

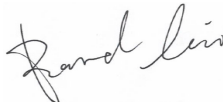
SAR EVALUATION REPORT

For

SHENZHEN TENDA TECHNOLOGY CO., LTD.

6-8 Floor, Tower E3, No. 1001, Zhongshanyuan Road, Nanshan District, Shenzhen, China. 518052

FCC ID: V7TU11PV11

Report Type: Original Report	Product Name: AX900 Wi-Fi 6 Dual-band Wireless USB Adapter
Report Number:	RSZA251226002-20B
Report Date:	2026-03-17
Reviewed By:	Bard Liu 
Approved By:	Kyle Xu 
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REPORT REVISION HISTORY

Number of Revisions	Report No.	Version	Issue Date	Description
0	RSZA251226002-20B	R1V1	2026-03-17	Initial Release

EUT Information	
Applicant:	SHENZHEN TENDA TECHNOLOGY CO., LTD.
Product Type	Portable
Exposure Category:	Population / Uncontrolled
Body-Worn Accessories:	None
Operation Mode :	WLAN2.4G RLAN5G BT/BLE
Power Supply:	DC 5V from USB
Normal Operation:	Body Supported
Frequency Band:	WLAN (2.4G): 2412 -2462 MHz (TX&RX) WLAN (5.2G): 5150-5250MHz(TX&RX) WLAN (5.8G) : 5725-5850 MHz(TX&RX) BT: 2402 MHz-2480 MHz(TX&RX) BLE(1Mbps): 2402 MHz-2480 MHz(TX&RX) BLE(2Mbps): 2402 MHz-2480 MHz(TX&RX)
Tested Model:	U11 Pro
Dimensions (L×W×H):	268 × 21 × 15 mm
Product name:	AX900 Wi-Fi 6 Dual-band Wireless USB Adapter
Serial Number:	RSZA251226002-2
Test Date:	2026-03-06

MODE	Max. SAR Level(s) Reported(W/kg)	Limit
2.4GHz WLAN	0.43 W/kg 1g Body SAR	1.6 W/kg(Body)
5.2GHz WLAN	0.55 W/kg 1g Body SAR	
5.8GHz WLAN	0.20 W/kg 1g Body SAR	
Applicable Standards		
FCC 47 CFR part 2.1093 Radiofrequency radiation exposure evaluation: portable devices		
▲ RF Exposure Procedures: TCB Workshop April 2019		
IEEE 1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques		
KDB procedures KDB 447498 D01 General RF Exposure Guidance v06 KDB 447498 D02 SAR Procedures for Dongle Xmtr v02r01. KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04 KDB 865664 D02 RF Exposure Reporting v01r02 KDB 248227 D01 802.11 Wi-Fi SAR v02r02		
Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in FCC 47 CFR part 2.1093 and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures. The results and statements contained in this report pertain only to the device(s) evaluated.		

All measurement and test data in this report was gathered from production sample serial number: RSZA251226002-2 (Assigned by the BACL (Kunshan). The EUT supplied by the applicant was received on 2025-12-26.)

REFERENCE, STANDARDS, AND GUIDELINES

FCC:

The Report and Order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

SAR Limits

FCC Limit

EXPOSURE LIMITS	SAR (W/kg)	
	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)
Spatial Average (averaged over the whole body)	0.08	0.4
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

Occupational/Controlled Environments are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure (i.e. as a result of employment or occupation).

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg for 1g Body SAR applied to the EUT.

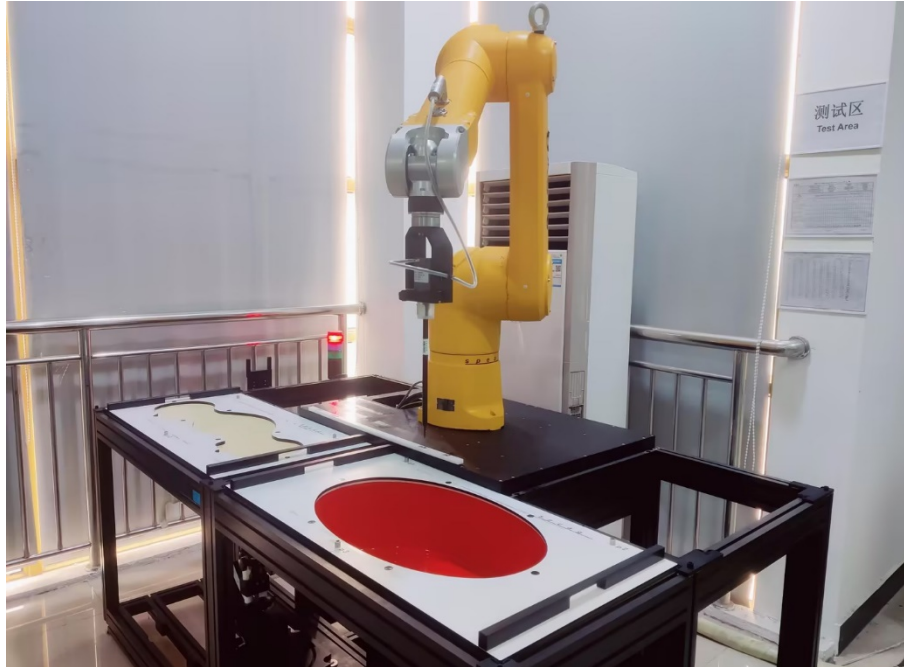
FACILITIES

The test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) is accredited in accordance with ISO/IEC 17025:2017 by NVLAP (Lab code: 600338-0), and the lab has been recognized as the FCC accredited lab under the KDB 974614 D01, the FCC Designation No. : CN5055.

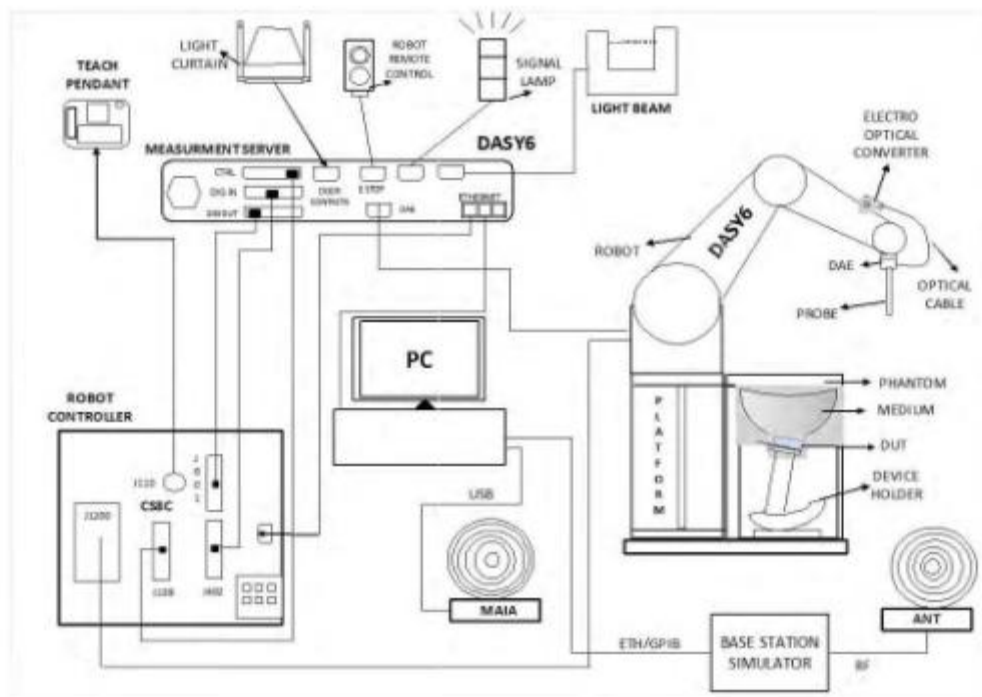
DESCRIPTION OF TEST SYSTEM

These measurements were performed with the automated near-field scanning system DASY6 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



DASY6 System Description

The DASY6 system for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

DASY6 Measurement Server

The DASY6 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.



The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. The PC operating system cannot interfere with these time-critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program- controlled robot movements. Furthermore, the measurement server is equipped with an expansion port, which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Connection of devices from any other supplier could seriously damage the measurement server.

Data Acquisition Electronics

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock.

