



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE REPORT

Applicant Name:

Apple Inc.
One Apple Park Way
Cupertino, CA 95014 USA

Date of Testing:

02/15/2026 – 02/19/2026

Test Report Issue Date:

2/23/2026

Test Site/Location:

Element Morgan Hill, CA, USA

Document Serial No.:

1C2512110102-01.BCG

FCC ID:

BCG-A3454

APPLICANT:

APPLE, INC.

DUT Type:

Wireless Headphones

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

A3454

Equipment Class	Band & Mode	Tx Frequency	SAR	
			1g Head (W/kg)	10g Extremity (W/kg)
DSS/DTS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.13	0.66
NII	NB U-NII 1	5157 - 5245 MHz	0.07	0.15
NII	NB U-NII 3	5731 - 5844 MHz	0.25	0.28
NII	NB U-NII 5	6108 - 6420 MHz	N/A	N/A

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.7 of this report; for North American frequency bands only.

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

RJ Ortanez
Executive Vice President



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

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Revision Summary

Revision	Description	Issue Date	Revised By:
-	Initial Release	2/10/2025	WKR0000019081

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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	TxFrequency
Bluetooth	Data	2402 - 2480 MHz
NB UNII-1	Data	5157 - 5245 MHz
NB UNII-3	Data	5731 - 5844 MHz
NB UNII-5	Data	6108 - 6420 MHz

1.2 Power Reduction for SAR

There is no power reduction used for any band/mode implemented in this device for SAR purposes.

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1.3 Nominal and Maximum Output Power Specifications

1.3.1 Bluetooth Maximum Output Power

Mode/Band	Duty Cycle	Modulated Average (dBm)	
Bluetooth BDR	34%	Maximum	16.50
		Nominal	15.50
Bluetooth EDR2	77%	Maximum	13.50
		Nominal	12.50
Bluetooth EDR3	77%	Maximum	13.50
		Nominal	12.50
Bluetooth LE1M	100%	Maximum	16.50
		Nominal	15.50
Bluetooth LE2M	15%	Maximum	16.50
		Nominal	15.50
Bluetooth HDR4	77%	Maximum	13.50
		Nominal	12.50
Bluetooth HDRp4	100%	Maximum	13.50
		Nominal	12.50
Bluetooth HDR8	77%	Maximum	13.50
		Nominal	12.50
Bluetooth HDRp8	100%	Maximum	13.50
		Nominal	12.50

1.3.2 NB UNII-1 Maximum Output Power

Mode/Band	Duty Cycle	Modulated Average (dBm)	
Narrow Band UNII-1 BDR	34%	Maximum	10.00
		Nominal	9.00
Narrow Band UNII-1 HDR4/8 1-slot	34%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-1 HDR4/8 3/5-slot	77%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-1 HDRp4/p8	100%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-1 LE1M	100%	Maximum	10.00
		Nominal	9.00
Narrow Band UNII-1 LE2M	15%	Maximum	10.00
		Nominal	9.00

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1.3.3

NB UNII-3 Maximum Output Power

Mode/Band	Duty Cycle	Modulated Average (dBm)	
Narrow Band UNII-3 BDR	34%	Maximum	13.50
		Nominal	12.50
Narrow Band UNII-3 HDR4/8 1-slot	34%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-3 HDR4/8 3/5-slot	77%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-3 HDRp4/p8	100%	Maximum	10.50
		Nominal	9.50
Narrow Band UNII-3 LE1M	100%	Maximum	13.50
		Nominal	12.50
Narrow Band UNII-3 LE2M	15%	Maximum	13.50
		Nominal	12.50

1.3.4

NB UNII 5 Maximum Output Power

Mode/Band	Duty Cycle	Modulated Average (dBm) 6108 MHz (Low)		Modulated Average (dBm) 6185 MHz (Low-Mid) & 6264 MHz (Mid)		Modulated Average (dBm) 6342 MHz (Mid-High) & 6420 MHz (High)	
		Maximum	Nominal	Maximum	Nominal	Maximum	Nominal
Narrow Band UNII-5 BDR	34%	-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
		-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
Narrow Band UNII-5 LE1M	100%	-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
		-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
Narrow Band UNII-5 LE2M	15%	-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
		-6.50	-7.50	-8.75	-9.75	-9.50	-10.50
Narrow Band UNII-5 HDR4 1-slot	34%	-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
		-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
Narrow Band UNII-5 HDR8 1-slot	34%	-1.50	-2.50	-3.75	-4.75	-4.50	-5.50
		-1.50	-2.50	-3.75	-4.75	-4.50	-5.50
Narrow Band UNII-5 HDR4 3/5-slot	77%	-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
		-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
Narrow Band UNII-5 HDR8 3/5-slot	77%	-1.50	-2.50	-3.75	-4.75	-4.50	-5.50
		-1.50	-2.50	-3.75	-4.75	-4.50	-5.50
Narrow Band UNII-5 HDRp4	100%	-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
		-4.00	-5.00	-6.25	-7.25	-7.00	-8.00
Narrow Band UNII-5 HDRp8	100%	-1.50	-2.50	-3.75	-4.75	-4.50	-5.50
		-1.50	-2.50	-3.75	-4.75	-4.50	-5.50

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.

