



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

02/23/2026-06/25/2026

Test Site/Location

Element, Columbia, MD, USA
Element, Unhak2, Korea

Document Serial No:

1M2601220004-01.A3L

FCC ID:

A3LSMO200J

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Extended Reality Glasses

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model Name:

SM-O200J

Additional Model Name(s):

SM-O201J, SM-O202J, SM-O203J, SM-O204J, SM-O205J

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	1g Body-Worn (W/kg)
DTS	2.4 GHz WIFI	2412 - 2462 MHz	0.51	0.70
NII	5 GHz WIFI	U-NII-1: 5180 - 5240 MHz	0.59	0.78
		U-NII-2A: 5260 - 5320 MHz		
		U-NII-2C: 5500 - 5720 MHz		
		U-NII-3: 5745 - 5825 MHz		
6CD/6VL	6 GHz WIFI	U-NII-4: 5845 - 5885 MHz	0.30	0.35
		U-NII-5: 5935 - 6415 MHz		
		U-NII-6: 6435 - 6515 MHz		
		U-NII-7: 6535 - 6875 MHz		
DSS	2.4 GHz Bluetooth	U-NII-8: 6895 - 7115 MHz	0.13	0.37
		2402 - 2480 MHz		
Simultaneous SAR per KDB 690783 D01v01r03:			1.00	1.49
Band & Mode	Tx Frequency	APD (W/m ²)		Reported PD (W/m ²)
		Head	Body-Worn	
6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	1.77	2.38	6.40
Overall SAR Summary				
RF Exposure Position		Head		Body-worn
SAR (W/kg)		0.59		0.78
Distance (mm)		0		5

This wireless Extended Reality Glasses 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
VP - Connected Technologies


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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Rev. No	Description	Issue Date	Revised By
-	Initial Release		WKR017960

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1. TEST LABORATORY INFORMATION

1.1 Introduction

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

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax + 1.410.381.1520
Accreditation Info.	Designation Number (FCC): US1113
	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	
Measurement system No.	Q, R, S, M, O, L

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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1.2.2 Testing Laboratory 2

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

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

2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz

2.2 Variant Device Information

Parent Model Name:	Variant Model Name:	Mode:	Comments:
SM-O200J	SM-O201J	Unlicensed	See Section 10 for spot-check Data
	SM-O202J	Unlicensed	See Section 10 for spot-check Data
	SM-O203J	Unlicensed	See Section 10 for spot-check Data
	SM-O204J	Unlicensed	See Section 10 for spot-check Data
	SM-O205J	Unlicensed	See Section 10 for spot-check Data

According to the Product Equality Declaration (PED) provided by the manufacturer, the product family consists of the parent model SM-O200P and four variant models: SM-O201J, SM-O202J, SM-O203J, SM-O204P, and SM-O205J.

The only difference between the parent and variant models is the design of the front frame. All models have the same hardware and operating characteristics, including the circuit design, components, antennas and their locations, power tables, and tune-up tolerances. The differences in the front-frame design do not affect the RF exposure characteristics of the devices.

The proposed parent and variant model evaluation approach, including the selection of the parent model, the comparative SAR verification of the variant models, and the applicable test configurations, was reviewed and accepted through FCC KDB Inquiry 316482.

Accordingly, full SAR testing was performed on the parent model SM-O200J. Comparative SAR verification measurements were performed on variant models SM-O201J, SM-O202J, SM-O203J, SM-O204J, and SM-O205J using the parent-to-variant comparison criteria specified in Section 3.2.2 of FCC KDB Publication 484596 D01 v03. The verification measurements were performed using the worst-case body-worn exposure condition and frequency band selected in accordance with the test approach accepted under FCC KDB Inquiry 316482.

All variant models met the applicable acceptance criteria specified in Section 3.2.2 of FCC KDB Publication 484596 D01 v03. Therefore, additional full SAR testing of the variant models was not required.

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2.3 Power Reduction for SAR

This device employs an independent, fixed-level power control mechanism for WLAN and Bluetooth operations to ensure SAR compliance. The grip sensor is located on the inner side of the temple. According to the manufacturer's declaration, the grip sensor is triggered when the inner surface of the temple at the sensor location is in direct contact with the user, corresponding to a separation distance of 0 mm. Under this condition, the device operates at maximum power. When the temple is separated from the user and the grip sensor is no longer triggered, the device operates at the reduced power level. Detailed information regarding the power control mechanism is provided in the operational description.

The device operates using two different DSIs, each corresponding to a different power level. Throughout this report, DSI = 1, which applies when the grip sensor is triggered at a separation distance of 0 mm, is defined as Power Level 1 and represents the maximum-power test condition at Pmax. DSI = 0, which applies when the grip sensor is not triggered, is defined as Power Level 2 and represents the reduced-power test condition.

2.4 Nominal and Maximum Output Power Specifications

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

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

2.4.1 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Maximum Power, Power Level 1 Head

Band	IEEE 802.11 Modulated Output Power (in dBm)									
	Antenna 1									
	b		g		n		ac		ax (SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WLAN	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
			ch. 1: 16.0	15.0	ch. 1: 14.0	13.0	ch. 1: 14.0	13.0	ch. 1: 14.0	13.0
					ch. 11: 14.0	13.0	ch. 11: 14.0	13.0	ch. 11: 14.0	13.0

The below table is applicable in the following conditions:

- Power Level 2 Body

Band	IEEE 802.11 Modulated Output Power (in dBm)									
	Antenna 1									
	b		g		n		ac		ax (SU)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WLAN	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0

2.4.2 5 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Maximum Power, Power Level 1 Head

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Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)							
		Antenna 1							
		a		n		ac		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	UNII-1	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-2A	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-2C	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-3	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	UNII-4	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
5 GHz WiFi (40MHz BW)	UNII-1			13.0	12.0	13.0	12.0	13.0	12.0
	UNII-2A			13.0	12.0	13.0	12.0	13.0	12.0
	UNII-2C			13.0	12.0	13.0	12.0	13.0	12.0
	UNII-3			13.0	12.0	13.0	12.0	13.0	12.0
	UNII-4			13.0	12.0	13.0	12.0	13.0	12.0
5 GHz WiFi (80MHz BW)	UNII-1					13.0	12.0	13.0	12.0
	UNII-2A					13.0	12.0	13.0	12.0
	UNII-2C					13.0	12.0	13.0	12.0
	UNII-3					13.0	12.0	13.0	12.0
	UNII-4					13.0	12.0	13.0	12.0
5 GHz WiFi (160MHz BW)	UNII-1/2A					13.0	12.0	13.0	12.0
	UNII-2C					12.0	11.0	13.0	12.0
	UNII-3/4					13.0	12.0	13.0	12.0

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The below table is applicable in the following conditions:

- Power Level 2 Body

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)							
		Antenna 1							
		a		n		ac		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WiFi (20MHz BW)	UNII-1	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-2A	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-2C	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-3	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-4	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
5 GHz WiFi (40MHz BW)	UNII-1			9.0	8.0	9.0	8.0	9.0	8.0
	UNII-2A			9.0	8.0	9.0	8.0	9.0	8.0
	UNII-2C			9.0	8.0	9.0	8.0	9.0	8.0
	UNII-3			9.0	8.0	9.0	8.0	9.0	8.0
	UNII-4			9.0	8.0	9.0	8.0	9.0	8.0
5 GHz WiFi (80MHz BW)	UNII-1					9.0	8.0	9.0	8.0
	UNII-2A					9.0	8.0	9.0	8.0
	UNII-2C					9.0	8.0	9.0	8.0
	UNII-3					9.0	8.0	9.0	8.0
	UNII-4					9.0	8.0	9.0	8.0
5 GHz WiFi (160MHz BW)	UNII-1/2A					9.0	8.0	9.0	8.0
	UNII-2C					9.0	8.0	9.0	8.0
	UNII-3/4					9.0	8.0	9.0	8.0

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2.4.3 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Maximum Power, Power Level 1 Head

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)			
		Antenna 1			
		a		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.0	8.0	9.0	8.0
		ch. 2: 8.5	7.5	ch. 2: 7.5	6.5
	UNII-6	9.0	8.0	9.0	8.0
	UNII-7	9.0	8.0	9.0	8.0
6 GHz WiFi (40MHz BW) - LPI	UNII-8	9.0	8.0	9.0	8.0
	UNII-5			12.0	11.0
	UNII-6			12.0	11.0
	UNII-7			12.0	11.0
	UNII-8			12.0	11.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			12.0	11.0
	UNII-6			12.0	11.0
	UNII-7			12.0	11.0
	UNII-8			12.0	11.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			12.0	11.0
	UNII-6			12.0	11.0
	UNII-7			12.0	11.0
	UNII-8			12.0	11.0
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)			
		Antenna 1			
		a		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	7.0	6.0	7.0	6.0
	UNII-6	7.0	6.0	7.0	6.0
	UNII-7	7.0	6.0	7.0	6.0
	UNII-8	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0

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The below table is applicable in the following conditions:

- Power Level 2 Body

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)			
		Antenna 1			
		a		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	7.0	6.0	7.0	6.0
	UNII-6	7.0	6.0	7.0	6.0
	UNII-7	7.0	6.0	7.0	6.0
	UNII-8	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)			
		SISO 1			
		Antenna 1			
Maximum / Nominal Power		a		ax (SU)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	7.0	6.0	7.0	6.0
	UNII-6	7.0	6.0	7.0	6.0
	UNII-7	7.0	6.0	7.0	6.0
	UNII-8	7.0	6.0	7.0	6.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			7.0	6.0
	UNII-6			7.0	6.0
	UNII-7			7.0	6.0
	UNII-8			7.0	6.0

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2.4.4 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

- Maximum Power, Power Level 1 Head = Power Level 2 Body

Mode	Data Rate	Modulated Output Power (in dBm)	
		Single Antenna	
		Antenna 1	
Maximum / Nominal Power		Max	Nom.
Bluetooth	1Mbps	13.0	12.0
Bluetooth EDR	2Mbps	10.0	9.0
Bluetooth EDR	3Mbps	10.0	9.0
Bluetooth LE	1Mbps	10.0	9.0
Bluetooth LE	2Mbps	10.0	9.0
Bluetooth LE	125kbps	10.0	9.0
Bluetooth LE	500kbps	10.0	9.0

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2.5 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 outer side of the antenna-containing temple for the body-worn exposure condition and on the inner side for the head exposure condition. The outer side of the antenna-containing temple was also evaluated by SAR measurement using a standard flat phantom to provide a conservative assessment of RF exposure compliance. All test configurations conform to the procedures specified in KDB Publications 388624 D02, 447498 D04 and 248227 D01 for Extended Reality Glasses exposure assessments.

**Table 2-1
Device Surfaces**

Antenna	Back	Front	Top	Bottom	Right	Left
1	Yes	No	No	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 D04 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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2.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

No.	Capable Transmit Configuration	Supported
1	2.4 GHz WLAN Ant 1 + 5 GHz WLAN Ant 1	Yes
2	2.4 GHz WLAN Ant 1 + 6 GHz WLAN Ant 1	Yes
3	2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes
4	2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN Ant 1	Yes

2.7 Miscellaneous Testing Considerations

(A) WIFI/BT

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 1 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5 GHz
- g) 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 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 wearable smart eyewear (smart glasses). A head stand phantom was used to support SAR testing in the representative worn configuration. SAR measurements were performed in accordance with FCC KDB 447498 D04 and 865664 D01.

