
SAR Test Report

Report No.: AGC13372240603FH01

FCC ID : 2A30ORB48P

PRODUCT DESIGNATION : Two Way Radio

BRAND NAME : RETEVIS

MODEL NAME : RB48 Plus

APPLICANT : Shenzhen Ysair Technology Co., LTD

DATE OF ISSUE : Jul. 30, 2024

STANDARD(S) : IEEE Std. 1528:2013
FCC 47 CFR Part 2§2.1093
IEEE Std C95.1™-2005

REPORT VERSION : V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Jul. 30, 2024	Valid	Initial Release

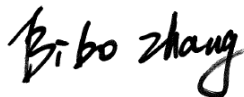
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Test Report	
Applicant Name	Shenzhen Ysair Technology Co., LTD
Applicant Address	Room 403, 4th Floor, Building 4, Yunli intelligent Park, No. 3 Changfa Middle Road, Yangmei Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer Name	Shenzhen Ysair Technology Co., LTD
Manufacturer Address	Room 403, 4th Floor, Building 4, Yunli intelligent Park, No. 3 Changfa Middle Road, Yangmei Community, Bantian Street, Longgang District, Shenzhen, China
Factory Name	N/A
Factory Address	N/A
Product Designation	Two Way Radio
Brand Name	RETEVIS
Model Name	RB48 Plus
EUT Voltage	DC 7.4 V
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005
Date of receipt of test item	Jun. 24, 2024
Test Date	Jul. 02, 2024
Report Template	AGCRT- US -PTT/SAR (2021-04-20)

Note: The results of testing in this report apply to the product/system which was tested only.

Prepared By



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Jul. 30, 2024

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Jul. 30, 2024

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Jul. 30, 2024

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Highest Report standalone SAR Summary (50% duty cycle)

Frequency Band	Separation	Highest Reported 1g-SAR(W/kg)	
		Face Up (with 25mm separation)	Back Touch with all accessories
462.5625-462.7125MHz(5W)	12.5KHz	1.107	1.254
	25KHz	0.760	1.031
467.5625-467.7125MHz(0.5W)	12.5KHz	0.100	0.124
467.5500-467.7250MHz(5W)	12.5KHz	1.105	1.371
	25KHz	0.807	1.008

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure environment limits(1.6W/kg) specified in 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1, and had been tested in accordance with measurement methods and procedures specified in IEEE 1528-2013 and the following specific FCC Test Procedures:

KDB 447498 D01 General RF Exposure Guidance v06

KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

KDB 643646 D01 SAR Test for PTT Radios v01r03

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2. GENERAL INFORMATION

2.1. EUT Description

General Information	
Product Name	Two Way Radio
Test Model	RB48 Plus
Hardware Version	Ver1.0
Software Version	00C146E1
Exposure Category	General Population/Uncontrolled Environments
Modulation Type	FM
TX Frequency Range	462.5625-462.7125MHz(5W); 467.5625-467.7125MHz(0.5W); 462.5500-462.7250MHz(5W); 467.5500-467.7250MHz(5W);
Rated Power	5W/0.5W (It was fixed by the manufacturer, any individual can't arbitrarily change it)
Max. Output Power	5W:36.25dBm, 0.5W:26.98dBm,
Channel Spacing	12.5 KHz& 25 KHz
Antenna Type	Detachable
Antenna Gain	1.2dBi
Body-Worn Accessories	Belt Clip and headset
Face-Head Accessories	None
Battery Type (s) Tested	DC 7.4V 2000mAh by battery

Note: 1. The sample used for testing is end product.

2. The test sample has no any deviation to the test method of standard mentioned in page 1.

Product	Type
	<input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical Prototype

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3. SAR MEASUREMENT SYSTEM

3.1. The DASY5 system used for performing compliance tests consists of following items




- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE 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
- A dosimetric probe equipped with an optical surface detector system.
- 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.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- Phantoms, device holders and other accessories according to the targeted measurement.

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3.2. DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 etc.) Under ISO17025. The calibration data are in Appendix D.

Isotropic E-Field Probe Specification


Model	ES3DV3-SN:3337	
Manufacture	SPEAG	
frequency	0.15GHz-0.45 GHz Linearity:±0.6%(K=2)	
Dynamic Range	0.01W/kg-100W/kg Linearity:±0.6%(K=2)	
Dimensions	Overall length:337mm Tip diameter:4mm Typical distance from probe tip to dipole centers:2mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.	

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if 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 sever 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.

DAE4

Input Impedance	200MOhm	
The Inputs	Symmetrical and floating	
Common mode rejection	above 80 dB	

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3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version form is used.

The XL robot series have many features that are important for our application:

- ☐ High precision (repeatability 0.02 mm)
- ☐ High reliability (industrial design)
- ☐ Jerk-free straight movements
- ☐ Low ELF interference (the closed metallic construction shields against motor control fields)
- ☐ 6-axis controller



3.5. Light Beam Unit

The light beam switch allows automatic “tooling” of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip.

The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0



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3.6. Device Holder

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).

Thus the device needs no repositioning when changing the angles.

The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon=3$ and loss tangent $\delta = 0.02$. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DAYS I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.



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3.8. PHANTOM SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas:

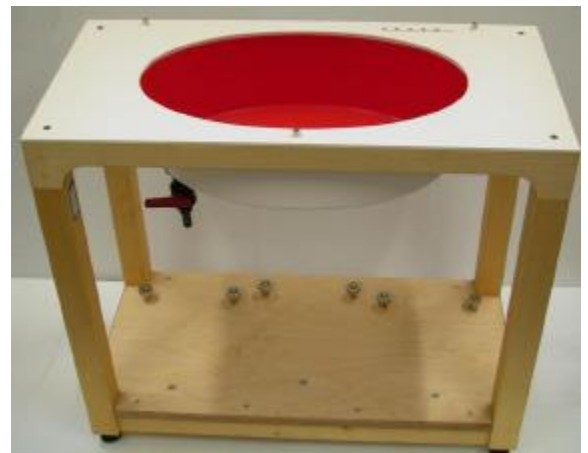
- ☐ Left head
- ☐ Right head
- ☐ Flat phantom



The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

ELI4 Phantom

- ☐ Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom



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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and occupational/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of given mass density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dV} \right)$$

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

SAR can be obtained using either of the following equations:

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

$$SAR = c_h \left. \frac{dT}{dt} \right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;

$\left. \frac{dT}{dt} \right|_{t=0}$ is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface is 2.7mm This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard 1528 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

Area Scan Parameters extracted from KDB 865664 D01 SAR Measurement 100MHz to 6GHz

	$\leq 3 \text{ GHz}$	$> 3 \text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	$5 \pm 1 \text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location	$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$	$\leq 2 \text{ GHz}: \leq 15 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 12 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 12 \text{ mm}$ $4 - 6 \text{ GHz}: \leq 10 \text{ mm}$
	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be \leq the corresponding x or y dimension of the test device with at least one measurement point on the test device.	

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g abd 10g of simulated tissue. The Zoom Scan measures points(refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

Zoom Scan Parameters extracted from KDB865664 D01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ $2 - 3 \text{ GHz}: \leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz}: \leq 5 \text{ mm}^*$ $4 - 6 \text{ GHz}: \leq 4 \text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 4 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 3 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$\leq 4 \text{ mm}$	$3 - 4 \text{ GHz}: \leq 3 \text{ mm}$ $4 - 5 \text{ GHz}: \leq 2.5 \text{ mm}$ $5 - 6 \text{ GHz}: \leq 2 \text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		$\geq 30 \text{ mm}$	$3 - 4 \text{ GHz}: \geq 28 \text{ mm}$ $4 - 5 \text{ GHz}: \geq 25 \text{ mm}$ $5 - 6 \text{ GHz}: \geq 22 \text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4 \text{ W/kg}$, $\leq 8 \text{ mm}$, $\leq 7 \text{ mm}$ and $\leq 5 \text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 10% are listed in 6.2

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) Frequency (MHz)	Water	NaCl	Sugar	HEC	Bactericide	DGBE	1,2- Propanediol	Triton X-100
450 Head (100%)	38.56	3.95	56.32	0.98	0.19	0.0	0.0	0.0

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head and body tissue dielectric parameters recommended by the IEEE Std. 1528 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)
150	52.3	0.76	52.3	0.76
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
915	41.5	0.98	41.5	0.98
1450	40.5	1.20	40.5	1.20
1610	40.3	1.29	40.3	1.29
1800 – 2000	40.0	1.40	40.0	1.40
2450	39.2	1.80	39.2	1.80
3000	38.5	2.40	38.5	2.40

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Tissue Stimulant Measurement for 450MHz				
Fr. (MHz)	Dielectric Parameters (±10%)		Tissue Temp [°C]	Test time
	Head			
	εr43.50(39.150 - 47.850)	δ[s/m]0.87(0.783 - 0.957)		
450.000	42.39	0.89	20.6	Jul. 02, 2024
462.000	41.99	0.89		
467.000	41.67	0.90		

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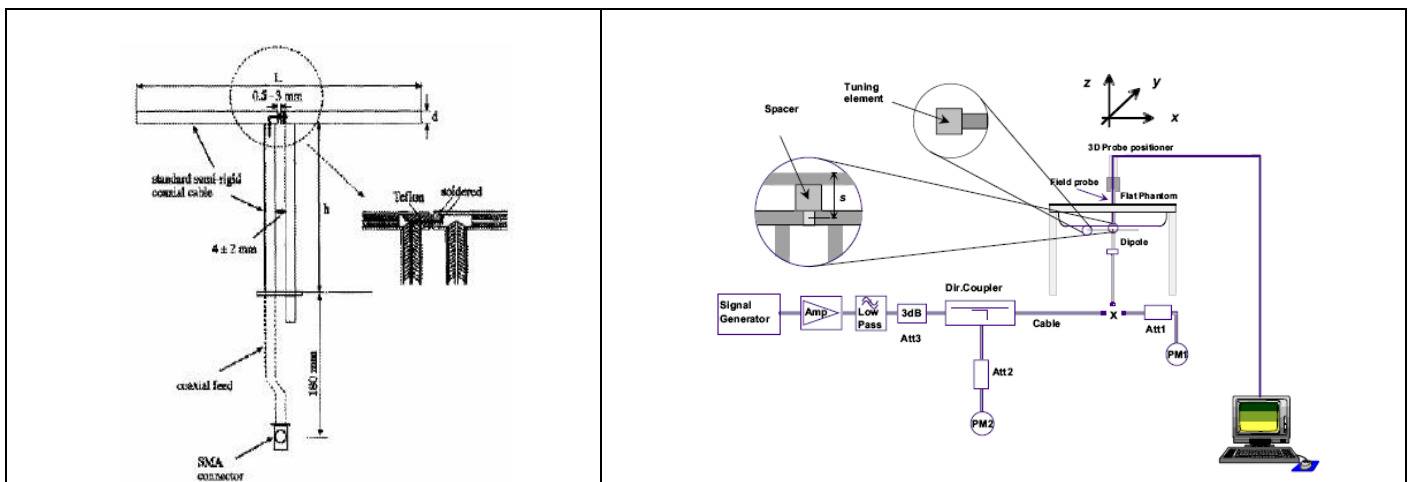
6. SAR SYSTEM CHECK PROCEDURE