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1.4 DUT Antenna Locations

Based on the expected use conditions, Head SAR and Extremity SAR were evaluated. The antenna is located inside the left cushion on the DUT. A diagram showing the location of the antenna can be found in DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS appendix. More information about the configuration evaluated for SAR can be found in Section 4.2 and Section 4.3.

1.5 Simultaneous Transmission Capabilities

This device does not support any simultaneous transmission scenarios.

1.6 Miscellaneous Test Considerations Section

Per KDB 447498 D04v01 Sec. 2.1.2, the 1 mW test exemption is allowed for NB U-NII 5 because the available maximum time-averaged power is no more than 1 mW. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

1.7 Guidance Applied

- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCB Workshop Notes (6-8 GHz)
- 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

1.8 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 9.

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2 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996, and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

2.1 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 2-1).

Equation 2-1
SAR Mathematical Equation

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

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

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

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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3 DOSIMETRIC ASSESSMENT

3.1 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 3-3-1) 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 3-3-1) 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 cDASY6 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 3-3-1. 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 completed to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

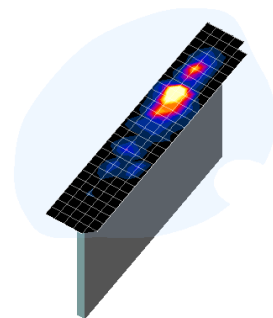


Figure 3-1
Sample SAR Area
Scan

Table 3-3-1
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		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤ 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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4 TEST CONFIGURATION POSITIONS

4.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

4.2 Positioning for Head

Wireless Headphones are head mounted devices that are designed to be used at the ear but do not protrude into the pinna or the auditory canal. The device is evaluated with the audio-output (cushion side) of the device aligned to the ERP reference point. The device was oriented against the phantom in such a way that mimics expected use conditions. The phantom is filled with head tissue-equivalent medium. Since the device can be used with the radiating element located on the right and left sides of the head, SAR testing was performed for both sides to simulate all potential head use-case conditions.

4.3 Extremity Exposure Conditions

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation, Based on the expected use conditions. Extremity SAR was evaluated with the outside (Logo) of the device touching the flat phantom, and the bottom edge touching the flat phantom. The antenna touching at 45° was additionally evaluated from normal condition because it is more conservative. The phantom is filled with head tissue-equivalent medium.

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5 RF EXPOSURE LIMITS

5.1 Uncontrolled Environment

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

5.2 Controlled Environment

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

Table 5-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

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

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

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6 FCC MEASUREMENT PROCEDURES

6.1 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.

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7 RF CONDUCTED POWERS

7.1 Bluetooth Conducted Powers

Table 7-1
Bluetooth LE Average RF Power

Frequency [MHz]	Modulation	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	GFSK	1.0	0	15.57	36.058
2440	GFSK	1.0	19	15.47	35.237
2480	GFSK	1.0	39	15.45	35.075