Additionally, 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.

For face-worn iPD measurements, due to physical form-factor constraints, the device will be positioned with the temples folded, such that the antenna containing temple is oriented toward the outer side. The measurement will be conducted at a 2mm separation distance above the top surface of the temple. This configuration preserves the mechanical and electrical integrity of the device in its as-designed operation condition while enabling iPD measurement at the closes practical separation distance.

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Additionally, the glasses will be tested with the temples folded such that the temple containing the antenna is oriented outward and the measurement will be performed at a 2 mm separation distance from the device surface. These measurements will be conducted with both a charging case and without a charging case and represent the body-worn condition.

2.8 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 D04 v01
- FCC KDB 865664 D01 v01r04
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- FCC KDB 775926 D01 v01

2.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 10.

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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 Extended Reality Glasses. [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.

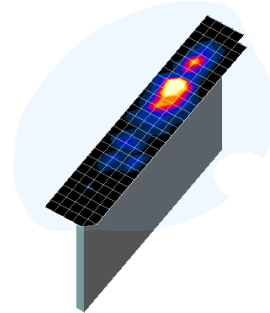


Figure 4-1
Sample SAR Area Scan

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 TEST CONFIGURATION POSITIONS

5.1 General

SAR test configurations were established in accordance with IEC/IEEE 62209-1528:2020 and applicable FCC RF exposure guidance.

The device under test (DUT) is a glasses-type head-mounted wireless device. Based on realistic user scenarios and antenna locations, SAR evaluations were performed under:

- Head-Worn configurations using the SAM Head-Stand Phantom
- Body-Worn configurations using the flat phantom section of the SAM Twin Phantom

Worst-case antenna-to-phantom proximity and realistic use conditions were considered in determining the final test configurations.

5.2 Head-Worn SAR Test Configurations (SAM Head-Stand Phantom)

Head-worn SAR evaluations were performed using the SAM Head-Stand Phantom in accordance with IEC/IEEE 62209-1528 Annex K.3.2.

The head-stand phantom (See Figure 5-1):

- Corresponds to the SAM geometry defined in Annex G
- Is oriented with the top of the head facing downward
- Is truncated above the bottom of the ear reference point
- Includes an upper extension to maintain sufficient liquid depth
- Has a shell thickness of 2.0 mm $\pm$ 0.2 mm
- Is filled with tissue-equivalent liquid meeting Clause 6.2 dielectric specifications

The measurable region includes the entire head section excluding the extruded upper extension.



Figure 5-1
Head-Stand
Phantom

5.2.1 Head-Worn Condition – Normal Face-Worn Position

The DUT was positioned on the SAM Head-Stand Phantom to represent normal wearing conditions.

Positioning details:

1. The device frame was aligned symmetrically on the phantom.
2. The nose bridge region was aligned with the phantom nasal area.
3. The temple arms followed the contour of the phantom head.
4. The antenna-containing regions were positioned in closest proximity to the measurable surface.

This configuration represents the typical head-worn use condition. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

5.2.2 Head-Worn Condition – Forehead-Worn Position

Considering potential user scenarios where the device may be shifted upward on the head, an additional forehead-worn configuration was evaluated.

Positioning details:

1. The device was repositioned upward toward the forehead region.
2. The antenna-containing temple/frame region was aligned with the upper measurable head area.
3. Stable and repeatable contact was ensured.

This configuration represents a conservative evaluation scenario with potential increased coupling in the upper head region. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

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5.3 Head-Worn SAR Test Configurations (SAM Face-Down Phantom)

Head-worn SAR evaluations were performed using the SAM Face-Down Phantom in accordance with IEC/IEEE 62209-1528 Annex K.3.2.

The face-down phantom (See Figure 5-2):

- Corresponds to the SAM geometry defined in Annex G
- Is oriented with the front of the head facing downward
- Is truncated above the back of the ear reference point
- Includes an upper extension to maintain sufficient liquid depth
- Has a shell thickness of $2.0 \text{ mm} \pm 0.2 \text{ mm}$
- Is filled with tissue-equivalent liquid meeting Clause 6.2 dielectric specifications

The measurable region includes the entire head section excluding the extruded upper extension.

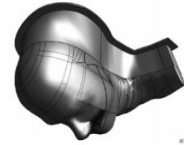


Figure 5-2
Face-Down
Phantom

5.3.1 Head-Worn Condition – Normal Face-Worn Position

The DUT was positioned on the SAM Face-Down Phantom to represent normal wearing conditions.

Positioning details:

5. The device frame was aligned symmetrically on the phantom.
6. The nose bridge region was aligned with the phantom nasal area.
7. The temple arms followed the contour of the phantom head.
8. The antenna-containing regions were positioned in closest proximity to the measurable surface.

This configuration represents the typical head-worn use condition. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

5.3.2 Head-Worn Condition – Forehead-Worn Position

Considering potential user scenarios where the device may be shifted upward on the head, an additional forehead-worn configuration was evaluated.

Positioning details:

4. The device was repositioned upward toward the forehead region.
5. The antenna-containing temple/frame region was aligned with the upper measurable head area.
6. Stable and repeatable contact was ensured.

This configuration represents a conservative evaluation scenario with potential increased coupling in the upper head region. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

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5.4 Body-Worn SAR Test Configurations (Flat Phantom – SAM Twin)

Body-worn SAR evaluations were performed using the flat phantom section of the SAM Twin Phantom in accordance with IEC/IEEE 62209-1528 Annex G. The phantom shell thickness is $2.0 \text{ mm} \pm 0.2 \text{ mm}$ and is filled with tissue-equivalent liquid meeting Clause 6.2 dielectric specifications. Body-worn evaluations represent off-head clothing-carried and charging-case-carried scenarios.

5.4.1 Body-Worn Condition – Clothing-Carried (Back of Device - Body-Facing Temple Orientation)

The DUT was positioned with the antenna-containing temple oriented toward the phantom surface to represent the closest antenna-to-phantom separation (See Figure 5-3).

Positioning details:

1. The back side of the device faced the phantom.
2. The antenna region was aligned directly toward the flat phantom surface.
3. The device was placed in 5 mm separation

This configuration represents the worst-case body-worn condition due to minimal separation distance and maximum coupling. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

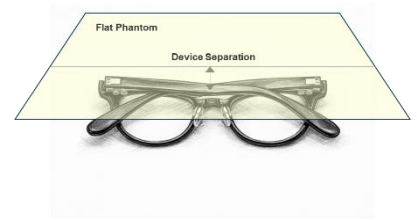


Figure 5-3
Body-worn
Condition –
Clothing - Carried

5.4.2 Body-Worn Condition – Inside Charging Case (Body-Facing Temple Orientation)

The DUT was placed inside its charging case and positioned at a separation distance of 5 mm from the flat phantom (See Figure 5-4).

Positioning details:

1. The antenna-containing temple region was oriented toward the phantom.
2. A 5 mm separation was maintained between the closest outer surface of the charging case and the phantom surface.
3. The charging case was positioned to provide the closest antenna-to-phantom proximity while maintaining the specified 5 mm separation.

This configuration represents the worst-case exposure condition for charging-case-carried use. Area and zoom scans were performed over the relevant antenna regions to determine worst-case SAR.

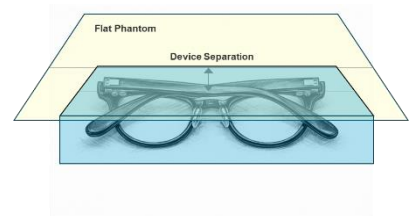


Figure 5-4
Body-worn
Condition – Inside
Charging Case

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6 sRF EXPOSURE LIMITS

6.1 Uncontrolled Environment

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

6.2 Controlled Environment

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

6.3 RF Exposure Limits for Frequencies Below 6 GHz

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

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

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

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6.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m^2 or mW/cm^2 .

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm^2 per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

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

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

Note: 1.0 mW/cm^2 is 10 W/m^2

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7 MEASUREMENT PROCEDURES

7.1 Measured and Reported SAR

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

7.2 SAR Testing with 802.11 Transmitters

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

7.3 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.

7.4 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.

7.5 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.

7.6 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.

7.7 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.

7.8 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.

7.9 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.

7.10 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 7.4). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

7.11 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.

7.12 MIMO SAR Considerations

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

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8 RF CONDUCTED POWER

8.1 WLAN Conducted Powers

Table 8-1
2.4 GHz WLAN Maximum Average RF Power Level 1

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.46
2437	6		16.32
2462	11		16.18
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.78
2437	6		16.32
2462	11		16.24
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.59
2437	6		16.33
2462	11		13.88
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.59
2437	6		16.21
2462	11		13.86
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.99
2437	6		16.59
2462	11		13.85

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Table 8-2
2.4 GHz WLAN Reduced Average RF Power for conditions, Power Level 2

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.33
2437	6		10.61
2462	11		10.85
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.00
2437	6		10.49
2462	11		10.82
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.00
2437	6		10.49
2462	11		10.82
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.16
2437	6		10.57
2462	11		10.84
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	11.52
2437	6		10.97
2462	11		11.40

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Table 8-3
5 GHz WLAN Maximum Average RF Power Level 1

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	12.19
UNII-2A	5290	58	12.17
UNII-2C	5530	106	12.38
	5610	122	12.23
	5690	138	12.37
UNII-3	5775	155	12.00
UNII-4	5855	171	12.44
5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	12.38
UNII-2A	5290	58	12.35
UNII-2C	5530	106	12.20
	5610	122	12.15
	5690	138	12.44
UNII-3	5775	155	12.53
UNII-4	5855	171	12.39

Table 8-4
5 GHz WLAN Reduced Average RF Power for conditions, Power Level 2

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.24
UNII-2A	5290	58	8.36
UNII-2C	5530	106	8.33
	5610	122	7.87
	5690	138	8.02
UNII-3	5775	155	8.36
UNII-4	5855	171	8.41
5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	8.06
UNII-2A	5290	58	7.97
UNII-2C	5530	106	8.69
	5610	122	8.43
	5690	138	8.50
UNII-3	5775	155	8.74
UNII-4	5855	171	8.78

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Table 8-5
6 GHz WLAN Maximum Average RF Power Level 1

6GHz WIFI (160MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.55
	6345	79	11.65
UNII-6	6505	111	11.66
UNII-7	6665	143	11.25
UNII-8	6985	207	11.40

Table 8-6
6 GHz WLAN Reduced Average RF Power for conditions, Power Level 2

6GHz WIFI (160MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	6.36
	6345	79	5.87
UNII-6	6505	111	6.27
UNII-7	6665	143	5.25
UNII-8	6985	207	5.90

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

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- Per RSS-247 Section 6.2.3, transmission on channels which overlap the 5600-5650 MHz is prohibited. This device operates under these frequencies only under the control of a certified master device and does not support active scanning on these channels. This device does not transmit any beacons or initiate any transmissions in 5.3 and 5.5 GHz Band

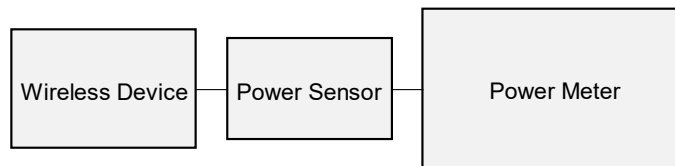


Figure 8-1
Power Measurement Setup

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8.2 Bluetooth Conducted Powers