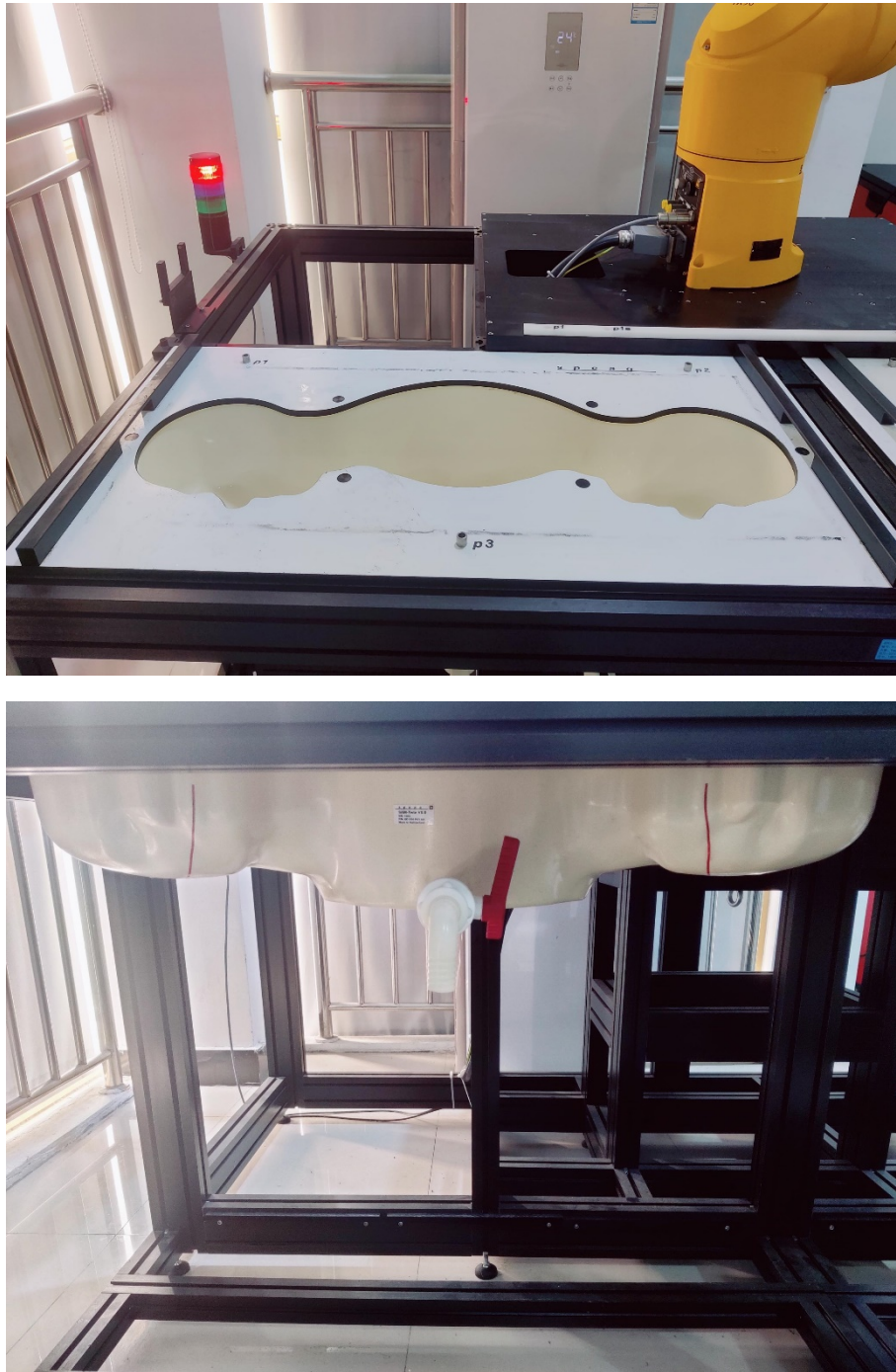
The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

EX3DV4 E-Field Probes

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	± 0.3 dB in TSL (rotation around probe axis) ± 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 μ W/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 μ W/g)
Dimensions	Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

SAM Twin Phantom



The SAM Twin Phantom (shown in front of DASY6) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm. The phantom has three measurement areas: 1) Left Head, 2) Right Head, and 3) Flat Section. For larger devices, the use of the ELI-Phantom (shown behind DASY6) is required. For devices such as glasses with a wireless link, the Face Down Phantom is the most suitable (between the SAM Twin and ELI phantoms). When the phantom is mounted inside allocated slot of the DASY6 platform, phantom reference points can be taught directly in the DASY5 V5.2 software. When the DASY6 platform is used to mount the Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

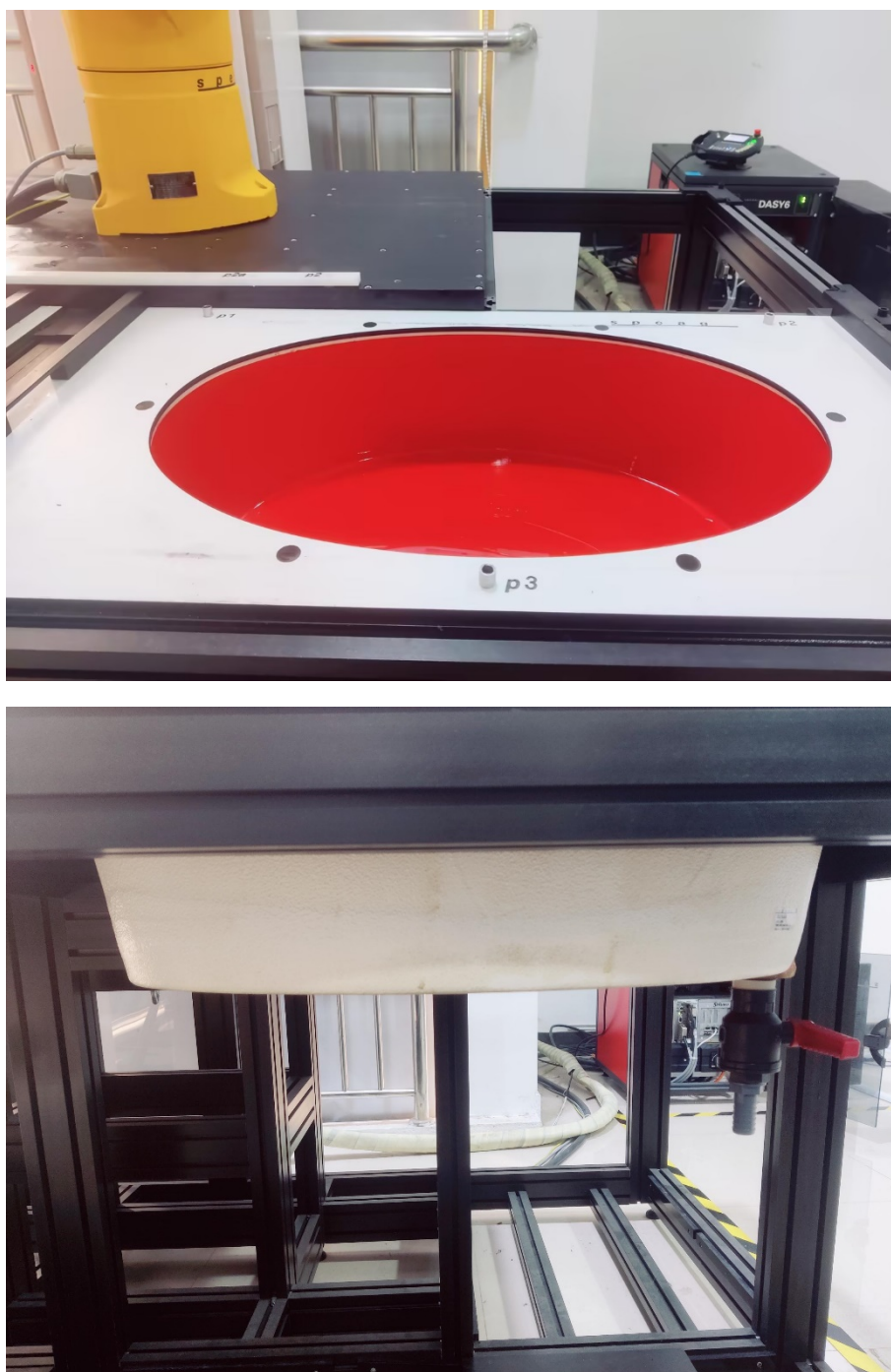
In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.

DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

ELI Phantom

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI is fully compatible with the latest draft of the standard IEEE 1528:2013 and the use of all known tissue simulating liquids. ELI has been optimized for performance and can be integrated into a SPEAG standard phantom table. A cover is provided to prevent evaporation of water and changes in liquid parameters. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points.

The phantom can be used with the following tissue simulating liquids:

- Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.
- DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).
- Do not use other organic solvents without previously testing the solvent resistivity of the phantom.

Approximately 25 liters of liquid is required to fill the ELI phantom.

Robots

The DASY6 system uses the high-precision industrial robots TX60L, TX90XL, and RX160L from Staubli SA (France). The TX robot family - the successor of the well-known RX robot family - continues to offer the features important for DASY6 applications:

- High precision (repeatability 0.02mm)
- High reliability (industrial design)
- Low maintenance costs (virtually maintenance free due to direct drive gears; no belt drives)
- Jerk-free straight movements (brushless synchrony motors; no stepper motors)
- Low ELF interference (motor control fields shielded via the closed metallic construction shields)

The robots are controlled by the Staubli CS8c robot controllers. All information regarding the use and maintenance of the robot arm and the robot controller is provided

Area Scans

Area scans are defined prior to the measurement process being executed with a user defined variable spacing between each measurement point (integral) allowing low uncertainty measurements to be conducted. Scans defined for FCC applications utilize a 15mm 2 step integral, with 1.5mm interpolation used to locate the peak SAR area used for zoom scan assessments.

Where the system identifies multiple SAR peaks (which are within 25% of peak value) the system will provide the user with the option of assessing each peak location individually for zoom scan averaging.

Zoom Scan (Cube Scan Averaging)

The averaging zoom scan volume utilized in the DASY5 software is in the shape of a cube and the side dimension of a 1 g or 10 g mass is dependent on the density of the liquid representing the simulated tissue. A density of 1000 kg/m³ is used to represent the head and body tissue density and not the phantom liquid density, in order to be consistent with the definition of the liquid dielectric properties, i.e. the side length of the 1g cube is 10mm, with the side length of the 10g cube is 21.5mm.