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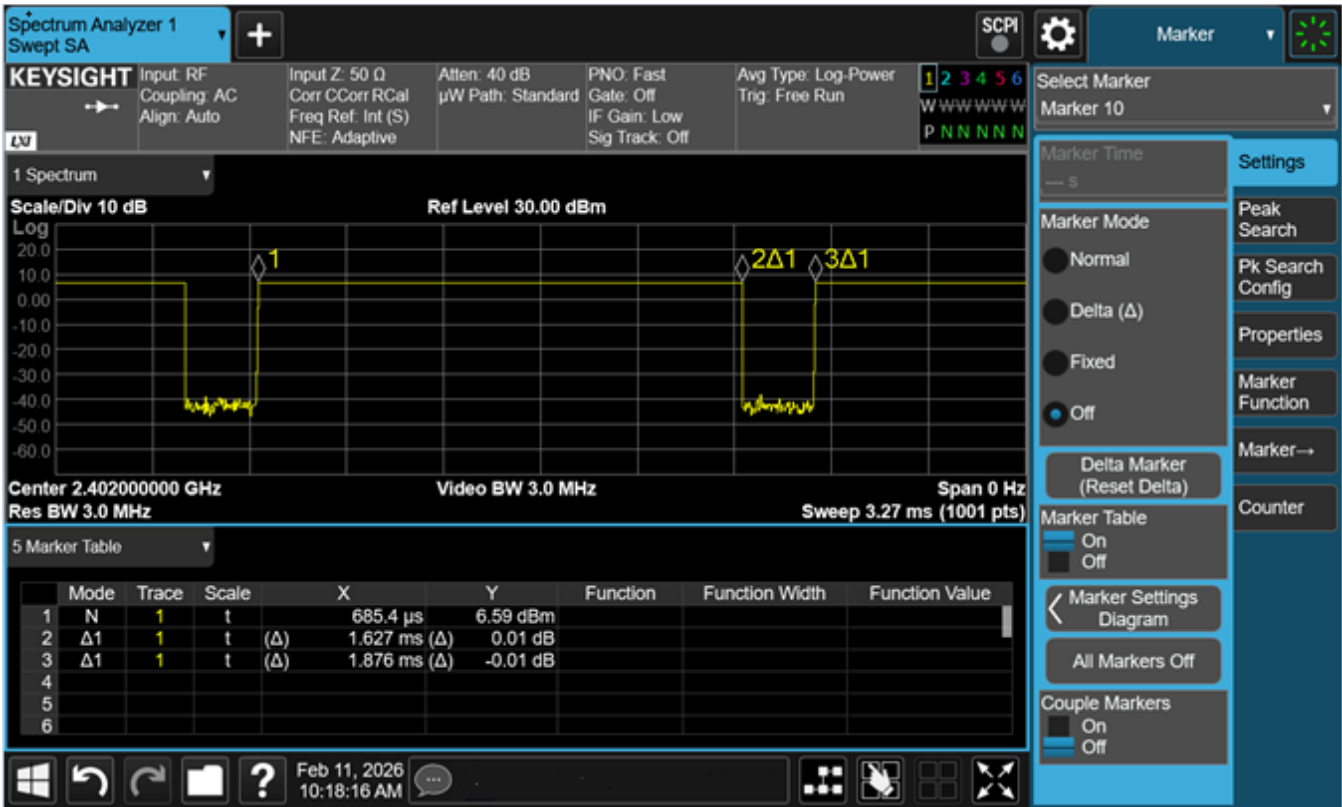
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7.2 Bluetooth Duty Cycle

7.2.1 Maximum Bluetooth Transmission

Figure 7-1
2.4 GHz Bluetooth LE Transmission Plot



Equation 7-1
2.4 GHz Bluetooth Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{1.627\ ms}{1.876\ ms} * 100\% = 86.73\%$$

7.3 Notes for Bluetooth

- Full power measurements were performed per FCC KDB Procedures 248227.

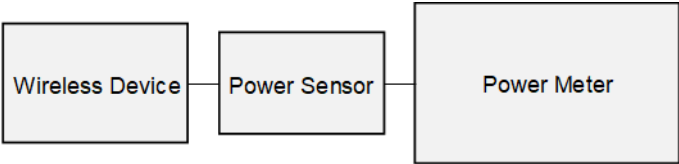


Figure 7-2
Power Measurement Setup

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7.4 NB UNII Conducted Powers

Table 7-2
NB UNII Average RF Power

Type	Band	Frequency	Channel	Average
HDRp4	U-NII 1	5157	Low	8.90
		5201	Mid	9.00
		5245	High	9.12
LE1M	U-NII 3	5731	Low	12.39
		5788	Mid	12.35
		5844	High	12.34