Table 8-7
Bluetooth Measured Maximum Average RF Power Level 1, Power Level 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	11.48	14.060
2441	1.0	39	11.77	15.031
2480	1.0	78	11.10	12.882
2402	2.0	0	7.90	6.166
2441	2.0	39	8.33	6.808
2480	2.0	78	7.57	5.715
2402	3.0	0	7.86	6.109
2441	3.0	39	8.31	6.776
2480	3.0	78	7.56	5.702

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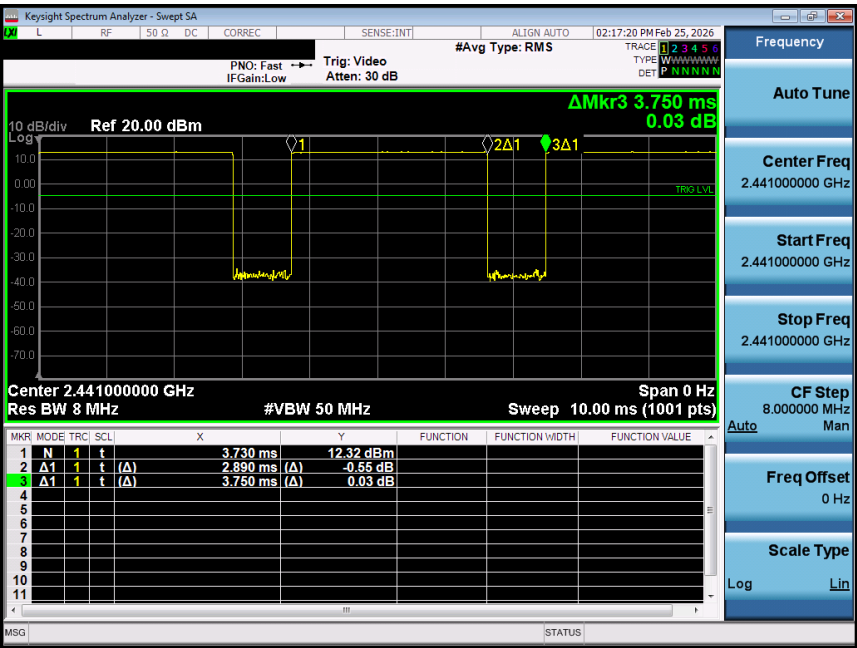


Figure 8-2
Bluetooth Transmission Plot

Equation 8-1
Bluetooth Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.89 \text{ ms}}{3.75 \text{ ms}} * 100\% = 77.07\%$$

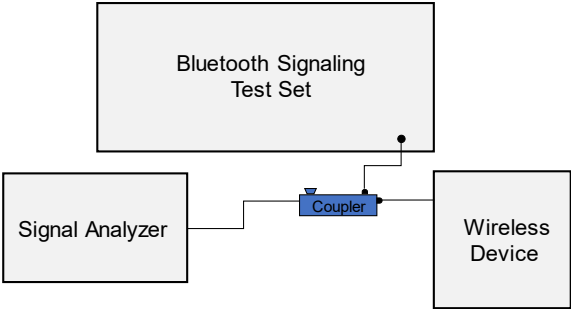


Figure 8-3
Power Measurement Setup

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9 SYSTEM VERIFICATION

9.1 Tissue Verification

Table 9-1
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
02/26/2026	2450 Head	19.6	2300	1.720	38.621	1.670	39.500	2.99%	-2.23%
			2310	1.726	38.609	1.679	39.480	2.92%	-2.21%
			2320	1.735	38.597	1.687	39.460	2.85%	-2.19%
			2400	1.794	38.467	1.756	39.289	2.16%	-2.05%
			2450	1.834	38.389	1.800	39.200	1.69%	-2.07%
			2480	1.855	38.339	1.833	39.162	1.25%	-2.10%
			2500	1.872	38.311	1.855	39.136	0.92%	-2.11%
			2510	1.881	38.295	1.866	39.123	0.80%	-2.12%
			2535	1.903	38.259	1.893	39.092	0.53%	-2.13%
			2550	1.916	38.233	1.909	39.073	0.37%	-2.15%
			2560	1.925	38.212	1.920	39.060	0.26%	-2.17%
			2600	1.958	38.140	1.964	39.009	-0.31%	-2.23%
			2650	1.999	38.047	2.018	38.945	-0.94%	-2.31%
			2680	2.026	37.987	2.051	38.907	-1.22%	-2.36%
			2700	2.042	37.960	2.073	38.882	-1.50%	-2.37%
03/03/2026	2450 Head	19.7	2300	1.735	39.835	1.670	39.500	3.89%	0.85%
			2310	1.744	39.820	1.679	39.480	3.87%	0.86%
			2320	1.751	39.805	1.687	39.460	3.79%	0.87%
			2400	1.814	39.675	1.756	39.289	3.30%	0.98%
			2450	1.853	39.589	1.800	39.200	2.94%	0.99%
			2480	1.875	39.541	1.833	39.162	2.45%	0.97%
			2500	1.894	39.508	1.855	39.136	2.10%	0.95%
			2510	1.903	39.491	1.866	39.123	1.98%	0.94%
			2535	1.924	39.448	1.893	39.092	1.64%	0.91%
			2550	1.937	39.428	1.909	39.073	1.47%	0.91%
			2560	1.946	39.415	1.920	39.060	1.35%	0.91%
			2600	1.982	39.344	1.964	39.009	0.92%	0.88%
			2650	2.027	39.247	2.018	38.945	-0.45%	0.78%
			2680	2.054	39.184	2.051	38.907	-0.15%	0.71%
			2700	2.071	39.140	2.073	38.882	-0.10%	0.66%
03/06/2026	2450 Head	20.0	2300	1.703	40.139	1.670	39.500	1.98%	1.62%
			2310	1.711	40.131	1.679	39.480	1.91%	1.65%
			2320	1.716	40.120	1.687	39.460	1.84%	1.67%
			2400	1.780	40.031	1.756	39.289	1.37%	1.89%
			2450	1.820	39.943	1.800	39.200	1.11%	1.90%
			2480	1.845	39.912	1.833	39.162	0.65%	1.92%
			2500	1.861	39.877	1.855	39.136	0.32%	1.89%
			2510	1.869	39.857	1.866	39.123	0.16%	1.88%
			2535	1.892	39.813	1.893	39.092	-0.05%	1.84%
			2550	1.905	39.798	1.909	39.073	-0.21%	1.86%
			2560	1.913	39.788	1.920	39.060	-0.36%	1.86%
			2600	1.947	39.707	1.964	39.009	-0.67%	1.79%
			2650	1.993	39.635	2.018	38.945	-1.24%	1.77%
			2680	2.018	39.584	2.051	38.907	-1.61%	1.69%
			2700	2.036	39.521	2.073	38.882	-1.78%	1.64%
06/18/2026	2450 Head	22.3	2300	1.700	39.805	1.670	39.500	1.80%	0.27%
			2310	1.707	39.593	1.679	39.480	1.67%	0.29%
			2320	1.715	39.581	1.687	39.460	1.66%	0.31%
			2400	1.777	39.478	1.756	39.289	1.20%	0.48%
			2450	1.817	39.400	1.800	39.200	0.94%	0.51%
			2480	1.841	39.346	1.833	39.162	0.44%	0.47%
			2500	1.857	39.309	1.855	39.136	0.11%	0.44%
			2510	1.865	39.291	1.866	39.123	-0.05%	0.43%
			2535	1.886	39.249	1.893	39.092	-0.37%	0.40%
			2550	1.898	39.221	1.909	39.073	-0.58%	0.38%
			2560	1.906	39.202	1.920	39.060	-0.73%	0.36%
			2600	1.939	39.127	1.964	39.009	-1.27%	0.30%
			2650	1.979	39.031	2.018	38.945	-1.93%	0.22%
			2680	2.003	38.970	2.051	38.907	-2.34%	0.16%
			2700	2.019	38.933	2.073	38.882	-2.60%	0.13%
06/22/2026	2450 Head	20.7	2300	1.677	39.735	1.670	39.500	0.42%	0.59%
			2310	1.685	39.719	1.679	39.480	0.36%	0.61%
			2320	1.692	39.702	1.687	39.460	0.30%	0.61%
			2400	1.755	39.557	1.756	39.289	-0.06%	0.68%
			2450	1.794	39.453	1.800	39.200	-0.33%	0.65%
			2480	1.816	39.397	1.833	39.162	-0.93%	0.60%
			2500	1.830	39.357	1.855	39.136	-1.35%	0.56%
			2510	1.839	39.337	1.866	39.123	-1.50%	0.55%
			2535	1.857	39.290	1.893	39.092	-1.90%	0.51%
			2550	1.869	39.264	1.909	39.073	-2.10%	0.49%
			2560	1.877	39.248	1.920	39.060	-2.24%	0.48%
			2600	1.905	39.174	1.964	39.009	-2.95%	0.42%
			2650	1.945	39.089	2.018	38.945	-3.62%	0.37%
			2680	1.967	39.036	2.051	38.907	-4.10%	0.33%
			2700	1.983	39.001	2.073	38.882	-4.34%	0.31%
06/24/2026	2450 Head	21.1	2300	1.707	39.491	1.670	39.500	2.22%	-0.02%
			2310	1.714	39.480	1.679	39.480	2.08%	0.00%
			2320	1.721	39.468	1.687	39.460	2.02%	0.02%
			2400	1.782	39.389	1.756	39.289	1.48%	0.23%
			2450	1.821	39.315	1.800	39.200	1.17%	0.29%
			2480	1.845	39.273	1.833	39.162	0.65%	0.28%
			2500	1.861	39.242	1.855	39.136	0.32%	0.27%
			2510	1.870	39.227	1.866	39.123	0.21%	0.27%
			2535	1.891	39.182	1.893	39.092	-0.11%	0.26%
			2550	1.904	39.170	1.909	39.073	-0.26%	0.25%
			2560	1.913	39.154	1.920	39.060	-0.36%	0.24%
			2600	1.947	39.085	1.964	39.009	-0.87%	0.19%
			2650	1.991	38.995	2.018	38.945	-1.34%	0.13%
			2680	2.017	38.933	2.051	38.907	-1.66%	0.07%
			2700	2.035	38.894	2.073	38.882	-1.83%	0.03%

