530	4.861	34.982	4.994	35.609	-2.66%	-1.76%
			5540	4.865	34.970	5.004	35.597	-2.78%	-1.76%
			5550	4.868	34.951	5.014	35.586	-2.91%	-1.78%
			5560	4.876	34.928	5.024	35.574	-2.95%	-1.82%
			5580	4.902	34.864	5.045	35.551	-2.83%	-1.93%
			5600	4.929	34.825	5.065	35.529	-2.69%	-1.98%
			5610	4.944	34.821	5.076	35.518	-2.60%	-1.96%
			5620	4.956	34.804	5.086	35.506	-2.56%	-1.98%
			5640	4.973	34.770	5.106	35.483	-2.60%	-2.01%
			5660	4.996	34.733	5.127	35.460	-2.56%	-2.05%
			5670	5.007	34.709	5.137	35.449	-2.53%	-2.09%
			5680	5.017	34.687	5.147	35.437	-2.53%	-2.12%
			5690	5.029	34.669	5.158	35.426	-2.50%	-2.14%
			5700	5.040	34.650	5.168	35.414	-2.48%	-2.16%
			5710	5.052	34.635	5.178	35.403	-2.43%	-2.17%
			5720	5.063	34.613	5.188	35.391	-2.41%	-2.20%
			5745	5.096	34.575	5.214	35.363	-2.26%	-2.23%
			5750	5.102	34.570	5.219	35.357	-2.24%	-2.23%
			5755	5.107	34.560	5.224	35.351	-2.24%	-2.24%
			5765	5.118	34.547	5.234	35.340	-2.22%	-2.24%
			5775	5.130	34.529	5.245	35.329	-2.19%	-2.26%
			5785	5.142	34.513	5.255	35.317	-2.15%	-2.28%
			5795	5.151	34.487	5.265	35.305	-2.17%	-2.32%
			5805	5.159	34.468	5.275	35.294	-2.20%	-2.34%
			5825	5.181	34.436	5.296	35.271	-2.17%	-2.37%
			5835	5.192	34.418	5.305	35.230	-2.13%	-2.30%
			5845	5.205	34.398	5.315	35.210	-2.07%	-2.31%
			5850	5.213	34.386	5.320	35.200	-2.01%	-2.31%
			5855	5.221	34.373	5.325	35.197	-1.95%	-2.34%
			5875	5.249	34.329	5.347	35.183	-1.83%	-2.43%
			5885	5.261	34.323	5.357	35.177	-1.79%	-2.43%
			5905	5.280	34.292	5.379	35.163	-1.84%	-2.48%

