# SAR Test Report

Report No.: AGC01579211103FH01

| | | |
|---|---|---|
| **FCC ID** | : | 2AVUHVA-IH006B |
| **APPLICATION PURPOSE** | : | Original Equipment |
| **PRODUCT DESIGNATION** | : | Baby Monitor |
| **BRAND NAME** | : | VAVA |
| **MODEL NAME** | : | VA-IH006F(for monitor), VA-IH009F(for monitor), MR-IH001F(for monitor), MR-IH002F(for monitor) |
| **APPLICANT** | : | Shenzhen NearbyExpress Technology Development Company Limited |
| **DATE OF ISSUE** | : | Jan. 17, 2022 |
| **STANDARD(S)** | : | IEEE Std. 1528:2013<br>FCC 47 CFR Part 2§2.1093<br>IEEE Std C95.1 ™-2005<br>IEC 62209-1: 2016 |
| **REPORT VERSION** | : | V1.0 |

Attestation of Global Compliance(Shenzhen) Co., Ltd.

## Report Revise Record

| Report Version | Revise Time | Issued Date | Valid Version | Notes |
|---|---|---|---|---|
| V1.0 | / | Jan. 17, 2022 | Valid | Initial Release |



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# Test Report Certification

| | |
|---|---|
| Applicant Name | Shenzhen NearbyExpress Technology Development Company Limited |
| Applicant Address | Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community , Minzhi Street, Longhua District, Shenzhen, China |
| Manufacturer Name | Shenzhen NearbyExpress Technology Development Company Limited |
| Manufacturer Address | Room 701, 702, 703, 705, 706, 708, 709, Building E, Galaxy World Phase II, Minle Community , Minzhi Street, Longhua District, Shenzhen, China |
| Factory Name | ZhaoYang Gevotai (XinFeng) Technology Co., Ltd. |
| Factory Address | #3 Industrial Avenue, Industrial Park, Xinfeng County, Ganzhou City, Jiangxi Province, China |
| Product Designation | Baby Monitor |
| Brand Name | VAVA |
| Model Name | VA-IH006F(for monitor), VA-IH009F(for monitor), MR-IH001F(for monitor), MR-IH002F(for monitor) |
| Different Description | All the same except for the model name. |
| EUT Voltage | DC3.85V by battery |
| Applicable Standard | IEEE Std. 1528:2013;<br>FCC 47 CFR Part 2§2.1093;<br>IEEE Std C95.1 ™-2005;<br>IEC 62209-1: 2016; |
| Test Date | Jan. 02, 2022 |
| Report Template | AGCRT-US-Bluetooth/SAR (2021-04-20) |

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

Prepared By Thea Huang

Thea Huang (Project Engineer) Jan. 02, 2022

Reviewed By Calvin Liu

Calvin Liu (Reviewer) Jan. 17, 2022

Approved By Max Zhang

Max Zhang (Authorized Officer) Jan. 17, 2022

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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:**

| Frequency Band | Highest Reported 1g-SAR(W/kg) | SAR Test Result |
|---|---|---|
| 2.4GHz (2410-2477MHz) | 1.178 | PASS |
| SAR Test Limit (W/kg) | 1.6 | |

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6W/kg) specified in IEEE Std. 1528:2013; FCC 47CFR § 2.1093; IEEE/ANSI C95.1:2005 and the following specific FCC Test Procedures:

- KDB 447498 D01 General RF Exposure Guidance v06
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04

# 2. GENERAL INFORMATION

## 2.1. EUT Description

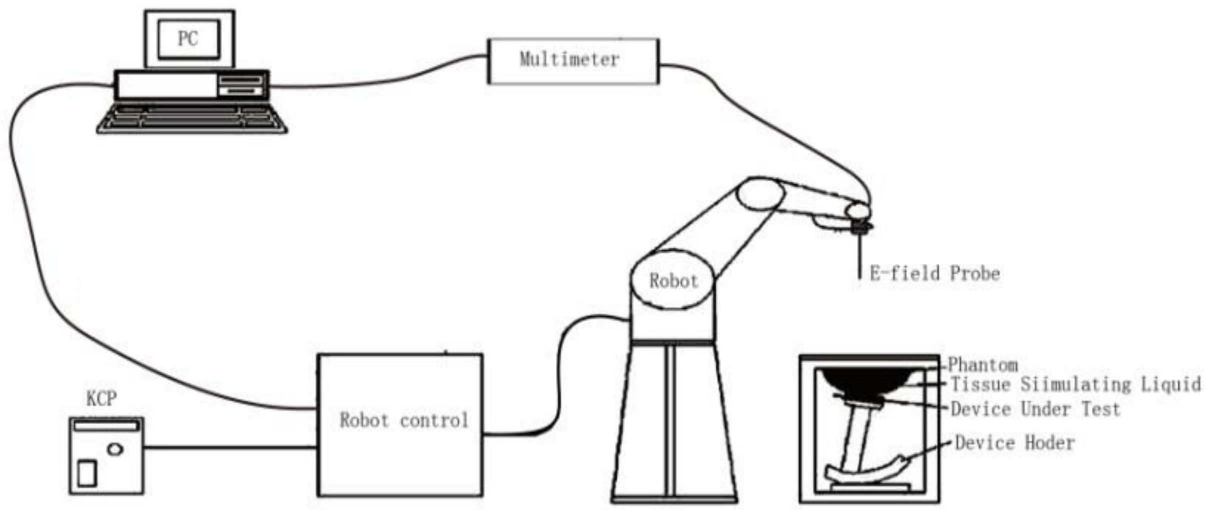
| **General Information** | |
|---|---|
| Product Designation | Baby Monitor |
| Test Model | VA-IH006F(for monitor) |
| Hardware Version | JST 009PVT_A0 |
| Software Version | JST IH009 PU 211027 V01forLCD_TC35778_KLD50174C<br>JST IH009 US 211102 V02 |
| Duty cycle | 32.54%(test mode) |
| Device Category | Portable |
| RF Exposure Environment | Uncontrolled |
| Antenna Type | Internal |
| **2.4GHz** | |
| Operation Frequency | 2410~2477MHz |
| Antenna Gain | 3.16dBi |
| Type of modulation | GFSK |
| EIRP | 20.543dBm |
| Power Supply | DC 3.85V 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.
3. Duty-cycle = [on time/total time] x 100%

| Product | Type | |
|---|---|---|
| | ☒ Production unit | ☐ Identical Prototype |

# 3. SAR MEASUREMENT SYSTEM

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



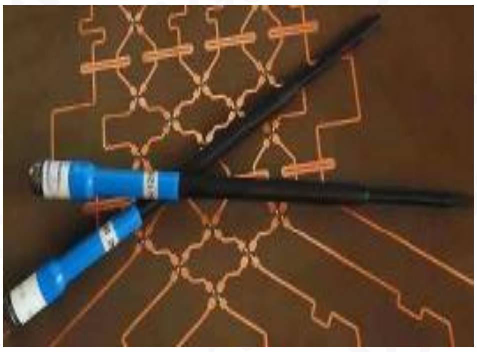

The COMOSAR system for performing compliance tests consists of the following items:

- The PC. It controls most of the bench devices and stores measurement data.A computer running WinXP and the Opensar software.
- The E-Field probe. The probe is a 3-axis system made of 3 distinct dipoles. Each dipole returns a voltage in function of the ambient electric field.
- The Keithley multimeter measures each probe dipole voltages.
- The SAM phantom simulates a human head. The measurement of the electric field is made inside the phantom.
- The liquids simulate the dielectric properties of the human head tissues.
- The network emulator controls the mobile phone under test.
- The validation dipoles are used to measure a reference SAR. They are used to periodically check the bench to make sure that there is no drift of the system characteristics over time.
- The phantom, the device holder and other accessories according to the targeted measurement.

## 3.2. COMOSAR E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SATIMO. 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. SATIMO conducts the probe calibration in compliance with international and national standards (e.g. IEEE 1528 and relevant KDB files.) The calibration data are in Appendix D.

