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# SAR Test Report

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Report No.: AGC15661230401FH01

**FCC ID** : 2AZHPW0890

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION** : Neurosens IMU sensor

**BRAND NAME** : Neurosoft

**MODEL NAME** : Neurosens IMU sensor

**APPLICANT** : Neurosoft Ltd

**DATE OF ISSUE** : May 09, 2023

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

**REPORT VERSION** : V1.0

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



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 09, 2023	Valid	Initial Release

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Test Report	
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Applicant Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Manufacturer Name	Neurosoft Ltd
Manufacturer Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Factory Name	Neurosoft Ltd
Factory Address	Voronin str.5, Ivanovo, 153032, Russia Federation
Product Designation	Neurosens IMU sensor
Brand Name	Neurosoft
Model Name	Neurosens IMU sensor
EUT Voltage	DC 3.7V by battery
Applicable Standard	IEEE Std. 1528:2013 FCC 47 CFR Part 2§2.1093 IEEE Std C95.1™-2005
Date of receipt of test item	Apr .19, 2023
Test Date	May 04, 2023 to May 06, 2023
Report Template	AGCRT-US-4G/SAR (2021-04-20)

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

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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)	Highest Reported 10g-SAR(W/kg)	SAR Test Result
	Body-worn (with 0mm separation)	Limbs SAR (with 0mm separation)	
BLE GFSK 1Mbps	0.006	0.005	PASS
BLE GFSK 2Mbps	0.003	0.004	
2.4G WIFI	0.096	0.088	
5.3GHz U-NII-2A	1.028	0.823	
5.5GHz U-NII-2C	0.526	0.460	
<b>SAR Test Limit (W/kg)</b>	<b>1.6</b>	<b>4.0</b>	

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 D04 Interim General RF Exposure Guidance v01
- KDB 865664 D01 SAR Measurement 100MHz to 6GHz v01r04
- KDB 248227 D01 802 11 Wi-Fi SAR v02r02

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## 2. GENERAL INFORMATION

### 2.1. EUT Description

General Information	
Product Designation	Neurosens IMU sensor
Test Model	Neurosens IMU sensor
Hardware Version	V1.2
Software Version	V4.1.3
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	PCB Antenna
Bluetooth	
Bluetooth Version	<input checked="" type="checkbox"/> V5.0
Operation Frequency	2402~2480MHz
Type of modulation	BLE <input checked="" type="checkbox"/> GFSK 1Mbps <input checked="" type="checkbox"/> GFSK 2Mbps
Peak Power	BLE GFSK 1Mbps:7.679dBm; BLE GFSK 2Mbps:7.828dBm;
Antenna Gain	-1.56dBi
2.4GHz WIFI	
WIFI Specification	<input type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11b <input checked="" type="checkbox"/> 802.11g <input checked="" type="checkbox"/> 802.11n(20) <input checked="" type="checkbox"/> 802.11n(40)
Operation Frequency	2412~2462MHz
Avg. Burst Power	11b: 15.57dBm, 11g:14.16dBm, 11n(20):12.52dBm, 11n(40):13.07dBm
Antenna Gain	-1.56dBi
5 GHz WIFI	
WIFI Specification	<input checked="" type="checkbox"/> 802.11a <input checked="" type="checkbox"/> 802.11n20 <input checked="" type="checkbox"/> 802.11n40 <input type="checkbox"/> 802.11ac20 <input type="checkbox"/> 802.11ac40 <input type="checkbox"/> 802.11ac80
Operation Frequency	U-NII-2A: 5250MHz~5350MHz; U-NII-2C: 5470MHz~5725MHz;
Max. conducted Power	U-NII-2A: 15.45dBm; U-NII-2C: 12.31dBm;
Antenna Gain	-1.81dBi
Accessories	
Battery	Brand name: Robiton Model No. : LP-900-603048 Voltage and Capacitance: 3.7 V & 900mAh
Earphone	Brand name: N/A Model No. : N/A

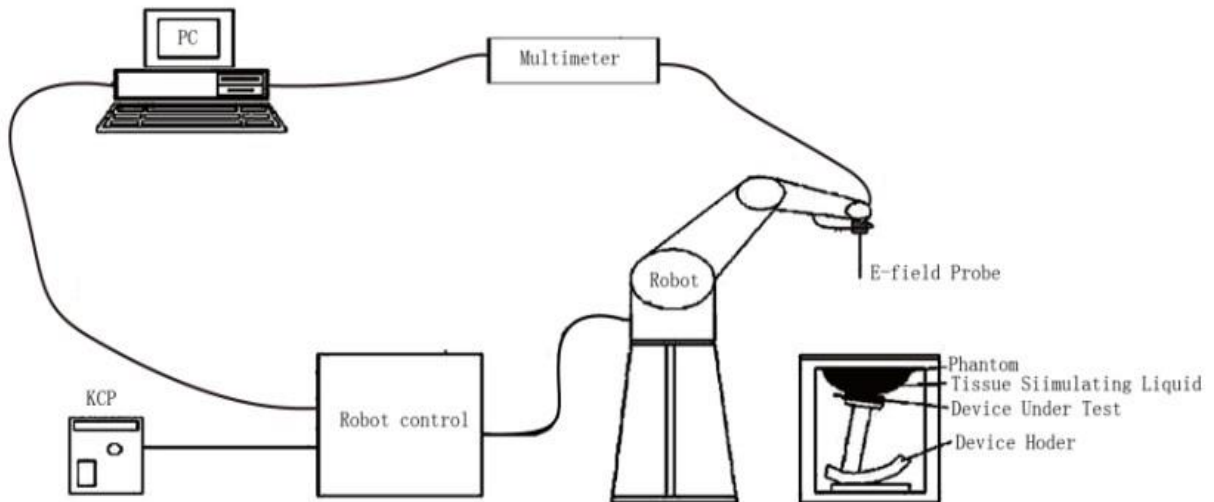
- Note: 1. CMU200 can measure the average power and Peak power at the same time  
2. The sample used for testing is end product.  
3. The test sample has no any deviation to the test method of standard mentioned in page 1.

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

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### 3. SAR MEASUREMENT SYSTEM

#### 3.1. The 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.

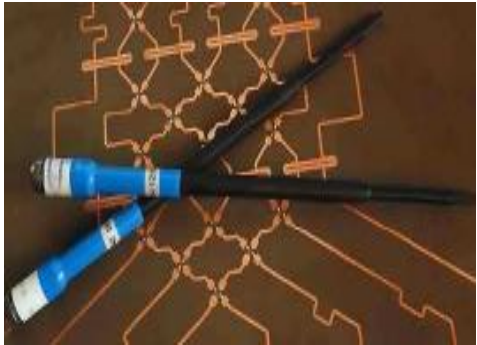
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### 3.2. COMOSAR E-Field Probe

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

<b>Model</b>	SSE2	
<b>Manufacture</b>	MVG	
<b>Identification No.</b>	SN 45/22 EPGO391	
<b>Frequency</b>	0.15GHz-6GHz Linearity:±0.09dB(0.15GHz-6GHz)	
<b>Dynamic Range</b>	0.01W/kg-100W/kg Linearity:±0.09dB	
<b>Dimensions</b>	Overall length:330mm Length of individual dipoles:2mm Maximum external diameter:8mm Probe Tip external diameter:2.5mm Distance between dipoles/ probe extremity:1mm	
<b>Application</b>	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

### 3.3. Robot

<p>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.</p> <p>The XL robot series have many features that are important for our application:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> High precision (repeatability 0.02 mm)</li> <li><input type="checkbox"/> High reliability (industrial design)</li> <li><input type="checkbox"/> Jerk-free straight movements</li> <li><input type="checkbox"/> Low ELF interference (the closed metallic construction shields against motor control fields)</li> <li><input type="checkbox"/> 6-axis controller</li> </ul>	
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### 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. 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 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). Thus the device needs no repositioning when changing the angles. The COMOSAR device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\epsilon_r = 3$  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:

- 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.

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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 <sub>h</sub>	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 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 and IEC62209 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

	≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ 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 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 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.

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Zoom Scan Parameters extracted from KDB865664 d01 SAR Measurement 100MHz to 6GHz

Maximum zoom scan spatial resolution: $\Delta x_{Zoom}$ , $\Delta y_{Zoom}$		$\leq 2$ GHz: $\leq 8$ mm 2 – 3 GHz: $\leq 5$ mm*	3 – 4 GHz: $\leq 5$ mm* 4 – 6 GHz: $\leq 4$ mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$	$\leq 5$ mm	3 – 4 GHz: $\leq 4$ mm 4 – 5 GHz: $\leq 3$ mm 5 – 6 GHz: $\leq 2$ mm
	graded grid	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq 4$ 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	$\geq 30$ mm	3 – 4 GHz: $\geq 28$ mm 4 – 5 GHz: $\geq 25$ mm 5 – 6 GHz: $\geq 22$ mm
<p>Note: <math>\delta</math> is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.</p> <p>* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is <math>\leq 1.4</math> W/kg, <math>\leq 8</math> mm, <math>\leq 7</math> mm and <math>\leq 5</math> 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.</p>			

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

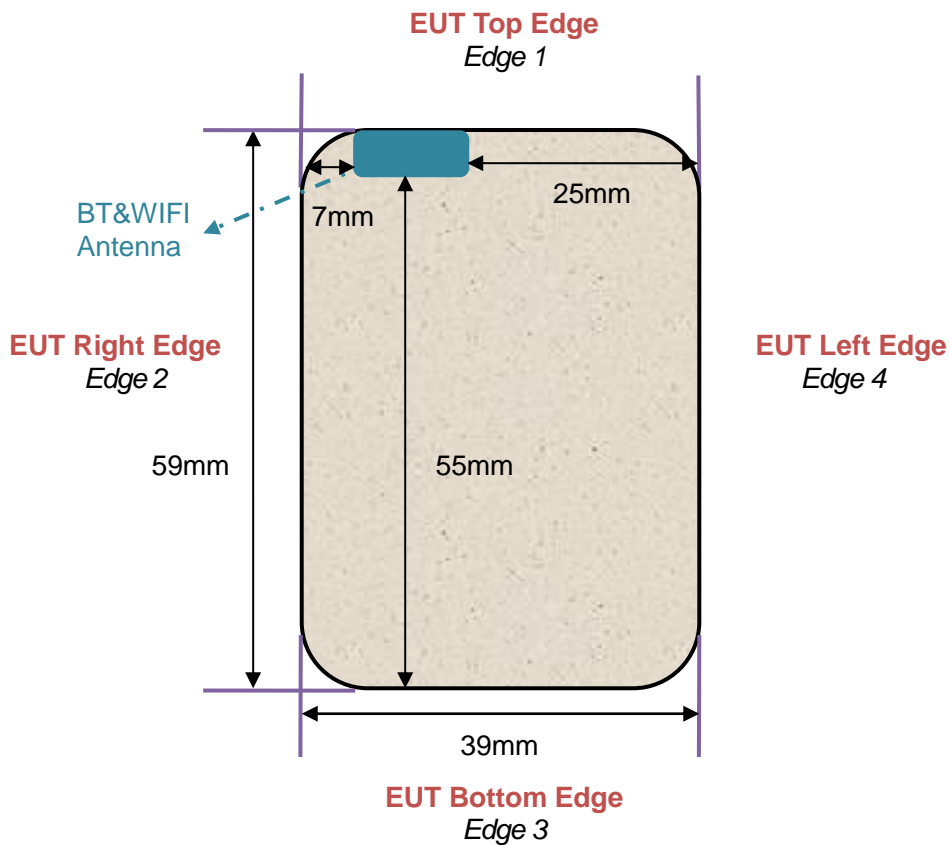
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### 4.3. RF Exposure Conditions

Test Configuration and setting:

For WLAN testing, the EUT is configured with the WLAN continuous TX tool through engineering command.

#### Antenna Location: (the back view)



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## 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	Diethylen glycol monohex ylether
2450 Head	71.88	0.16	0.0	7.99	0.0	19.97	0.0
5000 Head	65.52	0.0	0.0	0.0	0.0	17.24	17.24

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## 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	
	$\epsilon_r$	$\sigma$ (S/m)	$\epsilon_r$	$\sigma$ (S/m)
<b>2450</b>	<b>39.2</b>	<b>1.80</b>	<b>39.2</b>	<b>1.80</b>
2600	39.0	1.96	39.0	1.96
3000	38.5	2.40	38.5	2.40
5200	36.0	4.66	36.0	4.66
<b>5300</b>	<b>35.9</b>	<b>4.76</b>	<b>35.9</b>	<b>4.76</b>
<b>5600</b>	<b>35.5</b>	<b>5.07</b>	<b>35.5</b>	<b>5.07</b>
5800	35.3	5.27	35.3	5.27

( $\epsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho = 1000$  kg/m<sup>3</sup>)

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### 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 ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 39.2(35.28-43.12)	$\delta$ [s/m]1.80(1.62-1.98)		
	2437	39.68	1.85	20.7	May 04, 2023
	2440	39.68	1.85		
	2450	39.46	1.86		

Tissue Stimulant Measurement for 5300MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 35.9(32.31-39.49)	$\delta$ [s/m]4.76(4.284-5.236)		
	5260	35.74	4.87	21.2	May 05, 2023
	5300	35.68	4.88		
	5320	35.42	4.89		

Tissue Stimulant Measurement for 5600MHz					
Head	Fr. (MHz)	Dielectric Parameters ( $\pm 10\%$ )		Tissue Temp [°C]	Test time
		$\epsilon_r$ 35.5 (31.95-39.05)	$\delta$ [s/m]5.07(4.563 -5.577)		
	5590	35.35	4.96	21.8	May 06, 2023
	5600	35.12	4.97		

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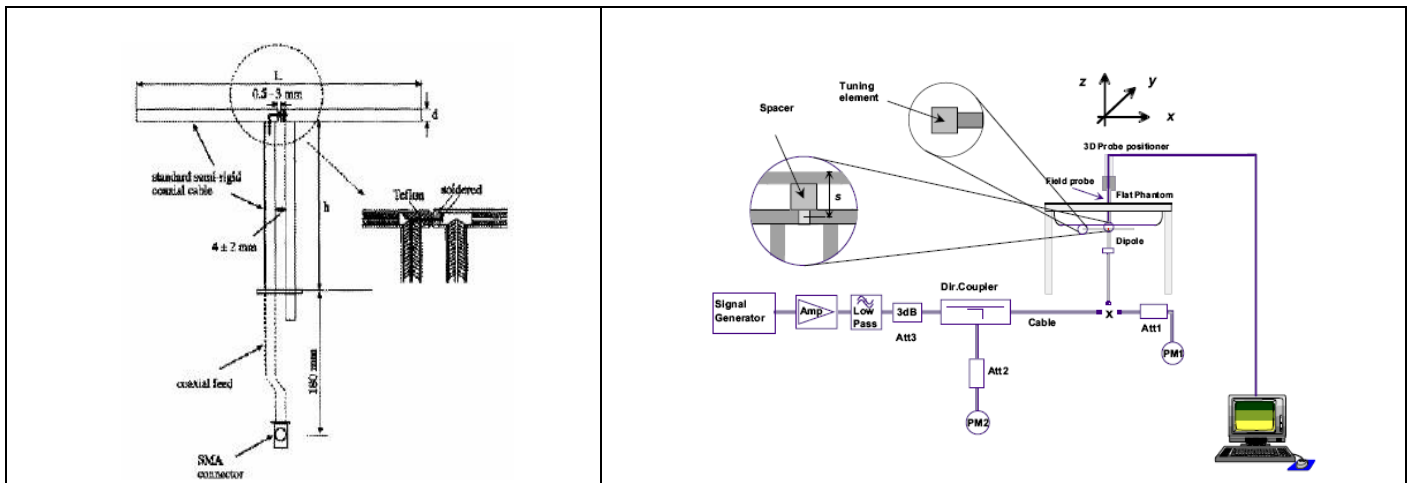
## 6. SAR SYSTEM CHECK PROCEDURE

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

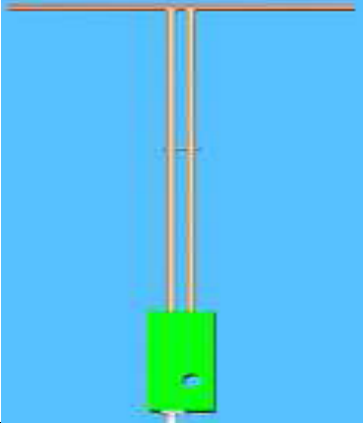

Each SATIMO system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the SATIMO software, enable the user to conduct the system check and system validation. System kit includes a dipole, and dipole device holder.