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Table 8-3
Measured Tissue Properties (cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/25/2024	6000 Head	22.1	5935	5.518	36.058	5.411	35.143	1.98%	2.60%
			5970	5.545	36.019	5.448	35.120	1.78%	2.56%
			5985	5.558	35.974	5.464	35.110	1.72%	2.46%
			6000	5.579	35.919	5.480	35.100	1.81%	2.33%
			6025	5.648	35.935	5.510	35.070	2.50%	2.47%
			6065	5.681	35.884	5.557	35.022	2.23%	2.46%
			6075	5.680	35.833	5.569	35.010	1.99%	2.35%
			6085	5.694	35.811	5.580	34.998	2.04%	2.32%
			6185	5.828	35.663	5.698	34.878	2.28%	2.25%
			6275	5.961	35.458	5.805	34.770	2.69%	1.98%
			6285	5.958	35.472	5.816	34.758	2.44%	2.05%
			6305	5.978	35.440	5.840	34.734	2.36%	2.03%
			6345	6.047	35.354	5.887	34.686	2.72%	1.93%
			6475	6.206	35.128	6.041	34.530	2.73%	1.73%
			6485	6.234	35.137	6.052	34.518	3.01%	1.79%
			6500	6.230	35.132	6.070	34.500	2.64%	1.83%
			6505	6.223	35.126	6.076	34.494	2.42%	1.83%
			6545	6.272	34.933	6.122	34.446	2.45%	1.41%
			6665	6.408	34.760	6.265	34.302	2.28%	1.34%
			6675	6.437	34.710	6.273	34.290	2.61%	1.22%
			6685	6.458	34.682	6.285	34.278	2.75%	1.18%
			6715	6.490	34.760	6.319	34.242	2.71%	1.51%
			6785	6.568	34.476	6.400	34.158	2.62%	0.93%
			6825	6.625	34.500	6.447	34.110	2.76%	1.14%
			6985	6.782	34.282	6.633	33.918	2.25%	1.07%
			6995	6.776	34.221	6.644	33.906	1.99%	0.93%
			7000	6.780	34.173	6.650	33.900	1.95%	0.81%
			7005	6.789	34.136	6.656	33.894	2.00%	0.71%
			7025	6.851	34.028	6.680	33.870	2.56%	0.47%
05/12/2025	6000 Head	20.5	5935	5.355	34.708	5.411	35.143	-1.03%	-1.24%
			5970	5.409	34.653	5.448	35.120	-0.72%	-1.33%
			5985	5.418	34.675	5.464	35.110	-0.84%	-1.24%
			6000	5.428	34.588	5.480	35.100	-0.95%	-1.46%
			6025	5.487	34.484	5.510	35.070	-0.42%	-1.67%
			6065	5.548	34.561	5.557	35.022	-0.16%	-1.32%
			6075	5.540	34.557	5.569	35.010	-0.52%	-1.29%
			6085	5.540	34.484	5.580	34.998	-0.72%	-1.47%
			6185	5.652	34.309	5.698	34.878	-0.81%	-1.63%
			6275	5.797	34.176	5.805	34.770	-0.14%	-1.71%
			6285	5.793	34.110	5.816	34.758	-0.40%	-1.86%
			6305	5.797	34.013	5.840	34.734	-0.74%	-2.08%
			6345	5.890	33.966	5.887	34.686	0.05%	-2.08%
			6475	6.015	33.839	6.041	34.530	-0.43%	-2.00%
			6485	6.021	33.823	6.052	34.518	-0.51%	-2.01%
			6500	6.028	33.694	6.070	34.500	-0.69%	-2.34%
			6505	6.030	33.663	6.076	34.494	-0.76%	-2.41%
			6545	6.116	33.581	6.122	34.446	-0.10%	-2.51%
			6665	6.259	33.434	6.265	34.302	-0.10%	-2.53%
			6675	6.261	33.478	6.273	34.290	-0.19%	-2.37%
			6685	6.270	33.481	6.285	34.278	-0.24%	-2.33%
			6715	6.282	33.243	6.319	34.242	-0.59%	-2.92%
			6785	6.401	33.269	6.400	34.158	0.02%	-2.60%
			6825	6.423	33.022	6.447	34.110	-0.37%	-3.19%
			6985	6.646	32.917	6.633	33.918	0.20%	-2.95%
			6995	6.637	32.874	6.644	33.906	-0.11%	-3.04%
			7000	6.628	32.837	6.650	33.900	-0.33%	-3.14%
			7005	6.617	32.801	6.656	33.894	-0.59%	-3.22%
			7025	6.628	32.703	6.680	33.870	-0.78%	-3.45%

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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Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in SAR System Validation Appendix. Verifications and validations were run on the standard SAR phantom. The same equipment and tissue were then used for tests run using the headstand phantom.