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Table 9-2
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
02/23/2026	5200-5800 Head	19.9	5150	4.545	35.088	4.608	36.050	-1.37%	-2.67%
			5160	4.554	35.067	4.618	36.040	-1.39%	-2.70%
			5170	4.559	35.043	4.629	36.030	-1.51%	-2.74%
			5180	4.566	35.016	4.635	36.009	-1.49%	-2.78%
			5190	4.577	34.989	4.645	35.998	-1.46%	-2.80%
			5200	4.593	34.976	4.655	35.986	-1.33%	-2.81%
			5210	4.607	34.965	4.666	35.975	-1.26%	-2.81%
			5220	4.618	34.944	4.676	35.963	-1.24%	-2.83%
			5240	4.648	34.922	4.696	35.940	-1.06%	-2.89%
			5250	4.657	34.893	4.709	35.929	-1.04%	-2.91%
			5260	4.667	34.867	4.717	35.917	-1.06%	-2.92%
			5270	4.679	34.862	4.727	35.906	-1.02%	-2.91%
			5280	4.687	34.843	4.737	35.894	-1.06%	-2.93%
			5290	4.694	34.814	4.748	35.883	-1.14%	-2.98%
			5300	4.705	34.785	4.758	35.871	-1.11%	-3.03%
			5310	4.717	34.751	4.768	35.860	-1.07%	-3.09%
			5320	4.731	34.732	4.778	35.849	-0.98%	-3.12%
			5500	4.929	34.402	4.963	35.643	-0.69%	-3.48%
			5510	4.939	34.378	4.973	35.632	-0.68%	-3.52%
			5520	4.950	34.352	4.983	35.620	-0.66%	-3.56%
			5530	4.959	34.331	4.994	35.609	-0.56%	-3.59%
			5540	4.960	34.323	5.004	35.597	-0.48%	-3.58%
			5550	4.993	34.294	5.014	35.586	-0.42%	-3.63%
			5560	5.002	34.268	5.024	35.574	-0.44%	-3.67%
			5580	5.025	34.244	5.045	35.551	-0.40%	-3.68%
			5600	5.051	34.217	5.065	35.529	-0.28%	-3.66%
			5610	5.063	34.185	5.076	35.518	-0.26%	-3.75%
			5620	5.074	34.164	5.088	35.506	-0.24%	-3.78%
			5640	5.099	34.118	5.106	35.483	-0.14%	-3.85%
			5660	5.124	34.078	5.127	35.460	-0.06%	-3.90%
			5670	5.137	34.061	5.137	35.448	0.00%	-3.92%
			5680	5.145	34.047	5.147	35.437	0.02%	-3.92%
			5690	5.158	34.035	5.158	35.428	0.00%	-3.93%
			5700	5.166	34.009	5.168	35.414	-0.04%	-3.97%
			5710	5.175	33.981	5.178	35.403	-0.06%	-4.02%
			5720	5.185	33.963	5.188	35.391	-0.06%	-4.03%
			5745	5.217	33.916	5.214	35.363	0.06%	-4.09%
			5750	5.225	33.900	5.219	35.357	0.11%	-4.12%
			5755	5.232	33.884	5.224	35.351	0.15%	-4.15%
			5765	5.245	33.861	5.234	35.340	0.21%	-4.19%
			5775	5.256	33.847	5.245	35.329	0.21%	-4.19%
			5785	5.265	33.834	5.255	35.317	0.21%	-4.20%
			5795	5.277	33.820	5.265	35.305	0.23%	-4.21%
			5805	5.285	33.819	5.275	35.294	0.19%	-4.18%
			5825	5.308	33.778	5.296	35.271	0.23%	-4.23%
			5835	5.318	33.750	5.305	35.230	0.25%	-4.20%
			5845	5.329	33.718	5.315	35.210	0.26%	-4.24%
			5850	5.335	33.707	5.320	35.200	0.28%	-4.24%
			5855	5.340	33.695	5.325	35.197	0.28%	-4.27%
			5875	5.363	33.684	5.347	35.183	0.30%	-4.26%
			5885	5.374	33.669	5.357	35.177	0.32%	-4.29%
			5905	5.402	33.608	5.379	35.163	0.43%	-4.43%
03/03/2026	5200-5800 Head	19.7	5150	4.713	36.086	4.608	36.050	2.26%	0.13%
			5160	4.723	36.062	4.618	36.040	2.27%	0.06%
			5170	4.735	36.033	4.629	36.030	2.29%	0.01%
			5180	4.748	35.994	4.635	36.009	2.44%	-0.04%
			5190	4.760	35.958	4.645	35.998	2.48%	-0.11%
			5200	4.770	35.929	4.655	35.986	2.47%	-0.16%
			5210	4.780	35.898	4.666	35.975	2.44%	-0.21%
			5220	4.789	35.869	4.676	35.963	2.40%	-0.26%
			5240	4.807	35.792	4.696	35.940	2.36%	-0.41%
			5250	4.816	35.756	4.706	35.929	2.34%	-0.48%
			5260	4.828	35.713	4.717	35.917	2.35%	-0.57%
			5270	4.840	35.683	4.727	35.906	2.39%	-0.62%
			5280	4.853	35.650	4.737	35.894	2.45%	-0.68%
			5290	4.862	35.623	4.748	35.883	2.40%	-0.72%
			5300	4.867	35.590	4.758	35.871	2.29%	-0.78%
			5310	4.874	35.552	4.768	35.860	2.22%	-0.86%
			5320	4.884	35.517	4.778	35.849	2.22%	-0.93%
			5500	5.062	34.825	4.963	35.643	1.99%	-2.91%
			5510	5.075	34.888	4.973	35.632	2.05%	-2.09%
			5520	5.091	34.861	4.983	35.620	2.17%	-2.13%
			5530	5.107	34.840	4.994	35.609	2.26%	-2.16%
			5540	5.117	34.828	5.004	35.597	2.26%	-2.16%
			5550	5.125	34.806	5.014	35.586	2.21%	-2.19%
			5560	5.135	34.778	5.024	35.574	2.21%	-2.24%
			5580	5.158	34.716	5.045	35.551	2.24%	-2.35%
			5600	5.186	34.653	5.065	35.529	2.39%	-2.47%
			5610	5.201	34.632	5.076	35.518	2.46%	-2.49%
			5620	5.215	34.618	5.088	35.506	2.54%	-2.50%
			5640	5.238	34.584	5.106	35.483	2.59%	-2.53%
			5660	5.255	34.534	5.127	35.460	2.52%	-2.61%
			5670	5.268	34.496	5.137	35.448	2.55%	-2.69%
			5680	5.282	34.466	5.147	35.437	2.62%	-2.74%
			5690	5.295	34.445	5.158	35.428	2.71%	-2.77%
			5700	5.314	34.424	5.168	35.414	2.83%	-2.77%
			5710	5.324	34.403	5.178	35.403	2.82%	-2.77%
			5720	5.333	34.405	5.188	35.391	2.79%	-2.79%
			5745	5.360	34.336	5.214	35.363	2.80%	-2.90%
			5750	5.365	34.319	5.219	35.357	2.80%	-2.94%
			5755	5.370	34.302	5.224	35.351	2.79%	-2.97%
			5765	5.384	34.271	5.234	35.340	2.87%	-3.02%
			5775	5.399	34.249	5.245	35.329	2.94%	-3.06%
			5785	5.413	34.242	5.255	35.317	3.01%	-3.04%
			5795	5.423	34.234	5.265	35.305	3.00%	-3.03%
			5800	5.428	34.227	5.270	35.300	3.00%	-3.04%
			5805	5.428	34.227	5.270	35.300	3.00%	-3.04%
			5805	5.434	34.218	5.275	35.294	3.01%	-3.05%
			5825	5.456	34.160	5.296	35.271	3.02%	-3.15%
			5835	5.465	34.130	5.305	35.230	3.02%	-3.12%
			5845	5.475	34.103	5.315	35.210	3.01%	-3.14%
			5850	5.481	34.088	5.320	35.200	3.03%	-3.18%
			5855	5.490	34.074	5.325	35.197	3.10%	-3.19%
			5865	5.505	34.044	5.336	35.190	3.17%	-3.26%
			5885	5.505	34.044	5.336	35.190	3.17%	-3.26%
			5885	5.505	34.044	5.336	35.190	3.17%	-3.26%
			5885	5.505	34.044	5.336	35.190	3.17%	-3.26%
			5875	5.516	34.024	5.347	35.183	3.20%	-3.26%
			5885	5.520	34.015	5.357	35.177	3.21%	-3.30%
			5905	5.544	33.985	5.379	35.163	3.07%	-3.35%