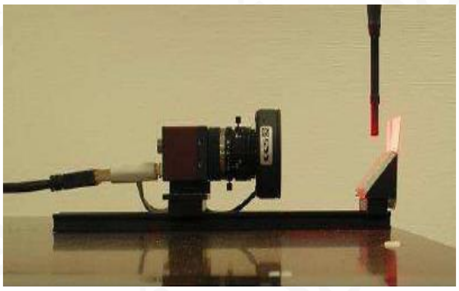
### Isotropic E-Field Probe Specification

| | | |
|---|---|---|
| **Model** | SSE5 | |
| **Manufacture** | MVG | |
| **Identification No.** | SN 24/20 EP336 | |
| **Frequency** | 0.15GHz-3GHz<br>Linearity:±0.05dB(0.15GHz-3GHz) |  |
| **Dynamic Range** | 0.01W/kg-100W/kg<br>Linearity:±0.05dB | |
| **Dimensions** | Overall length:330mm<br>Length of individual dipoles:4.5mm<br>Maximum external diameter:8mm<br>Probe Tip external diameter:5mm<br>Distance between dipoles/ probe extremity:2.7mm | |
| **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 precisin of better 30%. | |

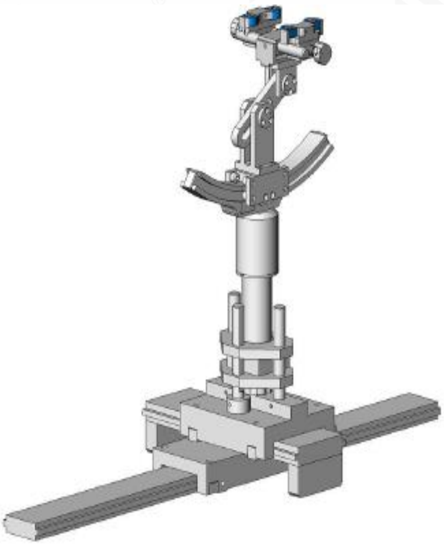
## 3.3. Robot

The COMOSAR system uses the KUKA robot from SATIMO SA (France).For the 6-axis controller COMOSAR system, the KUKA robot controller version from SATIMO 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

### 3.4. Video Positioning System

| | |
|---|---|
| The video positioning system is used in OpenSAR to check the probe. Which is composed of a camera, LED, mirror and mechanical parts.The camera is piloted by the main computer with firewire link.<br>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.<br>The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned probe, the same position will be reached with another aligned probe within 0.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. |  |

### 3.5. Device Holder

| | |
|---|---|
| The COMOSAR 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).<br>Thus the device needs no repositioning when changing the angles.<br>The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity<br>$\varepsilon r$ =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. |  |

## 3.6. 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:<br>□ Left head<br>□ Right head<br>□ 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.

# 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;

$\frac{dT}{dt} | t = 0$ 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 os 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 SATIMO 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, 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

| | ≤ 3 GHz | > 3 GHz |
|---|---|---|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | 5 ± 1 mm | ½·δ·ln(2) ± 0.5 mm |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location | 30° ± 1° | 20° ± 1° |
| Maximum area scan spatial resolution: $\Delta x_{Area}$, $\Delta y_{Area}$ | ≤ 2 GHz: ≤ 15 mm<br>2 – 3 GHz: ≤ 12 mm | 3 – 4 GHz: ≤ 12 mm<br>4 – 6 GHz: ≤ 10 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 ≤ 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

<table>
<tr><td colspan="3">Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$, $\Delta y_{Zoom}$</td><td>≤ 2 GHz: ≤ 8 mm<br>2 – 3 GHz: ≤ 5 mm*</td><td>3 – 4 GHz: ≤ 5 mm*<br>4 – 6 GHz: ≤ 4 mm*</td></tr>
<tr><td rowspan="3">Maximum zoom scan spatial resolution, normal to phantom surface</td><td colspan="2">uniform grid: $\Delta z_{Zoom}(n)$</td><td>≤ 5 mm</td><td>3 – 4 GHz: ≤ 4 mm<br>4 – 5 GHz: ≤ 3 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td rowspan="2">graded grid</td><td>$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface</td><td>≤ 4 mm</td><td>3 – 4 GHz: ≤ 3 mm<br>4 – 5 GHz: ≤ 2.5 mm<br>5 – 6 GHz: ≤ 2 mm</td></tr>
<tr><td>$\Delta z_{Zoom}(n>1)$: between subsequent points</td><td colspan="2">$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$</td></tr>
<tr><td>Minimum zoom scan volume</td><td colspan="2">x, y, z</td><td>≥ 30 mm</td><td>3 – 4 GHz: ≥ 28 mm<br>4 – 5 GHz: ≥ 25 mm<br>5 – 6 GHz: ≥ 22 mm</td></tr>
<tr><td colspan="5">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.<br>* When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 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.</td></tr>
</table>

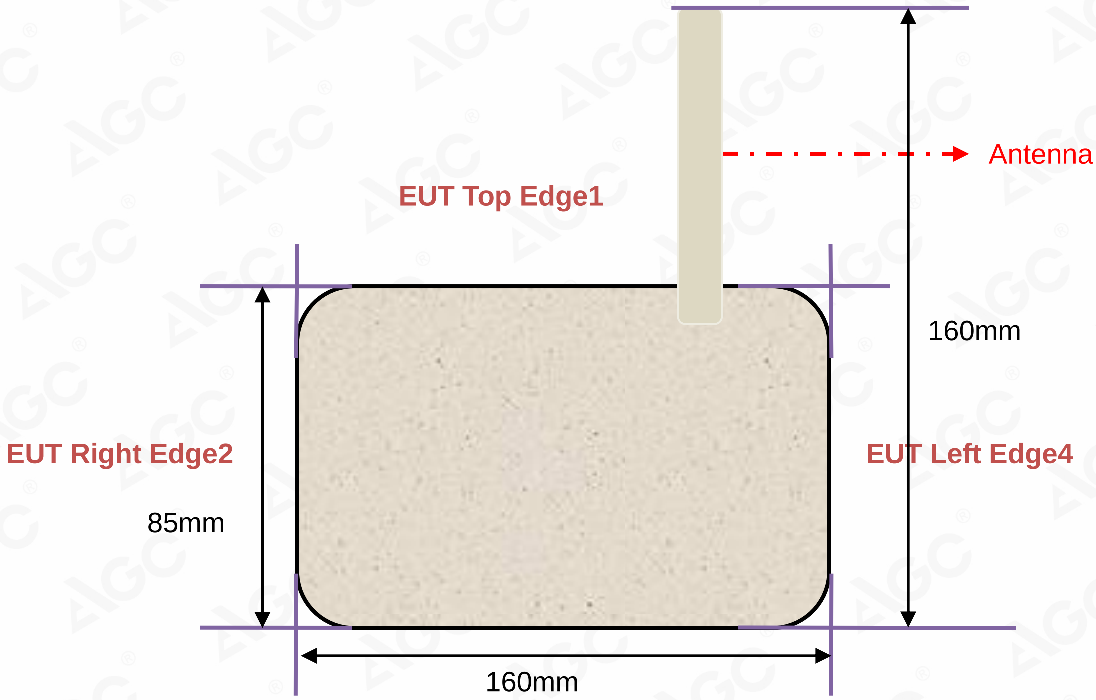
Step 4: Power Drift Measurement

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.

## 4.3. RF Exposure Conditions

Test Configuration and setting:
For SAR testing, the device was controlled by software to test at reference fixed frequency points.

**Antenna Location:**



**SAR Test Exclusion Consideration for Adjacent Edges**

Per KDB 447498 D01 cl. 4.3.1:

a) For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [√f(GHz)] ≤ 3.0 for1-g SAR, and ≤ 7.5 for 10-g extremity SAR.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)•10]} mW, for > 1500 MHz and ≤ 6 GHz

| 1-g SAR test exclusion thresholds for | | | | | |
|---|---|---|---|---|---|
| Test Mode | Test position | Edge 1 Top ( 0 mm) | Edge 2 (105mm) | Edge 3 (70mm) | Edge 4 Left (30mm) |
| 2.4GHz | SAR test exclusion thresholds(mW) | 9.53 | 645 | 295 | 57 |
| | SAR Max. Avg. Burst Power(mW) | 79 | 79 | 79 | 79 |
| | SAR required (Yes/No) | Yes | No | No | Yes |

# 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 | Polysorbate 20 | DGBE | 1,2 Propanediol | Triton X-100 |
|---|---|---|---|---|---|---|
| 2450 Head | 71.88 | 0.16 | 0.0 | 7.99 | 0.0 | 19.97 |

## 5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the IEC 62209-2 have been incorporated in the following table.

| Target Frequency (MHz) | head | | body | |
|---|---|---|---|---|
| | εr | σ (S/m) | εr | σ (S/m) |
| 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 | 1.01 | 41.5 | 1.01 |
| 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 |