Table 8-4
System Verification Results

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
O	2450	HEAD	08/12/2024	21.3	20.3	0.10	797	3914	728	5.40	52.00	54.00	3.85%	2.52	24.40	25.20	3.28%	N/A	N/A	N/A	N/A
O	2450	HEAD	08/26/2024	22.3	20.9	0.10	981	3914	728	5.42	53.90	54.20	0.56%	2.54	25.40	25.40	0.00%	N/A	N/A	N/A	N/A
C	2450	HEAD	09/12/2024	22.8	22.3	0.10	797	7659	1407	5.01	52.00	50.10	-3.65%	2.33	24.40	23.30	-4.51%	N/A	N/A	N/A	N/A
C	2450	HEAD	04/17/2025	21.9	21.5	0.10	981	7713	1530	4.86	51.80	48.60	-6.18%	2.29	24.30	22.90	-5.76%	N/A	N/A	N/A	N/A
G	5250	HEAD	08/26/2024	23.5	23.0	0.05	1057	7713	1530	3.84	79.40	76.80	-3.27%	1.09	22.70	21.80	-3.95%	N/A	N/A	N/A	N/A
S	5250	HEAD	04/16/2025	21.2	21.5	0.05	1191	7803	1583	3.78	78.90	75.60	-4.18%	1.10	22.70	22.00	-3.08%	N/A	N/A	N/A	N/A
G	5600	HEAD	08/26/2024	23.5	23.0	0.05	1057	7713	1530	4.16	82.80	83.20	0.48%	1.16	23.60	23.20	-1.69%	N/A	N/A	N/A	N/A
S	5600	HEAD	04/16/2025	21.2	21.5	0.05	1191	7803	1583	4.14	83.00	82.80	-0.24%	1.20	23.90	24.00	0.42%	N/A	N/A	N/A	N/A
G	5750	HEAD	08/26/2024	23.5	23.0	0.05	1057	7713	1530	3.89	79.80	77.80	-2.51%	1.10	22.70	22.00	-3.08%	N/A	N/A	N/A	N/A
S	5750	HEAD	04/16/2025	21.2	21.5	0.05	1191	7803	1583	3.93	78.90	78.60	-0.38%	1.15	22.40	23.00	2.68%	N/A	N/A	N/A	N/A
G	5850	HEAD	08/26/2024	23.5	23.0	0.05	1057	7713	1530	3.87	81.50	77.40	-5.03%	1.07	23.00	21.40	-6.96%	N/A	N/A	N/A	N/A
S	5850	HEAD	04/16/2025	21.2	21.5	0.05	1191	7803	1583	3.92	78.80	78.40	-0.51%	1.13	22.50	22.60	0.44%	N/A	N/A	N/A	N/A
C	6500	HEAD	09/25/2024	22.8	22.1	0.03	1018	7659	1407	6.97	293.00	278.80	-4.85%	1.28	53.90	51.20	-5.01%	31.00	1310.00	1240.00	-5.34%
R	6500	HEAD	05/12/2025	21.8	20.5	0.03	1111	7570	1638	6.84	298.00	273.60	-8.19%	1.26	55.20	50.40	-8.70%	30.50	1350.00	1220.00	-9.63%

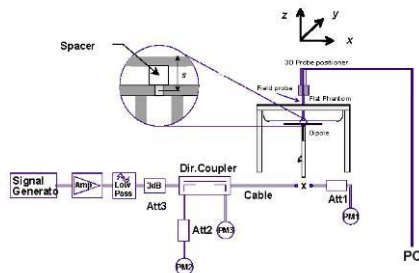


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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8.2 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.