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.



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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>
	<p>The wave guide 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 wave guide.</p>

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6
5000MHz	20.6	40.3	3.6

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### 6.2.2. System Check Result

System Performance Check at 2450MHz & 5000MHz for Head								
Validation Kit: SN 29/15 DIP 2G450-393& SN 17/22 DIP 5G000-671								
Frequency [MHz]	Target Value(W/kg)		Reference Result ( $\pm 10\%$ )		Tested Value(W/kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
2450	54.32	24.25	48.888-59.752	21.825-26.675	54.24	24.31	20.7	May 04, 2023
5200	78.43	23.90	70.587-86.020	21.510-26.290	77.60	22.20	21.2	May 05, 2023
5600	78.20	24.12	70.380-86.02	21.708-26.532	82.20	23.50	21.8	May 06, 2023

Note:

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

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## 7. EUT TEST POSITION

This EUT was tested in **Back, Front and Top**.

### 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**.

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## 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

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## 9. TEST FACILITY

<b>Test Site</b>	Attestation of Global Compliance (Shenzhen) Co., Ltd
<b>Location</b>	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
<b>Designation Number</b>	CN1259
<b>FCC Test Firm Registration Number</b>	975832
<b>A2LA Cert. No.</b>	5054.02
<b>Description</b>	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
SAR Probe	MVG	SN 45/22 EPGO391	N/A	Dec. 02, 2022	Dec. 01, 2023
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. 03,2022	Aug. 02,2023
SAR Software	MVG-OpenSAR	N/A	OpenSAR V4_02_35	N/A	N/A
Dipole	SATIMO SID2450	SN 29/15 DIP 2G450-393	N/A	Apr. 28,2022	Apr. 27,2025
Dipole	SATIMO SID5000	SN 17/22 DIP 5G000-671	N/A	Apr. 28,2022	Apr. 27, 2025
Signal Generator	Agilent-E4438C	US41461365	V5.03	Aug. 03, 2022	Aug. 02, 2023
EXA Signal Analyzer	Agilent / N9010A	MY53470504	N/A	Aug. 04,2022	Aug. 03,2023
Network Analyzer	Rhode & Schwarz ZVL6	N/A	3.2	Oct. 17, 2022	Oct. 16, 2023
Attenuator	Warison /WATT-6SR1211	S/N:WRJ34AYM2F1	N/A	June 08,2022	June 07,2023
Attenuator	Mini-circuits / VAT-10+	31405	N/A	June 08,2022	June 07,2023
Amplifier	AS0104-55_55	1004793	N/A	June 09,2022	June 08,2023
Directional Couple	Werlatone/ C5571-10	SN99463	N/A	Mar. 10,2022	Mar. 09,2024
Directional Couple	Werlatone/ C6026-10	SN99482	N/A	Mar. 10,2022	Mar. 09,2024
Power Sensor	NRP-Z21	1137.6000.02	N/A	Sep. 06, 2022	Sep. 05, 2023
Power Sensor	NRP-Z23	100323	N/A	Feb. 15, 2023	Feb. 14, 2024
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. 15, 2022	Nov. 14, 2023

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

SATIMO Uncertainty- SN 45/22 EPGO391 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
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.215	R	1.732	0.707	0.707	0.088	0.088	∞
Hemispherical Isotropy	E.2.2	0.215	R	1.732	0.707	0.707	0.088	0.088	∞
Boundary effect	E.2.3	1.000	R	1.732	1	1	0.577	0.577	∞
Linearity	E.2.4	0.995	R	1.732	1	1	0.574	0.574	∞
System detection limits	E.2.4	1.000	R	1.732	1	1	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	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	1.732	1	1	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	1	1	0.808	0.808	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1	1	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1	1	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1	1	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1	1	1.328	1.328	∞
<b>Test sample Related</b>									
Test sample positioning	E.4.2	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	E.4.1	3	N	1	1	1	3.00	3.00	∞
Output power variation—SAR drift measurement	E.2.9	5	R	1.732	1	1	2.89	2.89	∞
SAR scaling	E.6.5	5	R	1.732	1	1	2.89	2.89	∞
<b>Phantom and tissue parameters</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	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	4	N	1	0.78	0.71	3.120	2.840	M
Liquid permittivity measurement	E.3.3	5	N	1	0.23	0.26	1.150	1.300	M
Liquid conductivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity—temperature uncertainty	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	∞
Combined Standard Uncertainty			RSS				10.529	10.344	
Expanded Uncertainty (95% Confidence interval)			K=2				21.059	20.689	

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SATIMO Uncertainty- SN 45/22 EPGO391									
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
<b>Measurement System</b>									
Probe calibration	E.2.1	7.000	N	1	1	1	7.000	7.000	∞
Axial Isotropy	E.2.2	0.215	R	1.732	1.000	1.000	0.124	0.124	∞
Hemispherical Isotropy	E.2.2	0.215	R	1.732	0.000	0.000	0.000	0.000	∞
Boundary effect	E.2.3	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Linearity	E.2.4	0.995	R	1.732	1.000	1.000	0.574	0.574	∞
System detection limits	E.2.4	1.000	R	1.732	1.000	1.000	0.577	0.577	∞
Modulation response	E.2.5	3.000	R	1.732	0.000	0.000	0.000	0.000	∞
Readout Electronics	E.2.6	0.021	N	1.000	1.000	1.000	0.021	0.021	∞
Response Time	E.2.7	0.000	R	1.732	0.000	0.000	0.000	0.000	∞
Integration Time	E.2.8	1.400	R	1.732	0.000	0.000	0.000	0.000	∞
RF ambient conditions-Noise	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
RF ambient conditions-reflections	E.6.1	3.000	R	1.732	1.000	1.000	1.732	1.732	∞
Probe positioner mechanical tolerance	E.6.2	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Probe positioning with respect to phantom shell	E.6.3	1.400	R	1.732	1.000	1.000	0.808	0.808	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.300	R	1.732	1.000	1.000	1.328	1.328	∞
<b>System validation source</b>									
Deviation of experimental dipole from numerical dipole	E.6.4	5	N	1	1	1	5	5	∞
Input power and SAR drift measurement	8,6.6.4	5	R	1.732	1	1	2.887	2.887	∞
Dipole axis to liquid distance	8,E.6.6	2	R	1.732	1	1	1.155	1.155	∞
<b>Phantom and set-up</b>									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	4	R	1.732	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	1.9	1.596	∞
Liquid conductivity (temperature uncertainty)	E.3.3	4	N	1	0.78	0.71	3.12	2.84	∞
Liquid conductivity (measured)	E.3.3	5	N	1	0.23	0.26	1.15	1.3	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.5	R	1.732	0.78	0.71	1.126	1.025	∞
Liquid permittivity (measured)	E.3.4	2.5	R	1.732	0.23	0.26	0.332	0.375	M
Combined Standard Uncertainty			RSS				10.462	10.276	
Expanded Uncertainty (95% Confidence interval)			K=2				20.925	20.552	

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SATIMO Uncertainty- SN 45/22 EPGO391									
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
<b>Measurement System</b>									
Probe calibration drift	E.2.1.3	7.000	N	1	1	1	7	7	∞
Axial Isotropy	E.2.2	0.215	R	$\sqrt{3}$	0	0	0	0	∞
Hemispherical Isotropy	E.2.2	0.215	R	$\sqrt{3}$	0	0	0	0	∞
Boundary effect	E.2.3	1.000	R	$\sqrt{3}$	0	0	0	0	∞
Linearity	E.2.4	0.995	R	$\sqrt{3}$	0	0	0	0	∞
System detection limits	E.2.4	1	R	$\sqrt{3}$	0	0	0	0	∞
Modulation response	E.2.5	3	R	$\sqrt{3}$	0	0	0	0	∞
Readout Electronics	E.2.6	0.021	N	$\sqrt{3}$	0	0	0	0	∞
Response Time	E.2.7	0	R	$\sqrt{3}$	0	0	0	0	∞
Integration Time	E.2.8	1.4	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-Noise	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
RF ambient conditions-reflections	E.6.1	3	R	$\sqrt{3}$	0	0	0	0	∞
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	0.00	∞
<b>System check source (dipole)</b>									
Deviation of experimental dipoles	E.6.4	2	N	1	1	1	2	2	∞
Input power and SAR drift measurement	8,6.6.4	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance	8,E.6.6	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
<b>Phantom and tissue parameters</b>									
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	1.000	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	4	N	1.000	0.78	0.71	3.12	2.84	∞
Liquid permittivity measurement	E.3.3	5	N	1.000	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	M
Combined Standard Uncertainty			RSS				8.927	8.708	
Expanded Uncertainty (95% Confidence interval)			K=2				17.853	17.415	

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## 12. CONDUCTED POWER MEASUREMENT

### Bluetooth\_V5.0(BLE)

Modulation	Channel	Frequency(MHz)	Peak Power (dBm)
GFSK 1M	0	2402	<b>7.679</b>
	19	2440	7.654
	39	2480	7.587
GFSK 2M	0	2402	7.777
	19	2440	<b>7.828</b>
	39	2480	7.764

### WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	Avg. Burst Power(dBm)
802.11b	1	01	2412	15.32
		06	2437	15.51
		11	2462	<b>15.57</b>
802.11g	6	01	2412	14.03
		06	2437	13.71
		11	2462	14.16
802.11n(20)	6.5	01	2412	12.20
		06	2437	12.38
		11	2462	12.52
802.11n(40)	13.5	03	2422	12.60
		06	2437	12.39
		09	2452	13.07

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**5GHz WIFI**

Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			6M	9M	12M	18M	24M	36M	48M	54M
802.11a	52	5260	<b>15.45</b>	15.30	15.24	15.14	14.99	14.98	14.78	14.65
	56	5280	15.22	15.09	14.91	14.90	14.79	14.75	14.53	14.49
	60	5300	15.36	15.26	15.05	15.01	14.94	14.72	14.68	14.61
	64	5320	15.35	15.23	15.02	15.01	14.91	14.80	14.72	14.58
	100	5500	10.62	10.53	10.36	10.26	10.18	10.04	9.95	9.90
	104	5520	10.41	10.31	10.19	10.04	9.95	9.86	9.73	9.67
	108	5540	10.38	10.22	10.13	10.05	9.91	9.72	9.73	9.64
	112	5560	10.37	10.24	10.15	10.05	9.90	9.85	9.68	9.61
	116	5580	10.46	10.31	10.22	10.11	10.00	9.87	9.78	9.74
	120	5600	10.66	10.51	10.44	10.35	10.20	10.14	9.99	9.90
	124	5620	10.54	10.41	10.21	10.22	10.11	10.01	9.85	9.85
	128	5640	10.48	10.38	10.25	10.13	10.06	9.93	9.80	9.72
	132	5660	10.56	10.44	10.27	10.22	10.12	10.09	9.93	9.79
	136	5680	10.62	10.53	10.34	10.26	10.18	10.05	9.95	9.95
140	5700	11.75	11.65	11.52	11.38	11.29	11.28	11.07	11.01	
Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (20)	52	5260	13.65	13.57	13.43	13.39	13.19	13.12	12.98	12.82
	56	5280	13.42	13.24	13.16	13.15	12.99	12.95	12.73	12.69
	60	5300	13.59	13.41	13.31	13.21	13.17	13.08	12.91	12.84
	64	5320	13.52	13.45	13.25	13.14	13.08	12.94	12.89	12.75
	100	5500	10.74	10.62	10.51	10.32	10.30	10.11	10.07	10.02
	104	5520	10.66	10.51	10.44	10.25	10.20	10.13	9.98	9.92
	108	5540	10.52	10.36	10.28	10.18	10.05	9.93	9.87	9.76
	112	5560	10.57	10.42	10.36	10.23	10.10	10.00	9.88	9.82
	116	5580	10.64	10.45	10.39	10.22	10.18	10.06	9.96	9.92
	120	5600	10.77	10.68	10.50	10.36	10.37	10.25	10.12	10.04
	124	5620	10.64	10.53	10.41	10.27	10.15	10.04	10.00	9.89
	128	5640	10.59	10.52	10.38	10.25	10.13	10.01	9.96	9.82
	132	5660	10.65	10.55	10.45	10.38	10.21	10.12	9.96	9.90
	136	5680	10.78	10.66	10.52	10.44	10.36	10.25	10.14	10.01
140	5700	11.83	11.65	11.61	11.55	11.37	11.28	11.16	11.07	

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Mode	channel	Frequency	Power(dBm)							
			Data Rate(bps)							
			MCS0	MCS1	MCS2	MCS3	MCS4	MCS5	MCS6	MCS7
802.11n (40)	54	5270	12.74	12.59	12.53	12.43	12.28	12.17	12.07	11.98
	62	5310	12.78	12.65	12.55	12.46	12.35	12.24	12.09	12.05
	102	5510	10.64	10.54	10.37	10.29	10.22	10.01	9.96	9.89
	110	5550	10.85	10.73	10.52	10.51	10.41	10.35	10.22	10.08
	118	5590	11.43	11.34	11.26	11.07	10.99	10.82	10.76	10.71
	126	5630	11.89	11.79	11.68	11.52	11.43	11.33	11.21	11.15
	134	5670	<b>12.31</b>	12.15	12.07	11.98	11.84	11.76	11.66	11.55

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## 13. TEST RESULTS

### 13.1. SAR Test Results Summary

#### 13.1.1. Test position and configuration

1. The EUT is a model of NeurosensSet of IMU Sensors. According to the user manual, EUT is worn on the human body and limbs for use.
2. According to KDB 447498 D04 General RF Exposure Guide v01, due to maximum peak power for BT&WIFI is more than just a test exclusion threshold, which must be tested.
3. SAR test method is request:
  - (1) Lab. use the head liquid with a separation of 0mm at flat phantom to test Body-worn and Limbs SAR.
4. For SAR testing, the device was controlled by software to test at reference fixed frequency points.
5. This device does not support multi -launch mode when the wireless function is evaluated.

#### 13.1.2. Operation Mode

1. Per KDB 447498 D04 v01 ,for each exposure position, if the highest 1-g SAR is  $\leq 0.8$  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  $\geq 0.8$ 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.
  - (1) When the original highest measured SAR is  $\geq 0.8$ W/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  $\geq 1.45$  W/kg.
  - (3) Perform a third repeated measurement only if the original, first and second repeated measurement is  $\geq 1.5$  W/kg and ratio of largest to smallest SAR for the original, first and second measurement is  $\geq 1.20$ .
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.)  $\times$  [maximum turn-up power (mw)/ maximum measurement output power(mw) ]
4. Per KDB 248227 D01 v02r02 Chapter 5.2.2,when SAR measurement is required for 2.4GHz 802.11g/n OFDM configurations, the measurement and test reducing procedures for OFDM are applied. SAR is not required for the following 2.4 GHz OFDM conditions.
  - (1) When KDB Publication 447498 D04 SAR test exclusion applies to the OFDM configuration.
  - (2) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg,
5. Per KDB 248227 D01 v02r02 Chapter 5.3.4, SAR measurement requirements for the remaining 802.11 transmission mode configurations that have not been tested in the initial test configuration are determined separately for each standalone and aggregated frequency band, in each exposure condition, according to the maximum output power specified for production units. The initial test position procedure is applied to next to the ear, UMPC mini-tablet and hotspot mode configurations. When the same maximum output power is specified for multiple transmission modes, the procedures in 5.3.2 are applied to determine the

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test configuration. Additional power measurements may be required to determine if SAR measurements are required for subsequent highest output power channels in a subsequent test configuration. The subsequent test configuration and SAR measurement procedures are described in the following.

- (1) When SAR test exclusion provisions of KDB Publication 447498 D04 are applicable and SAR measurement is not required for the initial test configuration, SAR is also not required for the next highest maximum output power transmission mode subsequent test configuration(s) in that frequency band or aggregated band and exposure configuration.
- (2) When the highest reported SAR for the initial test configuration (when applicable, include subsequent highest output channels), according to the initial test position or fixed exposure position requirements, is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg, SAR is not required for that subsequent test configuration.