Table 9-3
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
03/09/2026	5200-5800 Head	19.4	5150	4.631	35.041	4.608	35.050	0.50%	-0.02%
			5160	4.641	35.028	4.618	35.040	0.50%	-0.03%
			5170	4.655	35.008	4.629	35.030	0.56%	-0.05%
			5180	4.669	35.983	4.635	35.009	0.71%	-0.07%
			5190	4.682	35.959	4.645	35.998	0.80%	-0.11%
			5200	4.694	35.935	4.655	35.986	0.84%	-0.14%
			5210	4.705	35.924	4.666	35.975	0.84%	-0.14%
			5220	4.715	35.910	4.676	35.963	0.85%	-0.15%
			5240	4.735	35.872	4.696	35.940	0.85%	-0.19%
			5250	4.747	35.855	4.706	35.929	0.87%	-0.21%
			5260	4.761	35.832	4.717	35.917	0.93%	-0.24%
			5270	4.777	35.804	4.727	35.906	1.06%	-0.28%
			5280	4.793	35.782	4.737	35.894	1.12%	-0.31%
			5290	4.800	35.774	4.748	35.883	1.10%	-0.30%
			5300	4.806	35.755	4.758	35.871	1.01%	-0.32%
			5310	4.816	35.730	4.768	35.860	1.01%	-0.36%
			5320	4.826	35.712	4.778	35.849	1.05%	-0.38%
			5500	5.037	35.389	4.953	35.643	1.49%	-0.71%
			5510	5.048	35.362	4.973	35.632	1.51%	-0.76%
			5520	5.063	35.338	4.983	35.620	1.61%	-0.79%
			5530	5.078	35.324	4.994	35.609	1.69%	-0.80%
			5540	5.093	35.310	5.004	35.597	1.72%	-0.81%
			5550	5.100	35.287	5.014	35.586	1.72%	-0.84%
			5560	5.112	35.264	5.024	35.574	1.75%	-0.87%
			5580	5.137	35.228	5.045	35.551	1.82%	-0.91%
			5600	5.162	35.188	5.065	35.529	1.92%	-0.97%
			5610	5.179	35.173	5.079	35.518	2.03%	-0.97%
			5620	5.191	35.164	5.086	35.506	2.06%	-0.96%
			5640	5.213	35.124	5.108	35.483	2.10%	-1.01%
			5650	5.235	35.083	5.127	35.460	2.11%	-1.06%
			5670	5.247	35.061	5.137	35.449	2.14%	-1.09%
			5680	5.260	35.039	5.147	35.437	2.20%	-1.12%
			5690	5.274	35.023	5.158	35.426	2.25%	-1.14%
			5700	5.288	35.012	5.168	35.414	2.32%	-1.14%
			5710	5.301	34.995	5.178	35.403	2.38%	-1.15%
			5720	5.313	34.974	5.188	35.391	2.41%	-1.18%
			5745	5.339	34.934	5.214	35.363	2.40%	-1.21%
			5750	5.346	34.920	5.219	35.357	2.43%	-1.24%
			5755	5.352	34.906	5.224	35.351	2.46%	-1.26%
			5760	5.360	34.884	5.234	35.340	2.52%	-1.29%
			5775	5.360	34.865	5.245	35.329	2.57%	-1.31%
			5785	5.391	34.855	5.255	35.317	2.59%	-1.31%
			5795	5.402	34.838	5.265	35.305	2.60%	-1.33%
			5800	5.407	34.825	5.270	35.300	2.60%	-1.35%
			5800	5.407	34.825	5.270	35.300	2.60%	-1.35%
			5805	5.412	34.815	5.275	35.294	2.60%	-1.36%
			5825	5.436	34.773	5.296	35.271	2.64%	-1.41%
			5835	5.446	34.759	5.305	35.250	2.66%	-1.34%
			5845	5.465	34.740	5.315	35.210	2.72%	-1.35%
			5850	5.465	34.728	5.320	35.200	2.74%	-1.35%
			5855	5.473	34.716	5.325	35.197	2.78%	-1.37%
			5865	5.485	34.698	5.336	35.190	2.79%	-1.40%
			5865	5.485	34.698	5.336	35.190	2.79%	-1.40%
			5865	5.485	34.698	5.336	35.190	2.79%	-1.40%
			5865	5.485	34.698	5.336	35.190	2.79%	-1.40%
			5875	5.497	34.687	5.347	35.183	2.81%	-1.41%
			5885	5.500	34.677	5.357	35.177	2.78%	-1.42%
			5905	5.526	34.644	5.379	35.163	2.72%	-1.45%
			5150	4.433	35.183	4.608	35.050	-3.80%	-2.46%
			5160	4.446	35.145	4.618	35.040	-3.72%	-2.48%
			5170	4.458	35.128	4.629	35.030	-3.69%	-2.50%
			5180	4.470	35.111	4.635	35.009	-3.58%	-2.49%
			5190	4.483	35.088	4.645	35.986	-3.49%	-2.53%
			5200	4.487	35.060	4.655	35.986	-3.39%	-2.57%
			5210	4.510	35.044	4.666	35.975	-3.34%	-2.59%
			5220	4.521	35.032	4.676	35.963	-3.31%	-2.59%
			5240	4.535	34.992	4.696	35.940	-3.43%	-2.64%
			5250	4.547	34.978	4.706	35.929	-3.38%	-2.65%
			5260	4.559	34.970	4.717	35.917	-3.35%	-2.64%
			5270	4.570	34.951	4.727	35.906	-3.32%	-2.66%
			5280	4.583	34.925	4.737	35.894	-3.29%	-2.70%
			5290	4.598	34.898	4.748	35.883	-3.16%	-2.75%
			5300	4.611	34.878	4.758	35.871	-3.09%	-2.77%
			5310	4.620	34.858	4.768	35.860	-3.10%	-2.79%
			5320	4.630	34.840	4.778	35.849	-3.10%	-2.81%
			5500	4.832	34.529	4.953	35.643	-2.64%	-3.15%
			5510	4.843	34.507	4.973	35.632	-2.61%	-3.16%
			5520	4.853	34.482	4.983	35.620	-2.61%	-3.19%
			5530	4.865	34.467	4.994	35.609	-2.58%	-3.21%
			5540	4.874	34.452	5.004	35.597	-2.60%	-3.19%
			5550	4.885	34.448	5.014	35.586	-2.57%	-3.20%
			5560	4.897	34.422	5.024	35.574	-2.53%	-3.24%
			5580	4.925	34.381	5.045	35.551	-2.38%	-3.29%
			5600	4.945	34.350	5.065	35.529	-2.37%	-3.32%
			5610	4.957	34.327	5.076	35.518	-2.34%	-3.35%
			5620	4.959	34.307	5.086	35.506	-2.30%	-3.36%
			5640	4.993	34.280	5.108	35.483	-2.21%	-3.39%
			5660	5.017	34.239	5.127	35.460	-2.15%	-3.44%
			5670	5.030	34.218	5.137	35.449	-2.08%	-3.47%
			5680	5.043	34.204	5.147	35.437	-2.02%	-3.48%
			5690	5.053	34.192	5.158	35.426	-2.04%	-3.49%
			5700	5.064	34.172	5.168	35.414	-2.01%	-3.51%
			5710	5.075	34.152	5.178	35.403	-1.99%	-3.53%
			5720	5.088	34.135	5.188	35.391	-1.93%	-3.55%
			5745	5.110	34.090	5.214	35.363	-1.88%	-3.60%
			5750	5.122	34.076	5.219	35.357	-1.86%	-3.62%
			5755	5.129	34.066	5.224	35.351	-1.82%	-3.63%
			5765	5.141	34.050	5.234	35.340	-1.78%	-3.66%
			5775	5.153	34.034	5.245	35.329	-1.75%	-3.67%
			5785	5.164	34.017	5.255	35.317	-1.73%	-3.68%
			5795	5.173	34.001	5.265	35.305	-1.75%	-3.69%
			5800	5.177	33.993	5.270	35.300	-1.76%	-3.70%
			5800	5.177	33.993	5.270	35.300	-1.76%	-3.70%
			5805	5.182	33.986	5.275	35.294	-1.76%	-3.71%
			5825	5.205	33.953	5.296	35.271	-1.72%	-3.74%
			5835	5.220	33.933	5.305	35.250	-1.60%	-3.68%
			5845	5.232	33.916	5.315	35.210	-1.56%	-3.68%
			5850	5.237	33.904	5.320	35.200	-1.56%	-3.68%
			5855	5.244	33.883	5.325	35.187	-1.52%	-3.70%
			5865	5.255	33.873	5.336	35.190	-1.52%	-3.74%
			5865	5.255	33.873	5.336	35.190	-1.52%	-3.74%
			5865	5.255	33.873	5.336	35.190	-1.52%	-3.74%
			5865	5.255	33.873	5.336	35.190	-1.52%	-3.74%
			5875	5.266	33.854	5.347	35.183	-1.51%	-3.76%
			5885	5.278	33.842	5.357	35.177	-1.47%	-3.80%
			5905	5.299	33.824	5.379	35.163	-1.49%	-3.81%
			5900	5.177	33.993	5.270	35.300	-1.76%	-3.70%
			5900	5.177	33.993	5.270	35.300	-1.76%	-3.70%

Table 9-4
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
03/02/2026	6000 Head	19.1	5935	5.397	34.952	5.411	35.143	-0.26%	-0.54%
			5970	5.383	34.950	5.448	35.120	-1.19%	-0.48%
			5985	5.406	34.803	5.464	35.110	-1.06%	-0.62%
			6000	5.372	34.764	5.480	35.100	-1.97%	-0.66%
			6025	5.374	34.710	5.510	35.070	-2.47%	-1.03%
			6065	5.431	34.629	5.557	35.022	-2.27%	-1.12%
			6075	5.438	34.575	5.569	35.010	-2.36%	-1.24%
			6085	5.448	34.544	5.580	34.998	-2.37%	-1.30%
			6185	5.598	34.431	5.698	34.878	-1.76%	-1.28%
			6275	5.746	34.241	5.805	34.770	-1.02%	-1.52%
			6285	5.742	34.257	5.816	34.758	-1.27%	-1.44%
			6305	5.751	34.218	5.840	34.734	-1.52%	-1.31%
			6345	5.785	34.115	5.887	34.686	-1.73%	-1.65%
			6475	5.935	33.839	6.041	34.530	-1.75%	-2.00%
			6485	5.953	33.850	6.052	34.518	-1.47%	-1.94%
			6500	5.985	33.888	6.070	34.500	-1.24%	-1.77%
			6505	5.993	33.899	6.076	34.494	-1.37%	-1.72%
			6545	6.002	33.873	6.122	34.446	-1.96%	-1.66%
			6665	6.096	33.583	6.285	34.302	-2.70%	-2.10%
			6675	6.114	33.559	6.273	34.290	-2.53%	-2.13%
			6685	6.136	33.517	6.285	34.278	-2.37%	-2.22%
			6715	6.172	33.517	6.319	34.242	-2.33%	-2.12%
			6785	6.236	33.340	6.400	34.158	-2.56%	-2.39%
			6825	6.318	33.344	6.447	34.110	-2.00%	-2.23%
			6885	6.428	33.139	6.633	33.918	-3.09%	-2.30%
			6995	6.411	33.126	6.644	33.906	-3.51%	-2.29%
			7000	6.413	33.112	6.650	33.900	-3.56%	-2.32%
			7005	6.422	33.086	6.656	33.894	-3.52%	-2.38%
			7025	6.484	32.896	6.680	33.870	-2.78%	-2.68%
			5935	5.386	36.005	5.411	35.143	-0.46%	2.54%
			5970	5.346	36.067	5.448	35.120	-1.87%	2.70%
			5985	5.357	35.905	5.464	35.110	-1.96%	2.26%
			6000	5.305	35.822	5.480	35.100	-3.19%	2.08%
			6025	5.363	35.731	5.510	35.070	-3.76%	1.88%
			6065	5.386	35.655	5.557	35.022	-3.08%	1.81%
			6075	5.392	35.600	5.569	35.010	-3.18%	1.69%
			6085	5.399	35.586	5.580	34.998	-3.24%	1.62%
			6185	5.953	35.428	5.698	34.878	-2.54%	1.58%
			6275	5.688	35.227	5.805	34.770	-2.02%	1.31%
			6285	5.685	35.227	5.816	34.758	-2.29%	1.35%
			6305	5.699	35.234	5.840	34.734	-2.41%	1.44%
			6345	5.743	35.052	5.887	34.686	-2.46%	1.17%
			6475	5.988	34.801	6.041	34.530	-2.53%	0.78%
			6485	5.910	34.819	6.052	34.518	-2.35%	0.87%
03/02/2026	6000 Head	19.6	6500	5.933	34.827	6.070	34.500	-2.26%	1.02%
			6505	5.931	34.868	6.076	34.494	-2.39%	1.08%
			6545	5.928	34.753	6.122	34.446	-3.17%	1.07%
			6665	6.018	34.558	6.285	34.302	-3.94%	0.96%
			6675	6.040	34.465	6.273	34.290	-3.71%	0.51%
			6685	6.072	34.409	6.285	34.278	-3.39%	0.38%
			6715	6.129	34.427	6.319	34.242	-3.01%	0.84%
			6785	6.184	34.259	6.400	34.158	-3.94%	0.27%
			6825	6.264	34.224	6.447	34.110	-2.84%	0.33%
			6885	6.366	34.028	6.633	33.918	-4.03%	0.32%
			6995	6.340	34.022	6.644	33.906	-4.88%	0.34%
			7000	6.339	34.026	6.650	33.900	-4.88%	0.37%
			7005	6.345	33.977	6.656	33.894	-4.07%	0.24%
			7025	6.411	33.785	6.680	33.870	-4.03%	-0.25%
			5935	5.500	35.548	5.411	35.143	1.64%	4.00%
			5970	5.512	35.550	5.448	35.120	1.77%	4.19%
			5985	5.511	35.589	5.464	35.110	0.86%	4.19%
			6000	5.486	35.520	5.480	35.100	-0.26%	4.05%
			6025	5.486	35.388	5.510	35.070	-0.44%	3.70%
			6065	5.610	35.240	5.557	35.022	-0.46%	3.48%
			6075	5.619	35.219	5.569	35.010	-0.90%	3.45%
			6085	5.625	35.228	5.580	34.998	-0.61%	3.51%
			6185	5.761	35.083	5.698	34.878	1.11%	3.17%
			6275	5.861	35.920	5.805	34.770	0.96%	3.31%
			6285	5.868	35.867	5.816	34.758	0.89%	3.19%
			6305	5.912	35.801	5.840	34.734	1.23%	3.07%
			6345	6.007	35.696	5.887	34.686	2.04%	2.91%
			6475	6.172	35.379	6.041	34.530	2.17%	2.46%
			6485	6.167	35.443	6.052	34.518	2.23%	2.68%
			6500	6.185	35.533	6.070	34.500	2.66%	2.89%
			6505	6.180	35.558	6.076	34.494	1.88%	3.08%
			6545	6.185	35.393	6.122	34.446	1.03%	2.75%
			6665	6.307	35.173	6.285	34.302	0.67%	2.54%
			6675	6.331	35.103	6.273	34.290	0.82%	2.37%
			6685	6.361	35.001	6.285	34.278	1.21%	2.11%
			6715	6.428	34.838	6.319	34.242	1.72%	2.03%
			6785	6.478	34.926	6.400	34.158	1.22%	2.25%
			6825	6.567	34.742	6.447	34.110	1.86%	1.85%
			6885	6.738	34.528	6.633	33.918	1.58%	1.74%
			6995	6.727	34.515	6.644	33.906	1.25%	1.80%
			7000	6.729	34.519	6.650	33.900	1.19%	1.83%
			7005	6.736	34.517	6.656	33.894	1.20%	1.84%
			7025	6.783	34.458	6.680	33.870	1.54%	1.72%
			6000	5.267	35.638	5.480	35.100	-3.94%	1.25%
			6025	5.336	35.536	5.510	35.070	-3.16%	1.33%
			6065	5.376	35.454	5.557	35.022	-3.26%	1.22%
			6075	5.386	35.436	5.569	35.010	-3.29%	1.22%
			6085	5.388	35.417	5.580	34.998	-3.26%	1.20%
			6185	5.533	35.275	5.698	34.878	-2.90%	1.14%
			6275	5.650	35.117	5.805	34.770	-2.67%	1.00%
			6285	5.660	35.108	5.816	34.758	-2.68%	1.01%
			6305	5.671	35.104	5.840	34.734	-2.89%	1.07%
			6345	5.727	35.008	5.887	34.686	-2.72%	0.93%
			6475	5.889	34.794	6.041	34.530	-2.52%	0.76%
			6485	5.902	34.785	6.052	34.518	-2.48%	0.77%
06/29/2026	6000 Head	20.3	6500	5.920	34.793	6.070	34.500	-2.47%	0.88%
			6505	5.923	34.796	6.076	34.494	-2.52%	0.88%
			6545	5.994	34.734	6.122	34.446	-2.58%	0.84%
			6665	6.099	34.492	6.285	34.302	-2.65%	0.52%
			6675	6.105	34.445	6.273	34.290	-2.68%	0.45%
			6685	6.114	34.432	6.285	34.278	-2.72%	0.45%
			6715	6.157	34.412	6.319	34.242	-2.56%	0.50%
			6785	6.240	34.249	6.400	34.158	-2.50%	0.27%
			6825	6.300	34.222	6.447	34.110	-2.28%	0.33%
			6885	6.468	34.058	6.633	33.918	-2.49%	0.47%
			6995	6.474	34.044	6.644	33.906	-2.56%	0.47%
			7000	6.477	34.032	6.650	33.900	-2.60%	0.39%
			7005	6.482	34.016	6.656	33.894	-2.61%	0.36%
			7025	6.508	33.952	6.680	33.870	-2.67%	0.24%
			7500	7.080	33.075	7.240	33.300	-2.21%	-0.68%