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

### 5.3. Tissue Calibration Result

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

| Tissue Stimulant Measurement for 2450MHz | | | | | |
|---|---|---|---|---|---|
| Head | Fr. (MHz) | Dielectric Parameters (±10%) | | Tissue Temp [$^{o}$C] | Test time |
| | | εr39.2(35.28-43.12) | δ[s/m]1.80(1.62-1.98) | | |
| | 2410 | 39.24 | 1.79 | 21.3 | Jan. 02, 2022 |
| | 2441.5 | 38.95 | 1.80 | | |
| | 2450 | 38.72 | 1.81 | | |
| | 2477 | 38.63 | 1.82 | | |

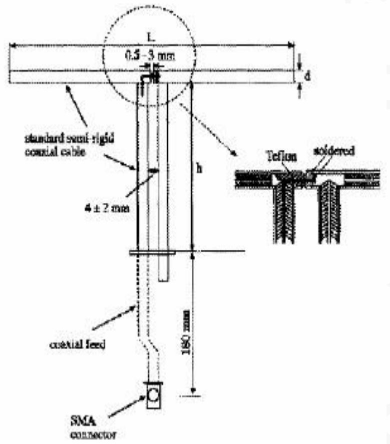
# 6. SAR SYSTEM CHECK PROCEDURE

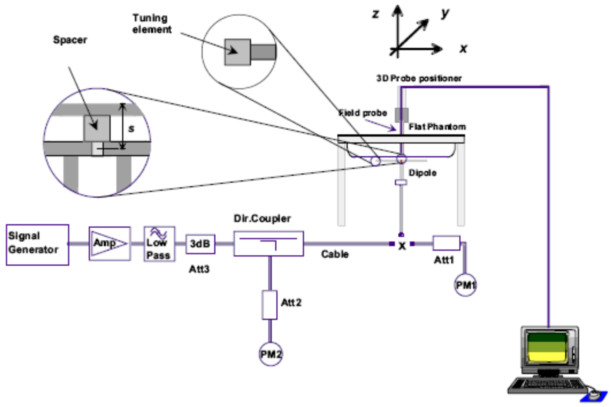
## 6.1. SAR System Check Procedures

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 remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

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

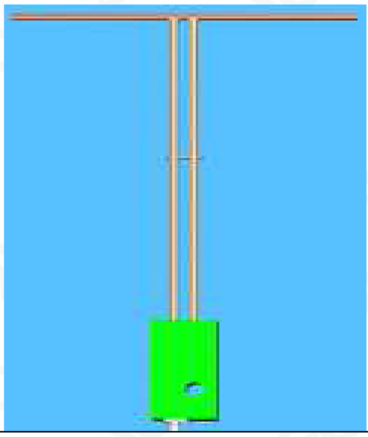
The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system check setup is shown as below.



## 6.2. SAR System Check

### 6.2.1. Dipoles



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.

| Frequency | L (mm) | h (mm) | d (mm) |
|---|---|---|---|
| 2450MHz | 51.5 | 30.4 | 3.6 |

### 6.2.2. System Check Result

| **System Performance Check at 2450MHz for Head** | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Validation Kit: SN 46/11 DIP 2G450-189** | | | | | | | | |
| Frequency [MHz] | Target Value(W/kg) | | Reference Result (± 10%) | | Tested Value(W/kg) | | Tissue Temp. [°C] | Test time |
| | 1g | 10g | 1g | 10g | 1g | 10g | | |
| 2450 | 53.97 | 24.01 | 48.573-59.367 | 21.609-26.411 | 53.50 | 23.06 | 21.3 | Jan. 02, 2022 |

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

# 7. EUT TEST POSITION

This EUT was tested in **Body back, Body front and 4 edges.**

## 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 **0mm.**

# 8. SAR EXPOSURE LIMITS

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Type Exposure | Uncontrolled Environment Limit (W/kg) |
|---|---|
| Spatial Peak SAR (1g cube tissue for brain or body) | 1.60 |
| Spatial Average SAR (Whole body) | 0.08 |
| Spatial Peak SAR (Limbs) | 4.0 |

## 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 |
| **A2LA Cert. No.** | 5054.02 |
| **Description** | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA |

# 10. TEST EQUIPMENT LIST

| Equipment description | Manufacturer/ Model | Identification No. | Software version | Current calibration date | Next calibration date |
|---|---|---|---|---|---|
| SAR Probe | MVG | SN 24/20 EP336 | N/A | Aug. 17, 2021 | Aug. 16, 2022 |
| Phantom | SATIMO | SN_4511_SAM90 | N/A | Validated. No cal required. | Validated. No cal required. |
| Liquid | SATIMO | N/A | N/A | Validated. No cal required. | Validated. No cal required. |
| Multimeter | Keithley 2000 | 4114939 | N/A | Aug. 18,2021 | Aug. 17,2022 |
| SAR Software | MVG-OpenSAR | N/A | OpenSAR V4_02_35 | N/A | N/A |
| Dipole | SATIMO SID2450 | SN 46/11 DIP 2G450-189 | N/A | Apr. 26,2019 | Apr. 25,2022 |
| Signal Generator | Agilent-E4438C | US41461365 | V5.03 | Aug. 18,2021 | Aug. 17,2022 |
| Vector Analyzer | Agilent / E4440A | MY44303916 | N/A | Mar. 21, 2021 | Mar. 20, 2022 |
| Network Analyzer | Rhode & Schwarz ZVL6 | SN101443 | 3.2 | Oct. 28,2021 | Oct. 27,2022 |
| Attenuator | Warison /WATT-6SR1211 | S/N:WRJ34AYM2F1 | N/A | June 09,2021 | June 08,2022 |
| Attenuator | Mini-circuits / VAT-10+ | 31405 | N/A | June 09,2021 | June 08,2022 |
| Amplifier | AS0104-55_55 | 1004793 | N/A | June 10,2021 | June 09,2022 |
| Directional Couple | Werlatone/ C5571-10 | SN99463 | N/A | May 15,2020 | May 14,2022 |
| Directional Couple | Werlatone/ C6026-10 | SN99482 | N/A | May 15,2020 | May 14,2022 |
| Power Sensor | NRP-Z21 | 1137.6000.02 | N/A | Sep. 07,2021 | Sep. 06,2022 |
| Power Sensor | NRP-Z23 | 100323 | N/A | Feb. 17,2021 | Feb. 16,2022 |
| 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 | Dec. 07, 2021 | Dec. 06, 2022 |

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.

# 11. MEASUREMENT UNCERTAINTY

| SATIMO Uncertainty- SN 24/20 EP336<br>Measurement uncertainty for DUT averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Uncertainty Component | Sec. | Tol (+- %) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| **Measurement System** | | | | | | | | | |
| Probe calibration | E.2.1 | 7.000 | N | 1 | 1 | 1 | 7.000 | 7.000 | ∞ |
| Axial Isotropy | E.2.2 | 0.150 | R | √3 | √0.5 | √0.5 | 0.061 | 0.061 | ∞ |
| Hemispherical Isotropy | E.2.2 | 0.150 | R | √3 | √0.5 | √0.5 | 0.061 | 0.061 | ∞ |
| Boundary effect | E.2.3 | 1.000 | R | √3 | 1 | 1 | 0.577 | 0.577 | ∞ |
| Linearity | E.2.4 | 0.610 | R | √3 | 1 | 1 | 0.352 | 0.352 | ∞ |
| System detection limits | E.2.4 | 1.000 | R | √3 | 1 | 1 | 0.577 | 0.577 | ∞ |
| Modulation response | E2.5 | 3.000 | R | √3 | 1 | 1 | 1.732 | 1.732 | ∞ |
| Readout Electronics | E.2.6 | 0.021 | N | 1 | 1 | 1 | 0.021 | 0.021 | ∞ |
| Response Time | E.2.7 | 0.000 | R | √3 | 1 | 1 | 0.000 | 0.000 | ∞ |
| Integration Time | E.2.8 | 1.400 | R | √3 | 1 | 1 | 0.808 | 0.808 | ∞ |
| RF ambient conditions-Noise | E.6.1 | 3.000 | R | √3 | 1 | 1 | 1.732 | 1.732 | ∞ |
| RF ambient conditions-reflections | E.6.1 | 3.000 | R | √3 | 1 | 1 | 1.732 | 1.732 | ∞ |
| Probe positioner mechanical tolerance | E.6.2 | 1.400 | R | √3 | 1 | 1 | 0.808 | 0.808 | ∞ |
| Probe positioning with respect to phantom shell | E.6.3 | 1.400 | R | √3 | 1 | 1 | 0.808 | 0.808 | ∞ |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5 | 2.300 | R | √3 | 1 | 1 | 1.328 | 1.328 | ∞ |
| **Test sample Related** | | | | | | | | | |
| Test sample positioning | E.4.2 | 2.6 | N | 1 | 1 | 1 | 2.600 | 2.600 | ∞ |
| Device holder uncertainty | E.4.1 | 3 | N | 1 | 1 | 1 | 3.000 | 3.000 | ∞ |
| Output power variation—SAR drift measurement | E.2.9 | 5 | R | √3 | 1 | 1 | 2.887 | 2.887 | ∞ |
| SAR scaling | E.6.5 | 5 | R | √3 | 1 | 1 | 2.887 | 2.887 | ∞ |
| **Phantom and tissue parameters** | | | | | | | | | |
| Phantom shell uncertainty—shape, thickness, and permittivity | E.3.1 | 4 | R | √3 | 1 | 1 | 2.309 | 2.309 | ∞ |
| Uncertainty in SAR correction for deviations in permittivity and conductivity | E.3.2 | 1.9 | N | 1 | 1 | 0.84 | 1.900 | 1.596 | ∞ |
| Liquid conductivity measurement | E.3.3 | 2.5 | R | √3 | 0.78 | 0.71 | 1.126 | 1.025 | ∞ |
| Liquid permittivity measurement | E.3.3 | 4 | N | 1 | 0.78 | 0.71 | 3.120 | 2.840 | M |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | √3 | 0.23 | 0.26 | 0.332 | 0.375 | ∞ |
| Liquid permittivity—temperature uncertainty | E.3.4 | 5 | N | 1 | 0.23 | 0.26 | 1.150 | 1.300 | M |
| Combined Standard Uncertainty | | | RSS | | | | 10.519 | 10.334 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 21.039 | 20.668 | |