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### 13.1.3. Test Result

SAR MEASUREMENT									
Depth of Liquid (cm):>15					Relative Humidity (%):59.1				
Product: Neurosens IMU sensor									
Test Mode: Bluetooth(BLE)									
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	SAR (1g) (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit (W/kg)
<b>BLE GFSK 1Mbps:</b>									
Body back	GFSK	19	2440	0.06	<b>0.006</b>	7.700	7.654	<b>0.006</b>	1.6
<b>BLE GFSK 2Mbps:</b>									
Body back	GFSK	19	2440	-0.07	<b>0.003</b>	7.900	7.828	<b>0.003</b>	1.6
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<math>\pm 5\%</math>)	10g-Extremity SAR (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
<b>BLE GFSK 1Mbps:</b>									
Back	GFSK	19	2440	0.06	0.003	7.700	7.654	0.003	4.0
Front	GFSK	19	2440	-0.02	0.005	7.700	7.654	0.005	4.0
Top	GFSK	19	2440	-0.08	<b>0.005</b>	7.700	7.654	<b>0.005</b>	4.0
<b>BLE GFSK 2Mbps:</b>									
Back	GFSK	19	2440	-0.07	0.003	7.900	7.828	0.003	4.0
Front	GFSK	19	2440	0.06	<b>0.004</b>	7.900	7.828	<b>0.004</b>	4.0
Top	GFSK	19	2440	0.05	0.004	7.900	7.828	0.004	4.0

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB 447498.
- The test separation of all above table(body part& Limbs part) is 0mm.
- Plots are only shown for the bold marked worst case SAR results.

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SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 59.1					
Product: Neurosens IMU sensor									
Test Mode: 2.4GHz 802.11b									
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	DTS	6	2437	0.09	<b>0.094</b>	15.60	15.51	<b>0.096</b>	1.6
Position	Mode	Ch.	Fr. (MHz)	Power Drift (<±5%)	10g-Extremity SAR (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
Back	DTS	6	2437	0.09	0.049	15.60	15.51	0.050	4.0
Front	DTS	6	2437	-0.02	<b>0.086</b>	15.60	15.51	<b>0.088</b>	4.0
Top	DTS	6	2437	-0.05	0.074	15.60	15.51	0.076	4.0

Note:

- According to KDB248227, SAR is not required for 802.11n HT20/HT40 channels when the maximum average output power is less than 1/4 dB higher than that measured on the corresponding 802.11a/b channels.
- All of above “DTS” means data transmitters.
- The test separation of all above table(body part& Limbs part) is 0mm.
- Plots are only shown for the bold marked worst case SAR results.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 47.7				
Product: Neurosens IMU sensor								
Test Mode:5.3GHz WIFI-802.11a								
Position	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	52	5260	0.14	0.985	15.50	15.45	0.996	1.6
Body back	60	5300	-0.15	<b>0.995</b>	15.50	15.36	<b>1.028</b>	1.6
Body back	64	5320	0.12	0.958	15.50	15.35	0.992	1.6
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	10g-Extr emity SAR (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
Back	52	5260	0.14	0.773	15.50	15.45	0.782	4.0
Back	60	5300	-0.15	0.792	15.50	15.36	0.818	4.0
Back	64	5320	0.12	0.765	15.50	15.35	0.792	4.0
Front	52	5260	-0.19	0.745	15.50	15.45	0.754	4.0
Front	60	5300	0.20	0.772	15.50	15.36	0.797	4.0
Front	64	5320	-0.25	<b>0.795</b>	15.50	15.35	<b>0.823</b>	4.0
Top	52	5260	-0.18	0.720	15.50	15.45	0.728	4.0
Top	60	5300	-0.17	0.740	15.50	15.36	0.764	4.0
Top	64	5320	0.23	0.737	15.50	15.35	0.763	4.0

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
- The test separation of all above table(body part& Limbs part) is 0mm.
- Plots are only shown for the bold marked worst case SAR results.

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SAR MEASUREMENT								
Depth of Liquid (cm):>15				Relative Humidity (%): 58.3				
Product: Neurosens IMU sensor								
Test Mode:5.5GHz WIFI-802.11n(40)								
Position	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	118	5590	-0.12	<b>0.421</b>	12.40	11.43	<b>0.526</b>	1.6
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	10g-Extr emity SAR (W/kg)	Max. Tune-up Power (dBm)	Meas. output Power (dBm)	Scaled SAR (W/kg)	Limit W/kg
Back	118	5590	-0.12	0.366	12.40	11.43	0.458	4.0
Front	118	5590	0.09	0.335	12.40	11.43	0.419	4.0
Top	118	5590	0.05	<b>0.368</b>	12.40	11.43	<b>0.460</b>	4.0

Note:

- When the 1-g Reported SAR is  $\leq 0.8$  W/kg, testing for low and high channel is optional. Refer to KDB447498.
- The test separation of all above table(body part& Limbs part) is 0mm.
- Plots are only shown for the bold marked worst case SAR results.

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Repeated SAR									
Product: Neurosens IMU sensor									
Test Mode: 5.3GHz WIFI-802.11a									
Position	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	60	5300	-0.12	<b>1.329</b>	--	--	--	--	1.6
Position	Ch.	Fr. (MHz)	Power Drift (<±5%)	Once SAR (10g) (W/kg)	Power Drift (<±5%)	Twice SAR (10g) (W/kg)	Power Drift (<±5%)	Third SAR (1g) (W/kg)	Limit W/kg
Front	64	5320	-0.26	<b>0.735</b>	--	--	--	--	4.0

The second repeated SAR judge reference							
Product: Neurosens IMU sensor							
Band	Position	Ch.	Fr. (MHz)	Original SAR (1g) (W/kg)	First SAR (1g) (W/kg)	Ratio	Limit
5.3GHz WIFI-802.11a	Body back	60	5300	0.995	1.329	0.749	<1.2
Band	Position	Ch.	Fr. (MHz)	Original SAR (10g) (W/kg)	First SAR (10g) (W/kg)	Ratio	Limit
5.3GHz WIFI-802.11a	Front	64	5320	0.795	0.735	1.082	<1.2

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## APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab  
System Check Head 2450 MHz  
DUT: Dipole 2450 MHz Type: SID 2450

Date: May 04, 2023

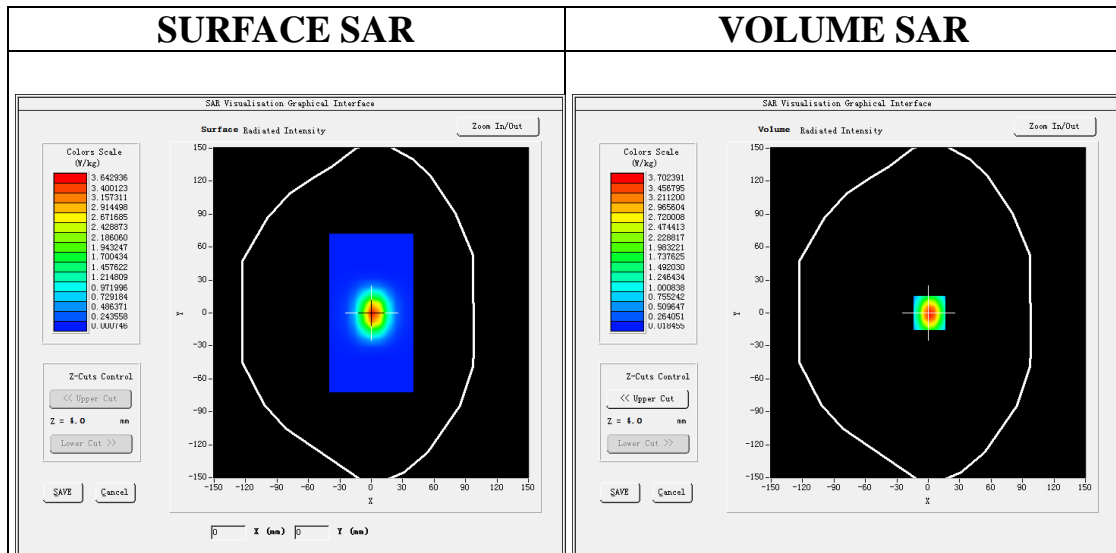
Communication System CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1; Conv.F=2.34  
Frequency: 2450 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.86$  mho/m;  $\epsilon_r = 39.46$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=18dBm  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

### SATIMO Configuration

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin 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



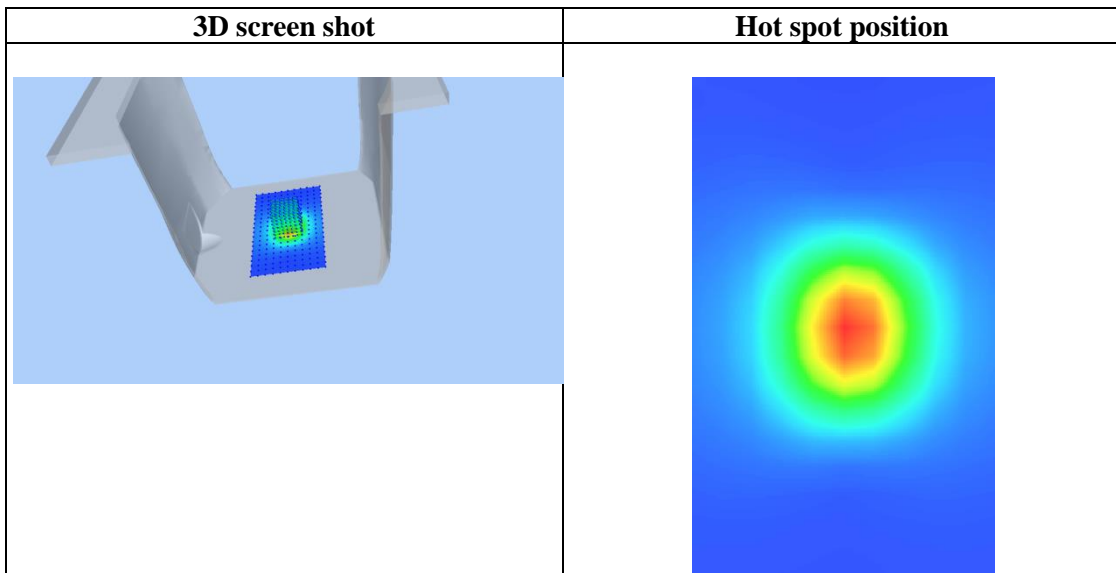
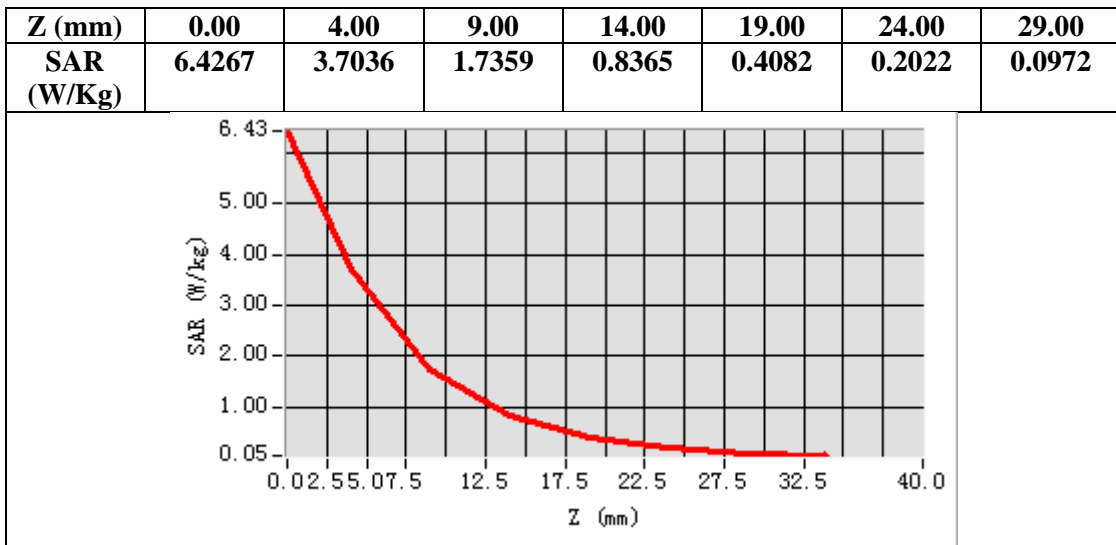
**Maximum location: X=1.00, Y=0.00**

**SAR Peak: 6.39 W/kg**

<b>SAR 10g (W/Kg)</b>	1.534152
<b>SAR 1g (W/Kg)</b>	3.422361

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**Test Laboratory: AGC Lab**  
**System Check 5200 MHz**

**Date: May 05, 2023**

**DUT: Dipole 5000MHz Type: SWG5500**

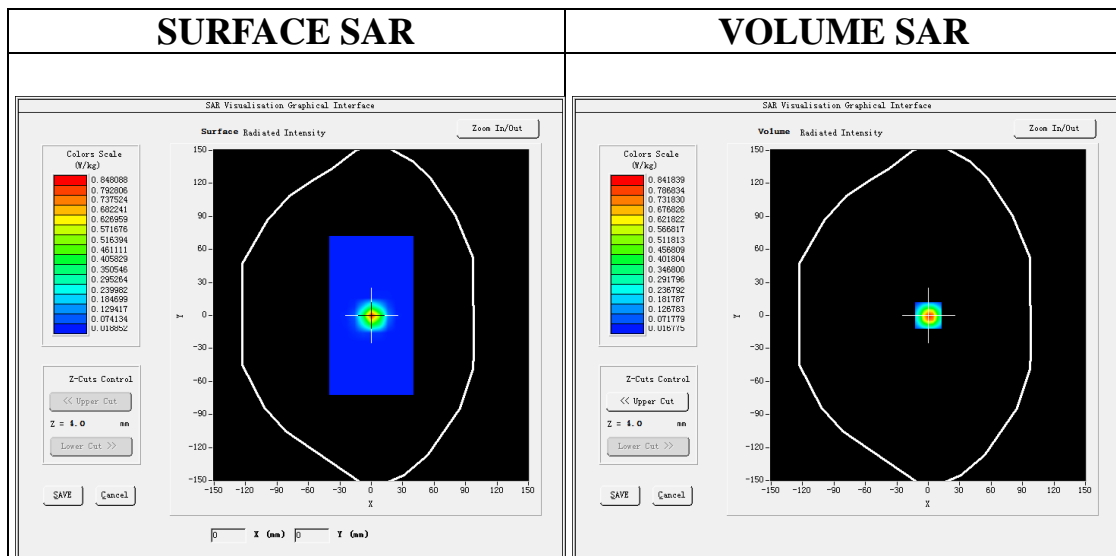
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.49  
Frequency: 5200 MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.88$  mho/m;  $\epsilon_r = 35.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 5200 MHz Body/Area Scan:** Measurement grid: dx=8mm, dy=8mm

**Configuration/System Check 5200 MHz Body/Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

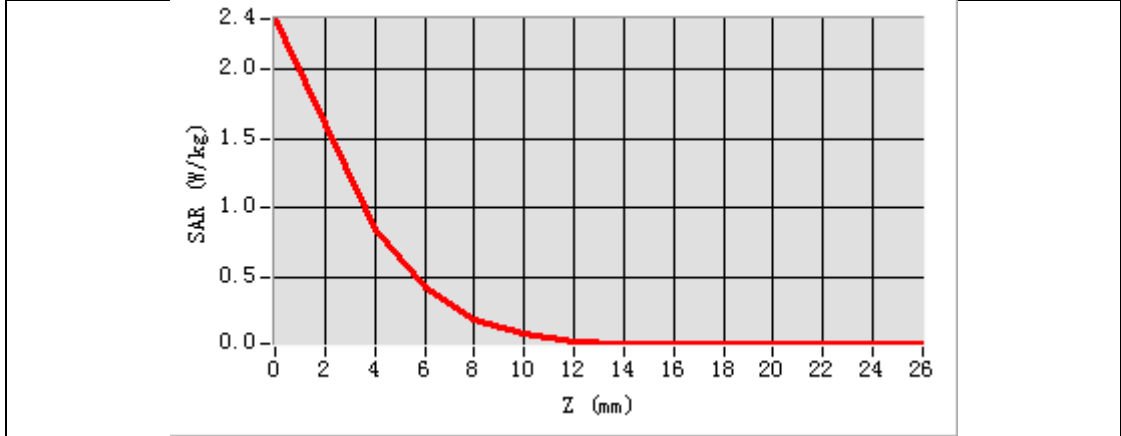


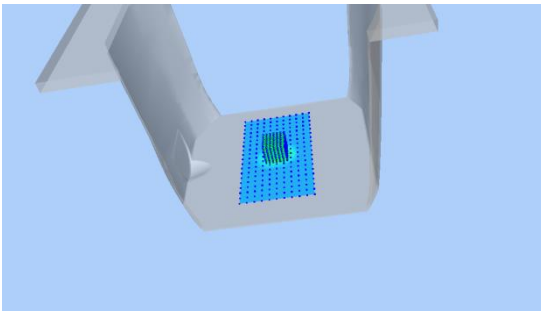
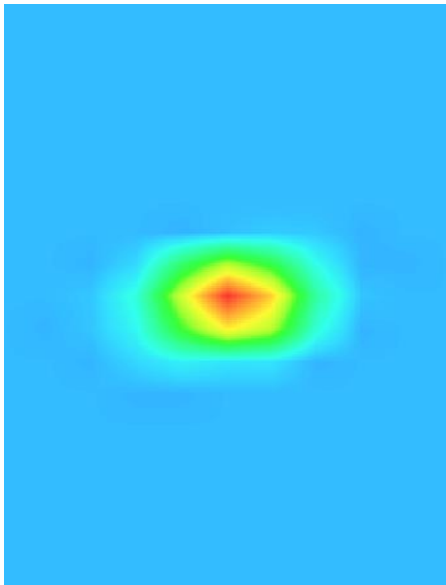
**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 2.33 W/kg**