When the cube intersects with the surface of the phantom, it is oriented so that 3 vertices touch the surface of the shell or the center of a face is tangent to the surface. The face of the cube closest to the surface is modified in order to conform to the tangent surface.

The zoom scan integer steps can be user defined so as to reduce uncertainty, but normal practice for typical test applications (including FCC) utilize a physical step of 7 x 7 x 7 (5mmx5mmx5mm) providing a volume of 30 mm in the X & Y & Z axis.

Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEEE 1528:2013

Recommended Tissue Dielectric Parameters for Head liquid

Table 2 – Dielectric properties of the tissue-equivalent medium

Frequency MHz	Real part of the complex relative permittivity, ϵ_r'	Conductivity, σ S/m	Penetration depth (E-field), δ mm
4	55,0	0,75	293,0
13	55,0	0,75	165,5
30	55,0	0,75	112,8
150	52,3	0,76	62,0
300	45,3	0,87	46,1
450	43,5	0,87	43,0
750	41,9	0,89	39,8
835	41,5	0,90	39,0
900	41,5	0,97	36,2
1 450	40,5	1,20	28,6
1 800	40,0	1,40	24,3
1 900	40,0	1,40	24,3
1 950	40,0	1,40	24,3
2 000	40,0	1,40	24,3
2 100	39,8	1,49	22,8
2 450	39,2	1,80	18,7
2 600	39,0	1,96	17,2
3 000	38,5	2,40	14,0
3 500	37,9	2,91	11,4
4 000	37,4	3,43	10,0
4 500	36,8	3,94	9,7

Frequency MHz	Real part of the complex relative permittivity, ε'_r	Conductivity, σ S/m	Penetration depth (E-field), δ mm
<i>5 000</i>	36,2	4,45	1,5
<i>5 200</i>	36,0	4,66	8,4
<i>5 400</i>	35,8	4,86	8,1
<i>5 600</i>	35,5	5,07	7,5
<i>5 800</i>	35,3	5,27	7,3
<i>6 000</i>	35,1	5,48	7,0
<i>6 500</i>	34,5	6,07	6,7
<i>7 000</i>	33,9	6,65	6,4
<i>7 500</i>	33,3	7,24	6,1
<i>8 000</i>	32,7	7,84	5,9
<i>8 500</i>	32,1	8,46	5,3
<i>9 000</i>	31,6	9,08	4,8
<i>9 500</i>	31,0	9,71	4,4
<i>10 000</i>	30,4	10,40	4,0

NOTE For convenience, permittivity and conductivity values are linearly interpolated for frequencies that are not a part of the original data from Drossos et al. [2]. They are shown in italics in Table 2. The italicized values are linearly interpolated (below 5800 MHz) or extrapolated (above 5800 MHz) from the non-italicized values that are immediately above and below these values.

EQUIPMENT LIST AND CALIBRATION**Equipments List & Calibration Information**

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.4.1535	N/A	N/A	N/A
DASY6 Measurement Server	DASY6 6.0.31	N/A	N/A	N/A
Data Acquisition Electronics	DAE4	527	2025/05/16	2026/05/15
E-Field Probe	EX3DV4	7557	2025/05/16	2026/05/15
Mounting Device	MD4HHTV5	SD 000 H01 KA	N/A	N/A
Twin-SAM Phantom	QD 000 P41 Ax	1963	N/A	N/A
Dipole,2450MHz	D2450V2	970	2024/06/15	2027/06/14
Dipole,5GHz	D5GHzV2	1296	2025/06/10	2028/06/09
Simulated Tissue LiquidHead	HBBL600-6000V6	180611-3	Each Time	
Network Analyzer	E5071B	SG42400155	2025/04/08	2026/04/07
Dielectric Assessment Kit	DAK-3.5	SM DAK 300AB	N/A	N/A
Signal Generator	SMBV100A	261558	2025/04/08	2026/04/07
Power Amplifier	ZVE-8G+	558401902	N/A	N/A
Directional Coupler	4242-10	3307	N/A	N/A
Attenuator	10dB	10 dB-01	2025/04/08	2026/04/07
Attenuator	10dB	10 dB-02	2025/04/09	2026/04/08
Hygrothermograph	HD-7W	202408A000201	2025/04/11	2026/04/10
Thermometer	UL-IL01	N/A	2025/04/08	2026/04/07
Power Meter	E4419B	MY41291878	2025/04/08	2026/04/07
Power Meter	E4419B	GB43312421	2025/04/08	2026/04/07

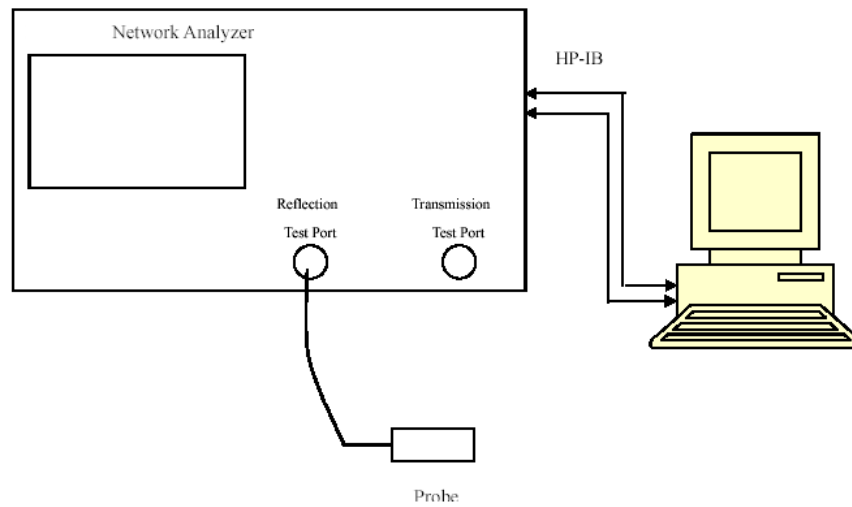
The Dipole calibration methods and procedures used were as detailed in:

FCC KDB Publication Number: “KDB865664 D01 SAR Measurement 100 MHz to 6 GHz”

1. The return-loss does not deviate more than 20% from the previous measurement and meets the required 20 dB minimum return-loss requirement.
2. The measurement of real or imaginary parts of impedance does not deviate more than 5Ω from the previous measurement.

SAR MEASUREMENT SYSTEM VERIFICATION

Liquid Verification



Liquid Verification Setup Block Diagram

Liquid Verification Results

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
2450	Simulated Tissue Liquid Head	1.843	39.494	1.800	39.200	2.39	0.75	± 5
2437	Simulated Tissue Liquid Head	1.829	39.544	1.788	39.219	2.29	0.83	± 5
2412	Simulated Tissue Liquid Head	1.799	39.648	1.765	39.256	1.93	1.00	± 5
2462	Simulated Tissue Liquid Head	1.857	39.446	1.812	39.183	2.48	0.67	± 5

Liquid Verification above was performed on 2026/03/06.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
5250	Simulated Tissue Liquid Head	4.603	36.734	4.710	35.900	-2.27	2.32	± 5
5200	Simulated Tissue Liquid Head	4.536	36.845	4.660	36.000	-2.66	2.35	± 5
5180	Simulated Tissue Liquid Head	4.511	36.889	4.639	36.020	-2.76	2.41	± 5
5240	Simulated Tissue Liquid Head	4.591	36.738	4.701	35.960	-2.34	2.16	± 5

Liquid Verification above was performed on 2026/03/06.

Frequency (MHz)	Liquid Type	Liquid Parameter		Target Value		Delta (%)		Tolerance (%)
		σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	$\Delta \sigma$	$\Delta \epsilon_r$	
5750	Simulated Tissue Liquid Head	5.185	35.617	5.220	35.400	-0.67	0.61	± 5
5785	Simulated Tissue Liquid Head	5.232	35.566	5.255	35.315	-0.44	0.71	± 5
5745	Simulated Tissue Liquid Head	5.179	35.632	5.215	35.355	-0.69	0.78	± 5
5825	Simulated Tissue Liquid Head	5.273	35.475	5.296	35.275	-0.43	0.57	± 5

Liquid Verification above was performed on 2026/03/06

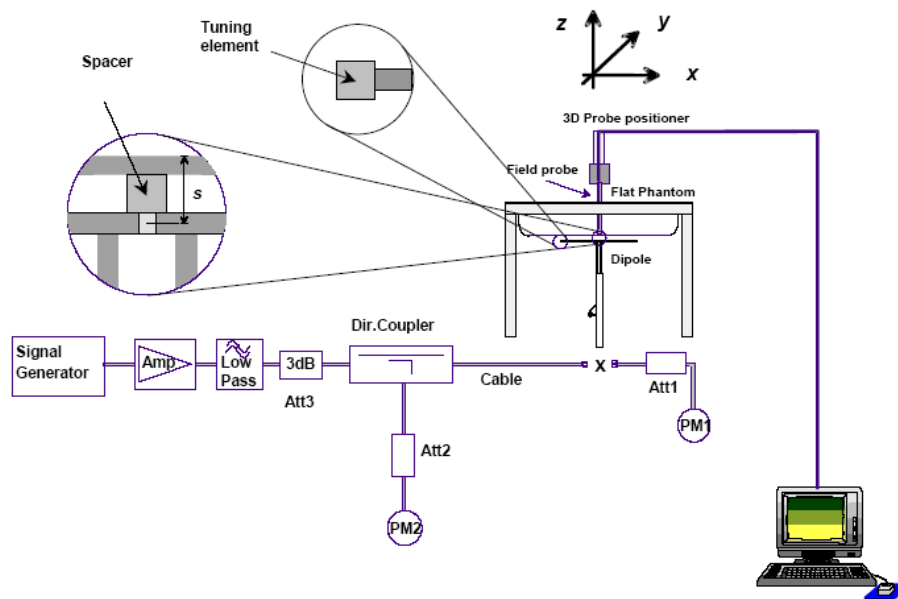
System Accuracy Verification

Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of $\pm 10\%$. The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

The spacing distances in the **System Verification Setup Block Diagram** is given by the following:

- $s = 15 \text{ mm} \pm 0,2 \text{ mm}$ for $300 \text{ MHz} \leq f \leq 1\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $1\,000 \text{ MHz} < f \leq 3\,000 \text{ MHz}$;
- $s = 10 \text{ mm} \pm 0,2 \text{ mm}$ for $3\,000 \text{ MHz} < f \leq 6\,000 \text{ MHz}$.