6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are re-measured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

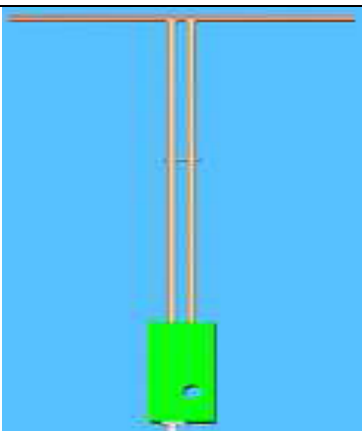
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



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6.2. SAR System Check

6.2.1. Dipoles

	<p>The dipoles used is based on the IEEE-1528 standard, and is complied with mechanical and electrical specifications in line with the requirements of IEEE. the table below provides details for the mechanical and electrical specifications for the dipoles</p>
---	--

Frequency	R/L (mm)	R/h (mm)	d (mm)
450MHz	290	166.7	6.35

6.2.2. System Check Result

System Performance Check at 450MHz								
Validation Kit: D450V3 SN:1113								
Frequency [MHz]	Target Value(W/kg)		Reference Result (± 10%)		Normalized to 1W(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
450	4.67	3.10	4.203-5.137	2.790-3.410	4.79	3.23	20.6	Jul. 02, 2024

Note:

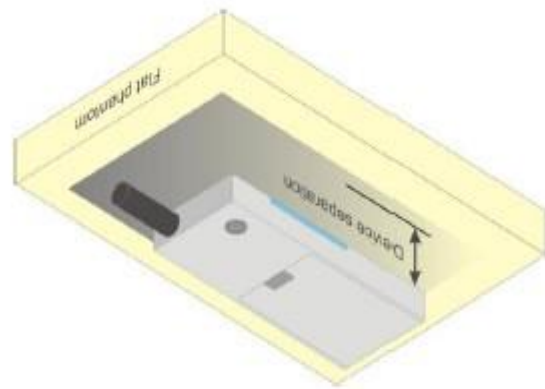
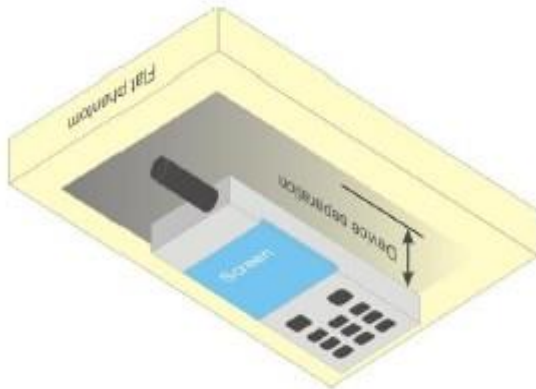
(1) We use a CW signal of 18dBm(450MHz)for system check, and then all SAR value are normalized to 1W forward power. The result must be within ±10% of target value.

7. EUT TEST POSITION

This EUT was tested in **Front Face and Rear Face**.

7.1. Body Worn Position

- (1) To position the EUT parallel to the phantom surface.
- (2) To adjust the EUT parallel to the flat phantom.
- (3) To adjust the distance between the EUT surface and the flat phantom to **25mm** while used in front of face, and body back touch with all accessories.



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8. SAR EXPOSURE LIMITS

Limits for General population/Uncontrolled exposure Environment

Type Exposure Limits	general population/uncontrolled exposure limits (W/kg)
Spatial Peak (averaged over any 1g of tissue)	1.6

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9. TEST FACILITY

Test Site	Attestation of Global Compliance (Shenzhen) Co., Ltd
Location	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Designation Number	CN1259
FCC Test Firm Registration Number	975832
A2LA Cert. No.	5054.02
Description	Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA

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10. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Software version	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2U D1/A/01	N/A	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A	N/A
E-Field Probe	Speag- ES3DV3	SN:3337	N/A	Oct. 14, 2023	Oct. 13, 2024
SAM Twin Phantom	Speag-SAM	1790	N/A	N/A	N/A
ELI4 Phantom	ELI V5.0	1210	N/A	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	N/A	May 20, 2024	May 19, 2025
SAR Software	Speag-DASY5	DASY52.8 .7.1137	N/A	N/A	N/A
Liquid	SATIMO	N/A	N/A	N/A	N/A
Dipole	Speag-D450V3	SN:1113	N/A	Feb. 14, 2024	Feb. 13, 2027
Signal Generator	Agilent-E4438C	US414613 65	V5.03	May 24, 2024	May 23, 2025
EXA Signal Analyzer	Agilent / N9010A	MY534705 04	N/A	May 28, 2024	May 27, 2025
Network Analyzer	Rhode & Schwarz ZVL6	N/A	3.2	Sep. 21, 2023	Sep. 20, 2024
Attenuator	Warison /WATT-6SR1211	S/N:WRJ3 4AYM2F1	N/A	June 06, 2024	June 05, 2025
Amplifier	AS0104-55_55	1004793	N/A	N/A	N/A
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Feb. 01, 2024	Jan. 31, 2026
Power Sensor	NRP-Z21	1137.6000 .02	N/A	Sep. 05, 2023	Sep. 04, 2024
Power Sensor	NRP-Z23	100323	N/A	Jun. 05, 2024	Jun. 04, 2025
Power Viewer	R&S	V2.3.1.0	N/A	N/A	N/A
Calibration standard parts for network sub - port	R&S/ ZV-Z132	N/A	V2.3.1.0	Nov. 11, 2023	Nov. 10, 2024

Note: Per KDB 865664 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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11. MEASUREMENT UNCERTAINTY

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table as follow.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multiplying Factor(a)	$1/k(b)$	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) Standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) k is the coverage factor

Table 13.1 Standard Uncertainty for Assumed Distribution (above table)

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

DASY Uncertainty- ES3DV3									
Measurement uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	0.53	0.53	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.3	R	$\sqrt{3}$	1	1	0.17	0.17	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	1	1	1.91	1.91	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	1	1	0	0	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	1	1	0.98	0.98	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
Test sample Related									
Test sample positioning	E.4.2	2.9	N	1	1	1	2.90	2.90	∞
Device holder uncertainty	E.4.1	3.6	N	1	1	1	3.60	3.60	∞
Output power variation—SAR drift measurement	E.2.9	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.79	11.62	
Expanded Uncertainty (95% Confidence interval)			K=2				23.58	23.25	

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DASY Uncertainty- ES3DV3									
System Check uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (± %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration drift	E.2.1	0.5	N	1	1	1	0.5	0.5	∞
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Linearity	E.2.4	0.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	0	0	0.00	0.00	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.23	0.23	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	0	0	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	2.0	N	1	1	1	2.00	2.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				7.34	7.07	
Expanded Uncertainty (95% Confidence interval)			K=2				14.67	14.14	

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DASY Uncertainty- ES3DV3									
System Validation uncertainty for Dipole averaged over 1 gram / 10 gram.									
a	b	c	d	e f(d,k)	f	g	h cxf/e	i cxg/e	k
Uncertainty Component	Sec.	Tol (±%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (±%)	10g Ui (±%)	vi
Measurement System									
Probe calibration	E.2.1	6.65	N	1	1	1	6.65	6.65	∞
Axial Isotropy	E.2.2	0.25	R	$\sqrt{3}$	1	1	0.14	0.14	∞
Hemispherical Isotropy	E.2.2	1.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Boundary effect	E.2.3	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	0.3	R	$\sqrt{3}$	1	1	0.17	0.17	∞
System detection limits	E.2.4	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation response	E.2.5	3.3	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Readout Electronics	E.2.6	0.15	N	1	1	1	0.15	0.15	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0.00	0.00	∞
Integration Time	E.2.8	1.7	R	$\sqrt{3}$	0	0	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient conditions-reflections	E.6.1	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.4	R	$\sqrt{3}$	1	1	0.37	0.37	∞
Probe positioning with respect to phantom shell	E.6.3	6.7	R	$\sqrt{3}$	1	1	3.87	3.87	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
System check source (dipole)									
Deviation of experimental dipole from numerical dipole	E.6.4	5.0	N	1	1	1	5.00	5.00	∞
Input power and SAR drift measurement	8,6.6.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	6.6	R	$\sqrt{3}$	1	1	3.81	3.81	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1	0.78	0.71	3.12	2.84	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.15	1.30	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty			RSS				11.44	11.27	
Expanded Uncertainty (95% Confidence interval)			K=2				22.88	22.54	

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12. POWER MEASUREMENT

Frequency (MHz)	Channel Separation(KHz)	Channel	ERP(dBm)
462.5625-462.7125MHz(5W)			
462.5625	12.5	1	36.19
462.6375		4	36.22
462.7125		7	36.17
462.5625	25	1	36.21
462.6375		4	36.25
462.7125		7	36.19
467.5625-467.7125MHz(0.5W)			
467.5625	12.5	8	26.93
467.6375		11	26.98
467.7125		14	26.81
462.5500-462.7250MHz(5W)			
462.5500	12.5	15	36.17
462.6500		19	36.20
462.7250		22	36.13
462.5500	25	15	36.15
462.6500		19	36.19
462.7250		22	36.16
467.5500-467.7250MHz(5W)			
467.5500	12.5	23	36.09
467.6500		27	36.11
467.7250		30	36.07
467.5500	25	23	36.08
467.6500		27	36.12
467.7250		30	36.05

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13. TEST RESULTS

13.1. SAR Test Results Summary

13.1.1. Test position and configuration

Face up SAR was performed with the device configured in the positions according to KDB 643646 and Body SAR was performed with the device configured with all accessories close to the Flat Phantom.

13.1.2. Operation Mode

- Set the EUT to maximum output power level and transmit on lower, middle and top channel with 100% duty cycle individually during SAR measurement.
- Per KDB 643646 D01, Passive body-worn and audio accessories generally do not apply to the head SAR of PTT radios. Head SAR is measured with the front surface of the radio positioned at 2.5 cm parallel to a flat phantom.