<b>SAR 10g (W/Kg)</b>	0.222174
<b>SAR 1g (W/Kg)</b>	0.775814

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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.3683	0.8418	0.4230	0.1957	0.0877	0.0329	0.0246	0.0192	0.0210	0.0210	0.0210	0.0210



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**System Check 5600 MHz**

**Date: May 06, 2023**

**DUT: Dipole 5000MHz Type: SWG5500**

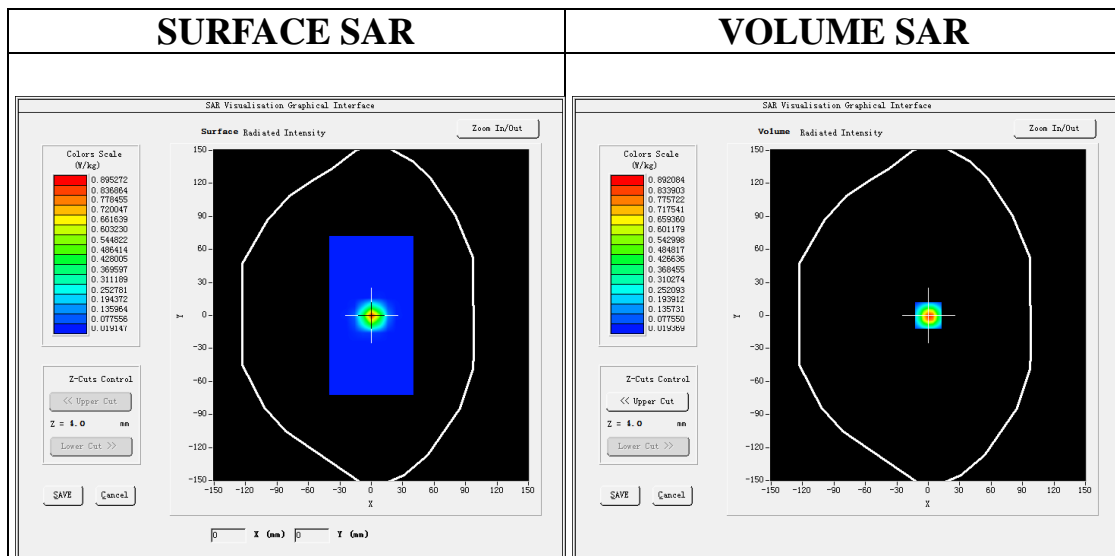
Communication System: CW; Communication System Band: D5000 (5000.0 MHz); Duty Cycle: 1:1; Conv.F=1.96  
Frequency: 5600 MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.97$  mho/m;  $\epsilon_r = 35.12$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section; Input Power=10dBm  
Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/System Check 5200 MHz Body/Area Scan: Measurement grid: dx=8mm, dy=8mm**

**Configuration/System Check 5200 MHz Body/Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm**

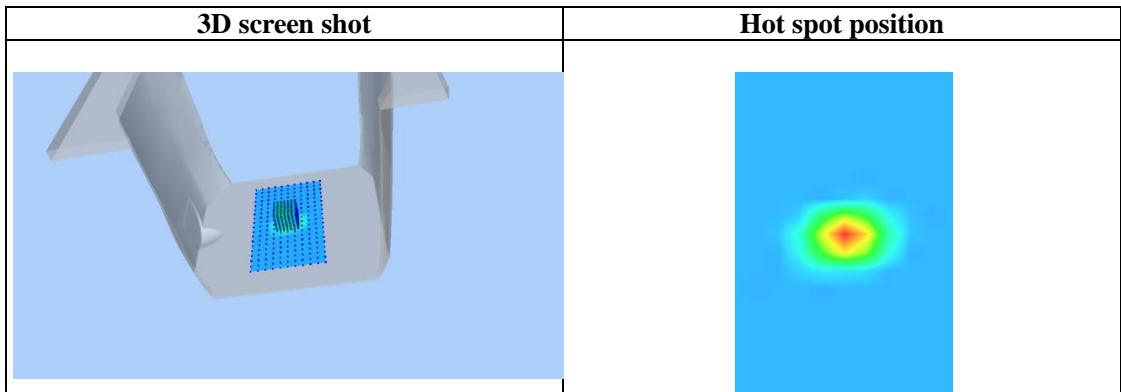
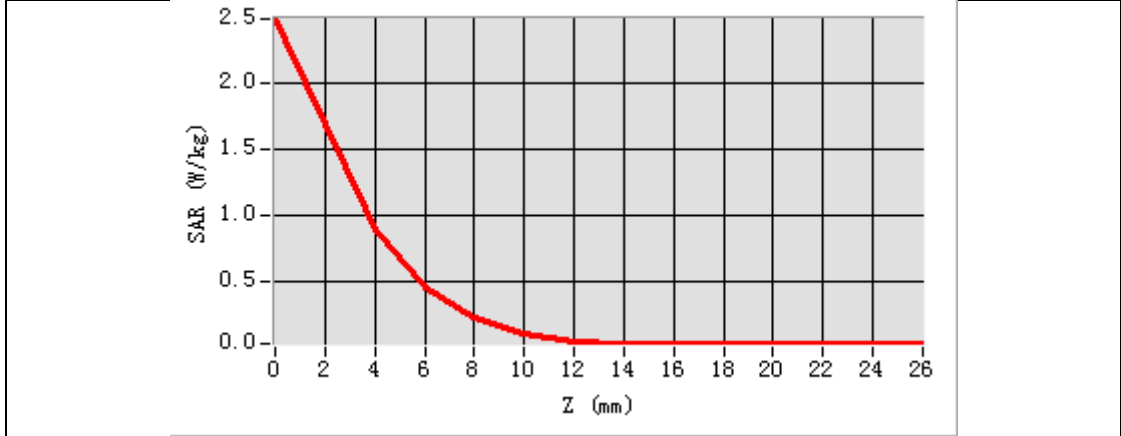


**Maximum location: X=0.00, Y=0.00**  
**SAR Peak: 2.47 W/kg**

<b>SAR 10g (W/Kg)</b>	0.235149
<b>SAR 1g (W/Kg)</b>	0.821958

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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.4830	0.8921	0.4470	0.2116	0.0967	0.0347	0.0249	0.0195	0.0215	0.0215	0.0215	0.0215



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## APPENDIX B. SAR MEASUREMENT DATA

### BLE GFSK 1Mbps MODE

Test Laboratory: AGC Lab

Date: May 04, 2023

BT Mid- Body back

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

Communication System: Bluetooth; Communication System Band: BT; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2440 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

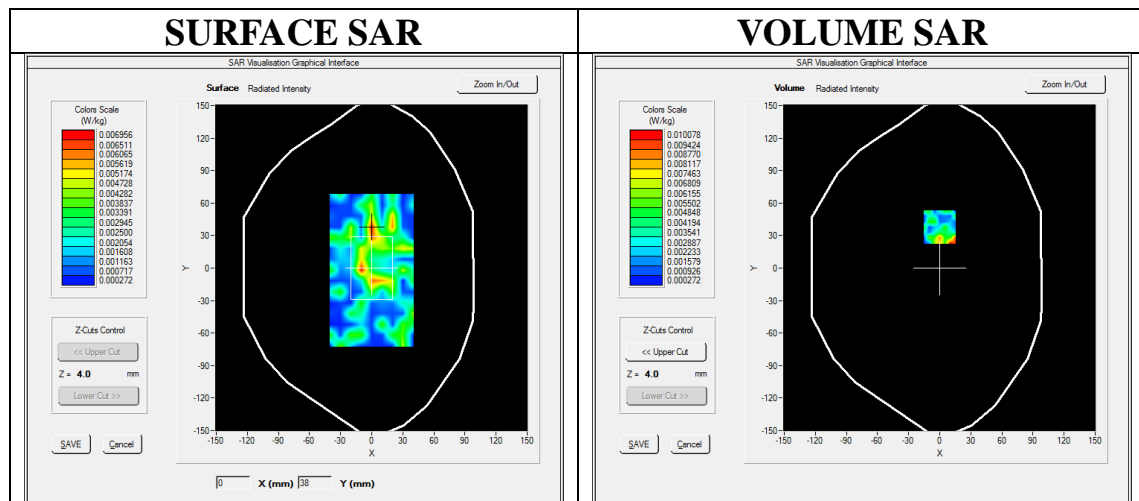
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/BT Mid- Body back /Area Scan: Measurement grid: dx=10mm, dy=10mm

Configuration/BT Mid- Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	Bluetooth
Channels	Middle
Signal	Crest factor: 1.0



Maximum location: X=0.00, Y=38.00

SAR Peak: 0.02 W/kg

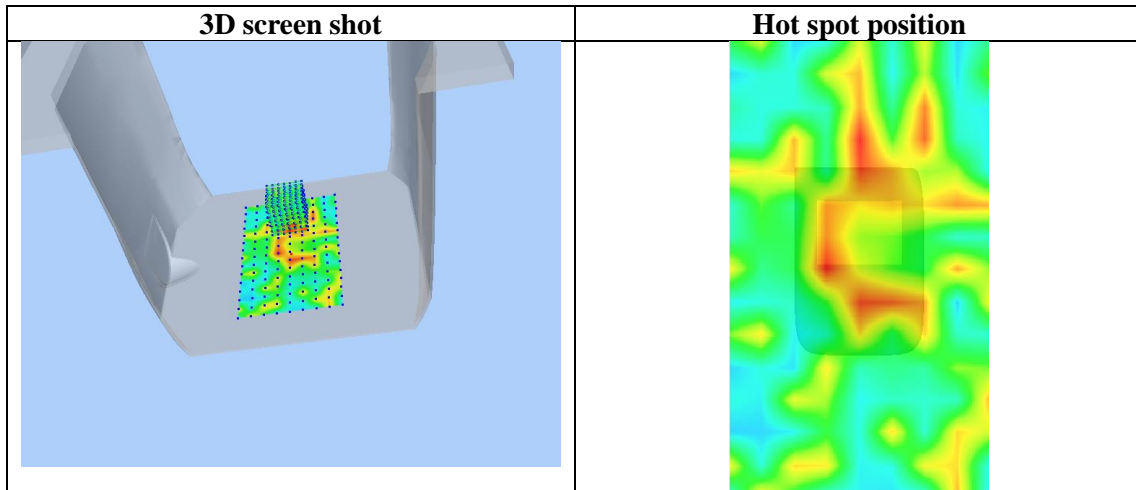
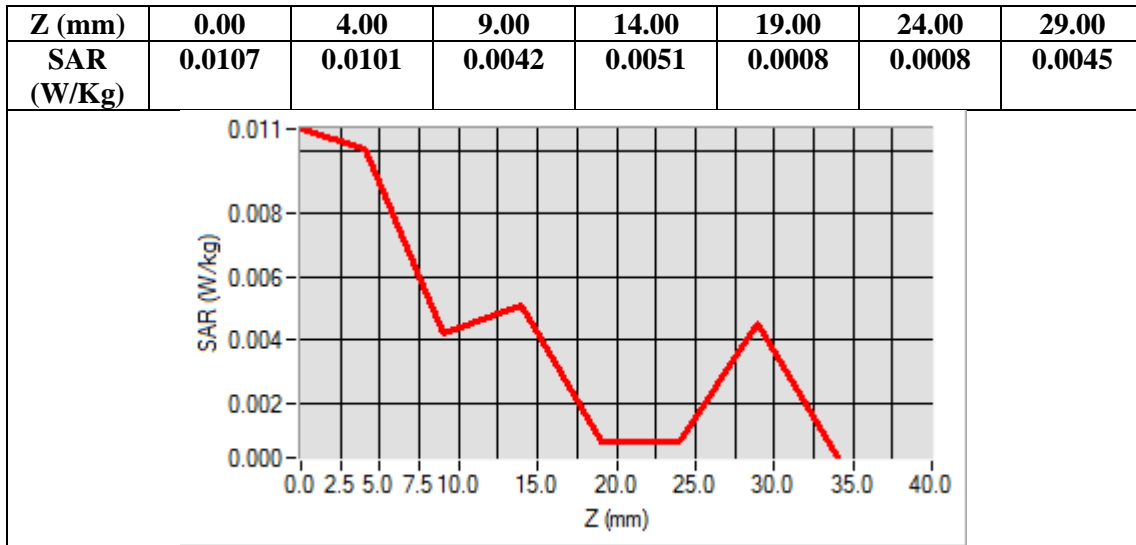
SAR 10g (W/Kg)	0.003219
SAR 1g (W/Kg)	0.006428

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Attestation of Global Compliance(Shenzhen)Co., Ltd

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Test Laboratory: AGC Lab  
BT Mid- Top

Date: May 04, 2023

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

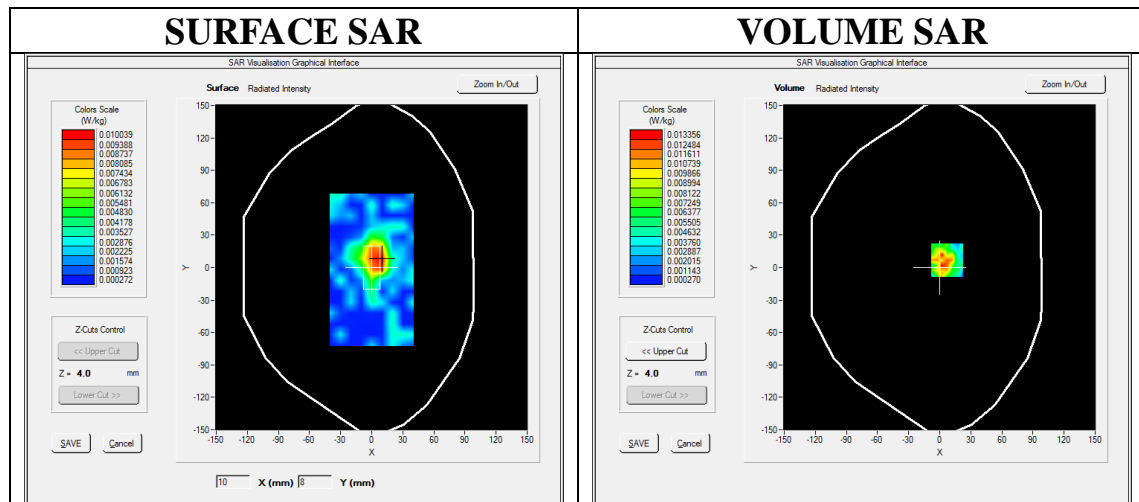
Communication System: Bluetooth; Communication System Band: BT; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2440 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/BT Mid- Top /Area Scan: Measurement grid: dx=10mm, dy=10mm  
Configuration/BT Mid- Top /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Top
Band	Bluetooth
Channels	Middle
Signal	Crest factor: 1.0