| SATIMO Uncertainty- SN 24/20 EP336<br>System Validation uncertainty for DUT averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Uncertainty Component | Sec. | Tol (+- %) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| **Measurement System** | | | | | | | | | |
| Probe calibration | E.2.1 | 7.000 | N | 1 | 1 | 1 | 7.000 | 7.000 | ∞ |
| Axial Isotropy | E.2.2 | 0.150 | R | $\sqrt{3}$ | 1 | 1 | 0.087 | 0.087 | ∞ |
| Hemispherical Isotropy | E.2.2 | 0.150 | R | $\sqrt{3}$ | 0 | 0 | 0.000 | 0.000 | ∞ |
| Boundary effect | E.2.3 | 1.000 | R | $\sqrt{3}$ | 1 | 1 | 0.577 | 0.577 | ∞ |
| Linearity | E.2.4 | 0.610 | R | $\sqrt{3}$ | 1 | 1 | 0.352 | 0.352 | ∞ |
| System detection limits | E.2.4 | 1.0 | R | $\sqrt{3}$ | 1 | 1 | 0.58 | 0.58 | ∞ |
| Modulation response | E2.5 | 3.0 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Readout Electronics | E.2.6 | 0.021 | N | 1 | 1 | 1 | 0.021 | 0.021 | ∞ |
| Response Time | E.2.7 | 0.0 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Integration Time | E.2.8 | 1.4 | 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 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Probe positioning with respect to phantom shell | E.6.3 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5 | 2.3 | R | $\sqrt{3}$ | 1 | 1 | 1.33 | 1.33 | ∞ |
| **System validation source** | | | | | | | | | |
| 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 set-up** | | | | | | | | | |
| Phantom shell uncertainty—shape, thickness, and permittivity | E.3.1 | 4.0 | R | $\sqrt{3}$ | 1 | 1 | 2.31 | 2.31 | ∞ |
| 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（temperature uncertainty） | E.3.3 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid conductivity（measured） | E.3.3 | 4 | N | 1 | 0.78 | 0.71 | 3.12 | 2.84 | M |
| Liquid permittivity（temperature uncertainty） | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.33 | 0.38 | ∞ |
| Liquid permittivity（measured） | E.3.4 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | M |
| Combined Standard Uncertainty | | | RSS | | | | 10.452 | 10.266 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 20.904 | 20.531 | |

| SATIMO Uncertainty- SN 24/20 EP336<br>System Check uncertainty for DUT averaged over 1 gram / 10 gram. | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Uncertainty Component | Sec. | Tol (+- %) | Prob. Dist. | Div. | Ci (1g) | Ci (10g) | 1g Ui (+-%) | 10g Ui (+-%) | vi |
| **Measurement System** | | | | | | | | | |
| Probe calibration drift | E.2.1.3 | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | ∞ |
| Axial Isotropy | E.2.2 | 0.150 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Hemispherical Isotropy | E.2.2 | 0.150 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Boundary effect | E.2.3 | 1.000 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Linearity | E.2.4 | 0.610 | 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 | E2.5 | 3.0 | R | $\sqrt{3}$ | 0 | 0 | 0.00 | 0.00 | ∞ |
| Readout Electronics | E.2.6 | 0.021 | 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 | 1.4 | 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 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Probe positioning with respect to phantom shell | E.6.3 | 1.4 | R | $\sqrt{3}$ | 1 | 1 | 0.81 | 0.81 | ∞ |
| Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation | E.5 | 2.3 | 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 | 4 | R | $\sqrt{3}$ | 1 | 1 | 2.31 | 2.31 | ∞ |
| 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 | 2.5 | R | $\sqrt{3}$ | 0.78 | 0.71 | 1.13 | 1.02 | ∞ |
| Liquid permittivity measurement | E.3.3 | 4 | N | 1 | 0.78 | 0.71 | 3.12 | 2.84 | M |
| Liquid conductivity—temperature uncertainty | E.3.4 | 2.5 | R | $\sqrt{3}$ | 0.23 | 0.26 | 0.33 | 0.38 | ∞ |
| Liquid permittivity—temperature uncertainty | E.3.4 | 5 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | M |
| Combined Standard Uncertainty | | | RSS | | | | 5.562 | 5.203 | |
| Expanded Uncertainty (95% Confidence interval) | | | K=2 | | | | 11.124 | 10.406 | |

# 12. CONDUCTED POWER MEASUREMENT

**2.4GHz (2410-2477MHz)**

| Modulation | Channel | Frequency(MHz) | EIRP(dBm) |
|---|---|---|---|
| GFSK | 1 | 2410 | 17.169 |
| | 10 | 2441.5 | 20.253 |
| | 20 | 2477 | **20.543** |

# 13. TEST RESULTS

## 13.1. SAR Test Results Summary

### 13.1.1. Test position and configuration

Body-worn and 4 Edges SAR was performed with the device 0mm from the phantom.

### 13.1.2. Operation Mode

1. Per KDB 447498 D01 v06 ,for each exposure position, if the highest 1-g SAR is ≤ 0.8 W/kg, testing for low and high channel is optional.
2. Per KDB 865664 D01 v01r04,for each frequency band, if the measured SAR is ≥0.8W/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.
   (1) When the original highest measured SAR is ≥0.8W/kg, repeat that measurement once.
   (2) 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.
   (3) Perform a third repeated measurement only if the original, first and second repeated measurement is ≥1.5 W/kg and ratio of largest to smallest SAR for the original, first and second measurement is ≥ 1.20.
3. Maximum Scaling SAR in order to calculate the Maximum SAR values to test under the standard Peak Power, Calculation method is as follows:
   Maximum Scaling SAR =tested SAR (Max.) ×[maximum turn-up power (mw)/ maximum measurement output power(mw) ]

### 13.1.3. Test Result

| SAR MEASUREMENT | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Depth of Liquid (cm):>15 | | | | Relative Humidity (%): 56.1 | | | | | |
| Product: Baby Monitor | | | | | | | | | |
| Test Mode: 2.4GHz | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±5%)** | **SAR (1g) (W/kg)** | **Max. Tune-up Power (dBm)** | **Meas. output Power (dBm)** | **Scaled SAR (W/kg)** | **Limit W/kg** |
| Body back | GFSK | 1 | 2410 | 0.09 | 1.070 | 17.20 | 17.169 | 1.078 | 1.6 |
| Body back | GFSK | 10 | 2441.5 | -0.06 | 1.088 | 20.60 | 20.253 | **1.178** | 1.6 |
| Body back | GFSK | 20 | 2477 | 0.07 | **1.105** | 20.60 | 20.543 | 1.120 | 1.6 |
| Body front | GFSK | 10 | 2441.5 | -0.05 | 0.272 | 20.60 | 20.253 | 0.295 | 1.6 |
| Edge 1 (Top) | GFSK | 10 | 2441.5 | 0.02 | 0.044 | 20.60 | 20.253 | 0.048 | 1.6 |
| Edge 4 (Left) | GFSK | 10 | 2441.5 | -0.04 | 0.102 | 20.60 | 20.253 | 0.110 | 1.6 |