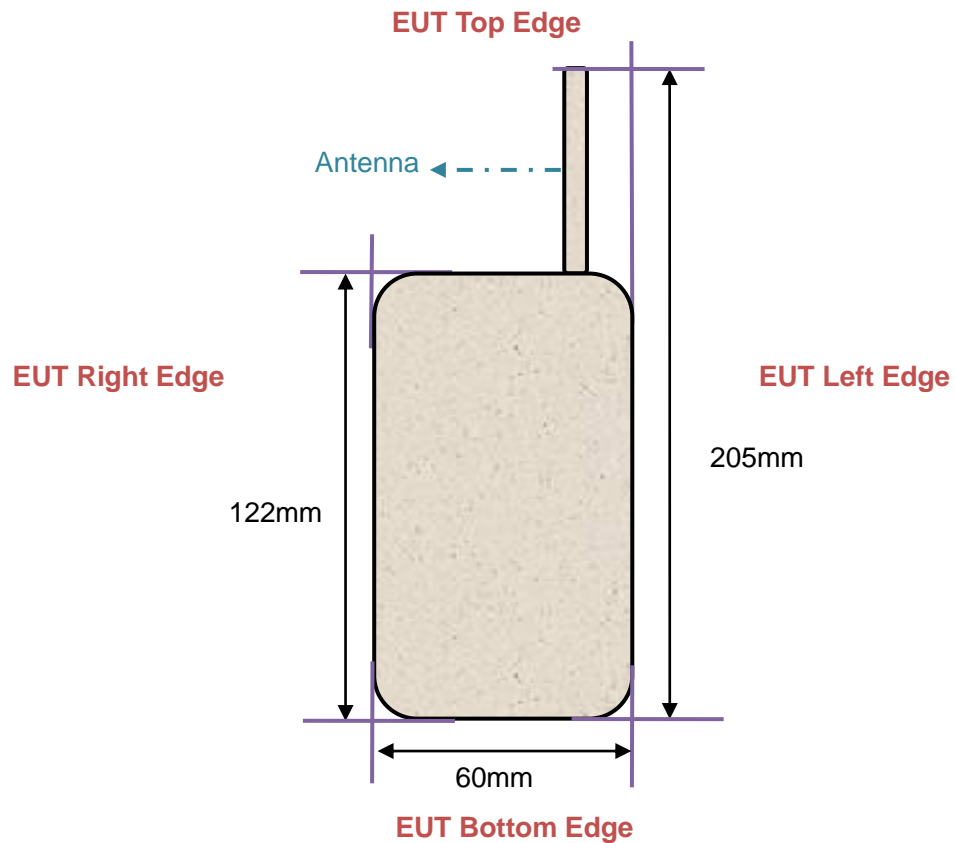
Per KDB 865664 D01 v01r04, for each frequency band, if the measured SAR is $\geq 0.8 \text{ W/kg}$, testing for repeated SAR measurement is required, that the highest measured SAR is only to be tested. When the SAR results are near the limit, the following procedures are required for each device to verify these types of SAR measurement related variation concerns by repeating the highest measured SAR configuration in each frequency band.

- a. When the original highest measured SAR is $\geq 0.8 \text{ W/kg}$, repeat that measurement once.
 - b. 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 $\geq 1.45 \text{ W/kg}$.
 - c. Perform a third repeated measurement only if the original, first and second repeated measurement is $\geq 1.5 \text{ W/kg}$ and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20 .
- Per KDB 643646 D01, Body SAR is measured with the radio placed in a body-worn accessory, positioned against a flat phantom, representative of the normal operating conditions expected by users and typically with a standard default audio accessory supplied with the radio.

When testing antennas with the default battery: the same test measurement with head part.

- The EUT only contains the Testing antenna, Standard battery and default body-worn accessory specified by customer. The earphone is only for testing

13.1.3. Antenna Location: (back view)



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13.1.4. SAR Test Results Summary

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%): 61.3				
Product: Two Way Radio									
Test Mode: Hold to Face with 2.5 cm separation & body back touch with all accessories									
Position	Freq. (MHz)	Separation (KHz)	Power Drift (±0.2dB)	SAR 1g with 100% duty Cycle (W/kg)	SAR 1g with 50% duty cycle (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
462.5625-462.7125MHz(5W)									
Face Up	462.5625	12.5	-0.12	1.53	0.765	36.99	36.19	0.945	1.6
Face Up	462.6375		-0.19	1.64	0.82	36.99	36.22	1.023	1.6
Face Up	462.7125		-0.20	1.75	0.875	36.99	36.17	1.107	1.6
Back Touch +Belt Clip + headset	462.5625		-0.17	1.96	0.98	36.99	36.19	1.225	1.6
Back Touch +Belt Clip + headset	462.6375		-0.17	2.02	1.01	36.99	36.22	1.254	1.6
Back Touch +Belt Clip + headset	462.7125		-0.16	1.88	0.94	36.99	36.17	1.178	1.6
Face Up	462.6375	25	-0.18	1.23	0.615	36.99	36.25	0.760	1.6
Back Touch +Belt Clip + headset	462.5625		-0.24	1.63	0.815	36.99	36.21	1.031	1.6
Back Touch +Belt Clip + headset	462.6375		-0.26	1.6	0.8	36.99	36.25	1.007	1.6
Back Touch +Belt Clip + headset	462.7125		-0.15	1.55	0.775	36.99	36.19	0.964	1.6
467.5625-467.7125MHz(0.5W)									
Face Up	467.6375	12.5	0.51	0.178	0.089	26.99	26.98	0.100	1.6
Back Touch +Belt Clip + headset	467.6375		0.21	0.236	0.118	26.99	26.98	0.124	1.6
467.5500-467.7250MHz(5W)									
Face Up	467.5500	12.5	-0.19	1.72	0.86	36.99	36.09	1.105	1.6
Face Up	467.6500		-0.02	1.63	0.815	36.99	36.11	1.003	1.6
Face Up	467.7250		-0.16	1.52	0.76	36.99	36.07	0.975	1.6
Back Touch +Belt Clip + headset	467.5500		-0.28	2.09	1.045	36.99	36.09	1.371	1.6
Back Touch +Belt Clip + headset	467.6500		-0.10	2.04	1.02	36.99	36.11	1.278	1.6
Back Touch +Belt Clip + headset	467.7250		-0.17	2.03	1.015	36.99	36.07	1.305	1.6
Face Up	467.6500	25	-0.24	1.25	0.625	36.99	36.12	0.807	1.6
Back Touch +Belt Clip + headset	467.5500		-0.10	1.51	0.755	36.99	36.08	0.953	1.6
Back Touch +Belt Clip + headset	467.6500		-0.16	1.55	0.775	36.99	36.12	0.982	1.6
Back Touch +Belt Clip + headset	467.7250		-0.55	1.43	0.715	36.99	36.05	1.008	1.6

Note:

- During the test, EUT power is 5 W/0.5W with 100% duty cycle;
- There is just default battery and antenna in this project;

$$3. \text{Max_ Scaled} = \text{SAR_ meas} * 10^{\frac{|\text{Drift}|}{10}} * \frac{P_{\text{max}}}{P_{\text{int}}} * \text{DC}$$

P_ max = Maximum Power(W)

P_ int = Initial Power(W)

Drift = DASY drift results(dB)

SAR_ meas=Measured 10-g or 1-g Avg.SAR(W/kg)

DC = Transmission mode duty cycle in % where applicable 50% duty cycle is applied for PTT operation.

For conservative results, the following are applied:

If P_ int > P_ max, then P_ max/P_ int =1. Drift = 1 for positive drift

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Repeated SAR								
Product: Two Way Radio								
Test Mode: body back touch with all accessories								
Position	Frequency(MHz)	Separation(KHz)	Power Drift (<±0.2dB)	Once SAR 1g with 100% duty cycle (W/kg)	Once SAR 1g with 50% duty cycle (W/kg)	Twice SAR 1g with 100% duty cycle (W/kg)	Twice SAR 1g with 50% duty cycle (W/kg)	Limit W/kg
467.5500-467.7250MHz(5W)								
Back Touch +Belt Clip + headset	467.5500	12.5	-0.05	1.98	0.99	--	--	1.6

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APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab

Test date: Jul. 02, 2024

System Check Head 450MHz

DUT: Dipole 450 MHz Type: D450V3

Communication System: CW; Communication System Band: CW; Duty Cycle: 1:1;

Frequency: 450MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.89 \text{ mho/m}$; $\epsilon_r = 42.39$; $\rho = 1000 \text{ kg/m}^3$;

Phantom Type: Elliptical Phantom; Input Power=18dBm

Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check 450MHz Head/Area Scan (8x23x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$
Maximum value of SAR (measured) = 0.353 W/kg

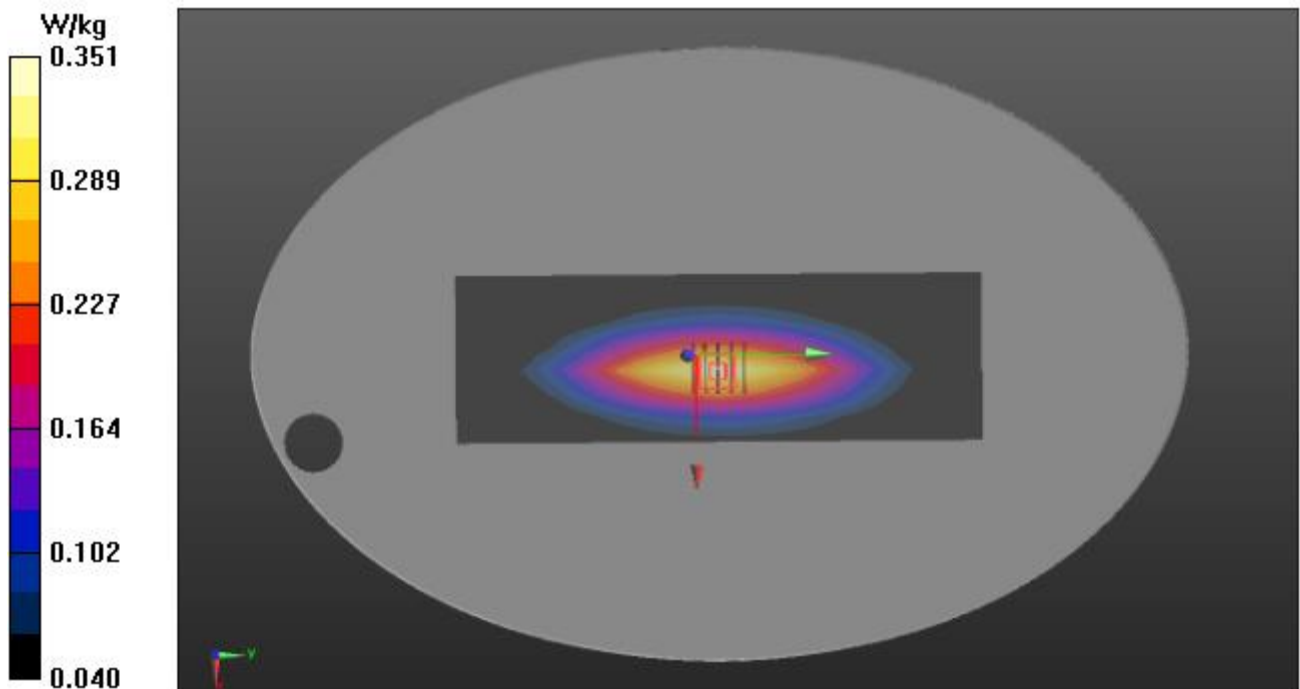
Configuration/System Check 450MHz Head/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 18.701 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 0.469 W/kg