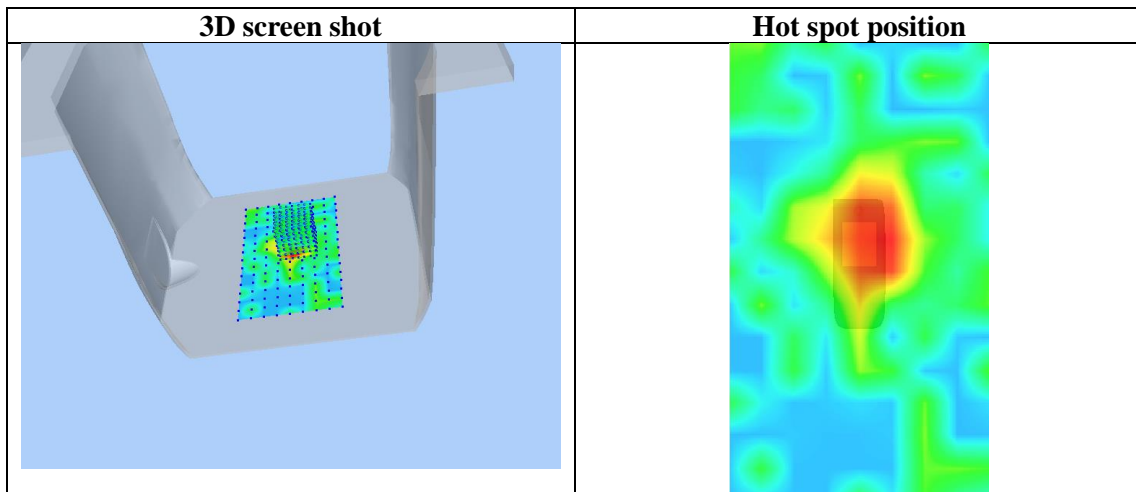
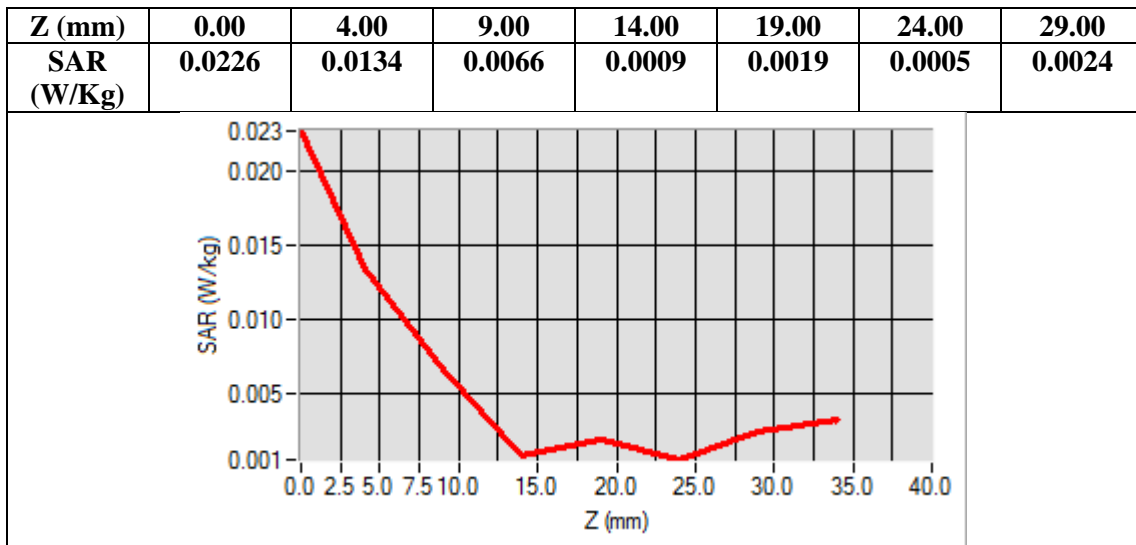


**Maximum location: X=7.00, Y=7.00**

**SAR Peak: 0.03 W/kg**

<b>SAR 10g (W/Kg)</b>	0.005408
<b>SAR 1g (W/Kg)</b>	0.012485

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**BLE GFSK 2Mbps MODE**

Test Laboratory: AGC Lab

Date: May 04, 2023

BT Mid- Body back

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

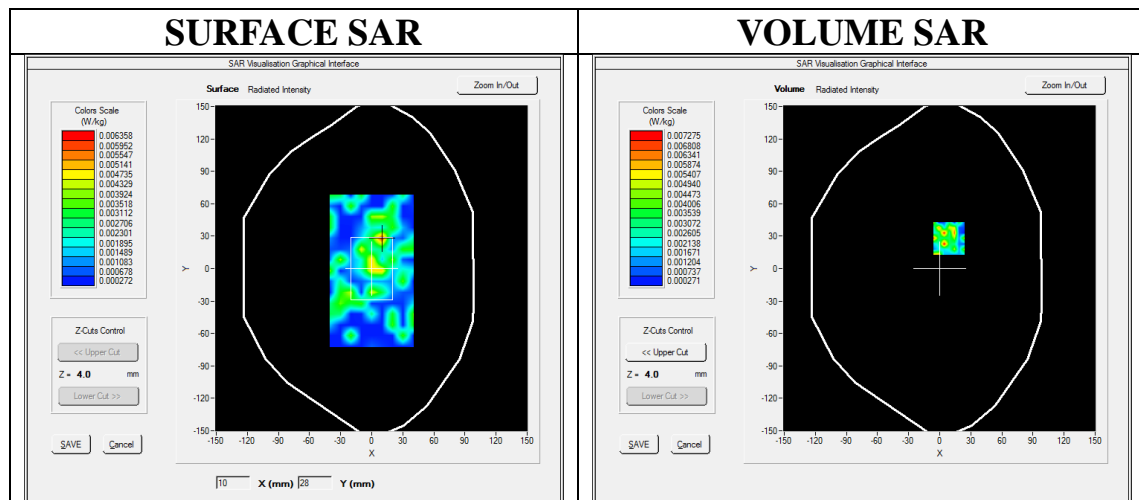
Communication System: Bluetooth; Communication System Band: BT; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2440 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/BT Mid- Body back /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/BT Mid- Body back /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

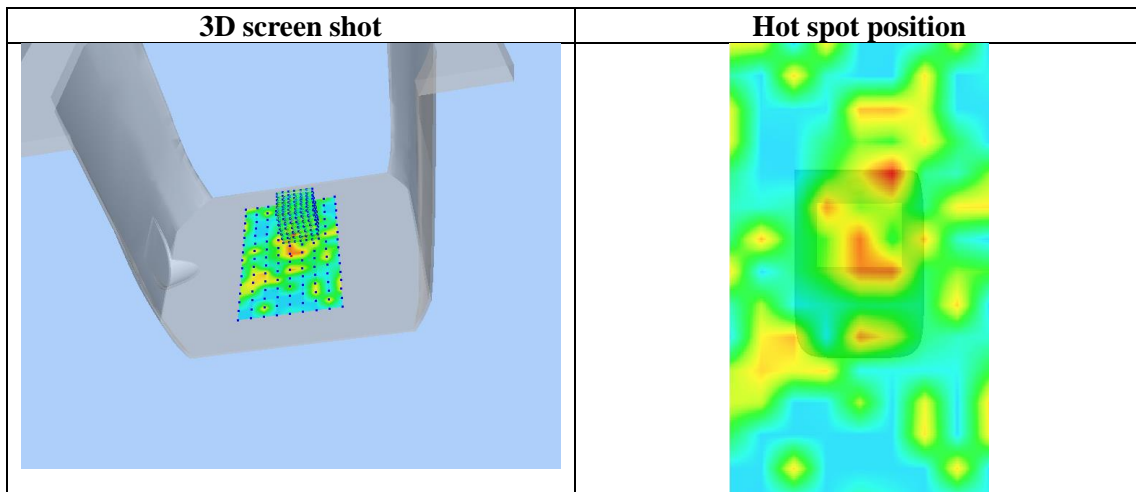
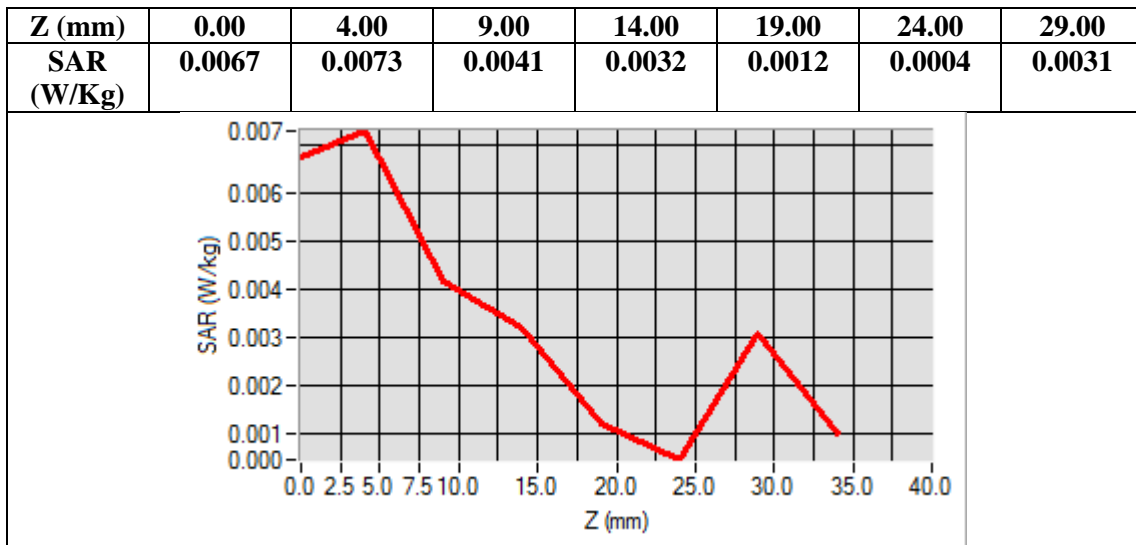
<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Body back
<b>Band</b>	Bluetooth
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=9.00, Y=28.00**  
**SAR Peak: 0.02 W/kg**

<b>SAR 10g (W/Kg)</b>	0.002604
<b>SAR 1g (W/Kg)</b>	0.003483

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**Test Laboratory:** AGC Lab  
**BT Mid- Front**  
**DUT:** Neurosens IMU sensor; **Type:** Neurosens IMU sensor

**Date:** May 04, 2023

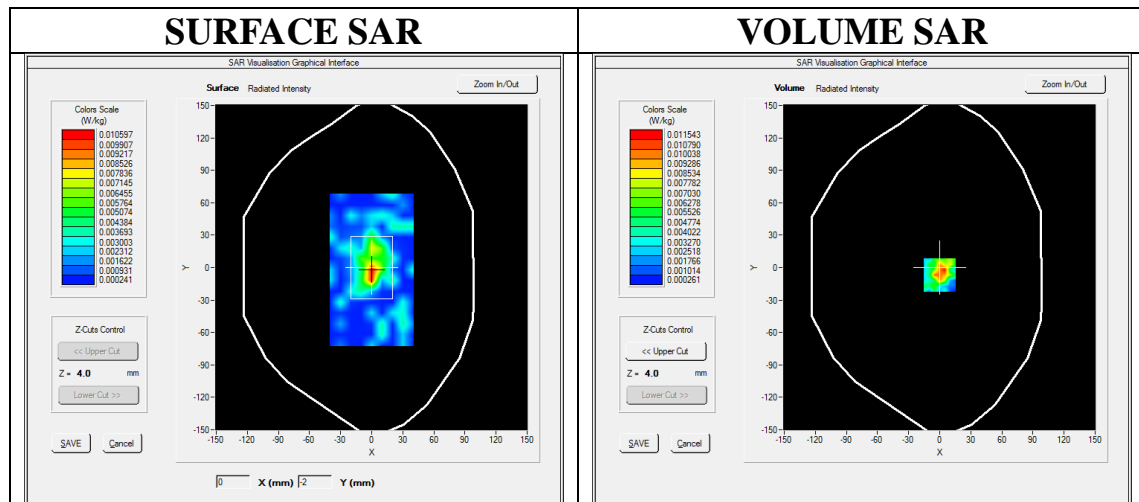
Communication System: Bluetooth; Communication System Band: BT; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2440 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/BT Mid- Front /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/BT Mid- Front /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Front
<b>Band</b>	Bluetooth
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



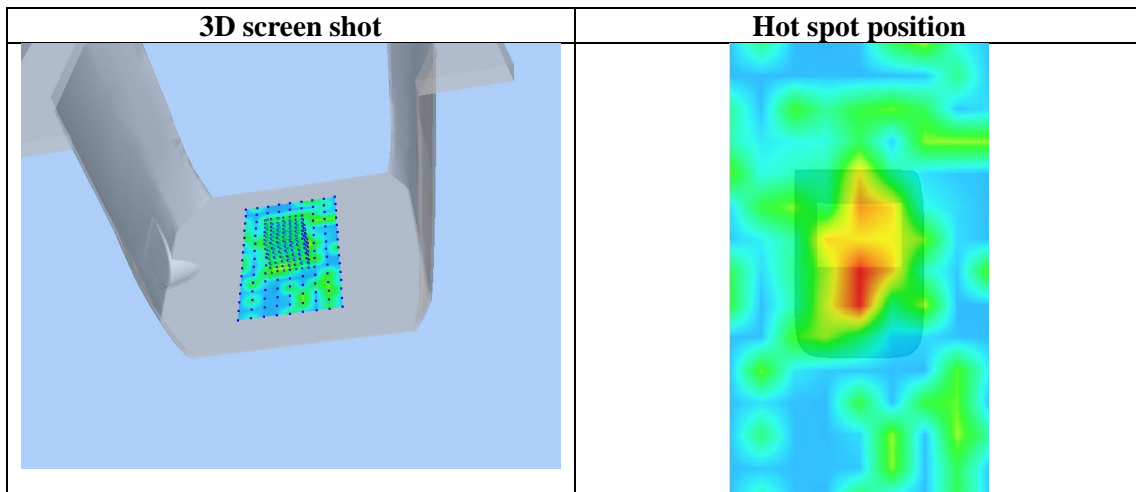
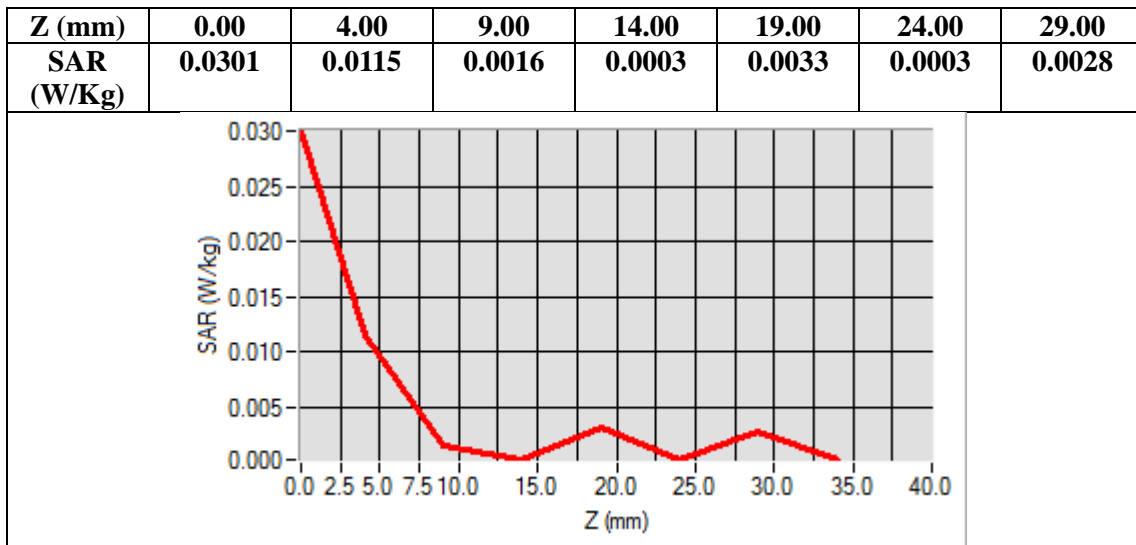
**Maximum location: X=0.00, Y=-7.00**