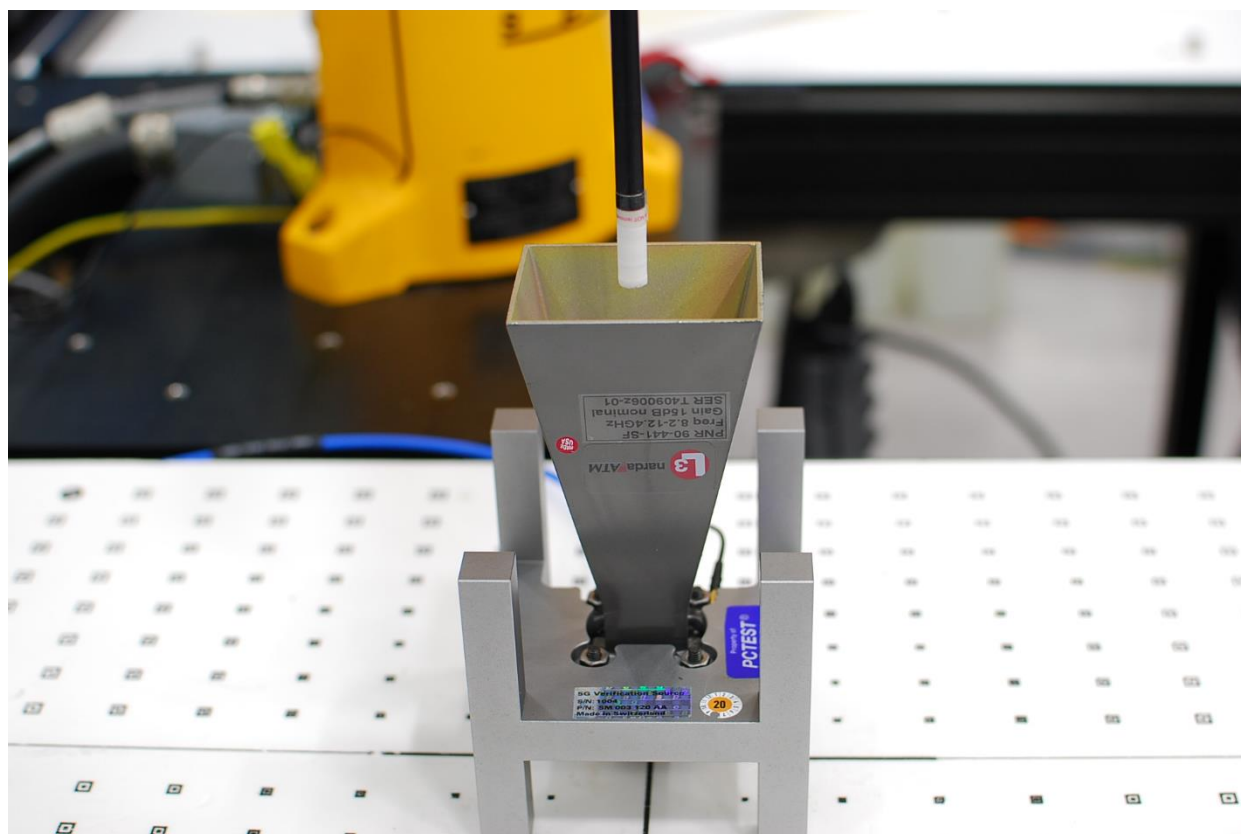


Figure 8-3
System Verification Setup Photo

Table 8-5
10 GHz Verifications

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	05/19/2025	1002	9389	93.3	47.50	58.50	-0.90	47.70	58.70	-0.90

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

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9 DATA SUMMARY

9.1 2.4 GHz WLAN and 5 GHz WLAN SAR Results

Table 9-1
2.4 GHz WLAN SISO Head SAR | Plot A1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	0073M	98.87	-0.01	2412.00	1	1.0	20.0	19.07	Headstand	0	0.057	1.239	1.011	0.071	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	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]	Plot #
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	0073M	98.87	-0.18	2462.00	11	1.0	20.0	19.98	Headstand	0	0.073	1.016	1.011	0.075	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						

Per manufacturer request, 2.4 GHz WLAN testing was done at a target of 19.0 dBm which is higher and more conservative than the tune up target of 17.0 dBm.

Table 9-2
2.4 GHz WLAN SISO Extremity SAR | Plot A2

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	0073M	98.87	-0.11	2412.00	1	1	20.0	19.07	Front	0	0.486	1.239	1.011	0.609	
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	0073M	98.87	-0.06	2412.00	1	1	20.0	19.07	Top	0	0.103	1.239	1.011	0.129	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Extremity 4.0 W/kg (mW/g) averaged over 10 grams						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	2	0073M	98.87	0.00	2462.00	11	1	20.0	19.93	Front	0	1.060	1.016	1.011	1.089	Plot
Extremity	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	0073M	98.87	-0.01	2462.00	11	1	20.0	19.93	Top	0	0.122	1.016	1.011	0.125	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

Per manufacturer request, 2.4 GHz WLAN testing was done at a target of 19.0 dBm which is higher and more conservative than the tune up target of 17.0 dBm.

Table 9-3
5 GHz WLAN SISO Head SAR | Plot A3

ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak													Head							
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 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	0073M	95.82	0.00	5290.00	58	U-NII-2A	58.5	15.0	14.69	Face-Down	0	0.034	1.074	1.044	0.038	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	0073M	95.82	0.00	5690.00	138	U-NII-2C	58.5	15.0	14.98	Face-Down	0	0.233	1.005	1.044	0.244	Plot
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	0073M	95.82	0.00	5775.00	155	U-NII-3	58.5	12.0	11.31	Face-Down	0	0.188	1.172	1.044	0.230	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak													Head							
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 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	0073M	95.04	-0.10	5290.00	58	U-NII-2A	58.5	15.0	14.32	Face-Down	0	0.048	1.169	1.052	0.059	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	0073M	95.04	0.12	5690.00	138	U-NII-2C	58.5	15.0	14.62	Face-Down	0	0.110	1.091	1.052	0.126	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	2	0073M	95.04	0.04	5775.00	155	U-NII-3	58.5	12.0	11.75	Face-Down	0	0.152	1.059	1.052	0.169	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak													Head							
Uncontrolled Exposure/General Population													1.6 W/kg (mW/g) averaged over 1 gram							