SAR(1 g) = 0.302 W/kg; SAR(10 g) = 0.204 W/kg

Maximum value of SAR (measured) = 0.351 W/kg



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APPENDIX B. SAR MEASUREMENT DATA

462.5625-462.7125MHz(5W)

Test Laboratory: AGC Lab

Date: Jul. 02, 2024

450 High- face up 2.5cm (12.5 KHz)

DUT: Two Way Radio; Type: RB48 Plus

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 462.7125 MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.89\text{ mho/m}$; $\epsilon_r = 41.99$; $\rho = 1000\text{ kg/m}^3$;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/A-12.5K-FACE UP-25MM-HIGH/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.97 W/kg

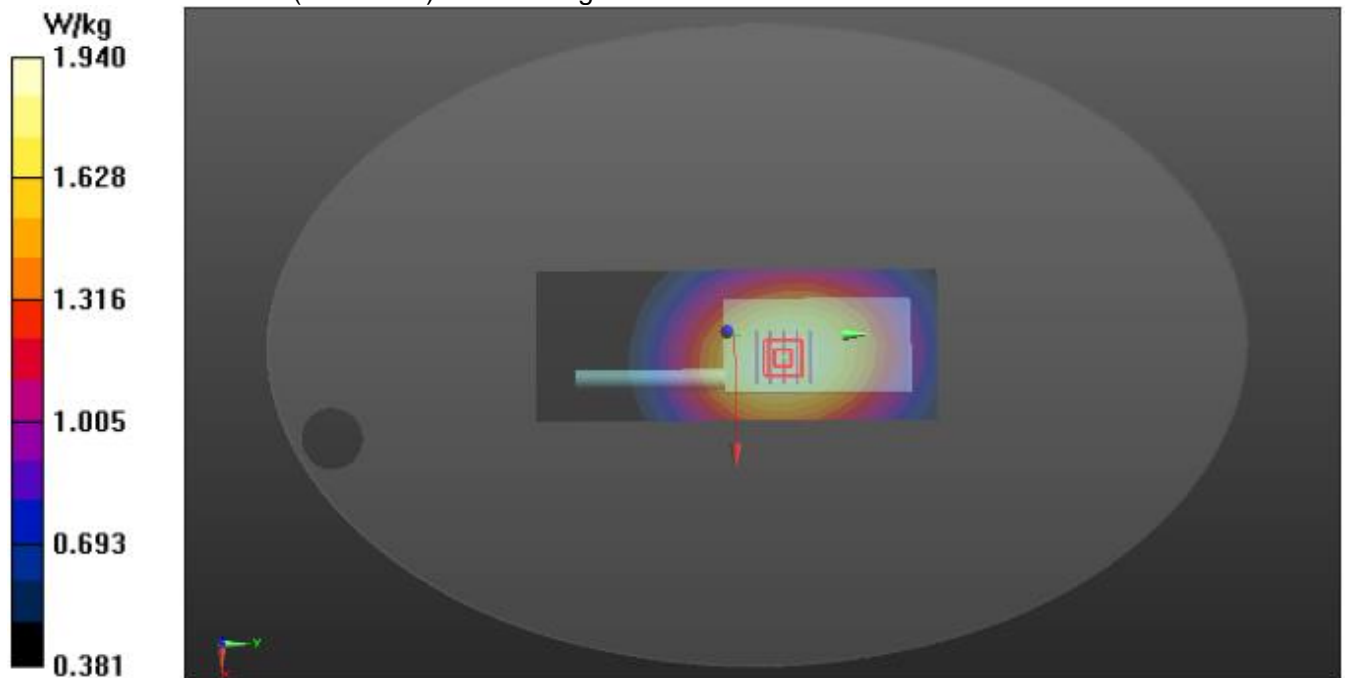
HOLD TO FACE/A-12.5K-FACE UP-25MM-HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.974 V/m; Power Drift = -0.20 dB

Peak SAR (extrapolated) = 2.40 W/kg

SAR(1 g) = 1.75 W/kg; SAR(10 g) = 1.32 W/kg

Maximum value of SAR (measured) = 1.94 W/kg



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Test Laboratory: AGC Lab
450 Mid -Body-Back with all accessories 0mm (12.5 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 462.6375 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.99$; $\rho = 1000$ kg/m ;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-12.5K-BACK with all accessories-0MM/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.27 W/kg

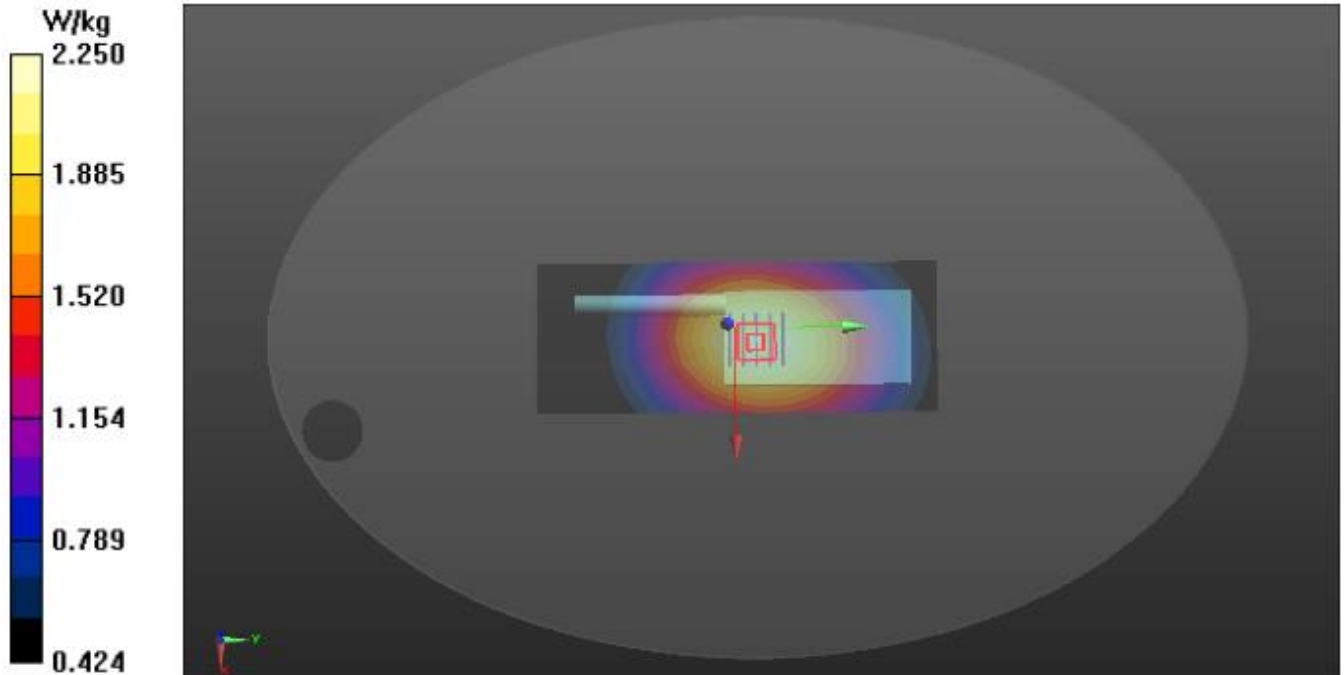
BODY/A-12.5K-BACK with all accessories-0MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.830 V/m; Power Drift = -0.17 dB

Peak SAR (extrapolated) = 2.81 W/kg

SAR(1 g) = 2.02 W/kg; SAR(10 g) = 1.52 W/kg

Maximum value of SAR (measured) = 2.25 W/kg



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Test Laboratory: AGC Lab
450 Mid- face up 2.5cm (25 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 462.6375 MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.89\text{ mho/m}$; $\epsilon_r = 41.99$; $\rho = 1000\text{ kg/m}^3$;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/A-25K-FACE UP-25MM/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.37 W/kg

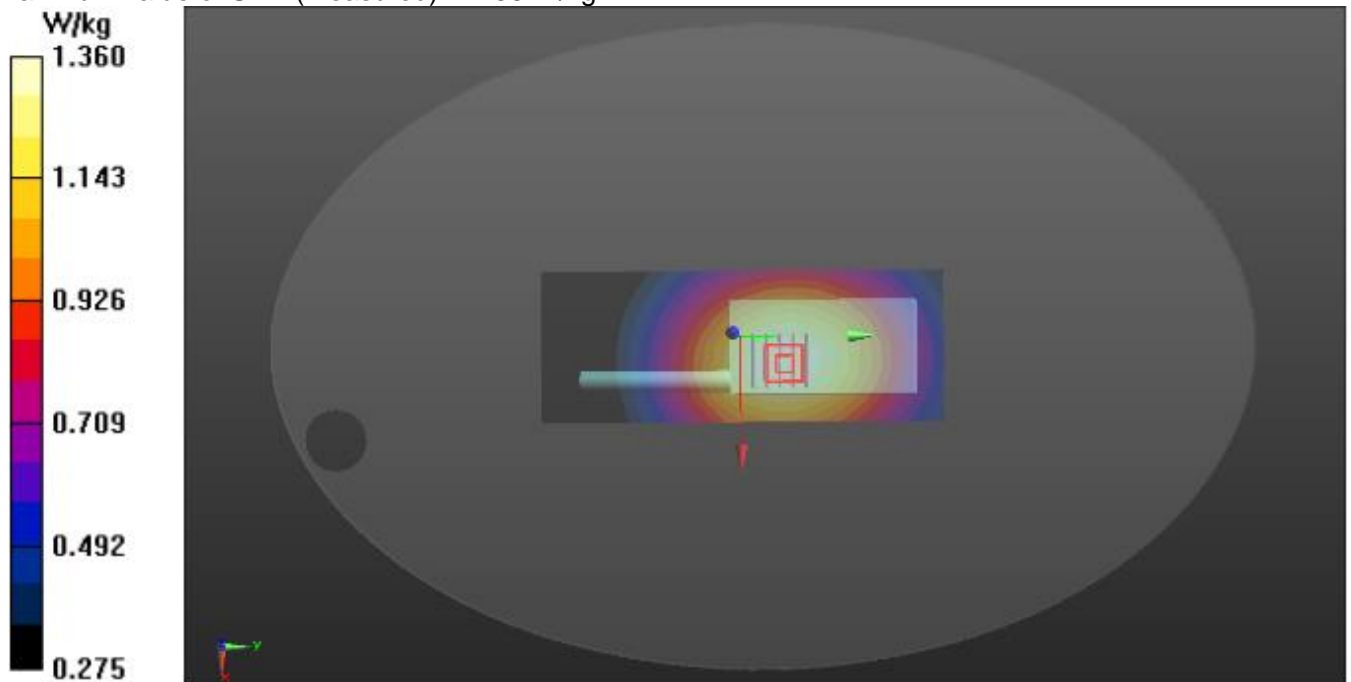
HOLD TO FACE/A-25K-FACE UP-25MM/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 40.301 V/m; Power Drift = -0.18 dB