System Verification Setup Block Diagram



System Accuracy Check Results

Date	Frequency Band	Liquid Type	Input Power (mW)	Measured SAR (W/kg)		Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2026/03/06	2450MHz	Head	100	1g	5.50	55	53.10	3.58	±10
2026/03/06	5250MHz	Head	100	1g	7.87	78.7	78.70	0.00	±10
2026/03/06	5750MHz	Head	100	1g	7.58	75.8	78.70	-3.68	±10

The SAR values above are normalized to 1 Watt forward power.

SAR SYSTEM VALIDATION DATA

System Check_Head_2450MHz

DUT: Dipole 2450 MHz D2450V2; Type: D2450V2; Serial: D2450V2 - SN:970

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.843$ S/m; $\epsilon_r = 39.494$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.43, 7.43, 7.43) @ 2450 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (7x7x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 6.23 W/kg

Pin=100mW/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.46 V/m; Power Drift = -0.02 dB

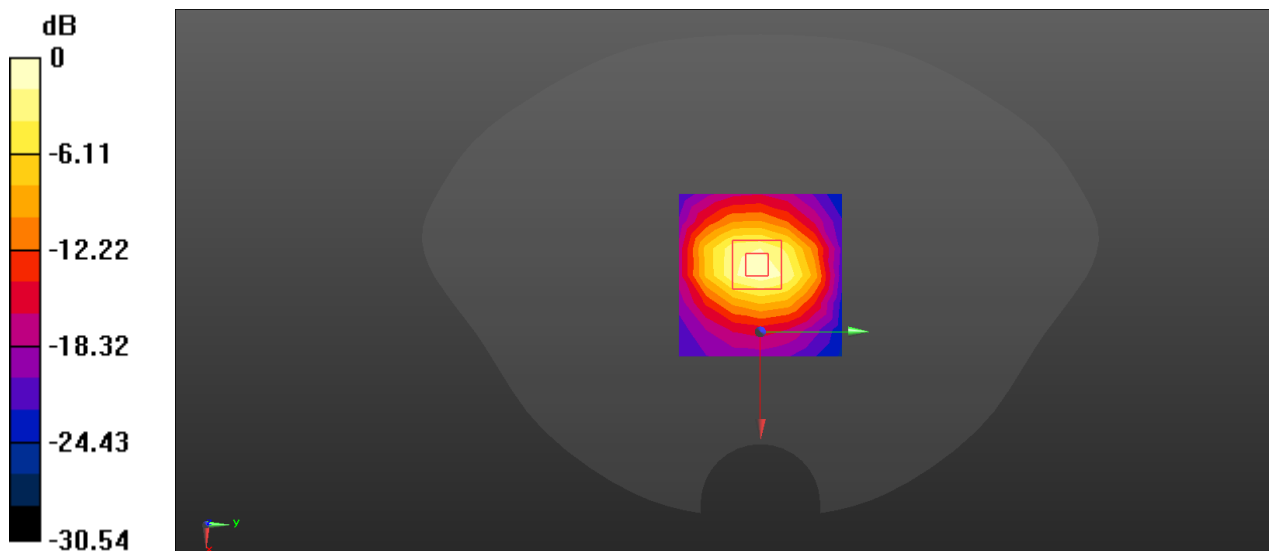
Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 5.5 W/kg; SAR(10 g) = 2.59 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.6%

Maximum value of SAR (measured) = 7.24 W/kg



$$0 \text{ dB} = 7.24 \text{ W/kg} = 8.60 \text{ dBW/kg}$$

System Check_Head_5250MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1296

Communication System: UID 0, CW (0); Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.603$ S/m; $\epsilon_r = 36.734$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(5.27, 5.27, 5.27) @ 5250 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.0 W/kg

Pin=100mW/Zoom Scan (7x7x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.12 V/m; Power Drift = -0.03 dB

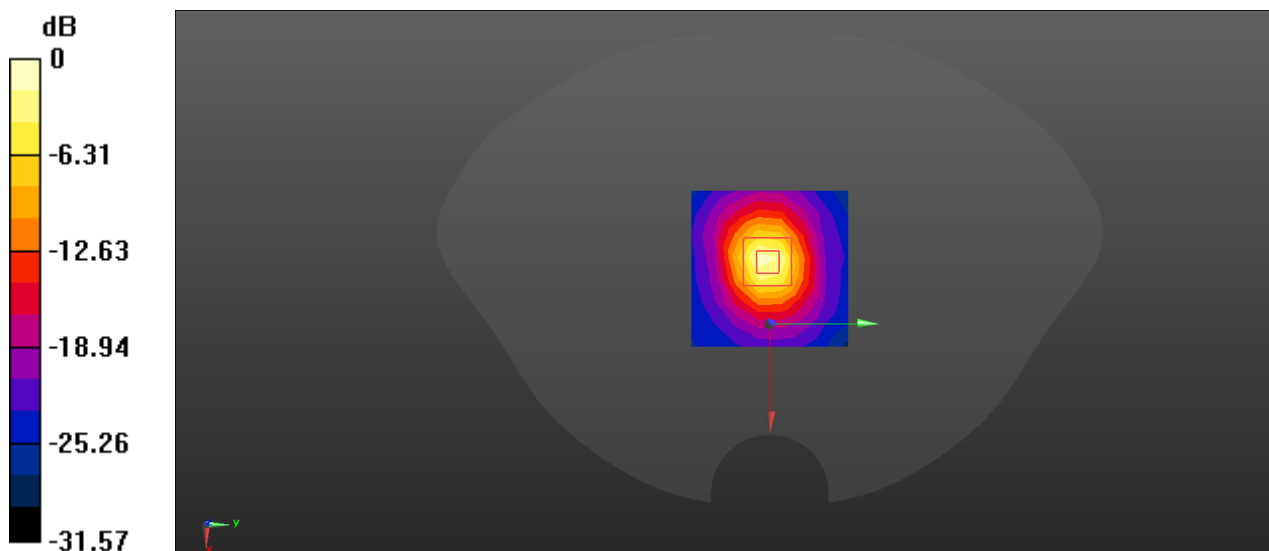
Peak SAR (extrapolated) = 29.9 W/kg

SAR(1 g) = 7.87 W/kg; SAR(10 g) = 2.26 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 66.9%

Maximum value of SAR (measured) = 12.3 W/kg



$$0 \text{ dB} = 12.3 \text{ W/kg} = 10.90 \text{ dBW/kg}$$

System Check_Head_5750MHz

DUT: Dipole D5GHzV2; Type: D5GHzV2; Serial: D5GHzV2 - SN:1296

Communication System: UID 0, CW (0); Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.185$ S/m; $\epsilon_r = 35.617$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(4.76, 4.76, 4.76) @ 5750 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Pin=100mW/Area Scan (8x8x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 10.2 W/kg

Pin=100mW/Zoom Scan (7x7x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 60.45 V/m; Power Drift = -0.06 dB

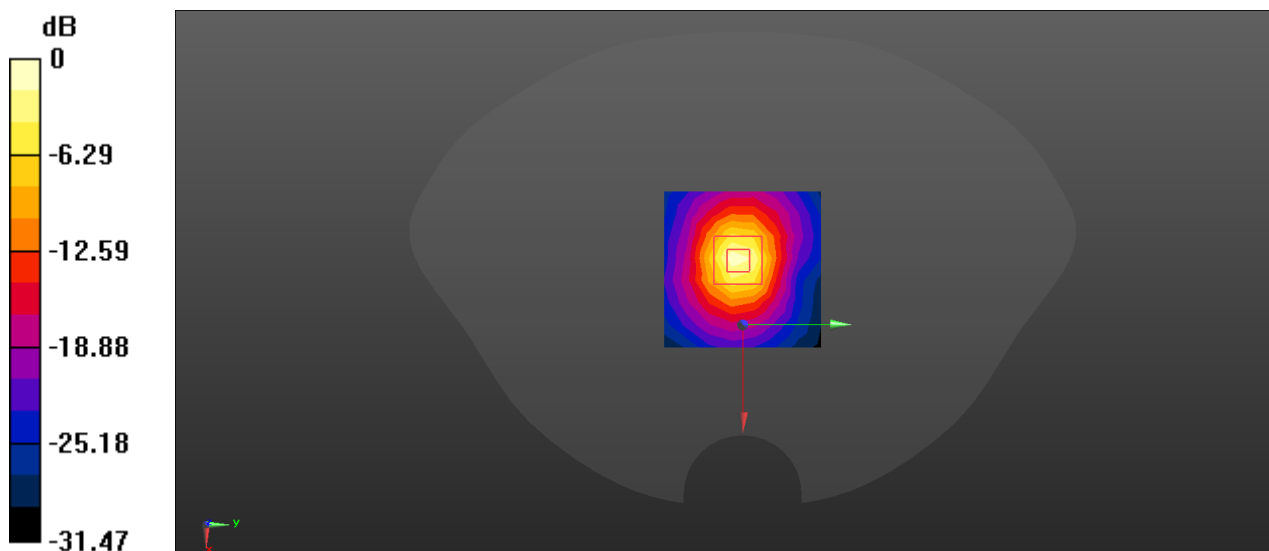
Peak SAR (extrapolated) = 31.9 W/kg

SAR(1 g) = 7.58 W/kg; SAR(10 g) = 2.17 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