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Table 9-4
5 GHz WLAN SISO Extremity SAR | Plot A4

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	0019M	95.82	0.01	5290.00	58	U-NII-2A	58.5	15.0	14.69	Front	0	0.561	1.074	1.044	0.629	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	0019M	95.82	0.05	5690.00	138	U-NII-2C	58.5	15.0	14.98	Front	0	0.209	1.005	1.044	0.219	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	1768M	95.82	0.07	5775.00	155	U-NII-3	58.5	12.0	11.31	Front	0	0.178	1.172	1.044	0.218	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	0019M	95.82	-0.07	5290.00	58	U-NII-2A	58.5	15.0	14.69	Top	0	0.058	1.074	1.044	0.065	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	0019M	95.82	-0.10	5690.00	138	U-NII-2C	58.5	15.0	14.98	Top	0	0.143	1.005	1.044	0.150	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	0019M	95.82	-0.14	5775.00	155	U-NII-3	58.5	12.0	11.31	Top	0	0.166	1.172	1.044	0.203	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	-0.07	5290.00	58	U-NII-2A	58.5	15.0	14.32	Front	0	0.563	1.369	1.052	0.692	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	0.01	5690.00	138	U-NII-2C	58.5	15.0	14.62	Front	0	0.758	1.091	1.052	0.870	Plot
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	0.03	5775.00	155	U-NII-3	58.5	12.0	11.75	Front	0	0.562	1.059	1.052	0.626	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	-0.02	5290.00	58	U-NII-2A	58.5	12.0	14.32	Top	0	0.160	0.986	1.052	0.099	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	0.01	5690.00	138	U-NII-2C	58.5	15.0	14.62	Top	0	0.153	1.091	1.052	0.176	
Extremity	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	2	0019M	95.04	-0.08	5775.00	155	U-NII-3	58.5	12.0	11.75	Top	0	0.209	1.059	1.052	0.233	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

Table 9-5
2.4 GHz Bluetooth SISO Head SAR | Plot A5

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]	Plot #
Head	2.4 GHz Bluetooth	FHSS	1	0073M	76.80	0.00	2441.00	39	1.0	19.0	17.73	Headstand	0	0.010	1.340	1.016	0.014	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	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]	Plot #
Head	2.4 GHz Bluetooth	FHSS	2	0073M	76.80	-0.04	2402.00	0	1.0	19.0	17.64	Headstand	0	0.023	1.368	1.016	0.032	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 9-6
2.4 GHz Bluetooth SISO Extremity SAR | Plot A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	1	0019M	76.80	0.02	2441.00	39	1	19.0	17.73	Front	0	0.064	1.340	1.016	0.087	
Extremity	2.4 GHz Bluetooth	FHSS	1	0019M	76.80	0.01	2441.00	39	1	19.0	17.73	Top	0	0.005	1.340	1.016	0.007	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Extremity 4.0 W/kg (mW/g) averaged over 10 grams						
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth	FHSS	2	0019M	76.80	0.15	2402.00	0	1	19.0	17.64	Front	0	0.125	1.368	1.016	0.174	Plot
Extremity	2.4 GHz Bluetooth	FHSS	2	0019M	76.80	0.02	2402.00	0	1	19.0	17.64	Top	0	0.006	1.368	1.016	0.008	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

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9.2 6 GHz WLAN SAR and Absorbed Power Density Results

Table 9-7
6 GHz WLAN SISO Head SAR – Antenna 1 | Plot A7

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]	Plot #
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	-0.18	6105.00	31	136.1	13.0	12.29	Face-Down	0	0.019	1.178	1.004	0.022	Plot
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.07	6425.00	95	136.1	13.0	12.03	Face-Down	0	0.009	1.250	1.004	0.011	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.07	6745.00	159	136.1	13.0	12.04	Face-Down	0	0.007	1.247	1.004	0.009	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.01	6905.00	191	136.1	13.0	12.78	Face-Down	0	0.005	1.052	1.004	0.005	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	-0.18	6105.00	31	136.1	13.0	12.29	Face-Down	0	0.141	1.178	1.004	0.167	Plot
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.07	6425.00	95	136.1	13.0	12.03	Face-Down	0	0.083	1.250	1.004	0.104	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.07	6745.00	159	136.1	13.0	12.04	Face-Down	0	0.043	1.247	1.004	0.054	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	0073M	99.62	0.01	6905.00	191	136.1	13.0	12.78	Face-Down	0	0.017	1.052	1.004	0.018	