Note:
- When the 1-g SAR is ≤ 0.8W/kg, testing for low and high channel is optional.
- The test separation of all above table is 0mm.

| Repeated SAR | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Product: Baby Monitor | | | | | | | | | | |
| Test Mode: 2.4GHz | | | | | | | | | | |
| **Position** | **Mode** | **Ch.** | **Fr. (MHz)** | **Power Drift (<±5%)** | **Once SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Twice SAR (1g) (W/kg)** | **Power Drift (<±5%)** | **Third SAR (1g) (W/kg)** | **Limit (W/kg)** |
| Body back | GFSK | 20 | 2477 | 0.02 | 1.082 | -- | -- | -- | -- | 1.6 |

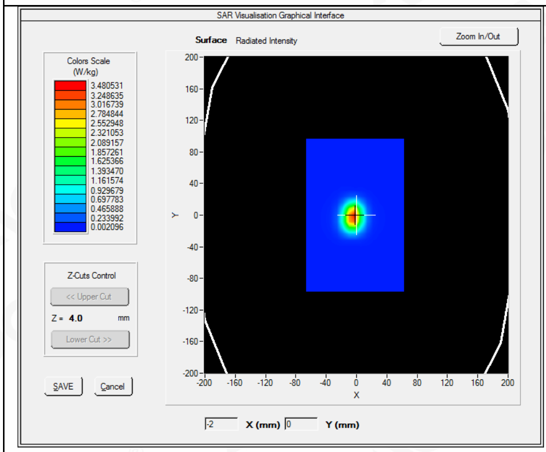
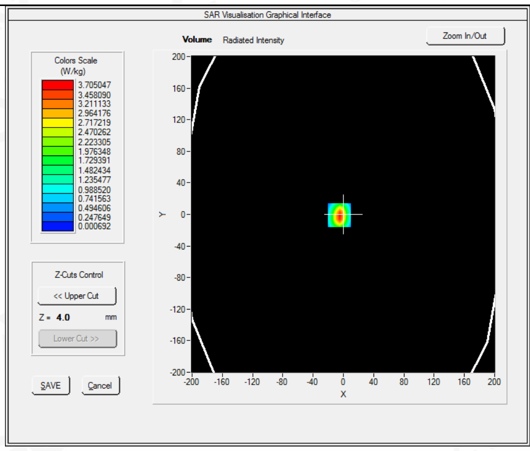
# APPENDIX A. SAR SYSTEM CHECK DATA

**Test Laboratory: AGC Lab** **Date: Jan. 02, 2022**
**System Check Head 2450 MHz**
**DUT: Dipole 2450 MHz Type: SID 2450**
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=4.02
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ=1.81 mho/m; εr =38.72; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

SATIMO Configuration

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

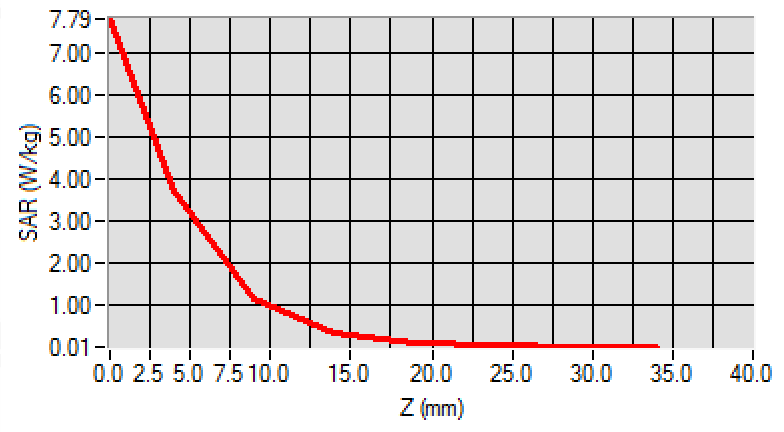
**Configuration/System Check 2450MHz Head/Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/System Check 2450MHz Head/Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm

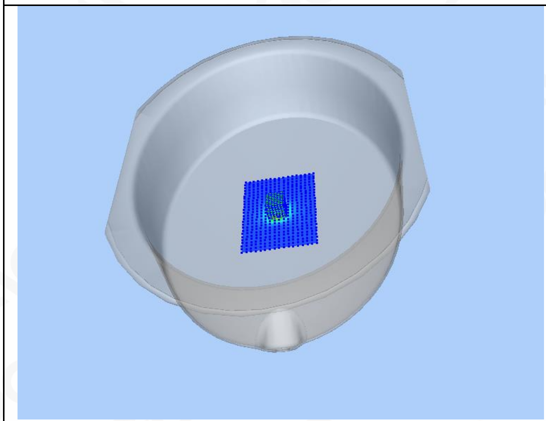
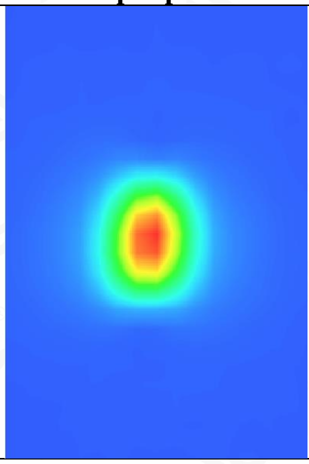
| SURFACE SAR | VOLUME SAR |
|---|---|
|  |  |

**Maximum location: X=-5.00, Y=-1.00**
**SAR Peak: 7.61 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 1.455247 |
| **SAR 1g (W/Kg)** | 3.375384 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 7.7817 | 3.7063 | 1.1258 | 0.3526 | 0.1108 | 0.0473 | 0.0125 |




| 3D screen shot | Hot spot position |
|---|---|
|  |  |

# APPENDIX B. SAR MEASUREMENT DATA

**Test Laboratory: AGC Lab** **Date: Jan. 02, 2022**
**2.4GHz Mid-Body-Worn- Back**
**DUT: Baby Monitor; Type: VA-IH006F(for monitor)**

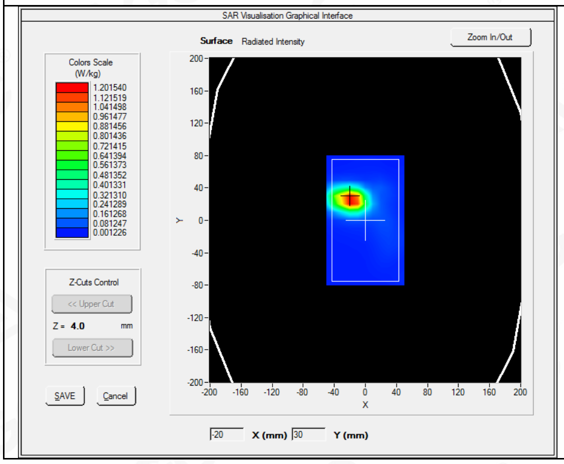
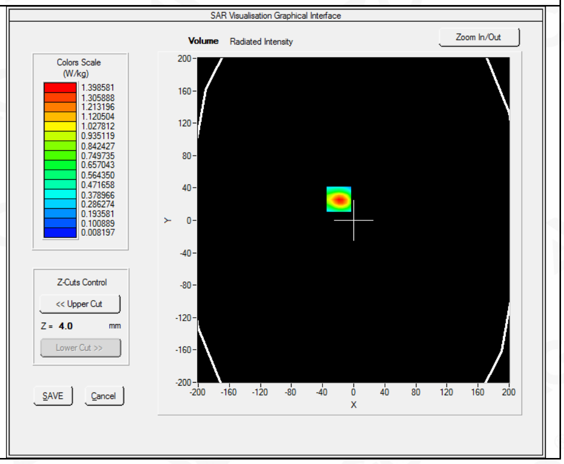
Communication System: 2.4GHz; Communication System Band: 2.4GHz; Duty Cycle:32.54%;Conv.F=4.02;
Frequency: 2441.5 MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =38.95; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/2.4GHz Mid- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/2.4GHz Mid- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