Ratio of SAR at M2 to SAR at M1 = 63.5%

Maximum value of SAR (measured) = 11.7 W/kg



$$0 \text{ dB} = 11.7 \text{ W/kg} = 10.68 \text{ dBW/kg}$$

EUT TEST STRATEGY AND METHODOLOGY

Dongle Testing Procedures

Test all USB orientations [see figure below: (A) Horizontal-Up, (B) Horizontal-Down, (C) Vertical-Front, and (D) Vertical-Back] with a device-to-phantom separation distance of 5 mm or less, according to KDB Publication 447498 D01 requirements. These test orientations are intended for the exposure conditions found in typical laptop/notebook/netbook or tablet computers with either horizontal or vertical USB connector configurations at various locations in the keyboard section of the computer. Current generation portable host computers should be used to establish the required SAR measurement separation distance. The same test separation distance must be used to test all frequency bands and modes in each USB orientation. The typical Horizontal-Up USB connection (A), found in the majority of host computers, must be tested using an appropriate host computer. A host computer with either Vertical-Front (C) or Vertical-Back (D) USB connection should be used to test one of the vertical USB orientations. If a suitable host computer is not available for testing the Horizontal-Down (B) or the remaining Vertical USB orientation, a high quality USB cable, 12 inches or less, may be used for testing these other orientations. It must be documented that the USB cable does not influence the radiating characteristics and output power of the transmitter.

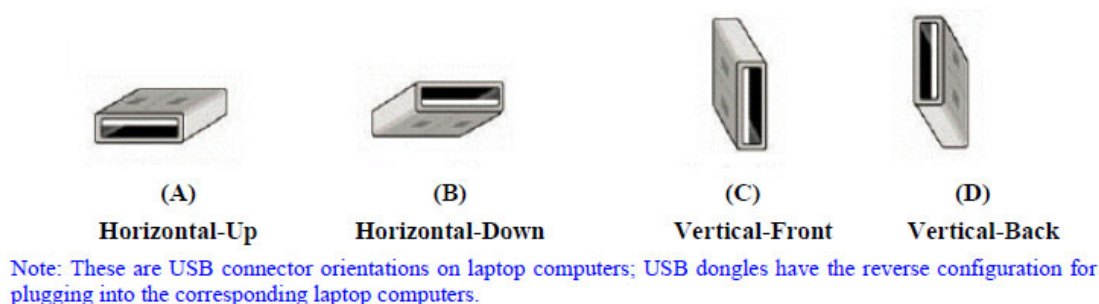


Figure 1 – USB Connector Orientations Implemented on Laptop Computers

Test Distance for SAR Evaluation

In this case the EUT (Equipment under Test) is set against from the phantom, the test distance is 5mm (Body supported)

SAR Evaluation Procedure

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.

Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:

- 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.

- 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 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 integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.

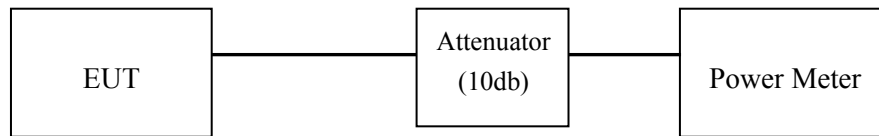
All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.

Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

CONDUCTED OUTPUT POWER MEASUREMENT

Test Procedure

The RF output of the transmitter was connected to the input of the Power Meter through Attenuator.



WLAN&BT&BLE

Maximum Target Output Power**Full Power Target power**

Mode/Band	Max Target Power(dBm)		
	Channel		
	Low	Middle	High
2.4G WLAN(802.11b)	17.5	17.5	17.5
2.4G WLAN(802.11g)	12.5	12.5	12.5
2.4G WLAN(802.11n20)	11	11	11
2.4G WLAN(802.11n40)	9	9	9
2.4G WLAN(802.11ax20)	11	11	11
2.4G WLAN(802.11ax40)	10	10	10
5.2G WLAN(802.11a)	16	16	16
5.2G WLAN(802.11ac20)	14.5	14.5	14.5
5.2G WLAN(802.11ac40)	12	/	12
5.2G WLAN(802.11ac80)	/	12	/
5.2G WLAN(802.11ax20)	14	14	14
5.2G WLAN(802.11ax40)	12	/	12
5.2G WLAN(802.11ax80)	/	11	/
5.8G WLAN(802.11a)	14.5	14.5	13
5.8G WLAN(802.11ac20)	14.5	14.5	13
5.8G WLAN(802.11ac40)	14.5	/	14.5
5.8G WLAN(802.11ac80)	/	14	/
5.8G WLAN(802.11ax20)	15.5	15.5	15.5
5.8G WLAN(802.11ax40)	15	/	15
5.8G WLAN(802.11ax80)	/	15	/
Bluetooth	3.5	3.5	3.5
BLE	3.5	3.5	3.5

Note:

1. Channels without Max Target Power are represented by /.

Test Results:***Maximum Output Power:*****WLAN 2.4G:**

Mode	Channel frequency	Data Rate	Duty cycle (%)	Conducted Average Output Power(dBm)
802.11b	2412	1Mbps	97.44	17.37
	2437			17.27
	2462			16.8
802.11g	2412	6Mbps	/	11.62
	2437			12.12
	2462			11.67
802.11n 20	2412	MCS0	/	10.13
	2437			10.59
	2462			10.18
802.11n 40	2422	MCS0	/	7.93
	2437			8.59
	2452			8.35
802.11ax 20	2412	MCS0	/	9.99
	2437			10.55
	2462			10.05
802.11ax 40	2422	MCS0	/	8.75
	2437			9.52
	2452			9.3

Note:

The test data and plots of duty cycle, please refer to the radio report: RSZA251226002-00B, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).

WLAN 5.2G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5150-5250 MHz	5180	94.15	15.54
		5200		15.62
		5240		15.53
802.11ac20	5150-5250 MHz	5180	/	14.34
		5200		14.05
		5240		13.55
802.11ac40	5150-5250 MHz	5190	/	11.51
		5230		11.67
802.11ac80	5150-5250 MHz	5210	/	11.48
802.11ax20	5150-5250 MHz	5180	/	13.81
		5200		13.62
		5240		13.33
802.11ax40	5150-5250 MHz	5190	/	11.09
		5230		11.52
802.11ax80	5150-5250 MHz	5210	/	10.72

Note:

- 1.The test data and plots of duty cycle, please refer to the radio report: RSZA251226002-00D, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).
- 2.The system support 802.11a/n ht20/n ht40/ac vht20/ ac vht40 /ac vht80/ax 20/ax40/ax 80, the n ht20/ ht40 is reduced due to having the same parameters as 802.11 ac vht20 and vht 40.

WLAN 5.8G:

Test mode	Band	Frequency (MHz)	Duty cycle (%)	Average Conducted Output Power (dBm)
802.11a	5725-5850 MHz	5745	/	14.12
		5785		13.55
		5825		12.69
802.11ac20	5725-5850 MHz	5745	/	14.12
		5785		13.73
		5825		12.65
802.11ac40	5725-5850 MHz	5755	/	14.08
		5795		13.52
802.11ac80	5725-5850 MHz	5775	/	13.69
802.11ax20	5725-5850 MHz	5745	97.09	15.2
		5785		14.93
		5825		13.85
802.11ax40	5725-5850 MHz	5755	/	14.82
		5795		14.03
802.11ax80	5725-5850 MHz	5775	/	14.49

Note:

- 1.The test data and plots of duty cycle, please refer to the radio report: RSZA251226002-00D, which was issued by Bay Area Compliance Laboratories Corp. (KunShan).
- 2.The system support 802.11a/n ht20/n ht40/ac vht20/ ac vht40 /ac vht80/ax 20/ax40/ax 80, the n ht20/ ht40 is reduced due to having the same parameters as 802.11 ac vht20 and vht 40.