**SAR Peak: 0.03 W/kg**

<b>SAR 10g (W/Kg)</b>	0.004192
<b>SAR 1g (W/Kg)</b>	0.010461

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## 2.4GHz WIFI MODE

Test Laboratory: AGC Lab

Date: May 04, 2023

802.11b Mid- Body back

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

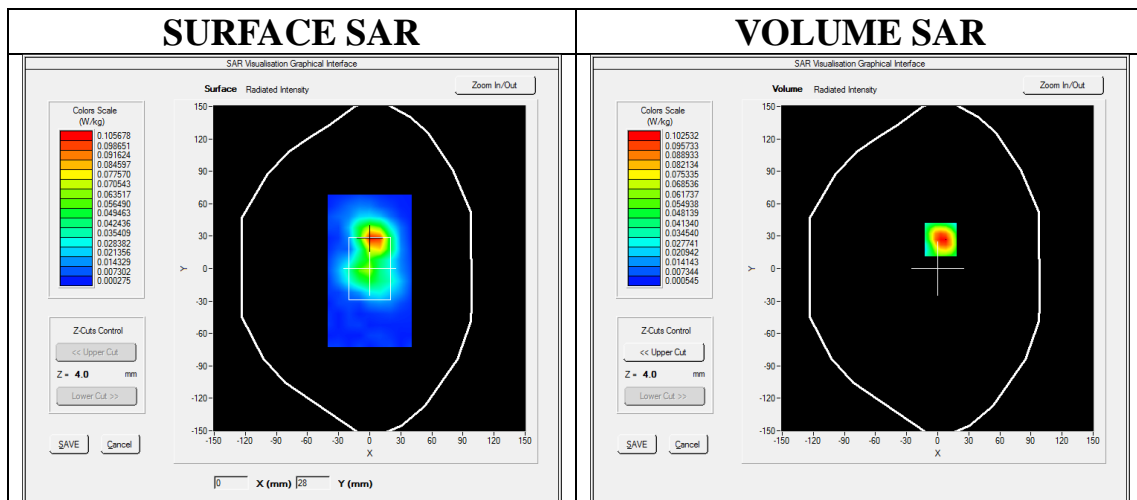
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/802.11b Mid- Body back /Area Scan: Measurement grid: dx=10mm, dy=10mm  
Configuration/802.11b Mid- Body back /Zoom Scan: Measurement grid: dx=5mm,dy=5mm, dz=5mm;

Area Scan	surf_sam_plan.txt, h= 5.00 mm
ZoomScan	7x7x7,dx=5mm dy=5mm dz=5mm
Phantom	Validation plane
Device Position	Body back
Band	2450MHz
Channels	Middle
Signal	Crest factor: 1.0



**Maximum location: X=3.00, Y=27.00**

**SAR Peak: 0.16 W/kg**

<b>SAR 10g (W/Kg)</b>	0.048890
<b>SAR 1g (W/Kg)</b>	0.094252

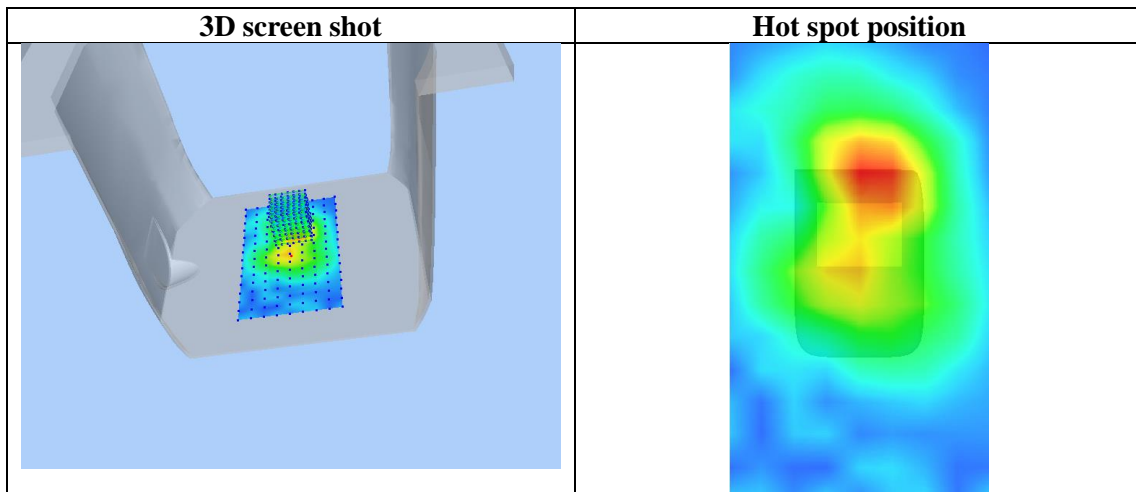
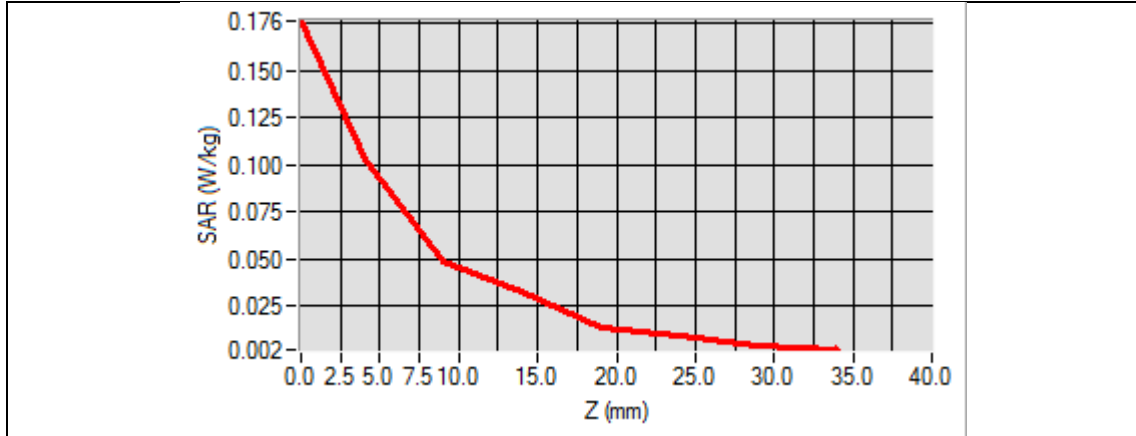
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Tel: +86-755 2523 4088 E-mail: agc@agccert.com Web: http://www.agccert.com/

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/kg)	0.1762	0.1025	0.0485	0.0331	0.0138	0.0091	0.0039



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**Test Laboratory: AGC Lab**  
**802.11b Mid- Front**  
**DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor**

**Date: May 04, 2023**

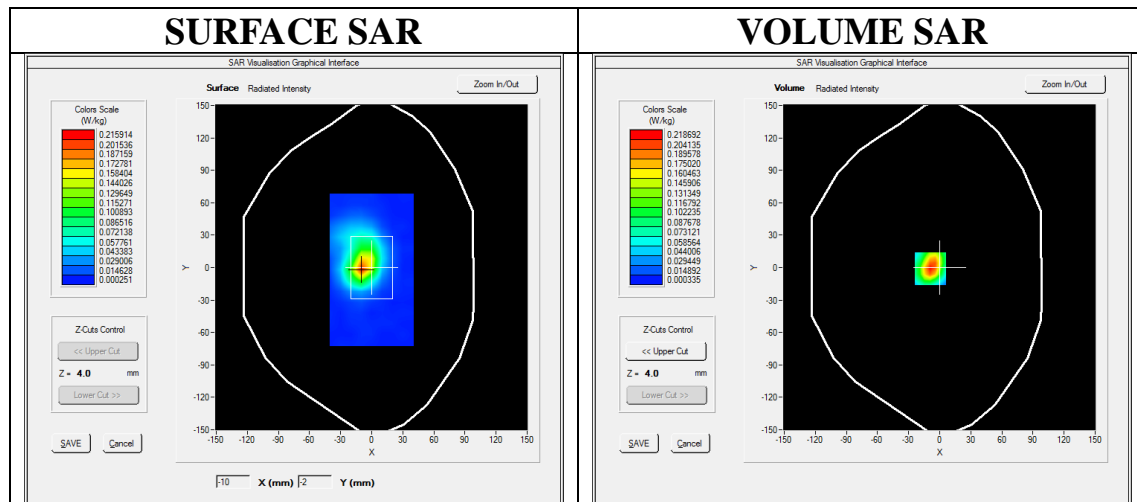
Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1; Conv.F=2.34;  
Frequency: 2437 MHz; Medium parameters used:  $f = 2450$  MHz;  $\sigma = 1.85$  mho/m;  $\epsilon_r = 39.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C):20.9, Liquid temperature (°C): 20.7

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11b Mid- Front /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/802.11b Mid- Front /Zoom Scan:** Measurement grid: dx=5mm,dy=5mm, dz=5mm;

<b>Area Scan</b>	surf_sam_plan.txt, h= 5.00 mm
<b>ZoomScan</b>	7x7x7,dx=5mm dy=5mm dz=5mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Front
<b>Band</b>	2450MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0

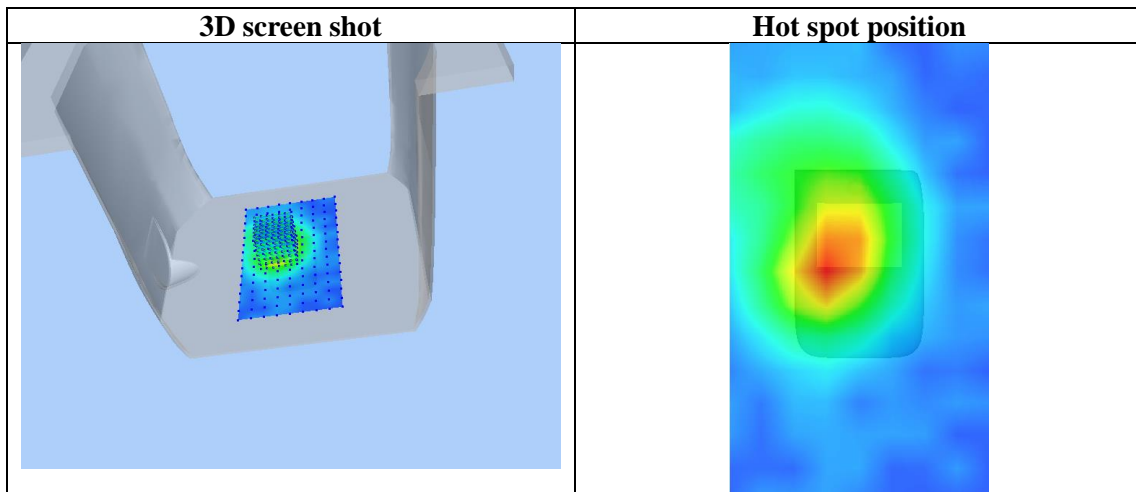
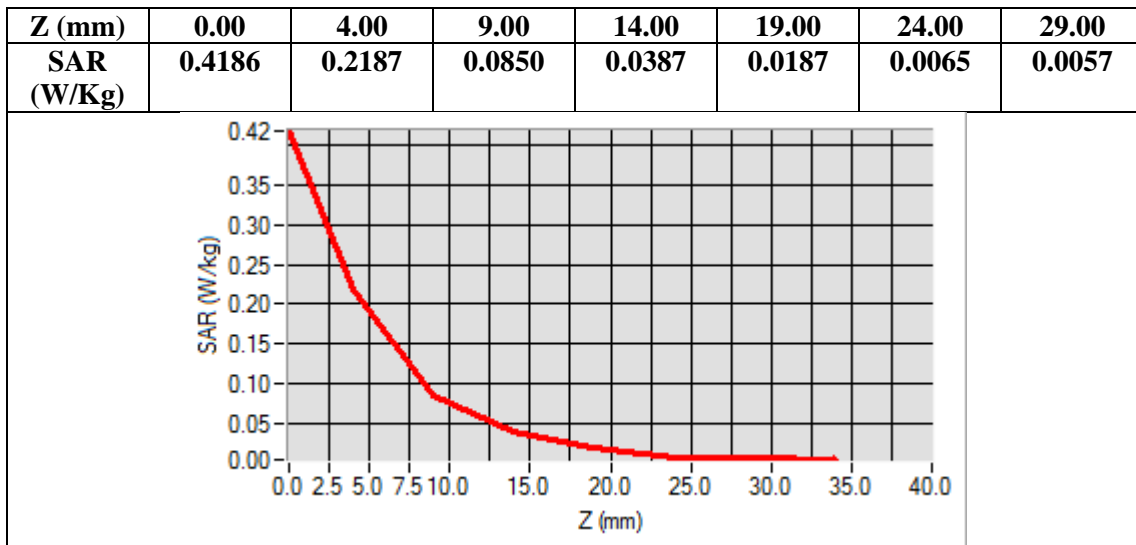


**Maximum location: X=-9.00, Y=-1.00**

**SAR Peak: 0.42 W/kg**

<b>SAR 10g (W/Kg)</b>	0.085853
<b>SAR 1g (W/Kg)</b>	0.202269

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**WIFI 5.3GHz MODE**

Test Laboratory: AGC Lab

Date: May 05, 2023

802.11a-CH60-Mid -Body back

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

Communication System: Wi-Fi; Communication System Band: 802.11a0; Duty Cycle: 1:1; Conv.F=2.35;  
Frequency: 5300MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma=4.88$  mho/m;  $\epsilon_r=35.68$ ;  $\rho= 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

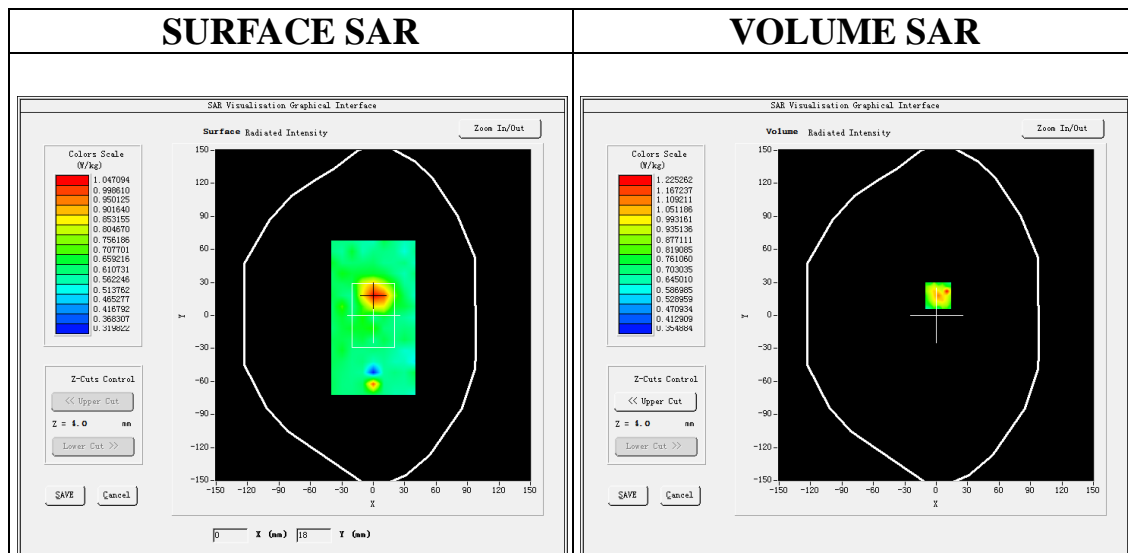
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/802.11a-CH60-Mid- Body back /Area Scan: Measurement grid: dx=10mm, dy=10mm

Configuration/802.11a-CH60-Mid- Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body back
Band	5200MHz
Channels	Middle
Signal	Crest factor: 1.0