Peak SAR (extrapolated) = 1.69 W/kg

SAR(1 g) = 1.23 W/kg; SAR(10 g) = 0.931 W/kg

Maximum value of SAR (measured) = 1.36 W/kg



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Test Laboratory: AGC Lab
450 Low -Body-Back with all accessories 0mm (25 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 462.5625 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.89$ mho/m; $\epsilon_r = 41.99$; $\rho = 1000$ kg/m;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-25K-BACK with all accessories-0MM-LOW/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.84 W/kg

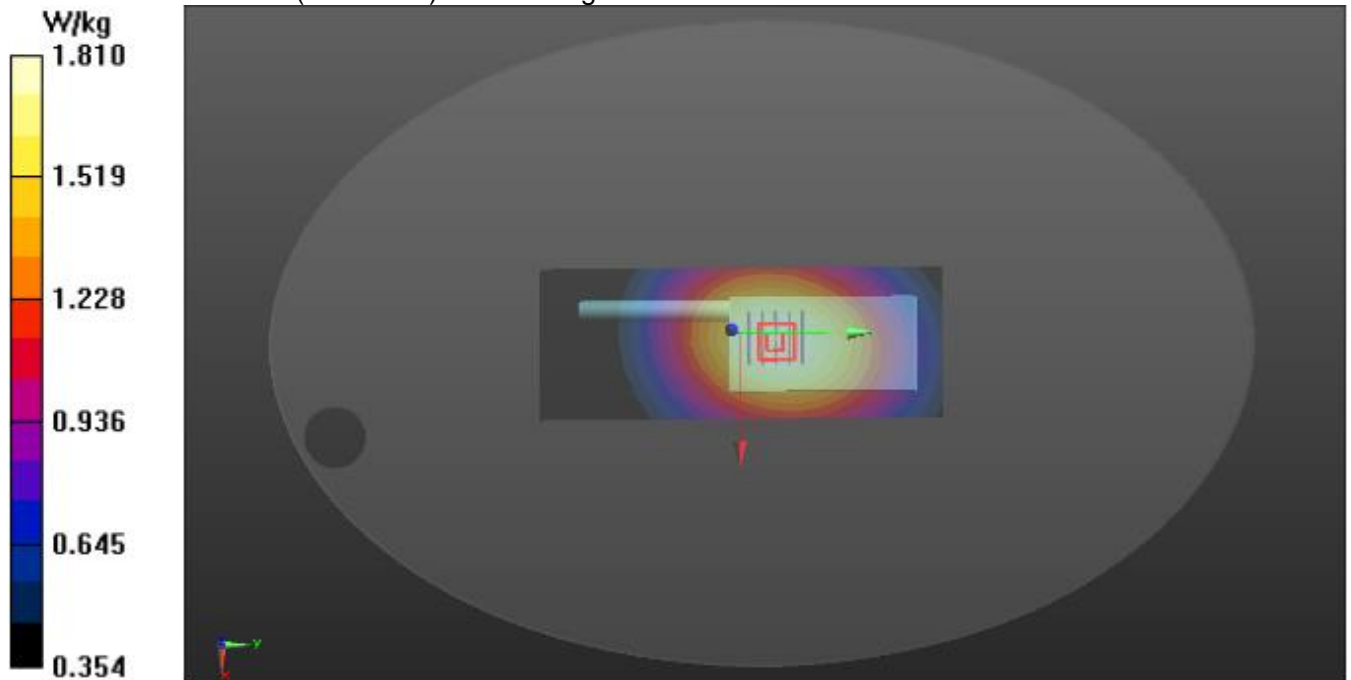
BODY/A-25K-BACK with all accessories-0MM-LOW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 47.559 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 2.24 W/kg

SAR(1 g) = 1.63 W/kg; SAR(10 g) = 1.24 W/kg

Maximum value of SAR (measured) = 1.81 W/kg



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467.5625-467.7125MHz(0.5W)

Test Laboratory: AGC Lab

Date: Jul. 02, 2024

450 Mid- face up 2.5cm (12.5 KHz)

DUT: Two Way Radio; Type: RB48 Plus

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.6375 MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.90 \text{ mho/m}$; $\epsilon_r = 41.67$; $\rho = 1000 \text{ kg/m}^3$;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/A-12.5K-FACE UP-25MM 2/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.190 W/kg

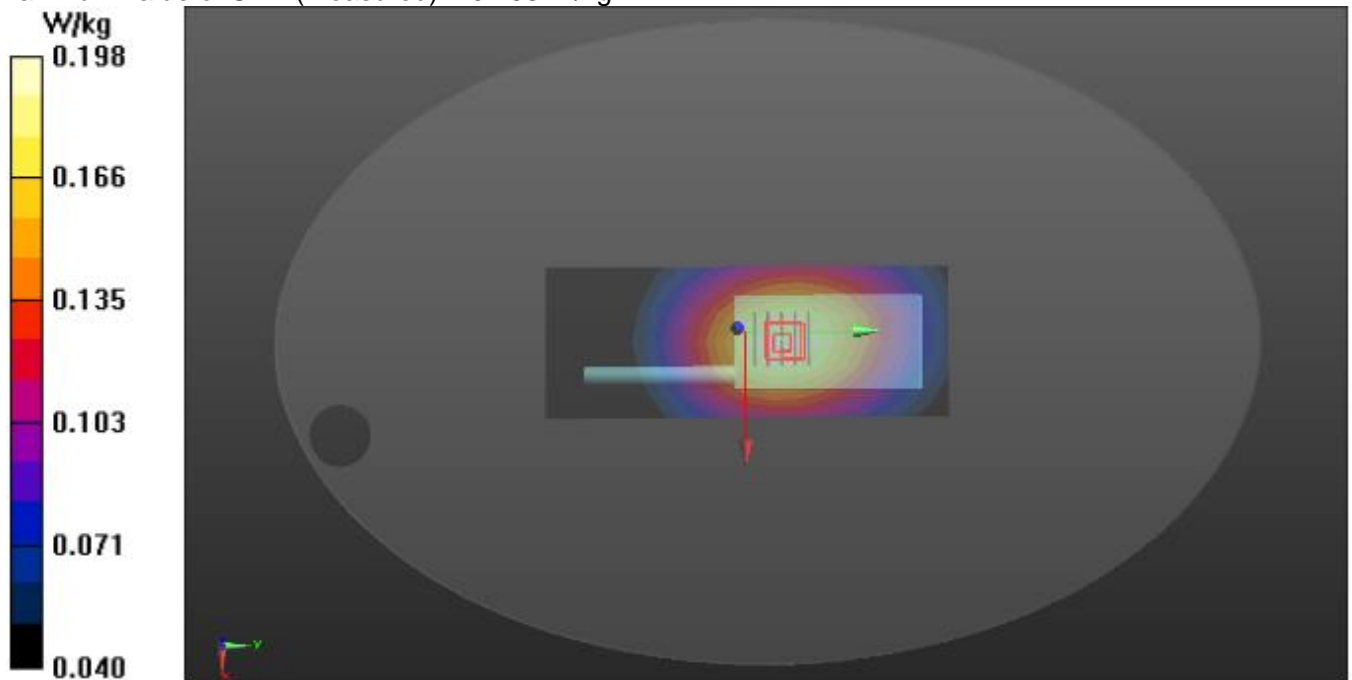
HOLD TO FACE/A-12.5K-FACE UP-25MM 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 14.538 V/m; Power Drift = 0.51 dB

Peak SAR (extrapolated) = 0.246 W/kg

SAR(1 g) = 0.178 W/kg; SAR(10 g) = 0.135 W/kg

Maximum value of SAR (measured) = 0.198 W/kg



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Test Laboratory: AGC Lab
450 Mid -Body-Back with all accessories 0mm (12.5 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.6375 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.67$; $\rho = 1000$ kg/m ;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-12.5K-BACK with all accessories-0MM 2/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.258 W/kg

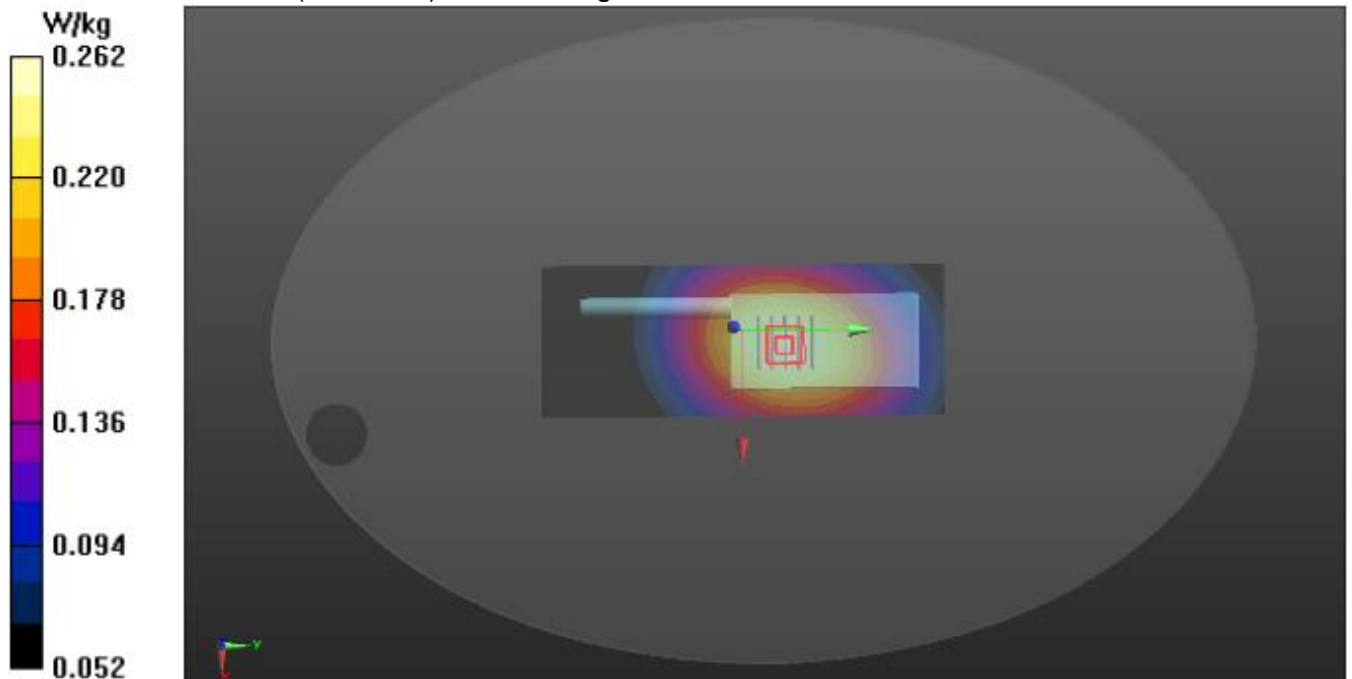
BODY/A-12.5K-BACK with all accessories-0MM 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 17.254 V/m; Power Drift = 0.21 dB