Bluetooth:

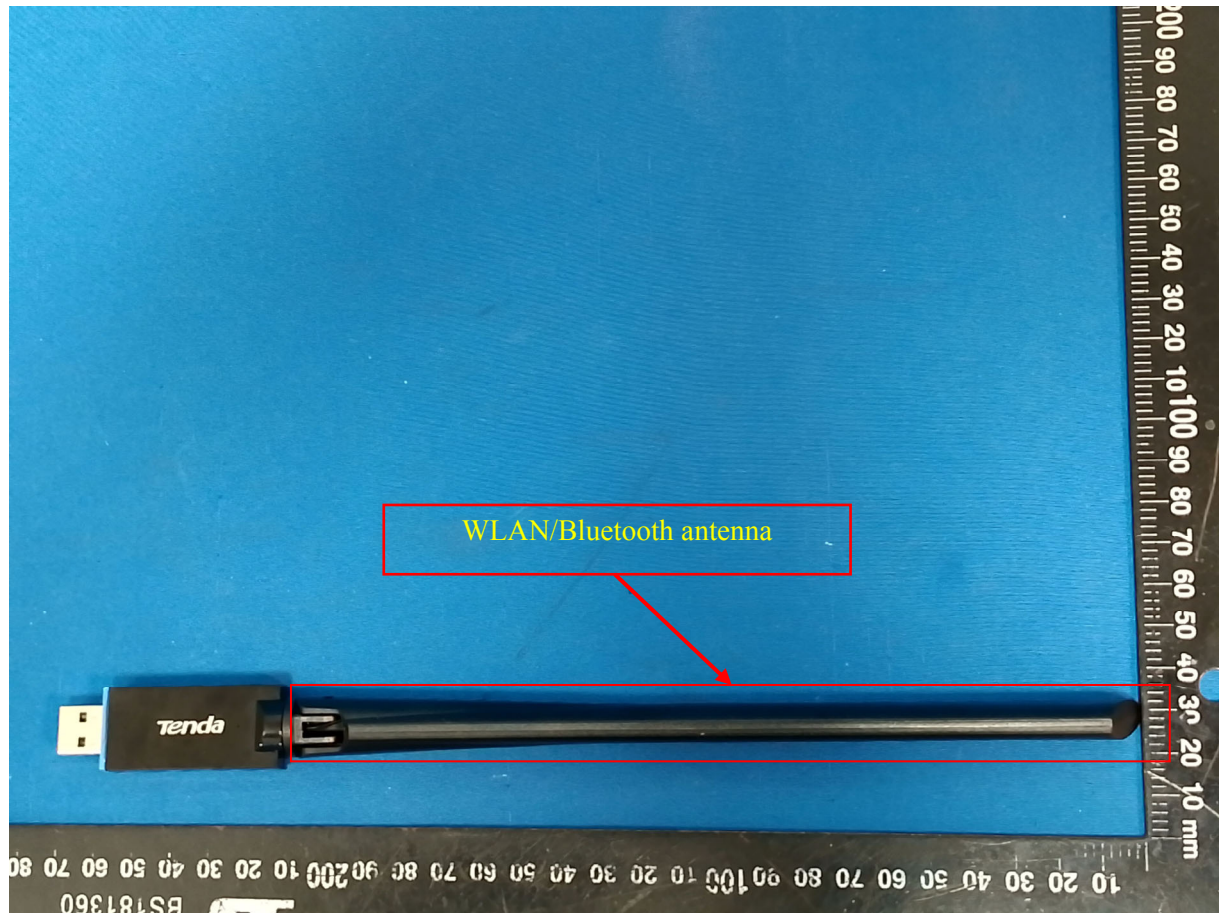
Mode	Channel frequency (MHz)	Duty cycle (%)	Max Conducted Peak Output Power (dBm)
BDR(GFSK)	2402	/	2.49
	2441		2.62
	2480		3.11
EDR($\pi/4$ -DQPSK)	2402	/	1.82
	2441		1.97
	2480		2.44
EDR(8DPSK)	2402	/	1.99
	2441		2.16
	2480		2.6

BLE:

Mode	Max ConductedPeak OutputPower (dBm)		
	Low	Middle	High
BLE (1M)	2.64	2.75	3.19
BLE (2M)	2.61	2.68	3.14

Standalone SAR test exclusion considerations

Antennas Location:



Standalone SAR Test Exclusion Considerations

Mode	Frequency (MHz)	Output Power (dBm)	Output Power (mW)	Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
WLAN 2.4G	2462	17.5	56.23	5	17.65	3	No
WLAN 5.2G	5240	16	39.81	5	18.23	3	No
WLAN 5.8G	5825	15.5	35.48	5	17.13	3	No
BT	2480	3.5	2.24	5	0.71	3	YES
BLE	2480	3.5	2.24	5	0.71	3	YES

NOTE:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

1. $f(\text{GHz})$ is the RF channel transmit frequency in GHz.
2. Power and distance are rounded to the nearest mW and mm before calculation.
3. The result is rounded to one decimal place for comparison.
4. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test Exclusion.

SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

SAR Test Data

Environmental Conditions

Temperature:	22.1-23.5 °C
Relative Humidity:	48 %
Test Date:	2026/03/06

Testing was performed by Allen sun and Jacky cai

WLAN 2.4G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN2.4G	Horizontal Up(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.326	0.35	1.6	/
WLAN2.4G	Horizontal Up With Antenna Fold(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.011	0.01	1.6	/
WLAN2.4G	Horizontal Down(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.239	0.26	1.6	/
WLAN2.4G	Vertical Front(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.371	0.40	1.6	/
WLAN2.4G	Vertical Back(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.394	0.43	1.6	1#
WLAN2.4G	Body Top(5mm)	2437	802.11b 1Mbps	17.27	17.50	1.054	1.026	0.333	0.36	1.6	/

Note:

- For 802.11b 1Mbps mode power is the largest mode of 802.11b/g/n/ax, 802.11b 1Mbps mode is selected to test.

WLAN 5.2G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.2G	Horizontal Up(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.403	0.47	1.6	/
WLAN5.2G	Horizontal Up With Antenna Fold(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.025	0.03	1.6	/
WLAN5.2G	Horizontal Down(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.414	0.48	1.6	/
WLAN5.2G	Vertical Front(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.471	0.55	1.6	2#
WLAN5.2G	Vertical Back(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.258	0.30	1.6	/
WLAN5.2G	Body Top(5mm)	5200	802.11a 6Mbps	15.62	16.00	1.091	1.062	0.333	0.39	1.6	/

Note:

1. For 802.11a 6Mbps mode power is the largest mode of 802.11a/ac/n/ax, 802.11a 6Mbps mode is selected to test.

WLAN 5.8G:

Band	EUT Position	Freq. (MHz)	Test Mode	Max. Meas. Power (dBm)	Max. Rated Power (dBm)	Scaled Factor	Duct cycle Factor	Meas. (W/Kg)	Scaled SAR (W/Kg)	Limit (W/Kg)	Plot
WLAN5.8G	Horizontal Up(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.143	0.17	1.6	/
WLAN5.8G	Horizontal Up With Antenna Fold(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.023	0.03	1.6	/
WLAN5.8G	Horizontal Down(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.151	0.18	1.6	/
WLAN5.8G	Vertical Front(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.111	0.13	1.6	/
WLAN5.8G	Vertical Back(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.107	0.13	1.6	/
WLAN5.8G	Body Top(5mm)	5785	802.11ax20 Mcs0	14.93	15.50	1.140	1.030	0.170	0.20	1.6	3#

Note:

1. When the SAR Value is less than half of the limit, testing for other channels are optional.
2. When SAR or MPE 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.
3. When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel must be used.
4. For 802.11ax 20 Mcs0 mode power is the largest mode of 802.11a/ac/n/ax, 802.11ax 20 Mcs0 mode is selected to test.

SAR Measurement Variability

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

Note: The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.

The Highest Measured SAR Configuration in Each Frequency Band

Body:

SAR probe calibration point	Frequency Band	Freq.(MHz)	EUT Position	Meas. SAR (W/kg)		Largest to Smallest SAR Ratio
				Original	Repeated	
/	/	/	/	/	/	/

Note:

1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20 .
2. The measured SAR results do not have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
3. SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements..

SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

Simultaneous Transmission:

Note: There is no multiple transmitters for the product, so simultaneous transmission need not to evaluate.

APPENDIX A SAR PLOTS OF SAR MEASUREMENT

1#_WLAN 2.4GHz_802.11b 1Mbps_Vertical Back_5mm_Ch6

Communication System: UID 0, WIFI2.4G (0); Frequency: 2437 MHz; Duty Cycle: 1:1.026

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.829$ S/m; $\epsilon_r = 39.544$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(7.43, 7.43, 7.43) @ 2437 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (6x24x1): Measurement grid: dx=12mm, dy=12mm

Maximum value of SAR (measured) = 0.571 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 12.15 V/m; Power Drift = -0.05 dB