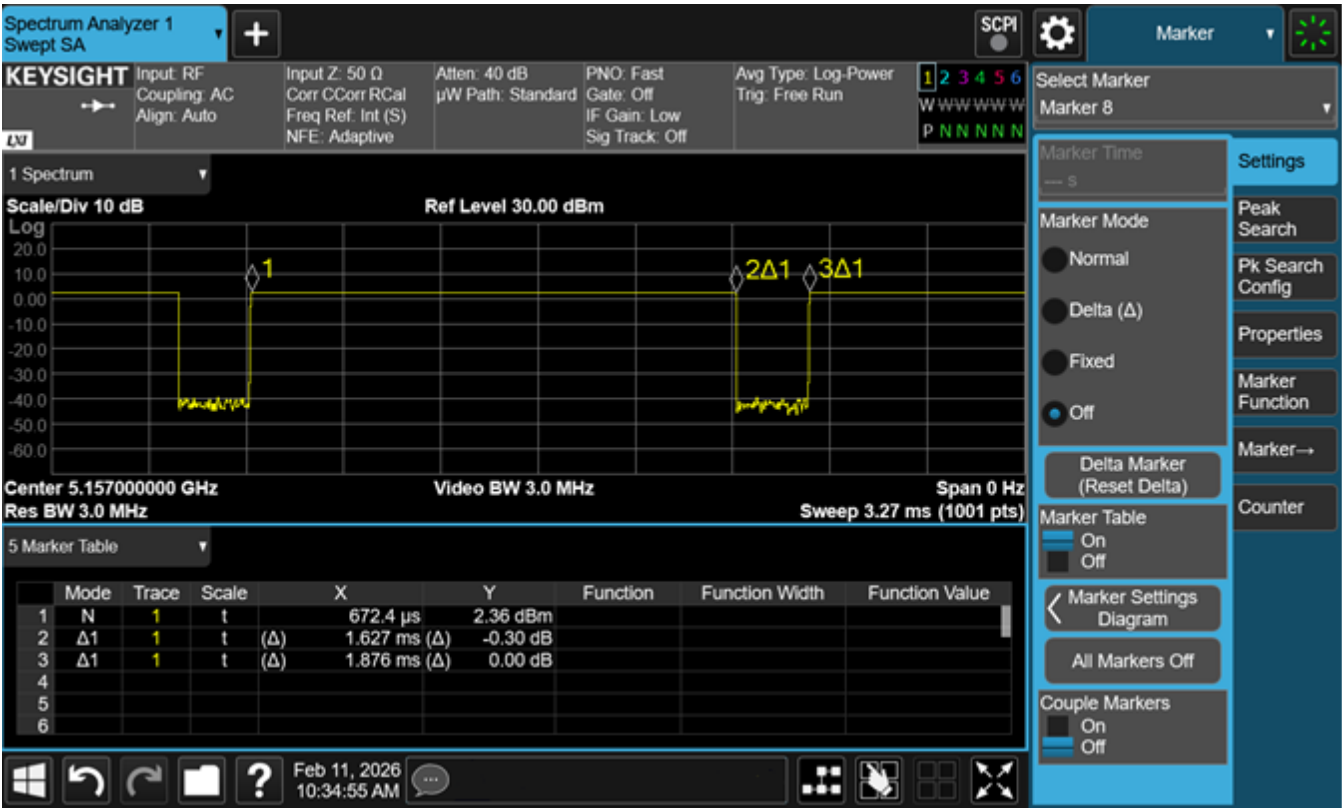
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7.5 NB UNII Duty Cycle Plots