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

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9.2 SAR Test System Verification

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

Table 9-5
System Verification Results - Head

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
L	2450	Head	02/26/2026	21.6	19.6	0.10	719	7659	1272	5.70	52.20	57.00	9.20%	2.67	24.60	26.70	8.54%	N/A	N/A	N/A	N/A
S1	2450	Head	03/03/2026	19.2	19.7	0.10	945	7637	1652	5.05	52.90	50.50	-4.54%	2.35	25.00	23.50	-6.00%	N/A	N/A	N/A	N/A
S1	2450	Head	03/06/2026	20.8	20.0	0.10	945	7637	1652	5.41	52.90	54.10	2.27%	2.52	25.00	25.20	0.80%	N/A	N/A	N/A	N/A
S1	2450	Head	06/18/2026	22.0	22.3	0.10	882	7546	1368	5.12	51.40	51.20	-0.39%	2.40	24.00	24.00	0.00%	N/A	N/A	N/A	N/A
S1	2450	Head	06/22/2026	21.0	20.7	0.10	882	7546	1368	5.20	51.40	52.00	1.17%	2.45	24.00	24.50	2.08%	N/A	N/A	N/A	N/A
S1	2450	Head	06/24/2026	21.4	21.1	0.10	882	7546	1368	5.12	51.40	51.20	-0.39%	2.42	24.00	24.20	0.83%	N/A	N/A	N/A	N/A
O	5250	Head	02/23/2026	20.2	19.9	0.05	1191	7718	1407	3.67	78.40	73.40	-6.38%	1.06	22.50	21.20	-5.78%	N/A	N/A	N/A	N/A
S1	5250	Head	03/03/2026	19.2	19.7	0.05	1237	7637	1652	3.92	79.50	78.40	-1.38%	1.14	22.60	22.80	0.88%	N/A	N/A	N/A	N/A
S1	5250	Head	03/09/2026	19.2	19.4	0.05	1237	7637	1652	4.04	79.50	80.80	1.64%	1.16	22.60	23.20	2.65%	N/A	N/A	N/A	N/A
S1	5250	Head	06/25/2026	22.2	21.1	0.05	1120	7546	1368	4.04	79.90	80.80	1.13%	1.16	22.90	23.20	1.31%	N/A	N/A	N/A	N/A
O	5600	Head	02/23/2026	20.2	19.9	0.05	1191	7718	1407	4.03	77.50	80.60	4.00%	1.15	22.30	23.00	3.14%	N/A	N/A	N/A	N/A
S1	5600	Head	03/03/2026	19.2	19.7	0.05	1237	7637	1652	4.19	82.20	83.80	1.95%	1.19	23.60	23.80	0.85%	N/A	N/A	N/A	N/A
S1	5600	Head	03/09/2026	19.2	19.4	0.05	1237	7637	1652	4.48	82.20	80.60	-9.00%	1.28	23.60	25.60	8.47%	N/A	N/A	N/A	N/A
S1	5600	Head	06/25/2026	22.2	21.1	0.05	1120	7546	1368	4.23	81.00	84.60	4.44%	1.20	23.30	24.00	3.00%	N/A	N/A	N/A	N/A
O	5750	Head	02/23/2026	20.2	19.9	0.05	1191	7718	1407	3.67	75.40	73.40	-2.65%	1.05	21.50	21.00	-2.33%	N/A	N/A	N/A	N/A
S1	5750	Head	03/03/2026	19.2	19.7	0.05	1237	7637	1652	4.23	79.00	84.60	7.09%	1.21	22.40	24.20	8.04%	N/A	N/A	N/A	N/A
S1	5750	Head	03/09/2026	19.2	19.4	0.05	1237	7637	1652	4.11	79.00	82.20	4.05%	1.17	22.40	23.40	4.46%	N/A	N/A	N/A	N/A
S1	5750	Head	06/25/2026	22.2	21.1	0.05	1120	7546	1368	4.15	78.10	83.00	6.27%	1.19	22.20	23.80	7.21%	N/A	N/A	N/A	N/A
O	5850	Head	02/23/2026	20.2	19.9	0.05	1191	7718	1407	3.61	76.80	72.20	-5.99%	1.02	21.90	20.40	-6.85%	N/A	N/A	N/A	N/A
S1	5850	Head	03/03/2026	19.2	19.7	0.05	1237	7637	1652	4.37	82.00	87.40	6.59%	1.24	23.40	24.80	5.98%	N/A	N/A	N/A	N/A
S1	5850	Head	03/09/2026	19.2	19.4	0.05	1237	7637	1652	4.07	82.00	81.40	-0.73%	1.16	23.40	23.20	-0.85%	N/A	N/A	N/A	N/A
S1	5850	Head	06/25/2026	22.2	21.1	0.05	1120	7546	1368	4.10	81.50	82.00	0.61%	1.16	23.30	23.20	-0.43%	N/A	N/A	N/A	N/A
M	6500	Head	03/02/2026	21.1	19.1	0.03	1018	7406	1677	6.92	298.00	276.80	-7.11%	1.27	55.70	50.80	-8.80%	30.60	1350.00	1224.00	-9.33%
R	6500	Head	03/02/2026	20.2	19.6	0.03	1018	7713	1639	7.40	298.00	296.00	-0.67%	1.32	55.70	52.80	-5.21%	32.10	1350.00	1284.00	-4.89%
R	6500	Head	03/09/2026	21.1	19.0	0.03	1111	7713	1639	7.67	288.00	306.80	6.53%	1.40	53.30	56.00	5.07%	33.90	1290.00	1356.00	5.12%
M	6500	Head	06/23/2026	20.4	20.3	0.03	1018	7406	1677	7.00	298.00	280.00	-6.04%	1.30	55.70	52.00	-6.64%	31.40	1350.00	1256.00	-6.96%

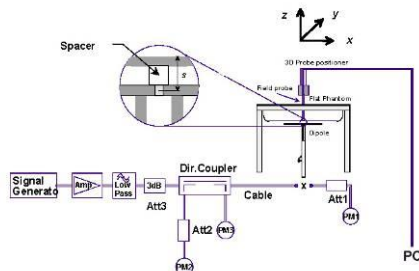


Figure 9-1
System Verification Setup Diagram



Figure 9-2
System Verification Setup Photo

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9.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