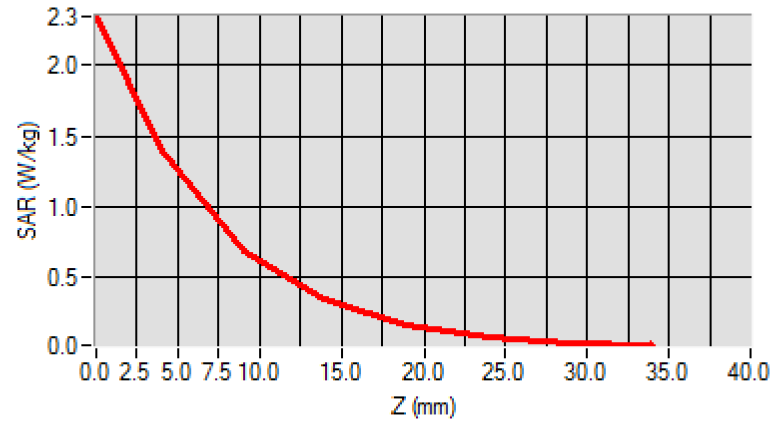
| | |
|---|---|
| **Area Scan** | dx=8mm dy=8mm, h= 5.00 mm |
| **ZoomScan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | ELLI |
| **Device Position** | Body Back |
| **Band** | 2.4GHz |
| **Channels** | Middle |
| **Signal** | Crest factor: 3.07 |

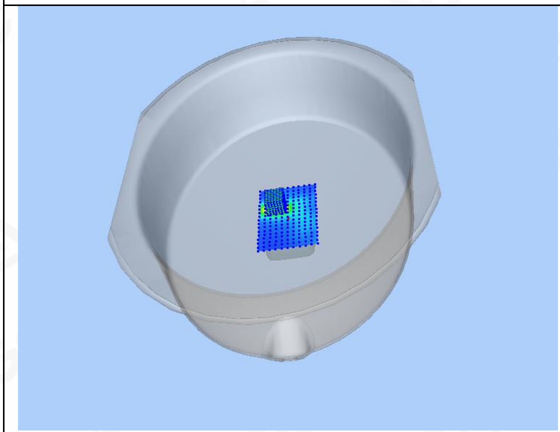
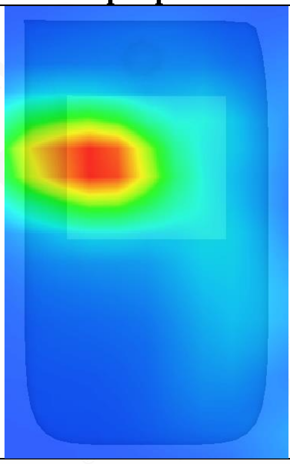
| SURFACE SAR | VOLUME SAR |
|---|---|
|  |  |

**Maximum location: X=-19.00, Y=26.00**
**SAR Peak: 2.33 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.551933 |
| **SAR 1g (W/Kg)** | 1.087888 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.3434 | 1.3986 | 0.6914 | 0.3396 | 0.1665 | 0.0819 | 0.0409 |




| 3D screen shot | Hot spot position |
|---|---|
|  |  |

**Test Laboratory: AGC Lab** **Date: Jan. 02, 2022**
**2.4GHz High-Body-Worn- Back**
**DUT: Baby Monitor; Type: VA-IH006F(for monitor)**

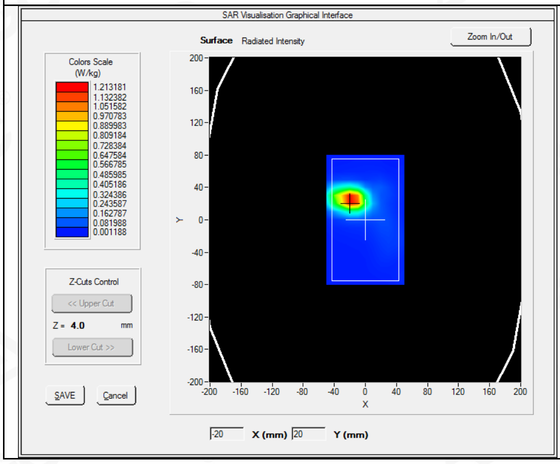
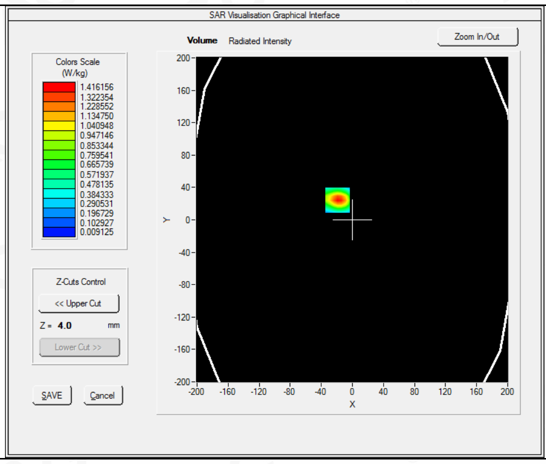
Communication System: 2.4GHz; Communication System Band: 2.4GHz; Duty Cycle:32.54%;Conv.F=4.02;
Frequency: 2477 MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =38.95; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/2.4GHz High- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/2.4GHz High- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

| | |
|---|---|
| **Area Scan** | dx=8mm dy=8mm, h= 5.00 mm |
| **ZoomScan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | ELLI |
| **Device Position** | Body Back |
| **Band** | 2.4GHz |
| **Channels** | High |
| **Signal** | Crest factor: 3.07 |

| SURFACE SAR | VOLUME SAR |
|---|---|
|  |  |

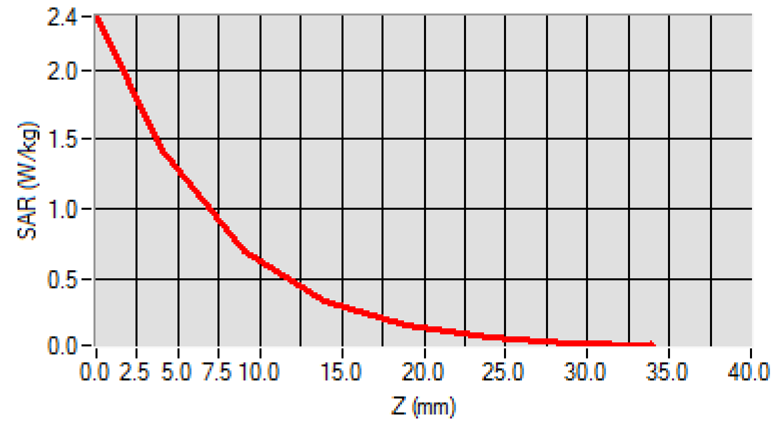


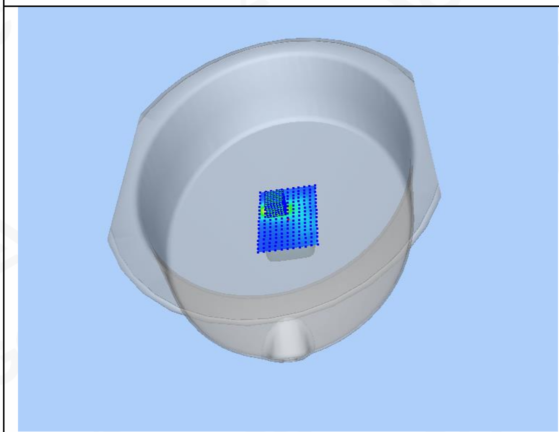
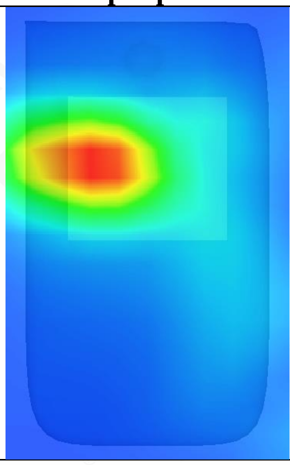


**Maximum location: X=-19.00, Y=24.00**
**SAR Peak: 2.38 W/kg**

| | |
|---|---|
| **SAR 10g (W/Kg)** | 0.567549 |
| **SAR 1g (W/Kg)** | 1.104612 |

| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.3828 | 1.4162 | 0.6968 | 0.3444 | 0.1700 | 0.0835 | 0.0419 |




| 3D screen shot | Hot spot position |
|---|---|
|  |  |

**Repeated SAR**
**Test Laboratory: AGC Lab** **Date: Jan. 02, 2022**
**2.4GHz High-Body-Worn- Back**
**DUT: Baby Monitor; Type: VA-IH006F(for monitor)**