Figure 7-3
NB UNII 1 Transmission Plot

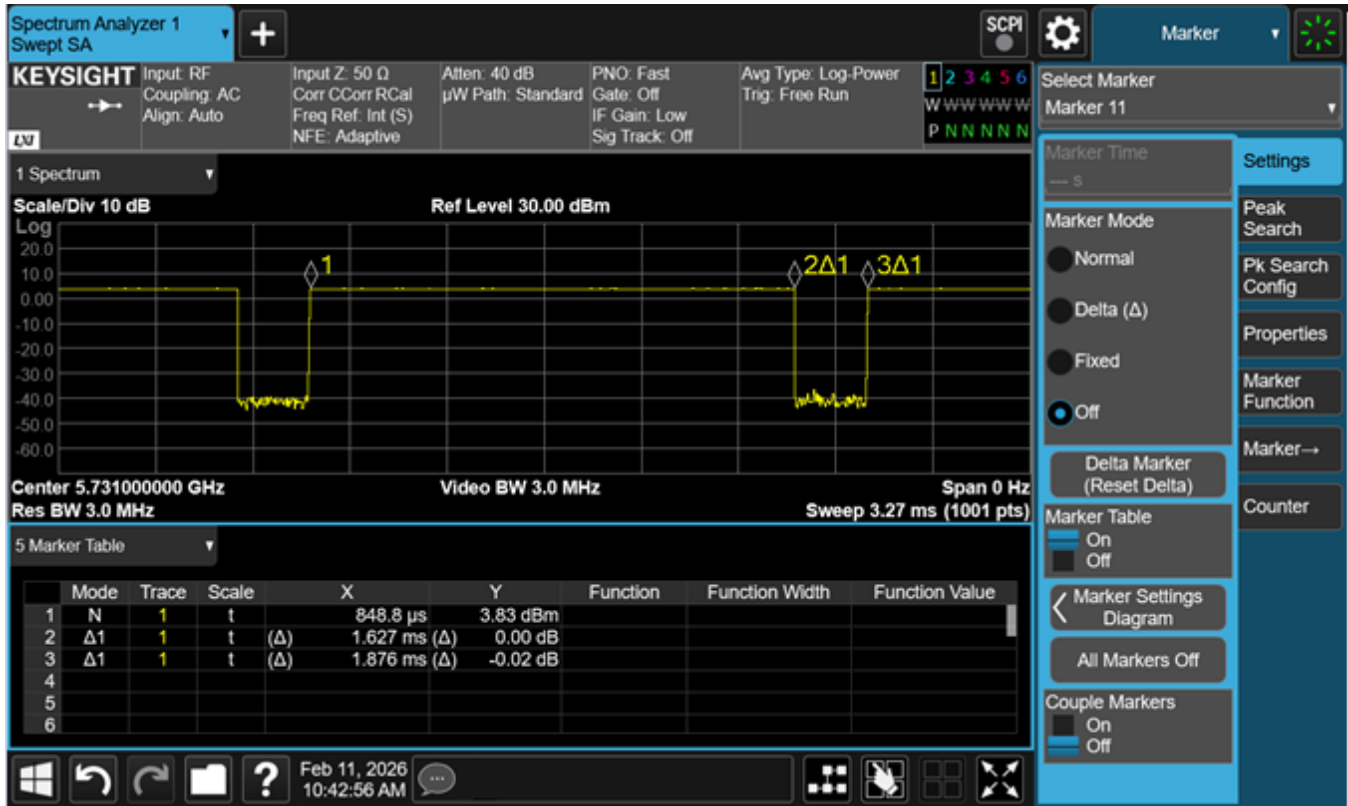


Equation 7-2
NB UNII 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{1.627\ ms}{1.876\ ms} * 100\% = 86.73\%$$

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Figure 7-4
NB UNII 3 Transmission Plot



Equation 7-3
NB UNII 3 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{1.627 \text{ ms}}{1.876 \text{ ms}} * 100\% = 86.73\%$$

7.6 Notes for NB U-NII

- Full power measurements were performed per FCC KDB Procedures 248227.

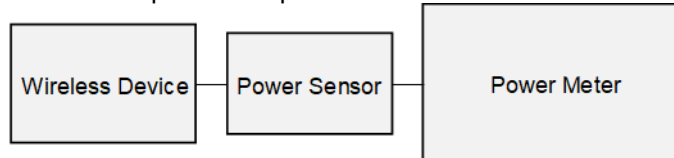


Figure 7-5
Power Measurement Setup

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8 SYSTEM VERIFICATION

8.1 Tissue Verification

Table 8-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
02/17/2026	2450 Head	19.0	2300	1.618	39.988	1.670	39.500	-3.11%	1.24%
			2310	1.627	39.978	1.679	39.480	-3.10%	1.26%
			2320	1.635	39.970	1.687	39.460	-3.08%	1.29%
			2400	1.697	39.835	1.756	39.289	-3.36%	1.39%
			2450	1.738	39.768	1.800	39.200	-3.44%	1.45%
			2480	1.760	39.707	1.833	39.162	-3.98%	1.39%
			2500	1.777	39.662	1.855	39.136	-4.20%	1.34%
			2510	1.786	39.645	1.866	39.123	-4.29%	1.33%
			2535	1.808	39.607	1.893	39.092	-4.49%	1.32%
			2550	1.821	39.590	1.909	39.073	-4.61%	1.32%
			2560	1.829	39.576	1.920	39.060	-4.74%	1.32%
02/19/2026	2450 Head	24.1	2300	1.679	38.771	1.670	39.500	0.54%	-1.85%
			2310	1.690	38.736	1.679	39.480	0.66%	-1.88%
			2320	1.701	38.701	1.687	39.460	0.83%	-1.92%
			2400	1.789	38.388	1.756	39.289	1.88%	-2.29%
			2450	1.846	38.215	1.800	39.200	2.56%	-2.51%
			2480	1.878	38.087	1.833	39.162	2.45%	-2.75%
			2500	1.902	38.003	1.855	39.136	2.53%	-2.90%
			2510	1.914	37.964	1.866	39.123	2.57%	-2.96%
			2535	1.944	37.874	1.893	39.092	2.69%	-3.12%
			2550	1.962	37.822	1.909	39.073	2.78%	-3.20%
			2560	1.973	37.787	1.920	39.060	2.76%	-3.26%
			2600	2.020	37.614	1.964	39.009	2.85%	-3.58%
			2650	2.079	37.426	2.018	38.945	3.02%	-3.90%
			2680	2.114	37.302	2.051	38.907	3.07%	-4.13%
			2700	2.137	37.209	2.073	38.882	3.09%	-4.30%