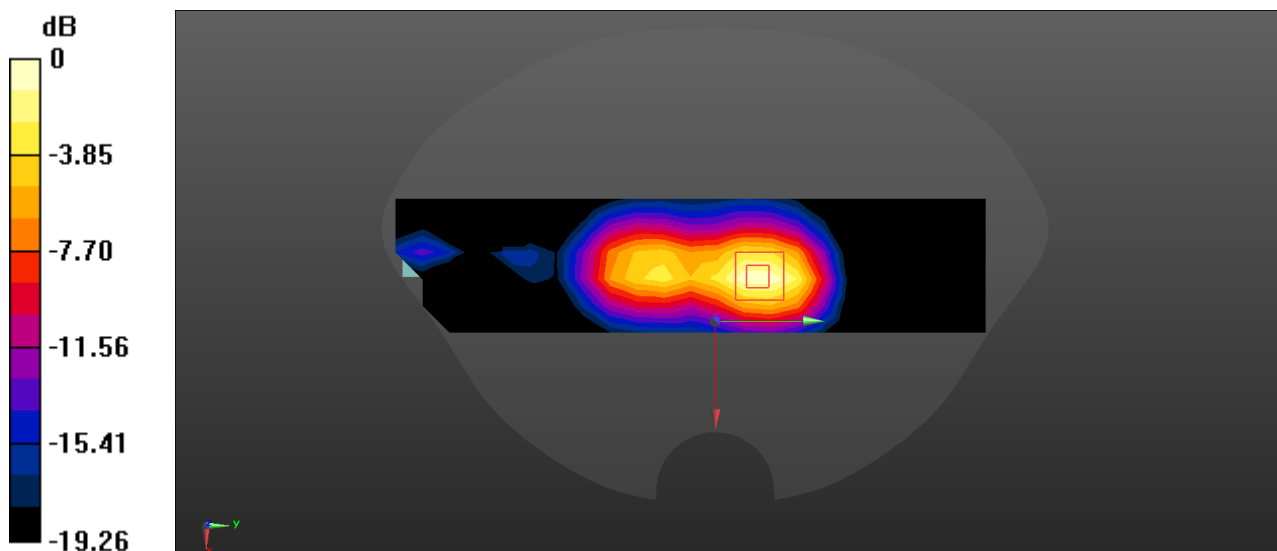
Peak SAR (extrapolated) = 0.743 W/kg

SAR(1 g) = 0.394 W/kg; SAR(10 g) = 0.198 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 0.618 W/kg



$$0 \text{ dB} = 0.618 \text{ W/kg} = -2.09 \text{ dBW/kg}$$

2#_WLAN 5.2GHz_802.11a 6Mbps_Vertical Front_5mm_Ch40

Communication System: UID 0, WIFI 5G (0); Frequency: 5200 MHz; Duty Cycle: 1:1.062

Medium parameters used: $f = 5200$ MHz; $\sigma = 4.536$ S/m; $\epsilon_r = 36.845$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(5.27, 5.27, 5.27) @ 5200 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x24x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.972 W/kg

Zoom Scan (7x7x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 7.720 V/m; Power Drift = -0.03 dB

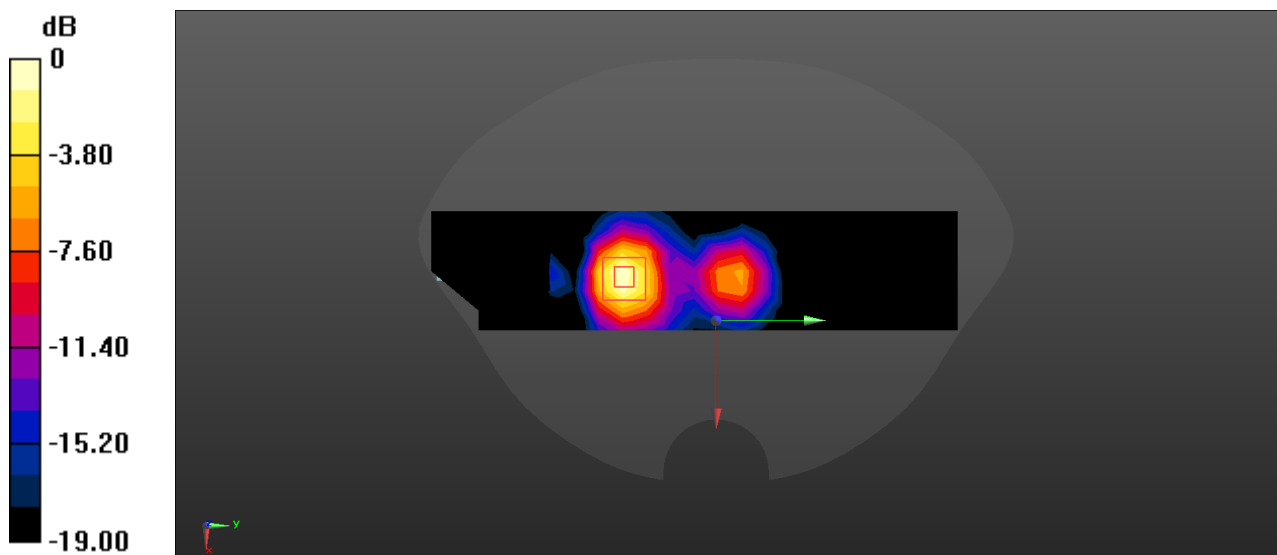
Peak SAR (extrapolated) = 1.51 W/kg

SAR(1 g) = 0.471 W/kg; SAR(10 g) = 0.172 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 37.3%

Maximum value of SAR (measured) = 1.00 W/kg



0 dB = 1.00 W/kg = 0.00 dBW/kg

3#_WLAN 5.8GHz_802.11ax20 Mcs0_Body Top_5mm_Ch157

Communication System: UID 0, WIFI 5G (0); Frequency: 5785 MHz; Duty Cycle: 1:1.030

Medium parameters used: $f = 5785$ MHz; $\sigma = 5.232$ S/m; $\epsilon_r = 35.566$; $\rho = 1000$ kg/m³

DASY5 Configuration:

- Probe: EX3DV4 - SN7557; ConvF(4.76, 4.76, 4.76) @ 5785 MHz; Calibrated: 5/16/2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn527; Calibrated: 5/16/2025
- Phantom: Twin-SAM; Type: QD 000 P41 Ax; Serial: 1963
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Area Scan (7x25x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.400 W/kg

Zoom Scan (8x8x17)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 9.015 V/m; Power Drift = -0.03 dB

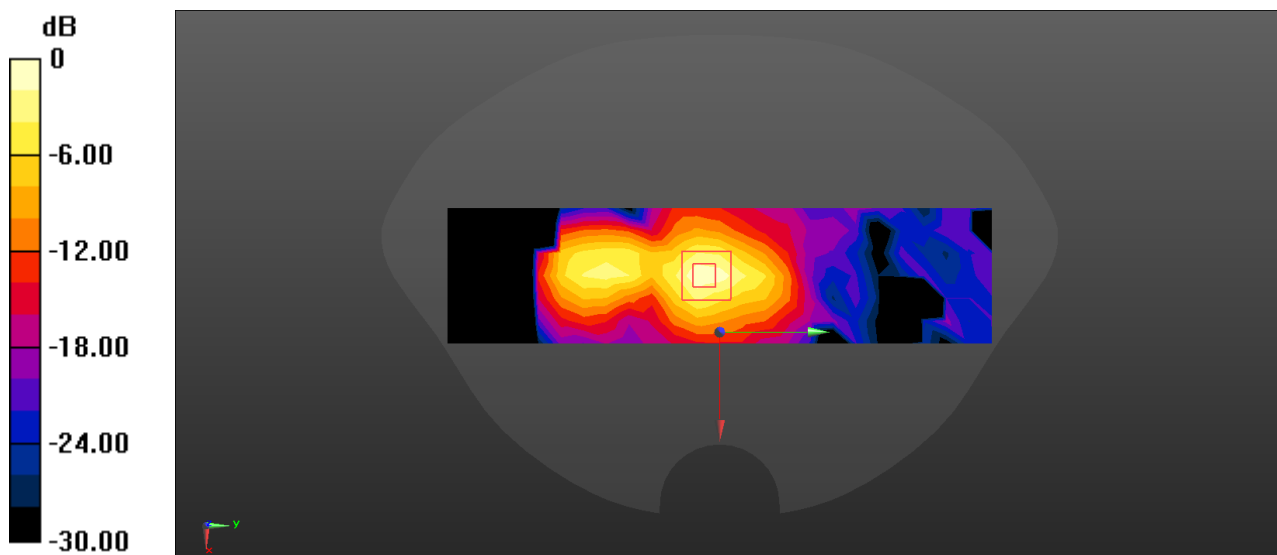
Peak SAR (extrapolated) = 0.644 W/kg

SAR(1 g) = 0.170 W/kg; SAR(10 g) = 0.058 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.402 W/kg



$$0 \text{ dB} = 0.402 \text{ W/kg} = -3.96 \text{ dBW/kg}$$

APPENDIX B MEASUREMENT UNCERTAINTY

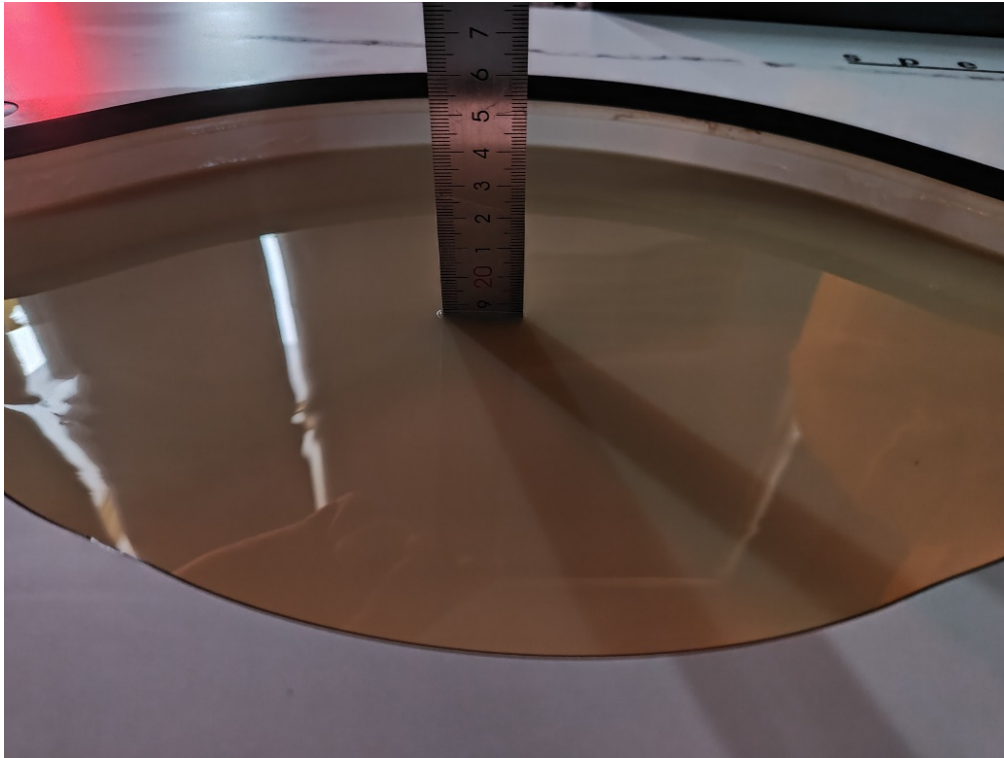
The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE 1528:2013 SAR test