Peak SAR (extrapolated) = 0.324 W/kg

SAR(1 g) = 0.236 W/kg; SAR(10 g) = 0.179 W/kg

Maximum value of SAR (measured) = 0.262 W/kg



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467.5500-467.7250MHz(5W)

Test Laboratory: AGC Lab

Date: Jul. 02, 2024

450 Low- face up 2.5cm (12.5 KHz)

DUT: Two Way Radio; Type: RB48 Plus

Communication System: 450; Communication System Band: 4 D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.5500 MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.90\text{ mho/m}$; $\epsilon_r = 41.67$; $\rho = 1000\text{ kg/m}^3$;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/A-12.5K-FACE UP-25MM 2 2 2/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.92 W/kg

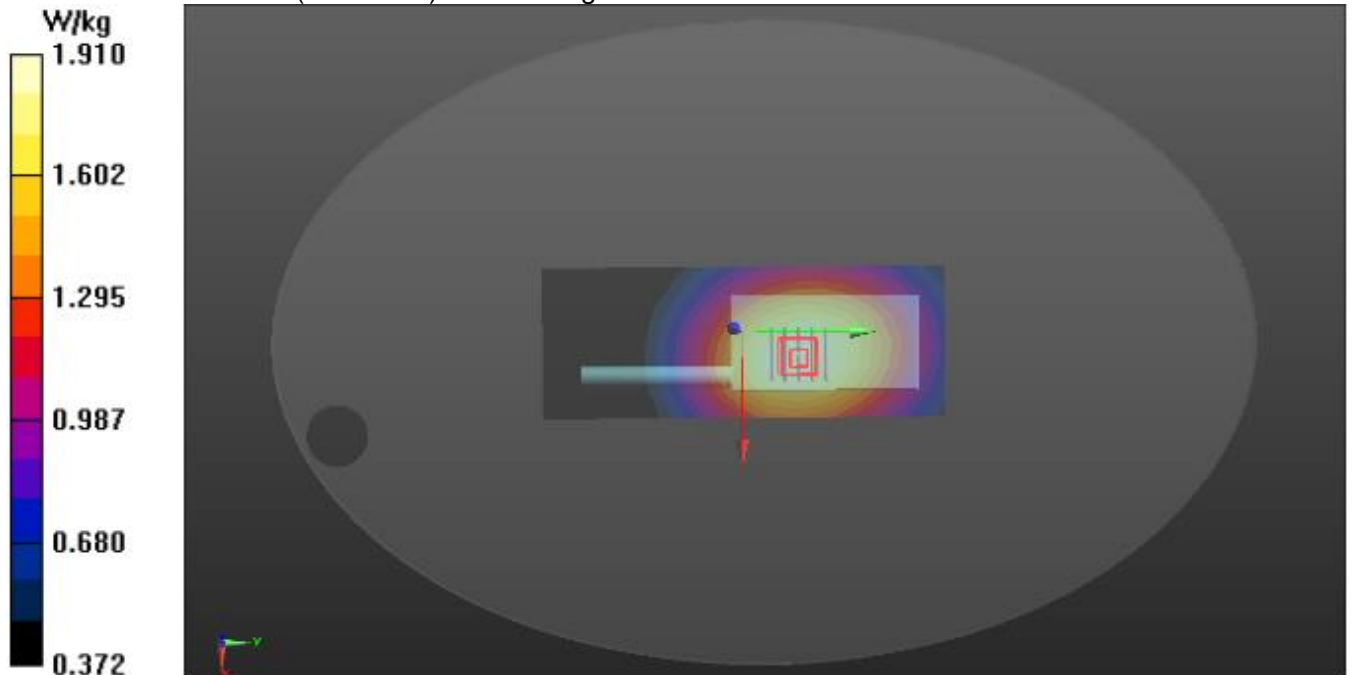
HOLD TO FACE/A-12.5K-FACE UP-25MM 2 2 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 46.454 V/m; Power Drift = -0.19 dB

Peak SAR (extrapolated) = 2.37 W/kg

SAR(1 g) = 1.72 W/kg; SAR(10 g) = 1.3 W/kg

Maximum value of SAR (measured) = 1.91 W/kg



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Test Laboratory: AGC Lab
450 Low -Body-Back with all accessories 0mm (12.5 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.5500 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.67$; $\rho = 1000$ kg/m;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-12.5K-BACK with all accessories-0MM-LOW/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.37 W/kg

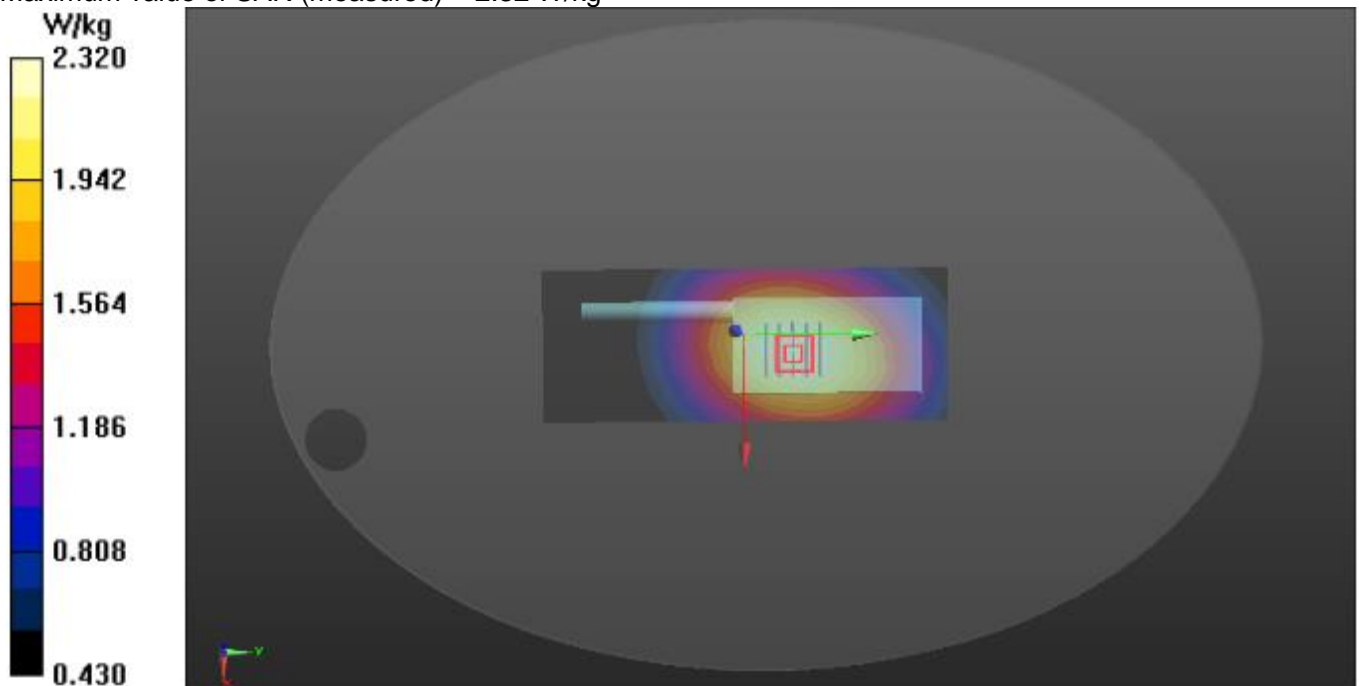
BODY/A-12.5K-BACK with all accessories-0MM-LOW/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 52.667 V/m; Power Drift = -0.28 dB

Peak SAR (extrapolated) = 2.88 W/kg

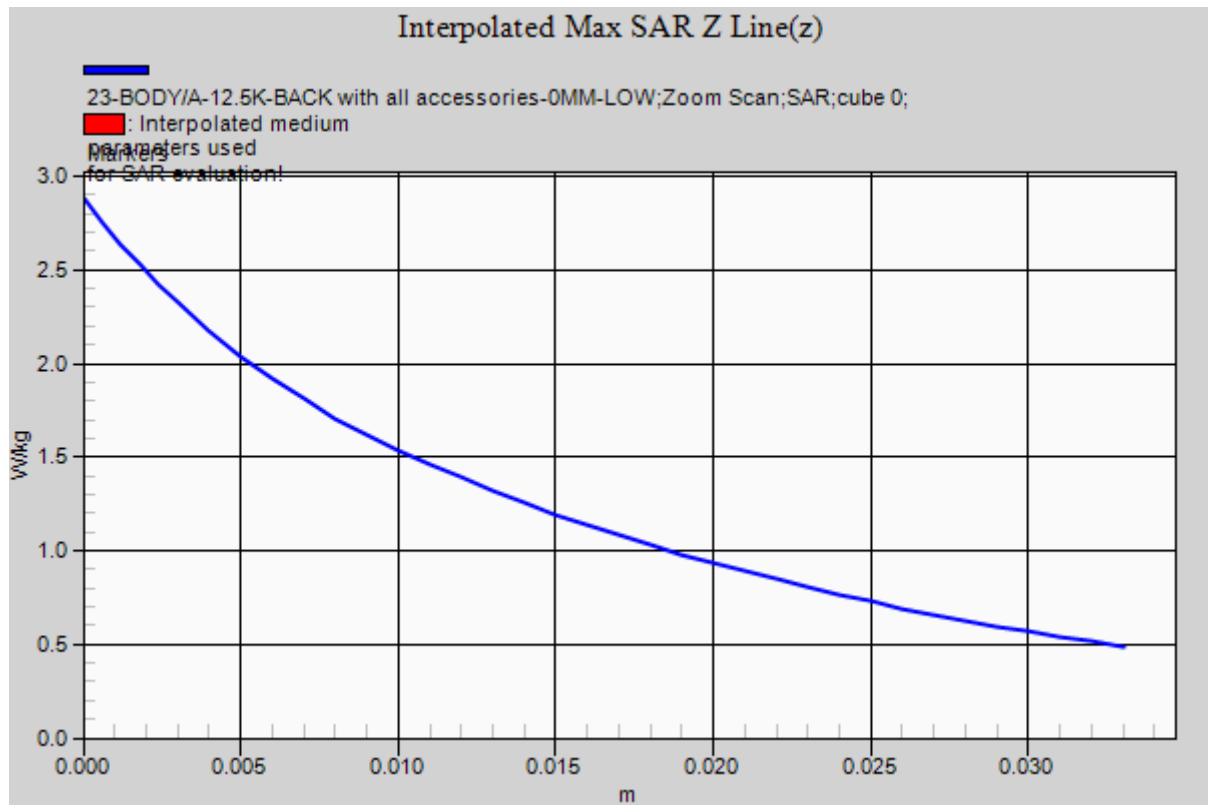
SAR(1 g) = 2.09 W/kg; SAR(10 g) = 1.57 W/kg