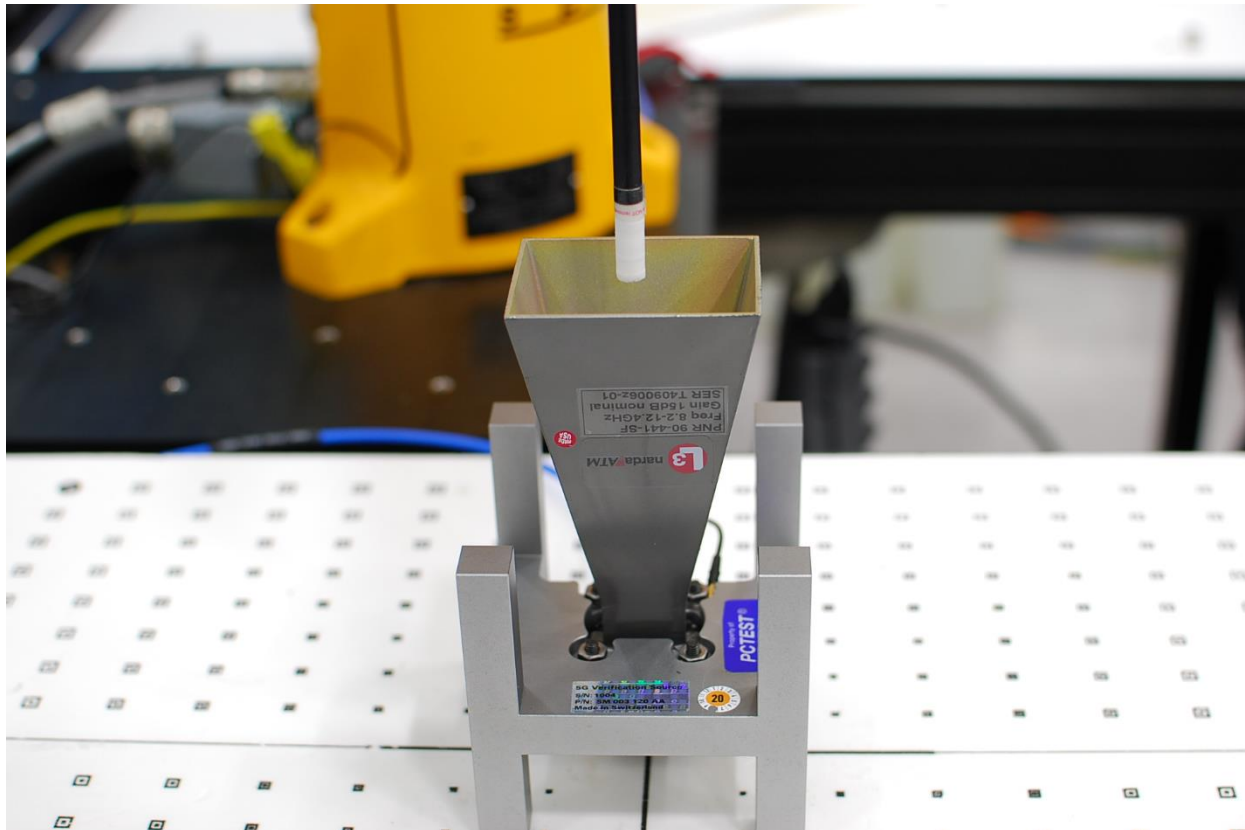


Figure 9-3
System Verification Setup Photo

Table 9-6
10 GHz Verifications

System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
Q	10	06/15/2026	1004	9389	93.3	49.10	54.60	-0.46	49.30	55.60	-0.52
Q	10	06/22/2026	1004	9389	93.3	55.90	54.60	0.10	56.10	55.60	0.04
Q	10	06/29/2026	1004	9389	93.3	50.00	54.60	-0.38	50.20	55.60	-0.44

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

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10 SAR DATA SUMMARY

10.1 2.4 GHz WLAN Standalone SAR

Table 10-1 | Plot A1

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	260218MD24	99.90	0.08	2412.00	1	1.0	17.0	16.46	Face-Worn	0	0.360	1.132	1.001	0.408	0.255	
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	260218MD24	99.90	0.05	2412.00	1	1.0	17.0	16.46	Forehead-Worn	0	0.453	1.132	1.001	0.513	0.321	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 10-2 | Plot A2, A3, A4, A5, A6, A7

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	N/A	260213EK02	99.90	0.00	2412.00	1	1.0	12.0	11.33	Back	5	0.462	1.167	1.001	0.540	0.338	Pilot
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	SM-O20J1	260226EK04	99.90	0.04	2412.00	1	1.0	12.0	11.33	Back	5	0.411	1.167	1.001	0.480	0.300	Pilot
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	SM-O20J2	260605EK03	99.90	0.01	2412.00	1	1.0	12.0	11.33	Back	5	0.558	1.167	1.001	0.652	0.408	Pilot
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	SM-O20J1	260226EK02	99.90	-0.05	2412.00	1	1.0	12.0	11.33	Back	5	0.510	1.167	1.001	0.596	0.373	Pilot
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	SM-O20J4	260622EK03	99.90	-0.03	2412.00	1	1.0	12.0	11.33	Back	5	0.509	1.167	1.001	0.595	0.372	Pilot
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	SM-O20J5	260226EK03	99.90	0.02	2412.00	1	1.0	12.0	11.33	Back	5	0.603	1.167	1.001	0.704	0.440	Pilot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram					

Table 10-3 | Plot A8

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	1	Charging Case	260213EK02	99.90	0.08	2412.00	1	1.0	12.0	11.33	Back	5	0.027	1.167	1.001	0.032	0.020	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

10.2 5 GHz WLAN Standalone SAR

Table 10-4 | Plot A9

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.04	5290.00	58	U-NII-2A	29.3	13.0	12.17	Face-Worn	0	0.207	1.211	1.002	0.251	0.157	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.01	5290.00	58	U-NII-2A	29.3	13.0	12.17	Forehead-Worn	0	0.147	1.211	1.002	0.178	0.111	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.03	5330.00	106	U-NII-2C	29.3	13.0	12.38	Face-Worn	0	0.309	1.153	1.002	0.357	0.223	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	-0.13	5330.00	106	U-NII-2C	29.3	13.0	12.38	Forehead-Worn	0	0.143	1.153	1.002	0.165	0.103	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.05	5775.00	155	U-NII-3	29.3	13.0	12.00	Face-Worn	0	0.468	1.259	1.002	0.590	0.369	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.11	5775.00	155	U-NII-3	29.3	13.0	12.00	Forehead-Worn	0	0.336	1.259	1.002	0.411	0.257	
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.01	5855.00	171	U-NII-4	29.3	13.0	12.44	Face-Worn	0	0.519	1.138	1.002	0.592	0.370	Plot
Head	5 GHz WiFi/ IEEE 802.11ac	80	OFDM	1	260218MD24	99.78	0.02	5855.00	171	U-NII-4	29.3	13.0	12.44	Forehead-Worn	0	0.326	1.138	1.002	0.372	0.233	
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 10-5 | Plot A10, A11, A12, A13, A14, A15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	260213EK02	99.78	0.05	5290.00	58	U-NII-2A	29.3	9.0	8.36	Back	5	0.608	1.159	1.002	0.706	0.441	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	260213EK02	99.78	0.14	5530.00	106	U-NII-2C	29.3	9.0	8.33	Back	5	0.606	1.167	1.002	0.709	0.443	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	260213EK02	99.78	-0.05	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.615	1.159	1.002	0.714	0.446	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	SMA-O20J1	260226EK04	99.78	0.08	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.507	1.159	1.002	0.589	0.368	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	SMA-O20J1	260605EK03	99.78	0.06	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.568	1.159	1.002	0.660	0.413	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	SMA-O20J1	260226EK02	99.78	0.05	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.578	1.159	1.002	0.671	0.419	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	SMA-O20J4	260622EK01	99.78	0.14	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.525	1.159	1.002	0.610	0.381	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	SMA-O20J4	260226EK03	99.78	-0.05	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.673	1.159	1.002	0.782	0.489	Plot
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	N/A	260213EK02	99.78	0.04	5855.00	171	U-NII-4	29.3	9.0	8.41	Back	5	0.586	1.146	1.002	0.673	0.421	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 10-6 | Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Accessory	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Charging Case	260213EK02	99.78	0.06	5290.00	58	U-NII-2A	29.3	9.0	8.36	Back	5	0.015	1.159	1.002	0.017	0.011	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Charging Case	260213EK02	99.78	0.01	5530.00	106	U-NII-2C	29.3	9.0	8.33	Back	5	0.009	1.167	1.002	0.005	0.003	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Charging Case	260213EK02	99.78	0.08	5775.00	155	U-NII-3	29.3	9.0	8.36	Back	5	0.010	1.159	1.002	0.012	0.008	
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	1	Charging Case	260213EK02	99.78	0.03	5855.00	171	U-NII-4	29.3	9.0	8.41	Back	5	0.017	1.146	1.002	0.020	0.013	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				

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10.3 6 GHz WLAN Standalone SAR and APD

Table 10-7 | Plot A17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.07	6025.00	15	U-NII-5	68.1	12.0	11.55	Face-Worn	0	0.267	1.109	1.003	0.297	0.186	Plot
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.03	6025.00	15	U-NII-5	68.1	12.0	11.55	Forehead-Worn	0	0.236	1.109	1.003	0.251	0.157	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	-0.21	6345.00	79	U-NII-5	68.1	12.0	11.65	Face-Worn	0	0.098	1.084	1.003	0.107	0.067	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.04	6595.00	111	U-NII-6	68.1	12.0	11.66	Face-Worn	0	0.102	1.083	1.003	0.111	0.069	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.07	6665.00	143	U-NII-7	68.1	12.0	11.25	Face-Worn	0	0.093	1.189	1.003	0.111	0.069	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.02	6985.00	207	U-NII-8	68.1	12.0	11.40	Face-Worn	0	0.024	1.148	1.003	0.028	0.018	
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 #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.07	6025.00	15	U-NII-5	68.1	12.0	11.55	Face-Worn	0	1.590	1.109	1.003	1.769	0.088	Plot
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.03	6025.00	15	U-NII-5	68.1	12.0	11.55	Forehead-Worn	0	1.350	1.109	1.003	1.502	0.075	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	-0.21	6345.00	79	U-NII-5	68.1	12.0	11.65	Face-Worn	0	0.522	1.084	1.003	0.568	0.028	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.04	6595.00	111	U-NII-6	68.1	12.0	11.66	Face-Worn	0	0.549	1.081	1.003	0.595	0.030	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.07	6665.00	143	U-NII-7	68.1	12.0	11.25	Face-Worn	0	0.490	1.189	1.003	0.584	0.029	
Head	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	260218MD24	99.69	0.02	6985.00	207	U-NII-8	68.1	12.0	11.40	Face-Worn	0	0.149	1.148	1.003	0.172	0.009	

Table 10-8 | Plot A18, A19, A20, A21, A22, A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	N/A	260218MD24	99.69	0.02	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.250	1.159	1.003	0.291	0.182	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2011	260302MD12	99.69	0.04	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.301	1.159	1.003	0.302	0.219	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2021	260302MD11	99.69	0.03	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.151	1.159	1.003	0.176	0.110	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2031	260302MD15	99.69	0.06	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.253	1.159	1.003	0.294	0.184	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2041	260302MD04	99.69	-0.15	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.196	1.159	1.003	0.228	0.143	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2051	260302MD16	99.69	0.07	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	0.241	1.159	1.003	0.280	0.175	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body				
Spatial Peak																		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																		averaged over 1 gram				
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	N/A	260218MD24	99.69	0.02	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	1.710	1.159	1.003	1.988	0.099	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2011	260302MD12	99.69	0.04	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	2.050	1.159	1.003	2.343	0.119	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2021	260302MD11	99.69	0.03	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	1.020	1.159	1.003	1.186	0.059	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2031	260302MD15	99.69	0.06	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	1.800	1.159	1.003	2.062	0.105	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2041	260302MD04	99.69	-0.15	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	1.280	1.159	1.003	1.488	0.074	Plot
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	SM-O2051	260302MD16	99.69	0.07	6025.00	15	U-NII-5	68.1	7.0	6.36	Back	5	1.670	1.159	1.003	1.941	0.097	Plot

Table 10-9 | Plot A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	MD24	99.69	0.07	6025.00	15	U-NII-5	68.1	12.0	11.85	Back	5	0.015	1.035	1.003	0.016	0.010	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram					
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Body-worn	6 GHz WiFi / IEEE 802.11ax	160	OFDM	1	MD24	99.69	0.07	6025.00	15	U-NII-5	68.1	12.0	11.85	Back	5	0.139	1.035	1.003	0.144	0.007	Plot

10.4 2.4 GHz Bluetooth Standalone SAR

Table 10-10 | Plot A25

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	1	260514EK06	77.07	-0.18	2441.00	39	1	13.0	11.77	Face-Worn	0	0.097	1.327	1.025	0.132	0.083	Plot
Head	2.4 GHz Bluetooth	FHSS	1	260514EK06	77.07	-0.12	2441.00	39	1	13.0	11.77	Forehead-Worn	0	0.087	1.327	1.025	0.118	0.074	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram					