Table 9-8
6 GHz WLAN SISO Head SAR – Antenna 2 | Plot A8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Plot #
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	1768M	99.58	0.05	6105.00	31	136.1	12.5	12.30	Face-Down	0	0.013	1.047	1.004	0.014	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.04	6425.00	95	136.1	12.5	12.46	Face-Down	0	0.010	1.009	1.004	0.010	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.08	6745.00	159	136.1	12.5	12.48	Face-Down	0	0.010	1.005	1.004	0.010	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.06	6905.00	191	136.1	12.5	12.46	Face-Down	0	0.002	1.009	1.004	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	1768M	99.58	0.05	6105.00	31	136.1	12.5	12.30	Face-Down	0	0.079	1.047	1.004	0.083	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.04	6425.00	95	136.1	12.5	12.46	Face-Down	0	0.086	1.009	1.004	0.087	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.08	6745.00	159	136.1	12.5	12.48	Face-Down	0	0.110	1.005	1.004	0.111	
Head	6 GHz WiFi / IEEE 802.11be	320	DSSS	2	0073M	99.58	0.06	6905.00	191	136.1	12.5	12.46	Face-Down	0	0.001	1.009	1.004	0.001	

Table 9-9
6 GHz WLAN SISO Extremity SAR – Antenna 1 | Plot A9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	-0.11	6105.00	31	136.1	13.0	12.29	Front	0	0.241	1.178	1.004	0.285	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.01	6425.00	95	136.1	13.0	12.03	Front	0	0.170	1.250	1.004	0.213	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.02	6745.00	159	136.1	13.0	12.04	Front	0	0.289	1.247	1.004	0.362	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.05	6905.00	191	136.1	13.0	12.78	Front	0	0.296	1.052	1.004	0.313	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.01	6105.00	31	136.1	13.0	12.29	Top	0	0.063	1.178	1.004	0.075	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Extremity 4.0 W/kg (mW/g) averaged over 10 grams						
Exposure	Band / Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	-0.11	6105.00	31	136.1	13.0	12.29	Front	0	5.540	1.178	1.004	6.552	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.01	6425.00	95	136.1	13.0	12.03	Front	0	3.930	1.250	1.004	4.932	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.02	6745.00	159	136.1	13.0	12.04	Front	0	6.760	1.247	1.004	8.463	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.05	6905.00	191	136.1	13.0	12.78	Front	0	6.930	1.052	1.004	7.920	
Extremity	6 GHz WiFi / IEEE 802.11be	320	DSSS	1	1768M	99.62	0.01	6105.00	31	136.1	13.0	12.29	Top	0	1.420	1.178	1.004	1.679	

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Table 9-10
6 GHz WLAN SISO Extremity SAR – Antenna 2 | Plot A10

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.06	6105.00	31	136.1	12.5	12.30	Front	0	0.264	1.047	1.004	0.278	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.12	6425.00	95	136.1	12.5	12.46	Front	0	0.312	1.009	1.004	0.316	Plot
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.09	6745.00	159	136.1	12.5	12.48	Front	0	0.231	1.005	1.004	0.233	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.09	6905.00	191	136.1	12.5	12.46	Front	0	0.236	1.009	1.004	0.239	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.07	6905.00	191	136.1	12.5	12.46	Top	0	0.114	1.009	1.004	0.115	
ANS/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Extremity 4.0 W/kg (mW/g) averaged over 10 grams				
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Plot #
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.06	6105.00	31	136.1	12.5	12.30	Front	0	6.060	1.047	1.004	6.370	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.12	6425.00	95	136.1	12.5	12.46	Front	0	7.140	1.009	1.004	7.223	Plot
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.09	6745.00	159	136.1	12.5	12.48	Front	0	5.400	1.005	1.004	5.449	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.09	6905.00	191	136.1	12.5	12.46	Front	0	5.500	1.009	1.004	5.572	
Extremity	6 GHz WiFi/ IEEE 802.11be	320	DSSS	2	1768M	99.58	0.07	6905.00	191	136.1	12.5	12.46	Top	0	2.570	1.009	1.004	2.604	