Maximum value of SAR (measured) = 2.32 W/kg



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Test Laboratory: AGC Lab
450 Mid- face up 2.5cm (25 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: 4 D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.6500 MHz; Medium parameters used: $f = 450\text{MHz}$; $\sigma = 0.90\text{ mho/m}$; $\epsilon_r = 41.67$; $\rho = 1000\text{ kg/m}^3$;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

HOLD TO FACE/A-25K-FACE UP-25MM 2/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.41 W/kg

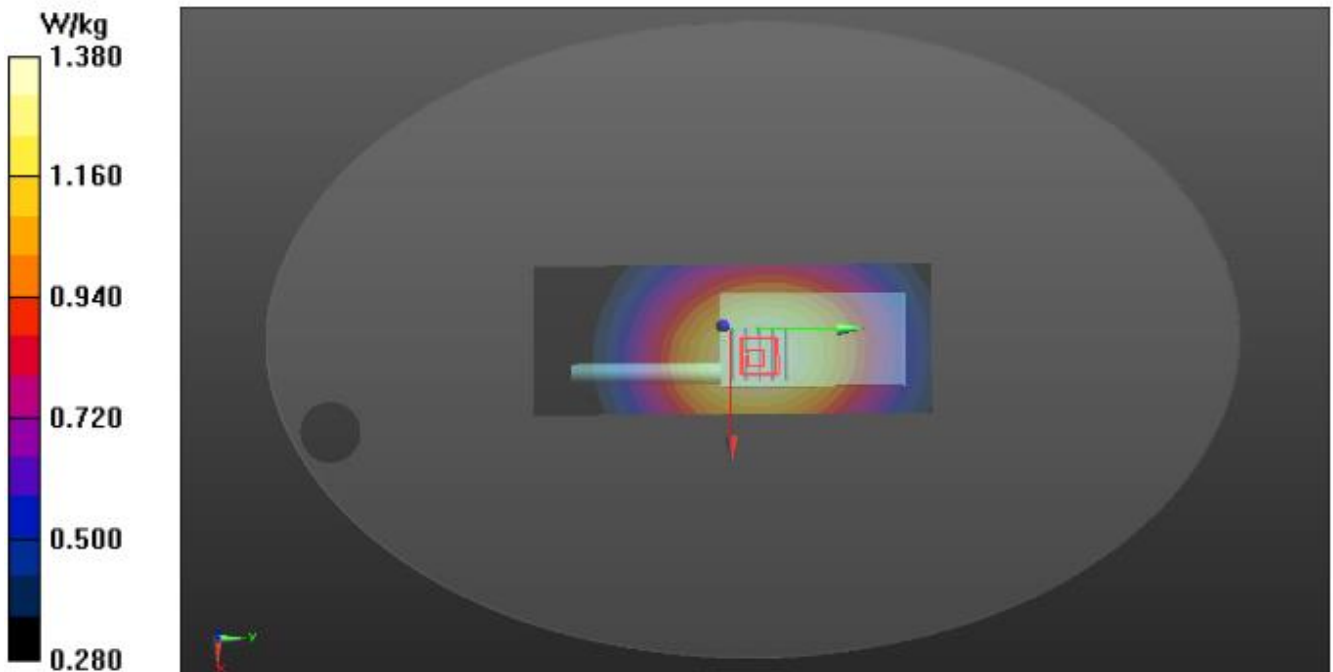
HOLD TO FACE/A-25K-FACE UP-25MM 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 41.209 V/m; Power Drift = -0.24 dB

Peak SAR (extrapolated) = 1.72 W/kg

SAR(1 g) = 1.25 W/kg; SAR(10 g) = 0.947 W/kg

Maximum value of SAR (measured) = 1.38 W/kg



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Test Laboratory: AGC Lab
450 Mid -Body-Back with all accessories 0mm (25 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.6500 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.67$; $\rho = 1000$ kg/m;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-25K-BACK with all accessories-0MM 2 2/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.74 W/kg

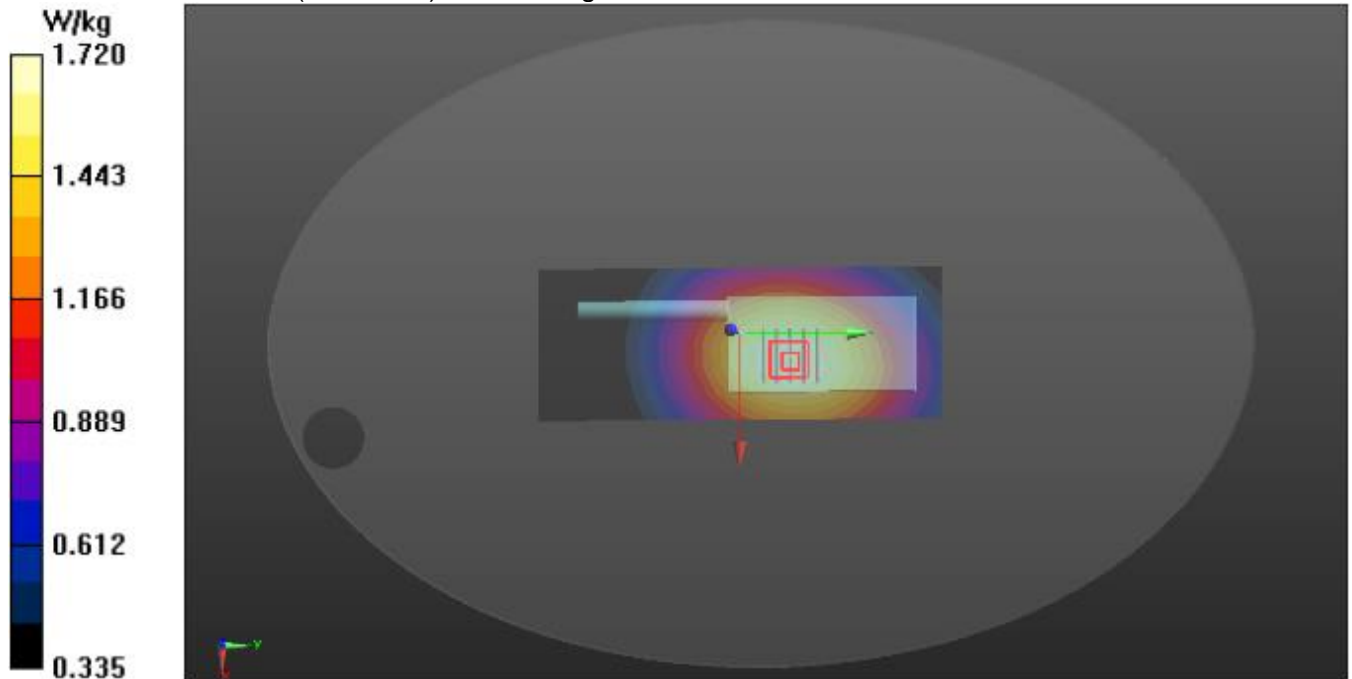
BODY/A-25K-BACK with all accessories-0MM 2 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 44.818 V/m; Power Drift = -0.16 dB

Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 1.55 W/kg; SAR(10 g) = 1.17 W/kg

Maximum value of SAR (measured) = 1.72 W/kg



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Test Laboratory: AGC Lab
450 High -Body-Back with all accessories 0mm (25 KHz)
DUT: Two Way Radio; Type: RB48 Plus

Date: Jul. 02, 2024

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.7250 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.67$; $\rho = 1000$ kg/m;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-25K-BACK with all accessories-0MM-HIGH/Area Scan (7x17x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 1.63 W/kg

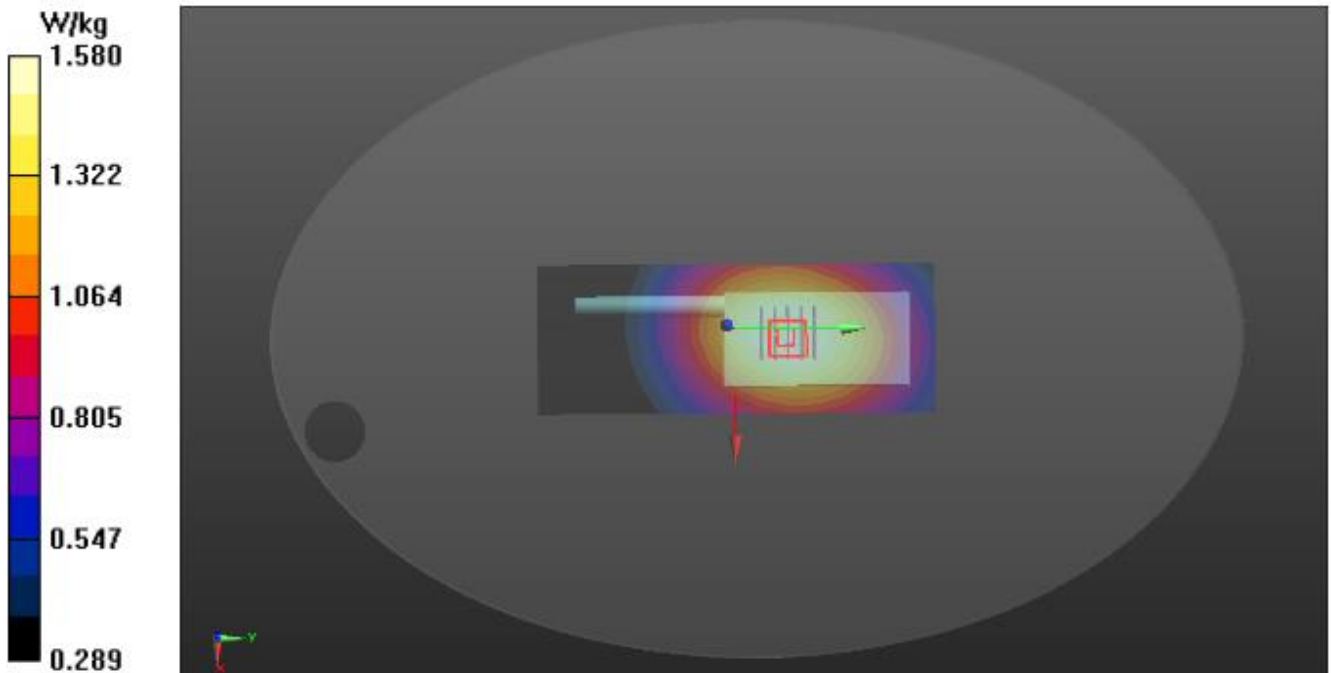
BODY/A-25K-BACK with all accessories-0MM-HIGH/Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 43.463 V/m; Power Drift = -0.55 dB

Peak SAR (extrapolated) = 1.97 W/kg

SAR(1 g) = 1.43 W/kg; SAR(10 g) = 1.08 W/kg

Maximum value of SAR (measured) = 1.58 W/kg



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Repeated SAR

467.5500-467.7250MHz(5W)