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Table 10-11 | Plot A26, A27, A28, A29, A30, A31

Exposure	Band / Mode	Service / Modulation	Ant.	Add'l Info	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz Bluetooth	FHSS	1	N/A	260514EK06	77.07	0.01	2441.00	39	1	13.0	11.77	Back	5	0.197	1.327	1.025	0.268	0.168	Plot
Body-worn	2.4 GHz Bluetooth	FHSS	1	SM-O201J	260608EK01	77.07	0.08	2441.00	39	1	13.0	11.77	Back	5	0.255	1.327	1.025	0.347	0.217	Plot
Body-worn	2.4 GHz Bluetooth	FHSS	1	SM-O202J	260605EK03	77.07	0.04	2441.00	39	1	13.0	11.77	Back	5	0.223	1.327	1.025	0.303	0.189	Plot
Body-worn	2.4 GHz Bluetooth	FHSS	1	SM-O203J	260611EK01	77.07	0.09	2441.00	39	1	13.0	11.77	Back	5	0.246	1.327	1.025	0.335	0.209	Plot
Body-worn	2.4 GHz Bluetooth	FHSS	1	SM-O204J	260627EK01	77.07	-0.11	2441.00	39	1	13.0	11.77	Back	5	0.242	1.327	1.025	0.329	0.206	Plot
Body-worn	2.4 GHz Bluetooth	FHSS	1	SM-O205J	260627EK02	77.07	0.00	2441.00	39	1	13.0	11.77	Back	5	0.275	1.327	1.025	0.374	0.234	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body							
Spatial Peak													1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population													averaged over 1 gram							

Table 10-12 | Plot A32

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz Bluetooth	FHSS	1	260514EK06	77.07	0.05	2441.00	39	1	13.0	11.77	Back	5	0.014	1.327	1.025	0.019	0.012	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram					

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SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. 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.
7. The device head SAR was performed on a head-down phantom and body-worn SAR was performed on a flat phantom.

WLAN Notes:

1. 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.
2. 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.

Bluetooth Notes:

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications on Ant 1.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

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11 POWER DENSITY DATA SUMMARY

11.1 6 GHz WIFI Power Density Results

Table 11-1 | Plot A33, A34, A35, A36, A37, A38

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.	Variant	DUT Serial Number	Data Rate (Mbps)	Side	Test Position	Duty Cycle (%)	Grid Step (A)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.18	2	1	N/A	200518MD16	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	2.470	4.623	3.120	5.839	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.14	2	1	SM-C201J	200609MD03	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	2.690	5.035	3.340	6.251	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.19	2	1	SM-C202J	200609MD04	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	2.660	4.978	3.420	6.401	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	0.10	2	1	SM-C203J	200612MD02	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	2.230	4.174	3.050	5.708	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.14	2	1	SM-C204J	200624MD04	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	2.380	4.454	2.870	4.997	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.15	2	1	SM-C205J	200624MD02	68.1	No Case	Back	99.69	0.041	1.610	1.159	1.003	1.910	3.575	2.450	4.585	Plot
6025.00	15	802.11ax	OFDM	160	7.00	6.36	-0.11	2	1	N/A	200518MD16	68.1	Charging Case	Back	99.69	0.041	1.610	1.159	1.003	0.113	0.211	0.120	0.225	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																	Power Density 10 W/m² averaged over 4 cm²							

Power Density General Notes

- The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.80 dB (90.5%) was used to determine the psPD measurement scaling factor.
- In accordance with the measurement system manufacturer's guidance, power density was measured at a distance of 2 mm from the DUT. The integrated power density (iPD) was calculated from the measured field distribution. The measurement grid resolution was sufficient to accurately determine compliance at the 2 mm evaluation plane.
- PTP-PR algorithm was used during psPD measurement and calculations.
- PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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12 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Anritsu	MS46131A	Vector Network Analyzer	10/16/2025	Annual	10/16/2026	2537502
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Control Company	4353	Long Stem Thermometer	7/18/2025	Annual	7/18/2026	200645912
Control Company	4353	Long Stem Thermometer	7/18/2025	Annual	7/18/2026	200645903
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	TSF-1000	Torque Wrench	1/18/2026	Annual	1/18/2027	47639-29
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/12/2026	Annual	1/12/2027	172585
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	8/6/2025	Annual	8/6/2026	1004
SPEAG	D2450V2	2450 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	945
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Biennial	8/7/2026	719
SPEAG	D2450V2	2450 MHz SAR Dipole	2/12/2026	Annual	2/12/2027	882
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/16/2026	Annual	1/16/2027	1191
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/4/2026	Annual	2/4/2027	1120
SPEAG	D5GHzV2	5 GHz SAR Dipole	6/2/2025	Annual	6/2/2026	1237
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/5/2025	Annual	12/5/2026	1018
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/10/2026	Annual	2/10/2027	1111
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/21/2026	Annual	4/21/2027	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	2/9/2026	Annual	2/9/2027	1638
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	1/8/2026	Annual	1/8/2027	1639
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	1/14/2026	Annual	1/14/2027	7713
SPEAG	EX3DV4	SAR Probe	4/23/2026	Annual	4/23/2027	7546
SPEAG	EUmmWV3	EUmmWV3 Probe	1/14/2026	Annual	1/14/2027	9389

Note:

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

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2. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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13 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 on a flat phantom:

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

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

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Applicable for SAR measurements < 6GHz on a Head-Stand phantom and Face-Down phantom:

SAR Uncertainty Budget based on EEE 1528-2013 for Specific Phantom (0.3 GHz to 6 GHz)

a	b	c	d	e f(d,k)	f	g	h ex/e	i exg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	6.55	N	1	1	1	6.55	6.55	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	0.00	R	1.73	1	1	0.00	0.00	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	6.70	R	1.73	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	15.00	R	1.73	1	1	8.66	8.66	∞
Test sample related									
Test sample positioning	E.4.2	1.00	N	1	1	1	1.00	1.00	35
Device holder uncertainty	E.4.1	0.00	N	1	1	1	0.00	0.00	∞
Output power variation - SAR drift	E.2.9	0.00	R	1.73	1	1	0.00	0.00	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	6.60	R	1.73	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	2.50	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement	E.3.3	2.50	N	1	0.23	0.26	0.58	0.65	∞
Liquid conductivity - temperature uncertainty	E.3.4	3.36	R	1.73	0.78	0.71	1.51	1.38	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.77	R	1.73	0.23	0.26	0.10	0.12	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.4	13.2	35
Expanded uncertainty (95% confidence interval)							26.7	26.4	

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Applicable for SAR measurements > 6GHz on a flat phantom:

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

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

Applicable for SAR measurements > 6GHz on a Head-Stand phantom and Face-Down phantom:

SAR Uncertainty Budget based on IEC/IEEE 62209-1528:2020 for Specific Phantom (0.3 GHz to 10 GHz)

Symbol	Input quantity X (source of uncertainty)	Ref.	Prob. Dist. PDFI	Unc. a(xi)	Div. qi	$u(x_i) = a(x_i)/q_i$	ci (1g)	ci (10g)	$u(y) = cixu(x_i) 1g (\pm \%)$	$u(y) = cixu(x_i) 10g (\pm \%)$	vi
Measurement system errors											
CF	Probe calibration	8.4.1.1	N (k=2)	9.30	1	9.30	1	1	9.30	9.30	∞
CFdrift	Probe calibration drift	8.4.1.2	R	1.70	1.73	0.98	1	1	0.98	0.98	∞
LIN	Probe linearity and detection limit	8.4.1.3	R	4.70	1.73	2.71	1	1	2.71	2.71	∞
BBS	Broadband signal	8.4.1.4	R	2.80	1.73	1.62	1	1	1.62	1.62	∞
ISO	Probe isotropy	8.4.1.5	R	7.60	1.73	4.39	1	1	4.39	4.39	∞
DAE	Other probe and data acquisition errors	8.4.1.6	N	0.30	1	0.30	1	1	0.30	0.30	∞
AMB	RF ambient and noise	8.4.1.7	N	1.80	1	1.80	1	1	1.80	1.80	∞
Δxyz	Probe positioning errors	8.4.1.8	N	0.80	1	0.80	1	1	0.80	0.80	∞
DAT	Data processing errors	8.4.1.9	N	8.70	1.00	8.70	1	1	8.70	8.70	∞
Phantom and device (DUT or validation antenna) errors											
LIQ(σ)	Measurement of phantom conductivity	8.4.2.1	N	2.50	1	2.50	0.78	0.71	1.95	1.78	∞
LIQ(Tc)	Temperature effects (medium)	8.4.2.2	R	1.68	1.73	0.97	0.78	0.71	0.76	0.69	∞
EPS	Shell permittivity	8.4.2.3	R	14.00	1.73	8.08	0.5	0.5	4.04	4.04	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	0.50	1	0.50	2	2	1.00	1.00	∞
Dxyz	Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	1.00	1	1.00	1	1	1.00	1.00	35
H	Device holder effects	8.4.2.6	N	0.00	1	0.00	1	1	0.00	0.00	∞
MOD	Effect of operating mode on probe sensitivity	8.4.2.7	R	2.40	1.73	1.39	1	1	1.39	1.39	∞
TAS	Time-average SAR	8.4.2.8	R	0.00	1.73	0.00	1	1	0.00	0.00	∞
RFdrift	Variation in SAR due to drift in output power of DUT	8.4.2.9	N	0.00	1	0.00	1	1	0.00	0.00	∞
VAL	Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0.00	1	0.00	1	1	0.00	0.00	∞
Pin	Uncertainty in accepted power (validation measurement only)	8.4.2.11	N	0.00	1	0.00	1	1	0.00	0.00	∞
Corrections to the SAR result (if applied)											
C(ϵ' , σ)	Phantom deviation from target	8.4.3.1	R	5.00	1.73	2.89	0.64	0.43	1.85	1.24	∞
C(R)	SAR scaling	8.4.3.2	R	0.00	1.73	0.00	1	1	0.00	0.00	∞
u(ASAR) Combined uncertainty									14.98	14.89	35
U Expanded uncertainty and effective degrees of freedom									29.96	29.78	

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Applicable for Incident Power Density Measurements:

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

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

Applicable for Absorbed Power Density Measurements:

APD Uncertainty Budget based on IEC 63446 and IEC/IEEE 62209-1528 (6 GHz to 10 GHz)

Symbol	Error Description	Unc. $\pm$ dB	Prob. Dist.	Div. qi	ci (1g) / (1cm ²)	ci (10g) / (4cm ²)	Standard uncertainty $\pm$ dB (1g) / (1cm ²)	Standard uncertainty $\pm$ dB (10g) / (4cm ²)	vi
Uncertainty terms dependent on the measurement system									
psSAR	Module SAR V16.2	14.2	N	1	1	0.99	14.20	14.10	∞
PDC	Power Density Conversion	13.5	R	1.73	1	1	7.79	7.79	∞
u(ASAR) Combined uncertainty							16.20	16.11	
U Expanded uncertainty and effective degrees of freedom (95 % confidence interval)							32.40	32.22	
Expanded uncertainty and effective degrees of freedom (95 % confidence interval) in dB							1.22	1.21	

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14 CONCLUSION

14.1 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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