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02/15/2026	5200-5800 Head	19.0	5150	4.386	36.203	4.608	36.050	-4.82%	0.42%
			5160	4.399	36.186	4.618	36.040	-4.74%	0.41%
			5170	4.410	36.167	4.629	36.030	-4.73%	0.38%
			5180	4.422	36.137	4.635	36.009	-4.60%	0.36%
			5190	4.434	36.113	4.645	35.998	-4.54%	0.32%
			5200	4.447	36.097	4.655	35.986	-4.47%	0.31%
			5210	4.458	36.078	4.666	35.975	-4.46%	0.29%
			5220	4.467	36.051	4.676	35.963	-4.47%	0.24%
			5240	4.488	36.015	4.696	35.940	-4.43%	0.21%
			5250	4.499	36.004	4.706	35.929	-4.40%	0.21%
			5260	4.513	35.989	4.717	35.917	-4.32%	0.20%
			5270	4.526	35.969	4.727	35.906	-4.25%	0.18%
			5280	4.537	35.942	4.737	35.894	-4.22%	0.13%
			5290	4.550	35.917	4.748	35.883	-4.17%	0.09%
			5300	4.561	35.907	4.758	35.871	-4.14%	0.10%
			5310	4.571	35.894	4.768	35.860	-4.13%	0.09%
			5320	4.580	35.878	4.778	35.849	-4.14%	0.08%
			5500	4.784	35.529	4.963	35.643	-3.61%	-0.32%
			5510	4.797	35.509	4.973	35.632	-3.54%	-0.35%
			5520	4.810	35.493	4.983	35.620	-3.47%	-0.36%
			5530	4.819	35.485	4.994	35.609	-3.50%	-0.35%
			5540	4.825	35.471	5.004	35.597	-3.58%	-0.35%
			5550	4.834	35.454	5.014	35.586	-3.59%	-0.37%
			5560	4.846	35.437	5.024	35.574	-3.54%	-0.39%
			5580	4.872	35.397	5.045	35.551	-3.43%	-0.43%
			5600	4.899	35.344	5.065	35.529	-3.28%	-0.52%
			5610	4.913	35.328	5.076	35.518	-3.21%	-0.53%
			5620	4.927	35.318	5.086	35.506	-3.13%	-0.53%
			5640	4.950	35.264	5.106	35.483	-3.06%	-0.62%
			5660	4.968	35.230	5.127	35.460	-3.10%	-0.65%
			5670	4.976	35.222	5.137	35.449	-3.13%	-0.64%
			5680	4.988	35.203	5.147	35.437	-3.09%	-0.66%
			5690	4.999	35.182	5.158	35.426	-3.08%	-0.69%
			5700	5.014	35.160	5.168	35.414	-2.98%	-0.72%
			5710	5.028	35.145	5.178	35.403	-2.90%	-0.73%
			5720	5.042	35.133	5.188	35.391	-2.81%	-0.73%
			5745	5.067	35.073	5.214	35.363	-2.82%	-0.82%
			5750	5.073	35.065	5.219	35.357	-2.80%	-0.83%
			5755	5.080	35.052	5.224	35.351	-2.76%	-0.85%
			5765	5.088	35.045	5.234	35.340	-2.79%	-0.83%
			5775	5.098	35.041	5.245	35.329	-2.80%	-0.82%
			5785	5.110	35.022	5.255	35.317	-2.76%	-0.84%
			5795	5.125	35.000	5.265	35.305	-2.66%	-0.86%
			5800	5.132	34.992	5.270	35.300	-2.62%	-0.87%
			5805	5.138	34.982	5.275	35.294	-2.60%	-0.88%
			5825	5.162	34.937	5.296	35.271	-2.53%	-0.95%
			5835	5.174	34.909	5.305	35.230	-2.47%	-0.91%
			5845	5.184	34.886	5.315	35.210	-2.46%	-0.92%
			5850	5.189	34.874	5.320	35.200	-2.46%	-0.93%
			5855	5.194	34.865	5.325	35.197	-2.46%	-0.94%
			5865	5.205	34.861	5.336	35.190	-2.46%	-0.93%
			5875	5.217	34.860	5.347	35.183	-2.43%	-0.92%
			5885	5.230	34.849	5.357	35.177	-2.37%	-0.93%
			5905	5.252	34.805	5.379	35.163	-2.36%	-1.02%

Note: Per April 2019 TCB Workshop Notes, single head-tissue simulating liquid specified in IEC 62209-1 is permitted to use for all SAR tests. The above measured tissue parameters were used in the cDASY6 software. The cDASY6 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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8.2 Test System Verification

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

Table 8-2
System Verification Results – 1g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)
AM11	2450	Head	02/17/2026	19.2	19.0	0.10	750	7551	1323	5.050	53.300	50.500	-5.25%
AM7	2450	Head	02/19/2026	22.3	22.6	0.10	921	7420	1408	5.040	52.200	50.400	-3.45%
AM8	5250	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	4.050	77.900	81.000	3.98%
AM8	5600	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	4.360	81.800	87.200	6.60%
AM8	5750	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	3.790	80.700	75.800	-6.07%
AM8	5850	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	4.080	77.400	81.600	5.43%