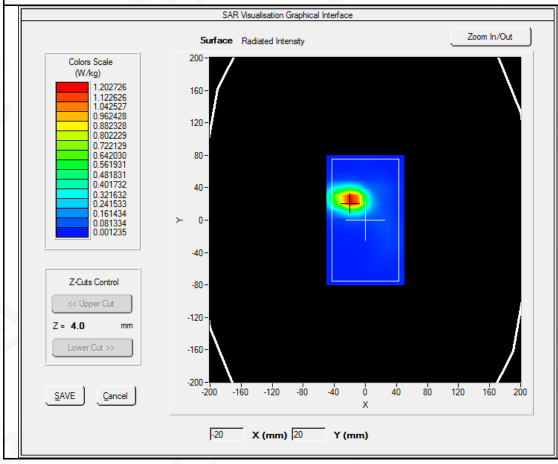
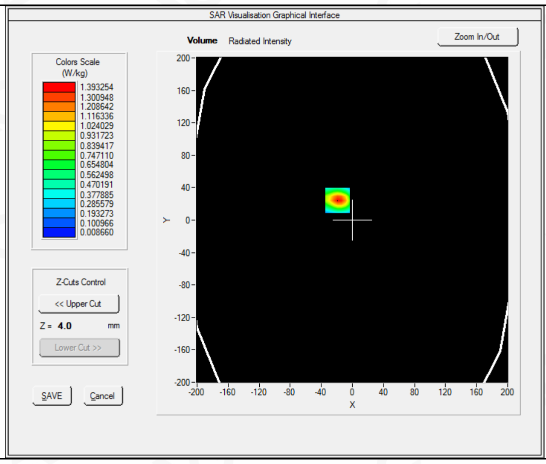
Communication System: 2.4GHz; Communication System Band: 2.4GHz; Duty Cycle:32.54%;Conv.F=4.02;
Frequency: 2477 MHz; Medium parameters used: f = 2450 MHz; σ=1.80 mho/m; εr =38.95; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):21.5, Liquid temperature (℃): 21.3

SATIMO Configuration:

- Probe: SSE5; Calibrated: Aug. 17, 2021; Serial No.: SN 24/20 EP336
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: ELLI39 Phantom
- Measurement SW: OpenSAR V4_02_35

**Configuration/2.4GHz High- Body- Back /Area Scan:** Measurement grid: dx=8mm, dy=8mm
**Configuration/2.4GHz High- Body- Back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

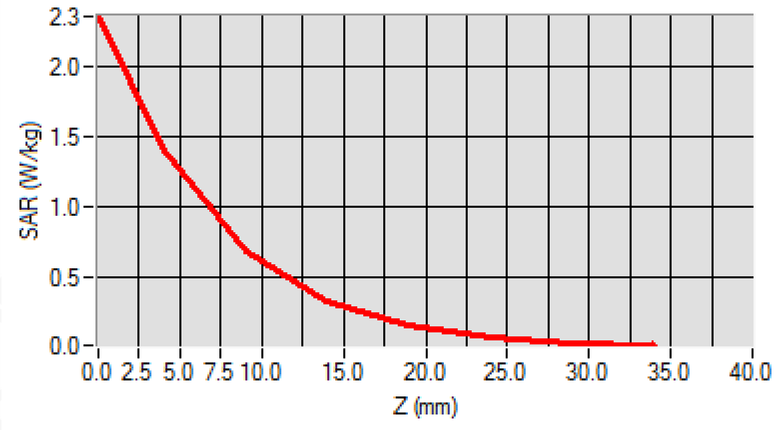
| | |
|---|---|
| **Area Scan** | dx=8mm dy=8mm, h= 5.00 mm |
| **ZoomScan** | 7x7x7,dx=5mm dy=5mm dz=5mm |
| **Phantom** | ELLI |
| **Device Position** | Body Back |
| **Band** | 2.4GHz |
| **Channels** | High |
| **Signal** | Crest factor: 3.07 |

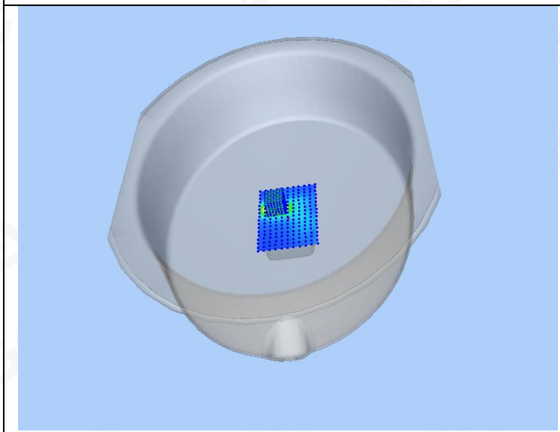
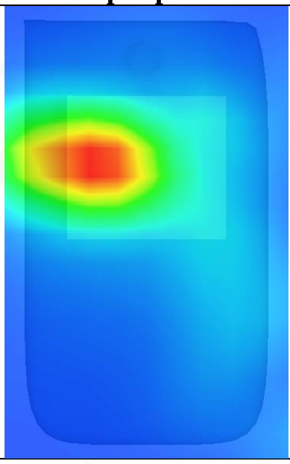
| SURFACE SAR | VOLUME SAR |
|---|---|
|  |  |

**Maximum location: X=-19.00, Y=24.00**
**SAR Peak: 2.34 W/kg**

| | |
|---|---|
| SAR 10g (W/Kg) | 0.558315 |
| SAR 1g (W/Kg) | 1.082215 |

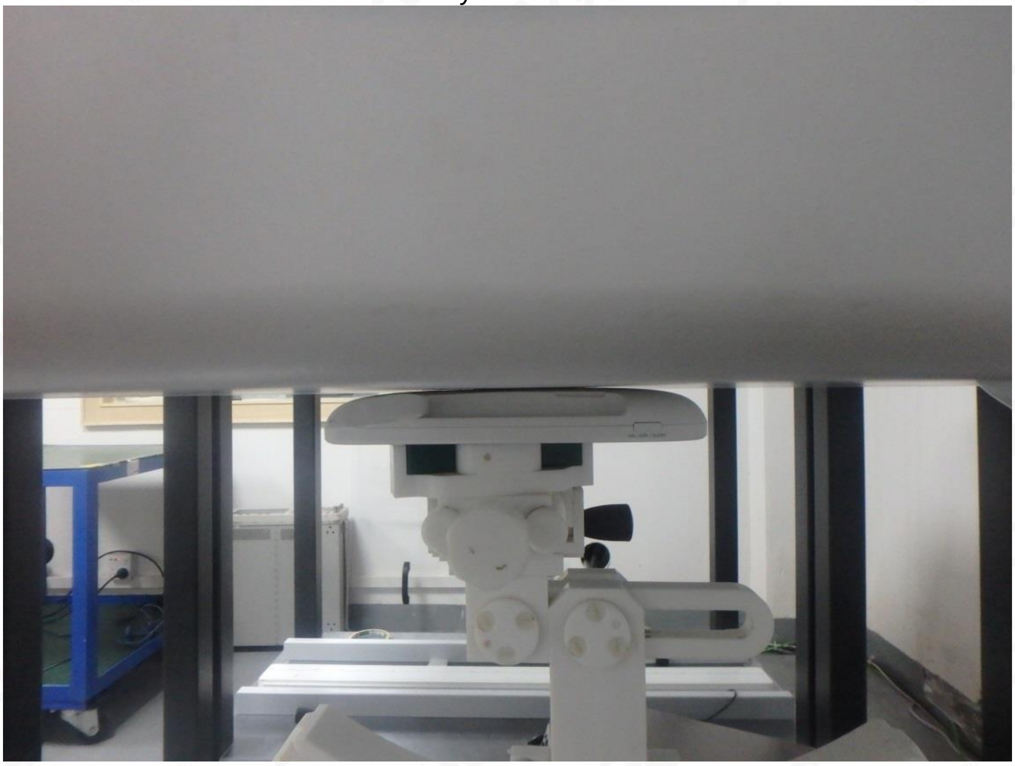
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 | 24.00 | 29.00 |
|---|---|---|---|---|---|---|---|
| SAR (W/Kg) | 2.3483 | 1.3933 | 0.6832 | 0.3393 | 0.1660 | 0.0827 | 0.0410 |