**Maximum location: X=2.00, Y=18.00**

**SAR Peak: 2.30 W/kg**

<b>SAR 10g (W/Kg)</b>	0.791784
<b>SAR 1g (W/Kg)</b>	0.995374

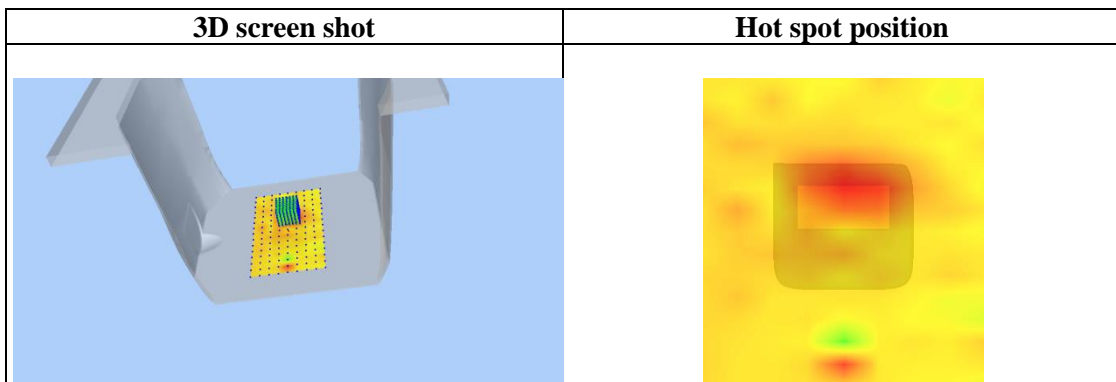
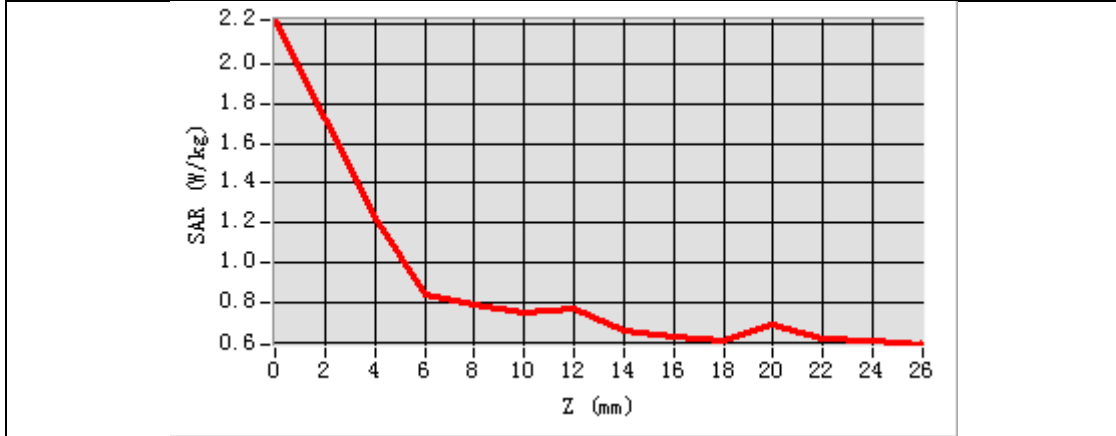
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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	2.2168	1.2253	0.8385	0.7904	0.7516	0.7687	0.6575	0.6353	0.6084	0.6951	0.6187	0.6085



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**Test Laboratory: AGC Lab**  
**802.11a-CH64-High -Front**  
**DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor**

**Date: May 05, 2023**

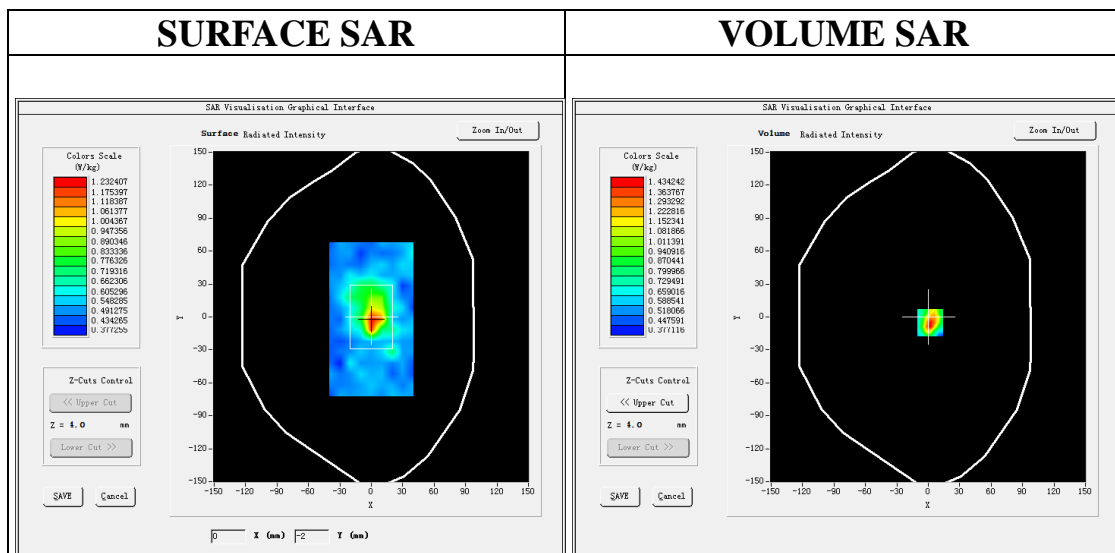
Communication System: Wi-Fi; Communication System Band: 802.11a0; Duty Cycle: 1:1; Conv.F=2.35;  
 Frequency: 5320MHz; Medium parameters used:  $f = 5200 \text{ MHz}$ ;  $\sigma = 4.89 \text{ mho/m}$ ;  $\epsilon_r = 35.42$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 21.4, Liquid temperature ( $^{\circ}\text{C}$ ): 21.2

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11a-CH64-High- Front /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/802.11a-CH64-High- Front /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

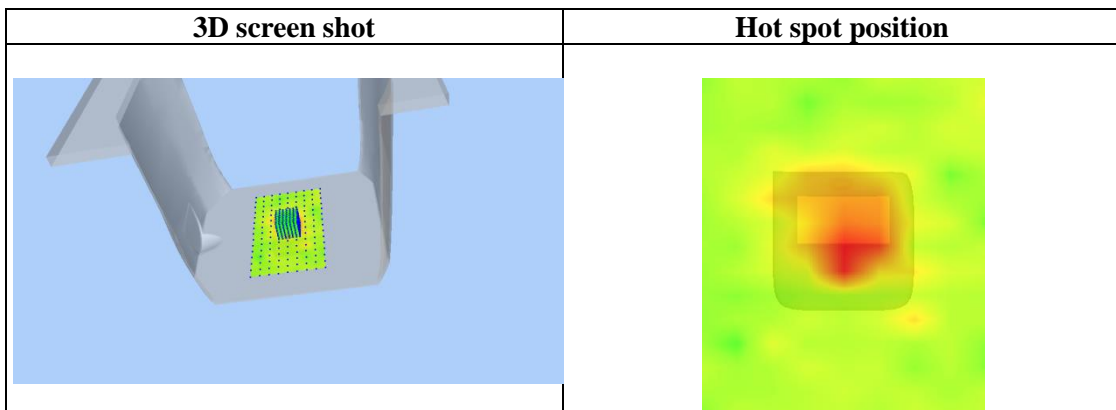
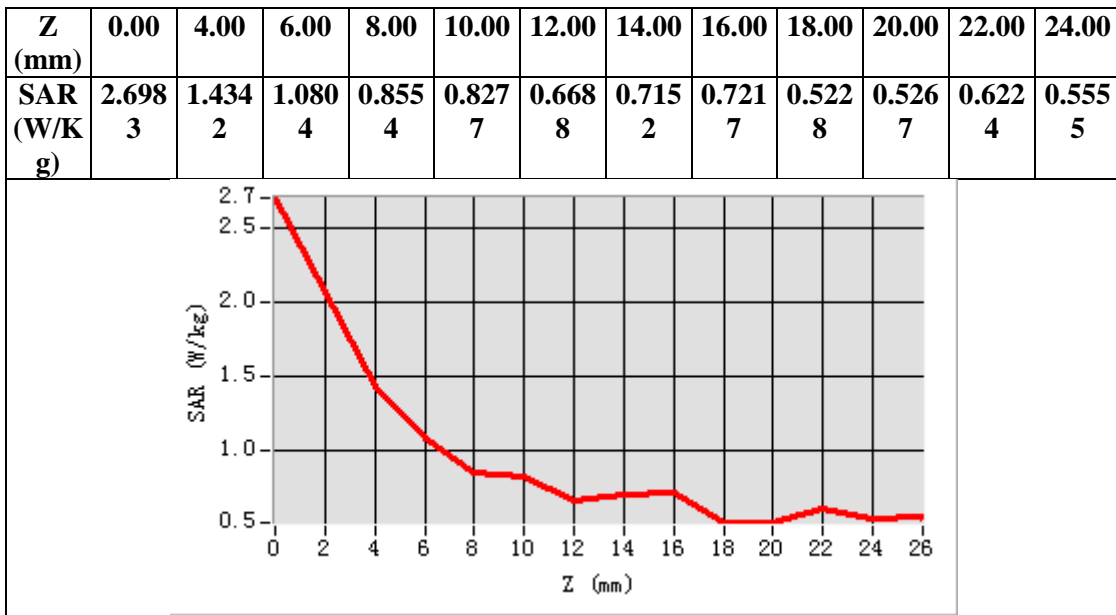
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Front
<b>Band</b>	5200MHz
<b>Channels</b>	High
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=2.00, Y=-5.00**  
**SAR Peak: 2.71 W/kg**

<b>SAR 10g (W/Kg)</b>	0.794705
<b>SAR 1g (W/Kg)</b>	1.308020

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**WIFI 5.6GHz MODE**

Test Laboratory: AGC Lab

Date: May 06, 2023

802.11n(40) -CH118-Mid -Body back

DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

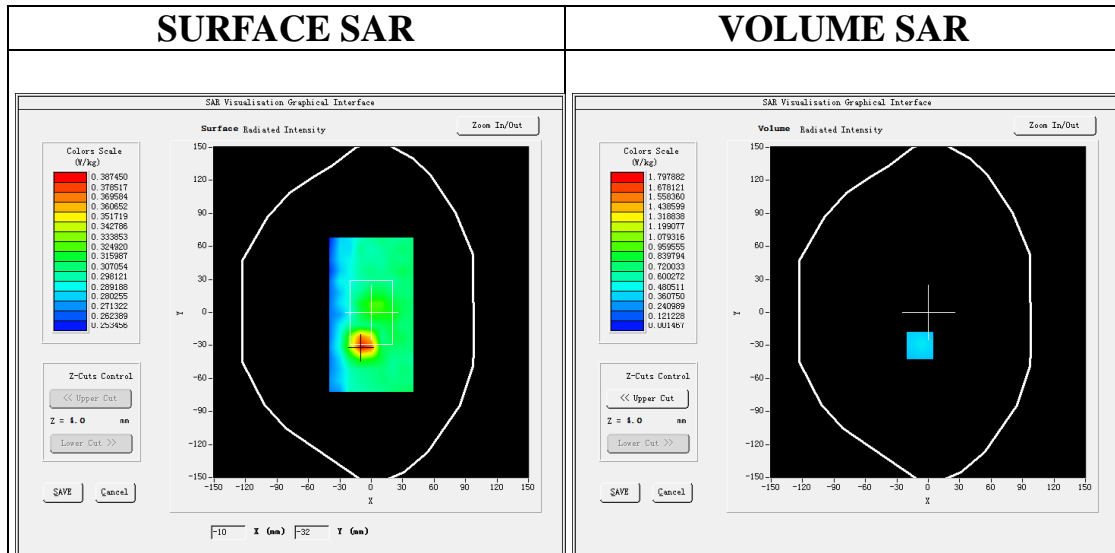
Communication System: Wi-Fi; Communication System Band: 802.11n(40); Duty Cycle: 1:1; Conv.F=1.96; Frequency: 5590MHz; Medium parameters used:  $f = 5600$  MHz;  $\sigma = 4.96$  mho/m;  $\epsilon_r = 35.35$ ;  $\rho = 1000$  kg/m<sup>3</sup> ; Phantom section: Flat Section  
Ambient temperature (°C): 22.0, Liquid temperature (°C): 21.8

SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/ 802.11n(40)-CH118-Mid- Body back /Area Scan: Measurement grid: dx=10mm, dy=10mm  
Configuration/ 802.11n(40)-CH118-Mid- Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body back
Band	5600MHz
Channels	Middle
Signal	Crest factor: 1.0



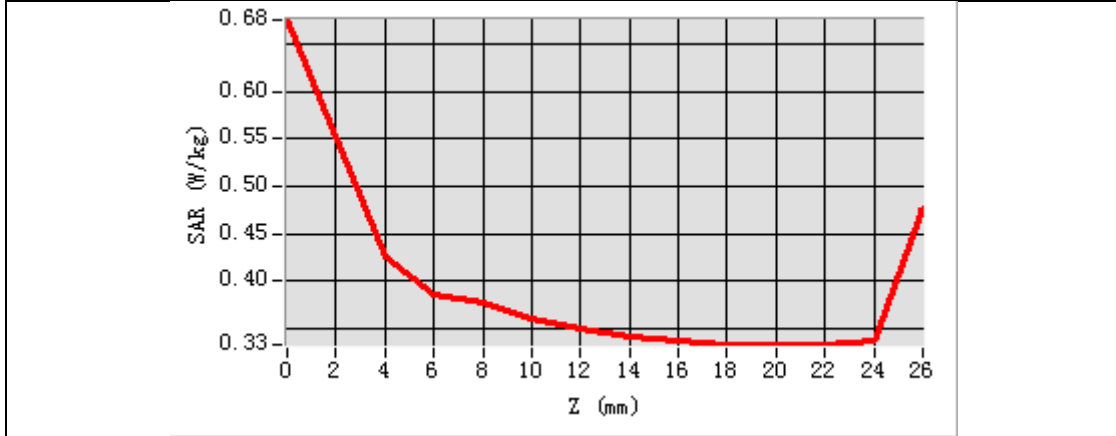
**Maximum location: X=-8.00, Y=-30.00**

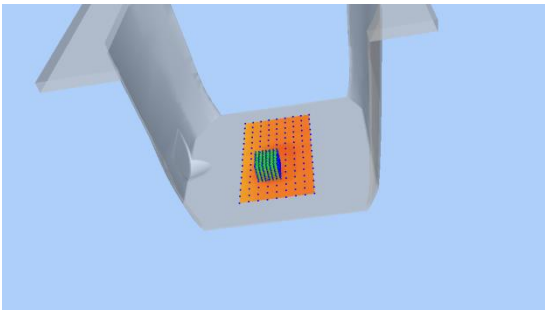
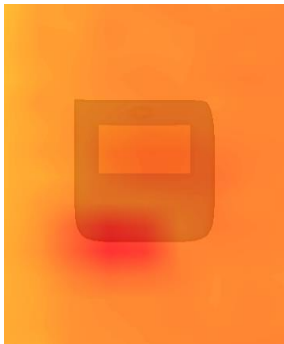
**SAR Peak: 1.77 W/kg**

<b>SAR 10g (W/Kg)</b>	0.365600
<b>SAR 1g (W/Kg)</b>	0.420578

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Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.675	0.425	0.385	0.378	0.360	0.350	0.340	0.337	0.332	0.332	0.333	0.337
	7	2	1	3	5	3	8	5	9	8	2	3



3D screen shot	Hot spot position
	

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**Test Laboratory: AGC Lab**  
**802.11n(40) -CH118-Mid -Top**  
**DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor**

**Date: May 06, 2023**

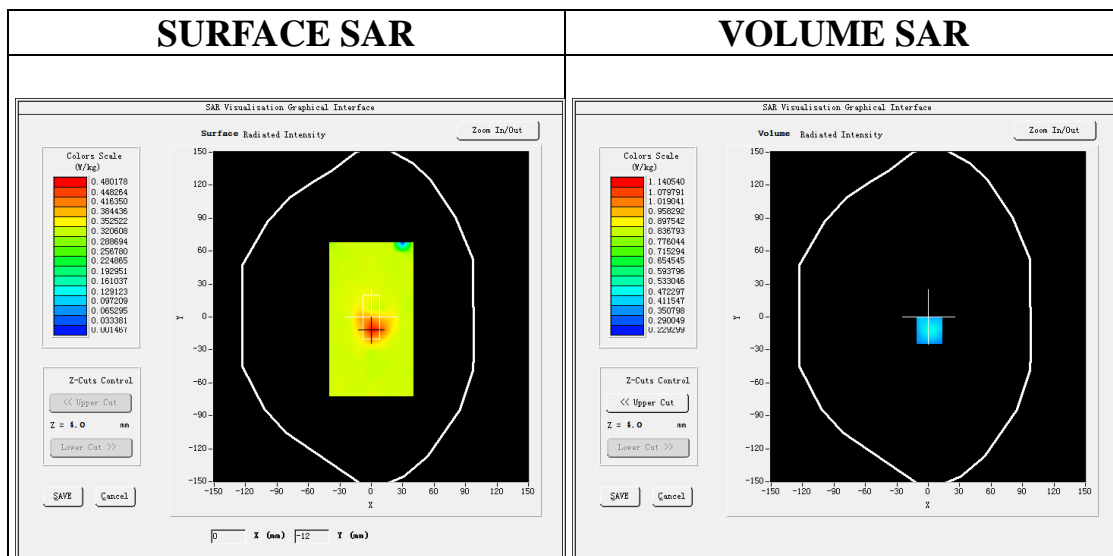
Communication System: Wi-Fi; Communication System Band: 802.11n(40); Duty Cycle: 1:1; Conv.F=1.96;  
 Frequency: 5590MHz; Medium parameters used:  $f = 5600 \text{ MHz}$ ;  $\sigma = 4.96 \text{ mho/m}$ ;  $\epsilon_r = 35.35$ ;  $\rho = 1000 \text{ kg/m}^3$  ;  
 Phantom section: Flat Section  
 Ambient temperature ( $^{\circ}\text{C}$ ): 22.0, Liquid temperature ( $^{\circ}\text{C}$ ): 21.8