Table 8-3
System Verification Results – 10g

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
AM11	2450	Head	02/17/2026	19.2	19.0	0.10	750	7551	1323	2.380	25.100	23.800	-5.18%
AM7	2450	Head	02/19/2026	22.3	22.6	0.10	921	7420	1408	2.310	24.300	23.100	-4.94%
AM8	5250	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	1.170	22.500	23.400	4.00%
AM8	5600	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	1.240	23.700	24.800	4.64%
AM8	5750	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	1.080	23.200	21.600	-6.90%
AM8	5850	Head	02/15/2026	20.9	19.2	0.05	1066	7490	1644	1.160	22.200	23.200	4.50%

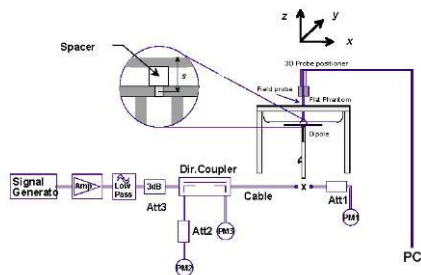


Figure 8-1
System Verification Setup Diagram



Figure 8-2
System Verification Setup Photo

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9 SAR DATA SUMMARY

9.1 Standalone Head SAR Data

Table 9-1
Bluetooth Head SAR

Exposure	Band / Mode	Service / Modulation	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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Head	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	-0.03	2402	0	1	16.50	15.57	Right Cheek	0	0.062	0.036	1.239	1.153	0.089	0.051	
Head	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	0.12	2402	0	1	16.50	15.57	Left Cheek	0	0.069	0.038	1.239	1.153	0.099	0.054	
Head	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	-0.01	2440	19	1	16.50	15.47	Left Cheek	0	0.067	0.046	1.268	1.153	0.127	0.067	A.1
Head	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	0.03	2480	39	1	16.50	15.45	Left Cheek	0	0.075	0.039	1.274	1.153	0.107	0.057	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 9-2
NB UNII-1 Head SAR

Exposure	Band / Mode	Service / Modulation	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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Head	NB U-NII 1	GFSK	FLXYT	86.73	0.04	5245	High	4	10.50	9.12	Right Cheek	0	0.045	0.013	1.374	1.153	0.071	0.021	
Head	NB U-NII 1	GFSK	FLXYT	86.73	0.05	5157	Low	4	10.50	8.90	Right Cheek	0	0.006	0.000	1.445	1.153	0.010	0.000	
Head	NB U-NII 1	GFSK	FLXYT	86.73	0.07	5201	Mid	4	10.50	9.00	Right Cheek	0	0.023	0.005	1.413	1.153	0.017	0.008	
Head	NB U-NII 1	GFSK	FLXYT	86.73	0.01	5245	High	4	10.50	9.12	Left Cheek	0	0.038	0.011	1.374	1.153	0.060	0.017	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 9-3
NB UNII-3 Head SAR

Exposure	Band / Mode	Service / Modulation	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]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Reported 10g SAR [W/kg]	Plot #
Head	NB U-NII 3	GFSK	FLXYT	86.73	0.03	5731	Low	1	13.50	12.39	Right Cheek	0	0.165	0.056	1.291	1.153	0.246	0.083	A2
Head	NB U-NII 3	GFSK	FLXYT	86.73	0.08	5788	Mid	1	13.50	12.35	Right Cheek	0	0.116	0.037	1.303	1.153	0.174	0.056	
Head	NB U-NII 3	GFSK	FLXYT	86.73	0.08	5844	High	1	13.50	12.34	Right Cheek	0	0.084	0.023	1.306	1.153	0.126	0.035	
Head	NB U-NII 3	GFSK	FLXYT	86.73	0.06	5731	Low	1	13.50	12.39	Left Cheek	0	0.147	0.047	1.291	1.153	0.219	0.070	
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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9.2 Standalone Extremity SAR Data

Table 9-4
Bluetooth Extremity SAR

Exposure	Band / Mode	Service / Modulation	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	-0.02	2402	0	1	16.50	15.57	Logo	0	0.108	1.239	1.153	0.154	
Extremity	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	0.02	2402	0	1	16.50	15.57	Bottom	0	0.403	1.239	1.153	0.576	
Extremity	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	0.01	2402	0	1	16.50	15.57	Antenna Touching	0	0.462	1.239	1.153	0.660	A3
Extremity	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	-0.06	2440	19	1	16.50	15.47	Antenna Touching	0	0.453	1.268	1.153	0.662	
Extremity	2.4 GHz Bluetooth LE	GFSK	6L9L1	86.73	0.00	2480	39	1	16.50	15.45	Antenna Touching	0	0.339	1.274	1.153	0.498	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