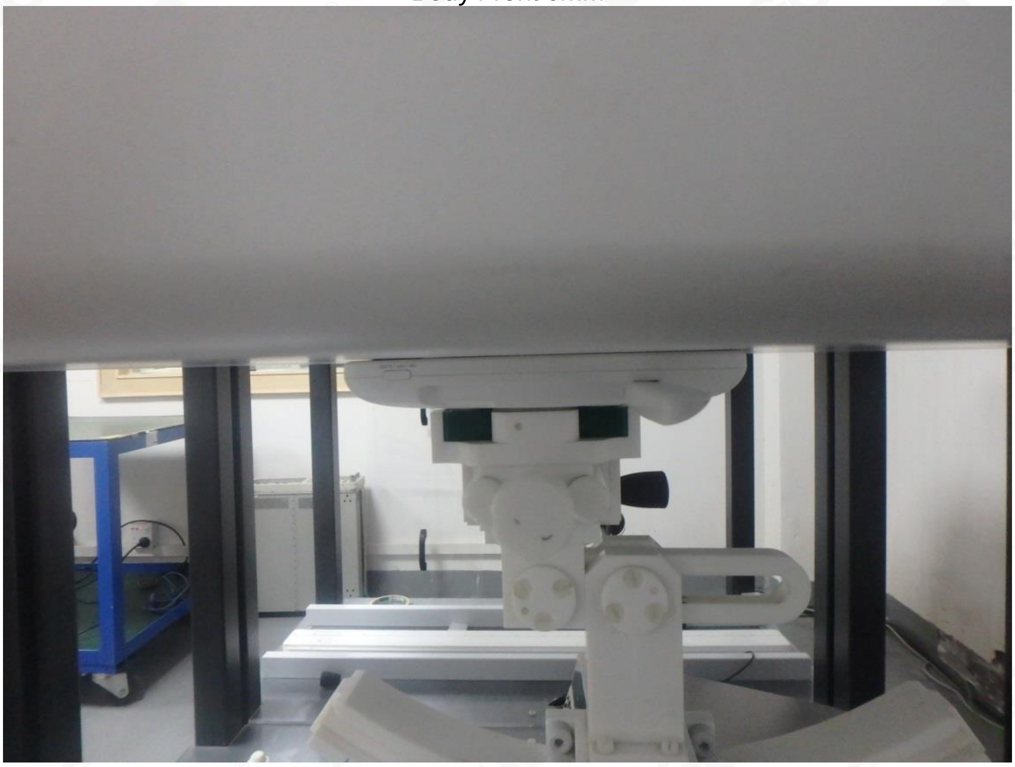

| 3D screen shot | Hot spot position |
|---|---|
|  |  |

## APPENDIX C. TEST SETUP PHOTOGRAPHS

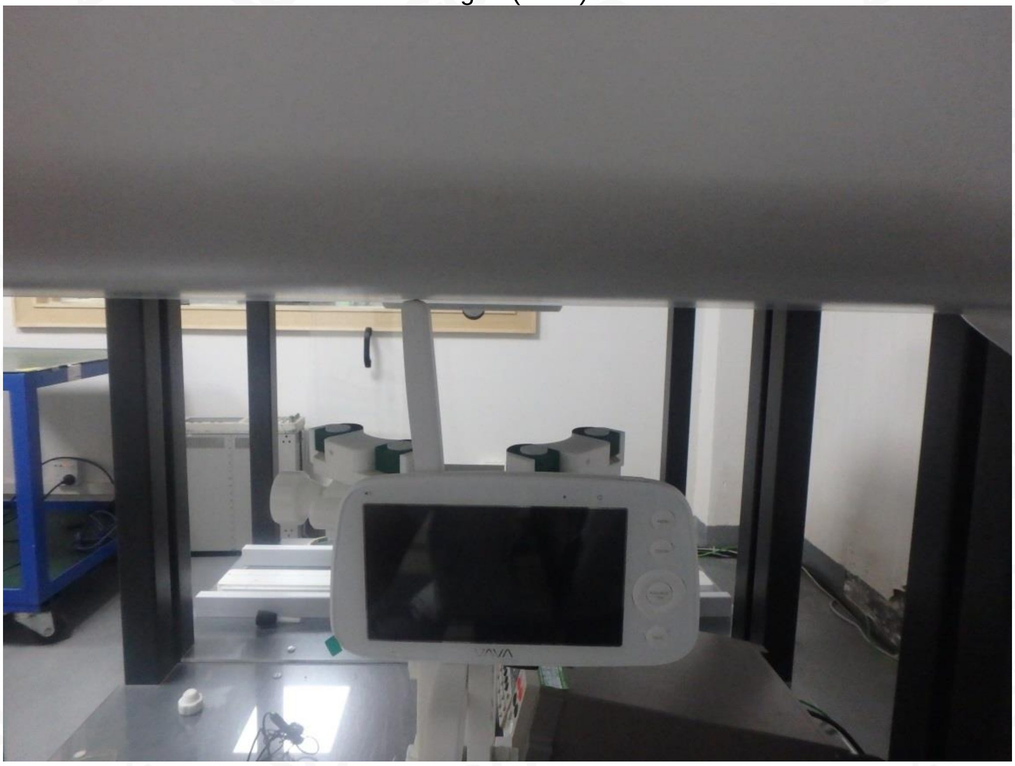
Body Back 0mm



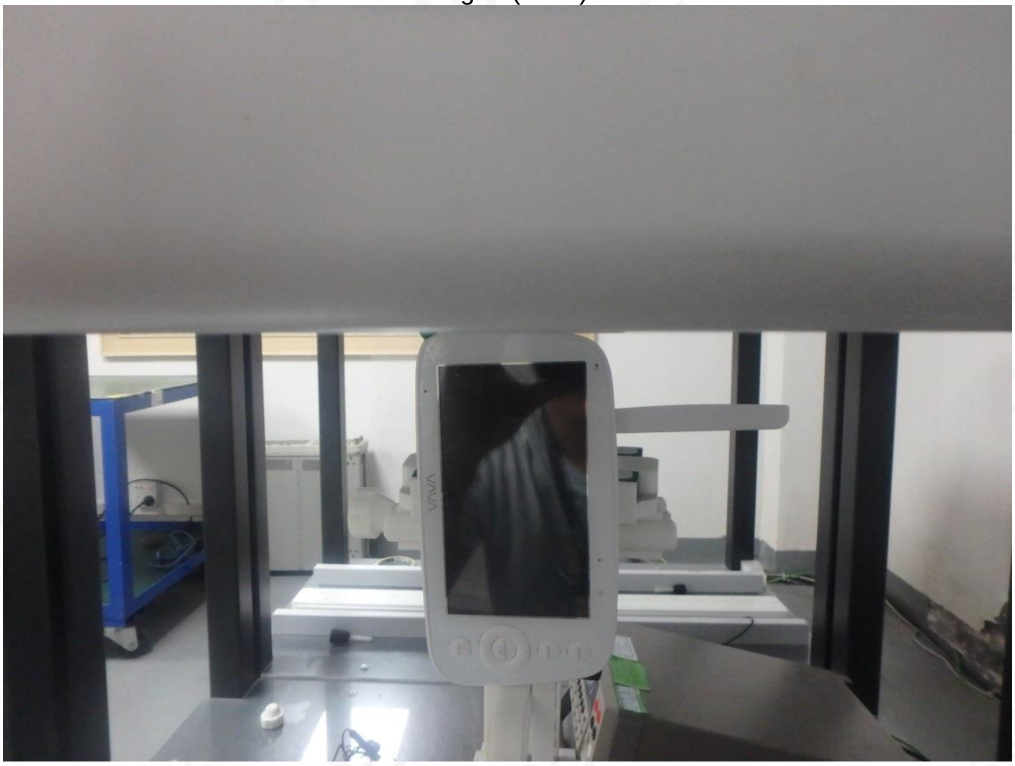
Body Front 0mm



Edge1 (0mm)

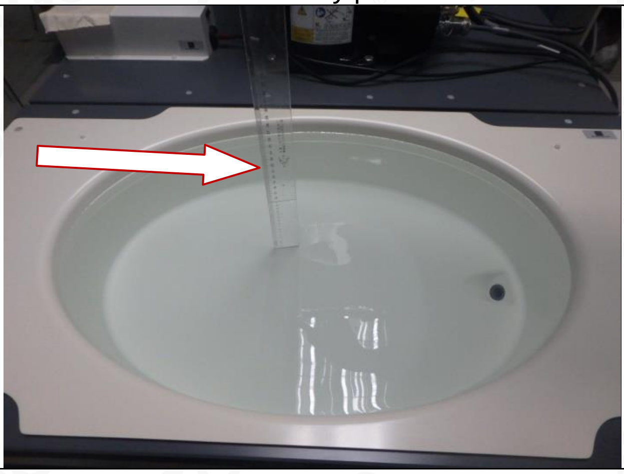


Edge4 (0mm)



## DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

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

| 2450MHz body phantom |
| --- |
|  |

## APPENDIX D. CALIBRATION DATA

Refer to Attached files.

# Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").

2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.

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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