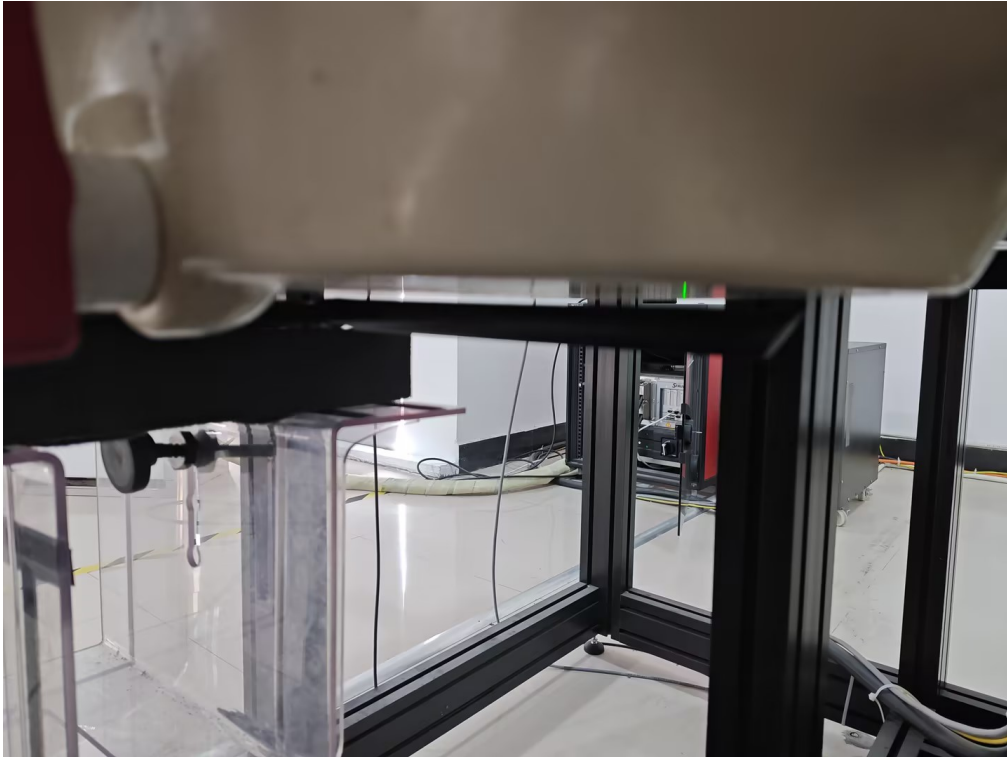
Uncertainty component	Tolerance/uncertainty ± %	Probability distribution	Divisor	ci (1 g)	ci (10 g)	Standard uncertainty ± %, (1 g)	Standard uncertainty ± %, (10 g)
Measurement system							
Probe calibration(k=1)	6.55	N	1	1	1	6.6	6.6
Axial isotropy	4.7	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.9	1.9
Hemispherical isotropy	9.6	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	3.9	3.9
Boundary effect	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Linearity	4.7	R	$\sqrt{3}$	1	1	2.7	2.7
System detection limits	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Modulation response	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Readout electronics	0.3	N	1	1	1	0.3	0.3
Response time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
Integration time	0.0	R	$\sqrt{3}$	1	1	0.0	0.0
RF ambient conditions-noise	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6
Probe positioner mech. tolerance	0.8	R	$\sqrt{3}$	1	1	0.5	0.5
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	2.0	R	$\sqrt{3}$	1	1	1.2	1.2
Test sample related							
Test sample positioning	3.5	N	1	1	1	3.5	3.5
Device holder uncertainty	4.8	N	1	1	1	4.8	4.8
Output power variation –SAR draft measurement	5.0	R	$\sqrt{3}$	1	1	2.9	2.9
SAR scaling	2.8	R	$\sqrt{3}$	1	1	1.6	1.6
Phantom and tissue parameters							
Phantom shell uncertainty– shape, thickness and permittivity	4.0	R	$\sqrt{3}$	1	1	2.3	2.3
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.9	1.6
Liquid conductivity meas.	2.5	N	1	0.78	0.71	2.0	1.8
Liquid permittivity meas.	2.5	N	1	0.23	0.26	0.6	0.7
Liquid conductivity – temperature uncertainty	1.7	R	$\sqrt{3}$	0.78	0.71	0.8	0.7
Liquid permittivity – temperature uncertainty	0.3	R	$\sqrt{3}$	0.23	0.26	0.0	0.0
Combined standard uncertainty		RSS				12.2	12.1
Expanded uncertainty (95 % confidence interval)		k=2				24.4	24.2

APPENDIX C EUT TEST POSITION PHOTOS

Liquid depth $\geq 15\text{cm}$



WLAN Horizontal-UP (5mm)



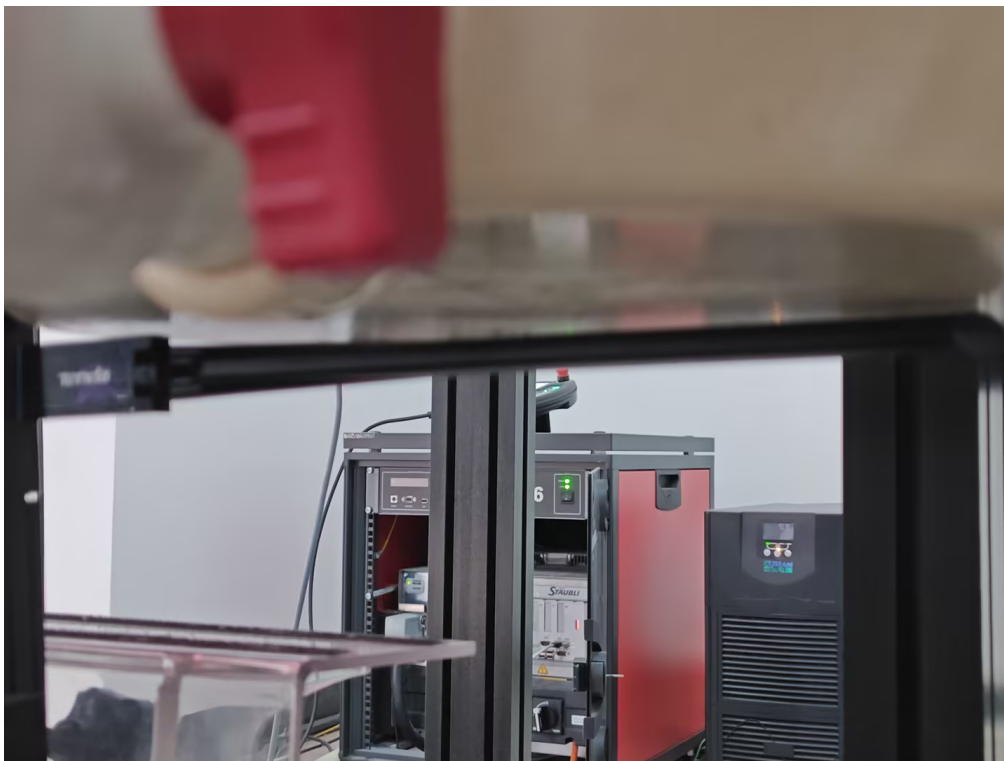
WLAN Horizontal Up With Antenna Fold (5mm)



WLAN Horizontal Down (5mm)



WLAN Vertical Front (5mm)



WLAN Vertical Back (5mm)



WLAN Body Top (5mm)



APPENDIX D CALIBRATION CERTIFICATES

Please Refer to the Attachment.

APPENDIX E DIPOLE INTERMEDIATE CHECK

Please Refer to the Attachment.

Declarations

1. The laboratory is not responsible for the authenticity of any information provided by the applicant. Information from the applicant that may affect test results is marked with “★”.
2. The test data was only valid for the test sample(s).
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor $k=2$ with the 95.45% confidence interval.
6. This report may contain standards and test items that are not covered by the accreditation scope and shall be marked with an asterisk “▲”.

******* END OF REPORT *******