Table 9-5
NB UNII-1 Extremity SAR

Exposure	Band / Mode	Service / Modulation	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 1	GFSK	FLXYT	86.73	0.01	5245	High	4	10.50	9.12	Logo	0	0.000	1.374	1.153	0.000	
Extremity	NB U-NII 1	GFSK	FLXYT	86.73	0.05	5157	Low	4	10.50	8.90	Bottom	0	0.077	1.445	1.153	0.128	
Extremity	NB U-NII 1	GFSK	FLXYT	86.73	-0.04	5201	Mid	4	10.50	9.00	Bottom	0	0.092	1.413	1.153	0.150	
Extremity	NB U-NII 1	GFSK	FLXYT	86.73	0.01	5245	High	4	10.50	9.12	Bottom	0	0.062	1.374	1.153	0.098	
Extremity	NB U-NII 1	GFSK	FLXYT	86.73	0.02	5245	High	4	10.50	9.12	Antenna Touching	0	0.009	1.374	1.153	0.014	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

Table 9-6
NB UNII-3 Extremity SAR

Exposure	Band / Mode	Service / Modulation	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Plot #
Extremity	NB U-NII 3	GFSK	FLXYT	86.73	0.01	5731	Low	1	13.50	12.39	Logo	0	0.000	1.291	1.153	0.000	
Extremity	NB U-NII 3	GFSK	FLXYT	86.73	0.06	5731	Low	1	13.50	12.39	Bottom	0	0.096	1.291	1.153	0.143	
Extremity	NB U-NII 3	GFSK	FLXYT	86.73	0.04	5731	Low	1	13.50	12.39	Antenna Touching	0	0.185	1.291	1.153	0.275	A4
Extremity	NB U-NII 3	GFSK	FLXYT	86.73	-0.12	5788	Mid	1	13.50	12.35	Antenna Touching	0	0.150	1.303	1.153	0.225	
Extremity	NB U-NII 3	GFSK	FLXYT	86.73	0.02	5844	High	1	13.50	12.34	Antenna Touching	0	0.100	1.306	1.153	0.151	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

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9.3 SAR Test Notes

General Notes: NB

1. Batteries are fully charged at the beginning of the SAR measurements.
2. Liquid tissue depth was at least 15.0 cm for all frequencies.
3. 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.
4. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
5. Per FCC KDB 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 and 2.0 W/kg for 10g. Please see section 10 for variability analysis.
6. The orange highlights throughout the report represent the highest scaled SAR per Equipment Class.
7. For Head SAR evaluation, the DUT's audio-output (cushion side) was aligned to the ERP reference point.
8. For Extremity SAR evaluation, the DUT's outer edge (Logo) was positioned at 0 mm from the phantom.
9. Extremity SAR evaluation was additionally tested with the bottom edge touching the phantom at 0 mm. Additional test setup and positioning information can be found in Section 4.2 and Section 4.3.
10. The antenna touching at 45° was additionally evaluated from normal condition because it is more conservative in certain scenarios.

NB UNII Notes

1. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. See section 7.5 for the time domain plot and calculation for the duty factor of the device.
2. Per KDB 447498 D04v01 Sec. 2.1.2, the 1 mW test exemption is allowed for NB U-NII 5 because the available maximum time-averaged power is no more than 1 mW. This is a standalone exemption, and it cannot be applied in conjunction with any other test exemption.

Bluetooth Notes

1. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. See section 7.2 for the time domain plot and calculation for the duty factor of the device.

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10 SAR MEASUREMENT VARIABILITY

10.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was not assessed since all measured SAR values are $<0.8\text{W/kg}$ for 1g and $<0.2\text{ W/kg}$ for 10g SAR.

10.2 Measurement Uncertainty

The measured SAR was $<1.5\text{ W/kg}$ for 1g and $<3.75\text{ W/kg}$ for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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11 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433973
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	6/26/2025	Annual	6/26/2026	1339007
Insize	1108-150	Insize - Digital Caliper	2/25/2025	Annual	2/25/2026	711245294
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240174346
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Pasternack	NC-100	Torque Wrench	5/29/2025	Biennial	5/29/2027	N/A
SPEAG	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	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102
SPEAG	D2450V2	2450 MHz SAR Dipole	10/23/2024	Biennial	10/23/2026	921
SPEAG	D2450V2	2450 MHz SAR Dipole	5/13/2025	Annual	5/13/2026	750
SPEAG	D5GHzV2	5 GHz SAR Dipole	11/8/2024	Biennial	11/8/2026	1066
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/15/2025	Annual	4/15/2026	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/14/2025	Annual	10/2/2026	1408
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/3/2025	Annual	12/3/2026	1644
SPEAG	EX3DV4	SAR Probe	10/9/2025	Annual	10/9/2026	7420
SPEAG	EX3DV4	SAR Probe	4/16/2025	Annual	4/16/2026	7551
SPEAG	EX3DV4	SAR Probe	12/23/2025	Annual	12/23/2026	7490

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

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12 MEASUREMENT UNCERTAINTIES

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

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

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13 CONCLUSION

13.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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