Test Laboratory: AGC Lab

Date: Jul. 02, 2024

450 Low -Body-Back with all accessories 0mm (12.5 KHz)

DUT: Two Way Radio; Type: RB48 Plus

Communication System: 450; Communication System Band: D450 (450.0 MHz); Duty Cycle: 1:1;
Frequency: 467.5500 MHz; Medium parameters used: $f = 450$ MHz; $\sigma = 0.90$ mho/m; $\epsilon_r = 41.67$; $\rho = 1000$ kg/m;
Phantom Type: Elliptical Phantom
Ambient temperature ($^{\circ}\text{C}$): 20.9, Liquid temperature ($^{\circ}\text{C}$): 20.6

DASY Configuration:

- Probe: ES3DV3-SN:3337; ConvF(7.53, 7.53, 7.53); Calibrated: Oct. 14, 2023;
- Sensor-Surface: 3mm (Mechanical Surface Detection), $z = 1.0$,
- Electronics: DAE4 SN1398; Calibrated: May 20, 2024
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1108
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/A-12.5K-BACK with all accessories-0MM-LOW-REPEAT/Area Scan (7x17x1): Measurement grid:
 $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 2.15 W/kg

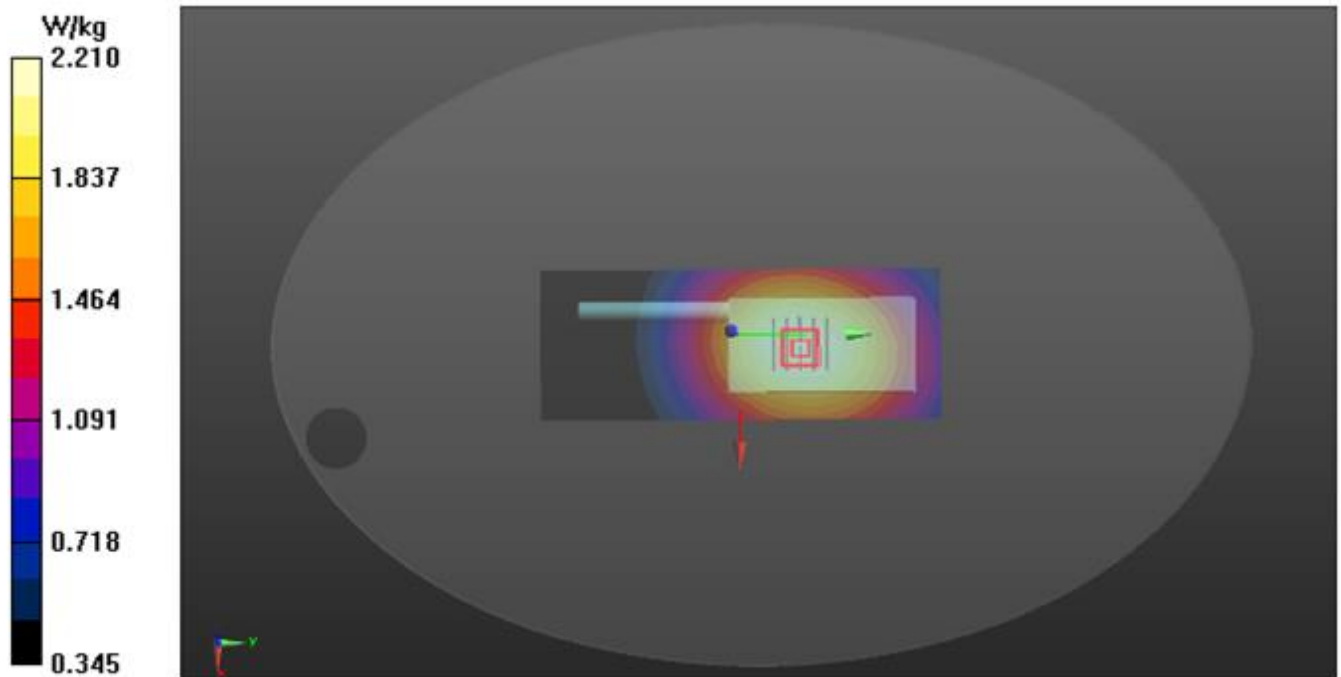
BODY/A-12.5K-BACK with all accessories-0MM-LOW-REPEAT/Zoom Scan (5x5x7)/Cube 0: Measurement grid:
 $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 49.701 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 2.80 W/kg

SAR(1 g) = 1.98 W/kg; SAR(10 g) = 1.45 W/kg

Maximum value of SAR (measured) = 2.21 W/kg



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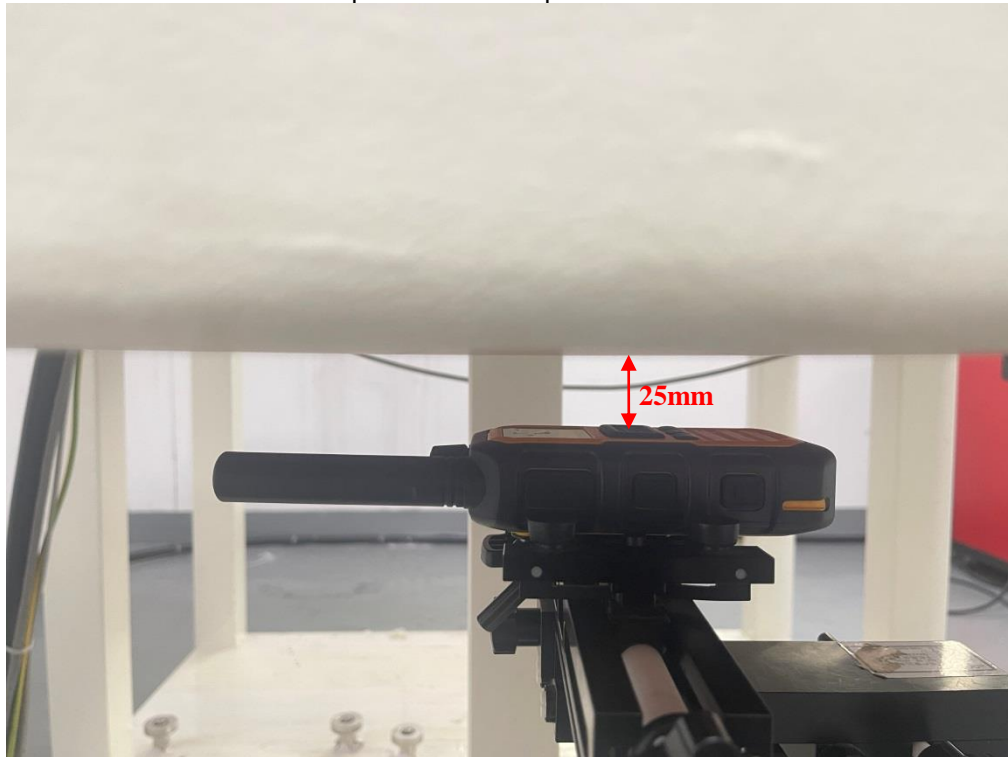
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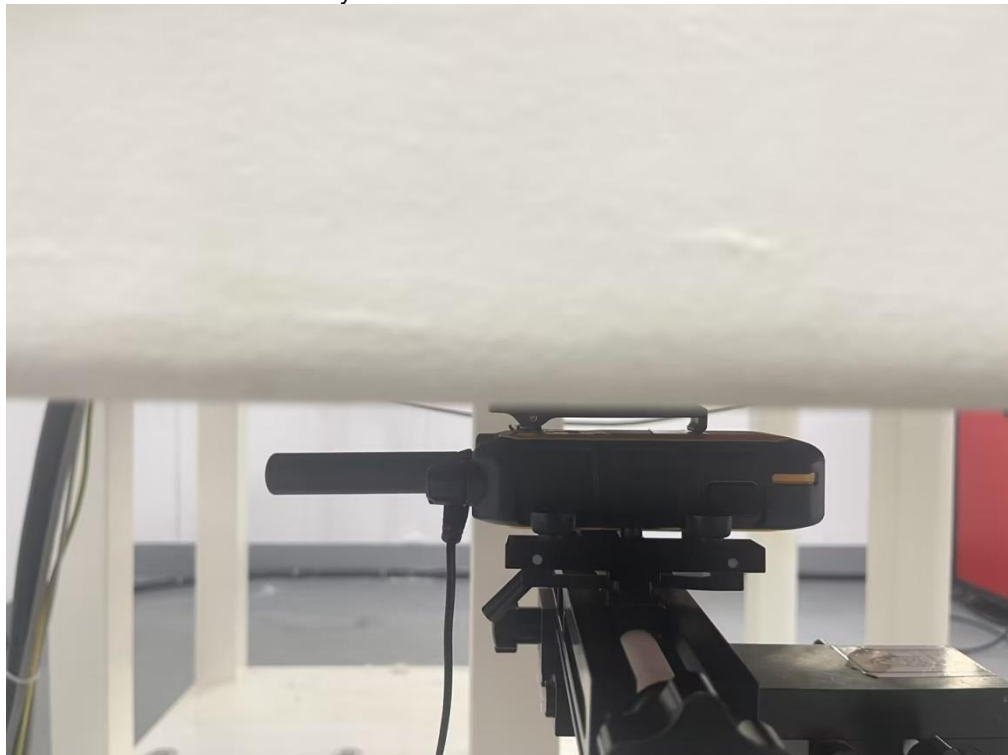
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APPENDIX C. TEST SETUP PHOTOGRAPHS

Face Up with 2.5 cm Separation Distance.



Body Back Touch with all accessories



The thickness of EUT is 3.3 cm

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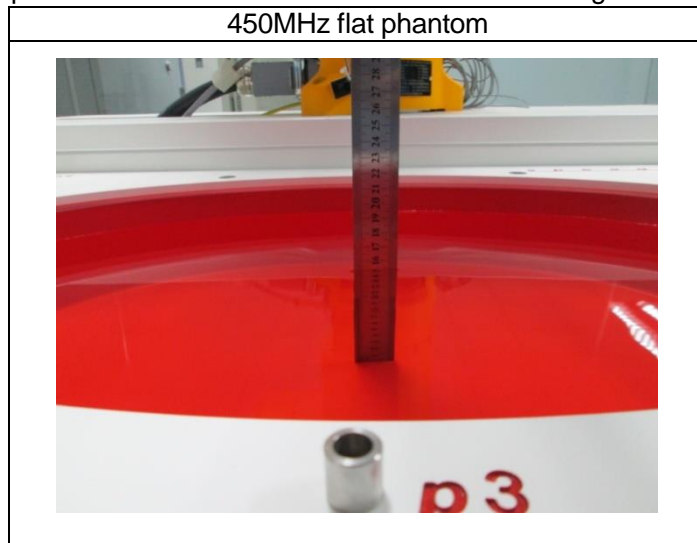
Note: The headset is just for testing. This tested and electrically similar headsets may be used.

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DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note: The position used in the measurement was according to IEEE 1528-2013



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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

----END OF REPORT----

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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