9.3 6 GHz WLAN Power Density Results

Table 9-11
6 GHz WLAN SISO Power Density | Plot A11

MEASUREMENT RESULTS																							
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6905.00	191	802.11be	OFDM	320	13.00	12.78	0.01	2	1	1768M	MCS0	Front	99.38	0.125	2.470	1.554	1.052	1.006	4.050	6.661	4.350	7.154	
6905.00	191	802.11be	OFDM	320	13.00	12.78	-0.01	8.58	1	1768M	MCS0	Front	99.38	0.125	2.950	1.554	1.052	1.006	2.730	4.490	3.080	5.065	
6425.00	95	802.11be	OFDM	320	12.50	12.46	0.11	2	2	1768M	MCS0	Front	99.51	0.125	-	1.554	1.009	1.005	3.650	5.752	4.470	7.044	Plot
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²													

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SAR and Absorbed Power Density General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
7. Per October 2020 TCB Workshop notes, 5 channels were tested. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.
8. Per FCC KDB Publication 865664 D01v01r04, variability SAR tests were not required since measured SAR results for all frequency bands were less than 0.8 W/kg for 1g SAR and less than 2.0 W/kg for 10g SAR.
9. The highest overall reported SAR configuration was additionally evaluated with headband accessory attached.

WLAN Notes:

1. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 6.2.5 for more information.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 6.2.6 for more information.
3. 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.
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. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
5. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 9 for complete analysis.
6. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors. Per October 2020 TCB Workshop notes, 5 channels were tested.

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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.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
8. PTP-PR algorithm was used during psPD measurements and calculations.

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10 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	6/24/2024	Annual	6/24/2025	1840005
Anritsu	ML2495A	Power Meter	7/8/2024	Annual	7/8/2025	1039008
Anritsu	MA2411B	Pulse Power Sensor	11/8/2023	Annual	11/8/2024	1027293
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Mini-Circuits	PWR-4GHS	USB Power Sensor	6/12/2024	Annual	6/12/2025	12001070013
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310282
Control Company	S66279	Therm./ Clock/ Humidity Monitor	2/16/2024	Biennial	2/16/2026	240140051
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N9020A	MXA Signal Analyzer	4/11/2024	Annual	4/11/2025	MY54500644
Agilent	N9020A	MXA Signal Analyzer	6/14/2024	Annual	6/14/2025	MY56470202
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	7/5/2023	Annual	7/5/2024	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Seekonk	NC-100	Torque Wrench	4/2/2024	Biennial	4/2/2026	1262
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/13/2023	Annual	11/13/2024	1277
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/11/2024	Annual	3/11/2025	1102
SPEAG	D2450V2	2450 MHz SAR Dipole	11/15/2022	Biennial	11/15/2024	797
SPEAG	D2450V2	2450 MHz SAR Dipole	11/25/2021	Triennial	11/25/2024	981
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Annual	2/21/2025	1057
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/17/2024	Biennial	1/17/2026	1191
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/22/2024	Annual	2/22/2025	1111
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	1/10/2024	Annual	1/10/2025	1018
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/5/2024	Annual	3/5/2025	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/8/2024	Annual	5/8/2025	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/18/2024	Annual	4/18/2025	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/8/2024	Annual	7/8/2025	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/18/2024	Annual	4/18/2025	1407
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	EX3DV4	SAR Probe	5/10/2024	Annual	5/10/2025	3914
SPEAG	EX3DV4	SAR Probe	1/17/2024	Annual	1/17/2025	7713
SPEAG	EX3DV4	SAR Probe	4/17/2024	Annual	4/17/2025	7659
SPEAG	EX3DV4	SAR Probe	6/28/2024	Annual	6/28/2025	7803
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EUMMWV4	EUMMWV4 Probe	2/2/2024	Annual	2/2/2025	9622

Note:

- Each equipment item was used solely within its respective calibration period.
- 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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11 MEASUREMENT UNCERTAINTIES

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

Applicable for SAR measurements < 6GHz:

a	b	c	d	e = f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS						12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2						24.4	24.0	

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

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Applicable for SAR measurements > 6GHz:

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

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

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Applicable for Power Density Measurements:

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

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12 CONCLUSION

12.1 Measurement Conclusion

Please note that the RF Exposure 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.

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