**SATIMO Configuration:**

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/ 802.11n(40)-CH118-Mid- Top /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/ 802.11n(40)-CH118-Mid- Top /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

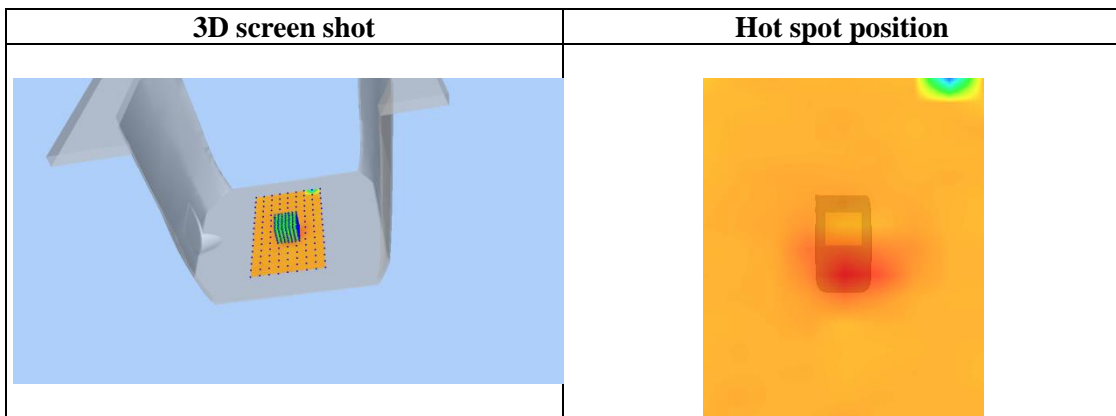
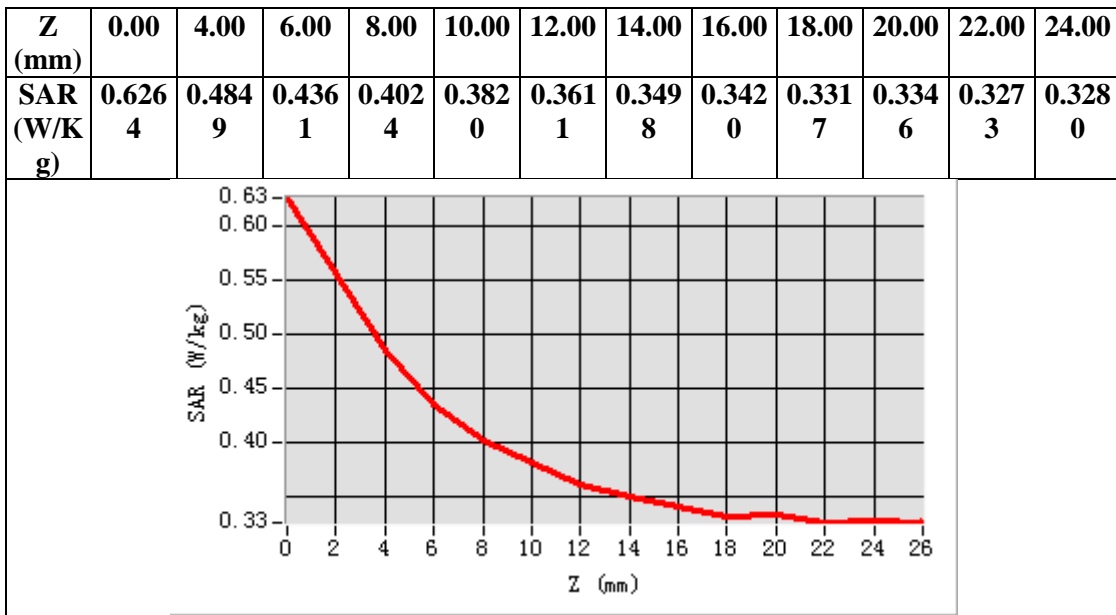
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Top
<b>Band</b>	5600MHz
<b>Channels</b>	Middle
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=1.00, Y=-12.00**  
**SAR Peak: 0.72 W/kg**

<b>SAR 10g (W/Kg)</b>	0.368111
<b>SAR 1g (W/Kg)</b>	0.447046

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**Repeated SAR  
WIFI 5.3GHz MODE**

Test Laboratory: AGC Lab  
802.11a-CH60-Mid -Body back  
DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor

Date: May 05, 2023

Communication System: Wi-Fi; Communication System Band: 802.11a0; Duty Cycle: 1:1; Conv.F=2.35;  
Frequency: 5300MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.88$  mho/m;  $\epsilon_r = 35.68$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
Phantom section: Flat Section  
Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2

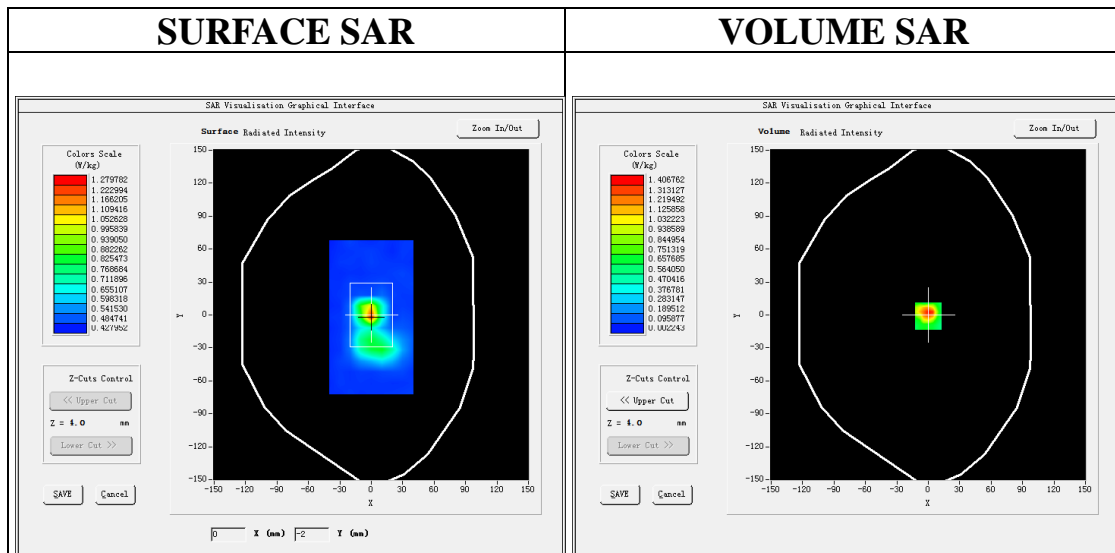
SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

Configuration/802.11a-CH60-Mid- Body back /Area Scan: Measurement grid: dx=10mm, dy=10mm

Configuration/802.11a-CH60-Mid- Body back /Zoom Scan: Measurement grid: dx=4mm,dy=4mm, dz=2mm

Area Scan	sam_direct_droit2_surf8mm.txt
ZoomScan	7x7x12 dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Body back
Band	5200MHz
Channels	Middle
Signal	Crest factor: 1.0



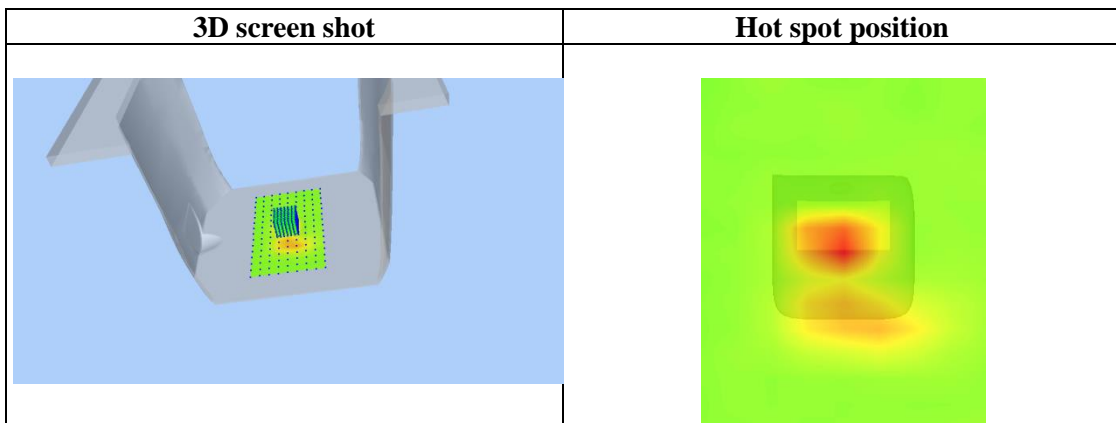
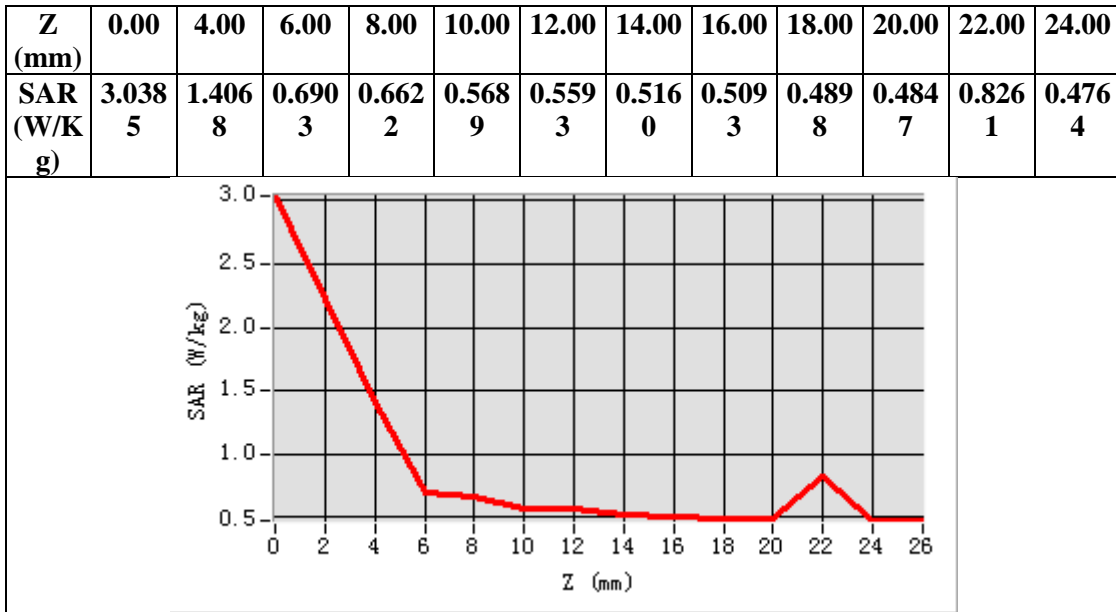
**Maximum location: X=0.00, Y=-1.00**

**SAR Peak: 3.32 W/kg**

<b>SAR 10g (W/Kg)</b>	0.711597
<b>SAR 1g (W/Kg)</b>	1.328633

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**Test Laboratory: AGC Lab**  
**802.11a-CH64-High -Front**  
**DUT: Neurosens IMU sensor; Type: Neurosens IMU sensor**

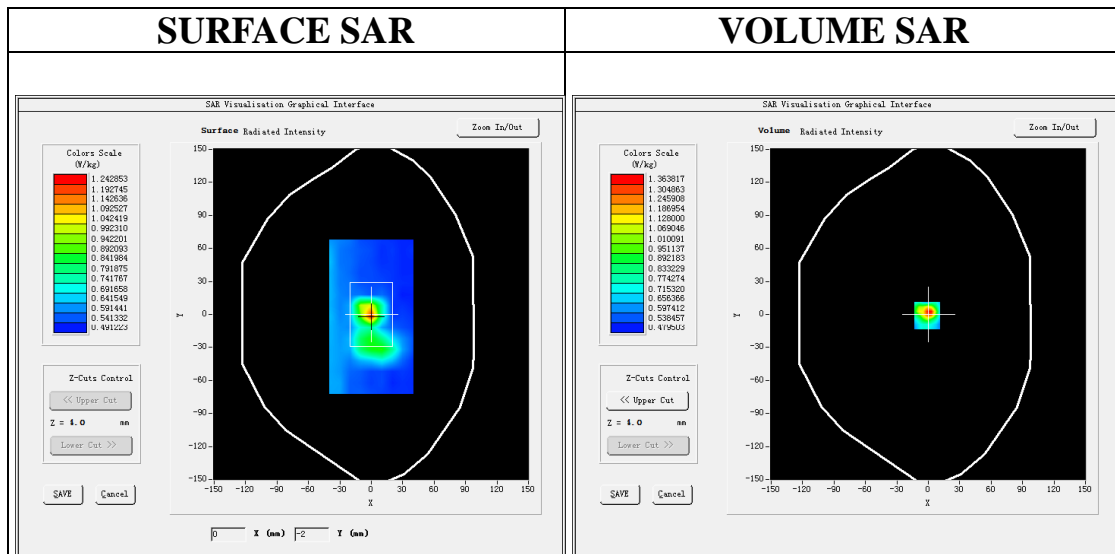
**Date: May 05, 2023**

Communication System: Wi-Fi; Communication System Band: 802.11a0; Duty Cycle: 1:1; Conv.F=2.35;  
 Frequency: 5320MHz; Medium parameters used:  $f = 5200$  MHz;  $\sigma = 4.89$  mho/m;  $\epsilon_r = 35.42$ ;  $\rho = 1000$  kg/m<sup>3</sup> ;  
 Phantom section: Flat Section  
 Ambient temperature (°C): 21.4, Liquid temperature (°C): 21.2  
 SATIMO Configuration:

- Probe: SSE2; Calibrated: Dec. 02, 2022; Serial No.: SN 45/22 EPGO391
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Phantom: SAM twin phantom
- Measurement SW: OpenSAR V4\_02\_35

**Configuration/802.11a-CH64-High-Front /Area Scan:** Measurement grid: dx=10mm, dy=10mm  
**Configuration/802.11a-CH64-High-Front /Zoom Scan:** Measurement grid: dx=4mm,dy=4mm, dz=2mm

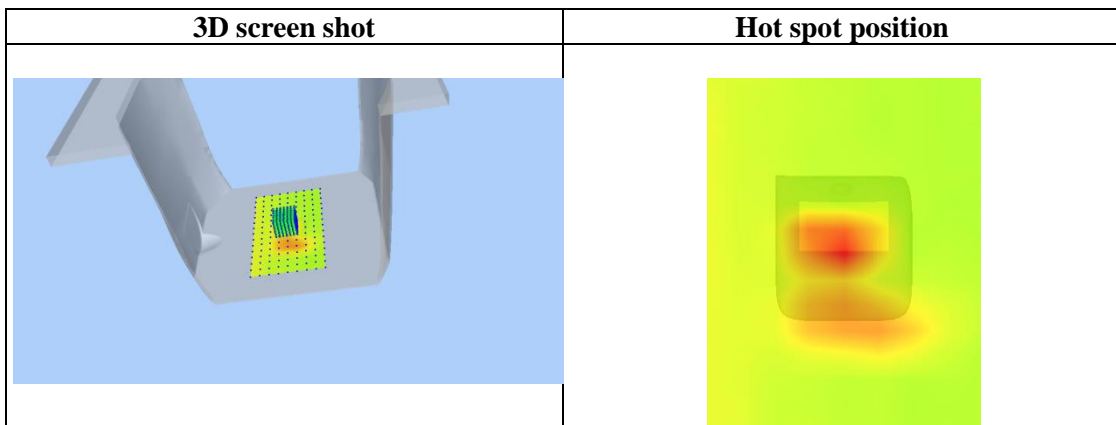
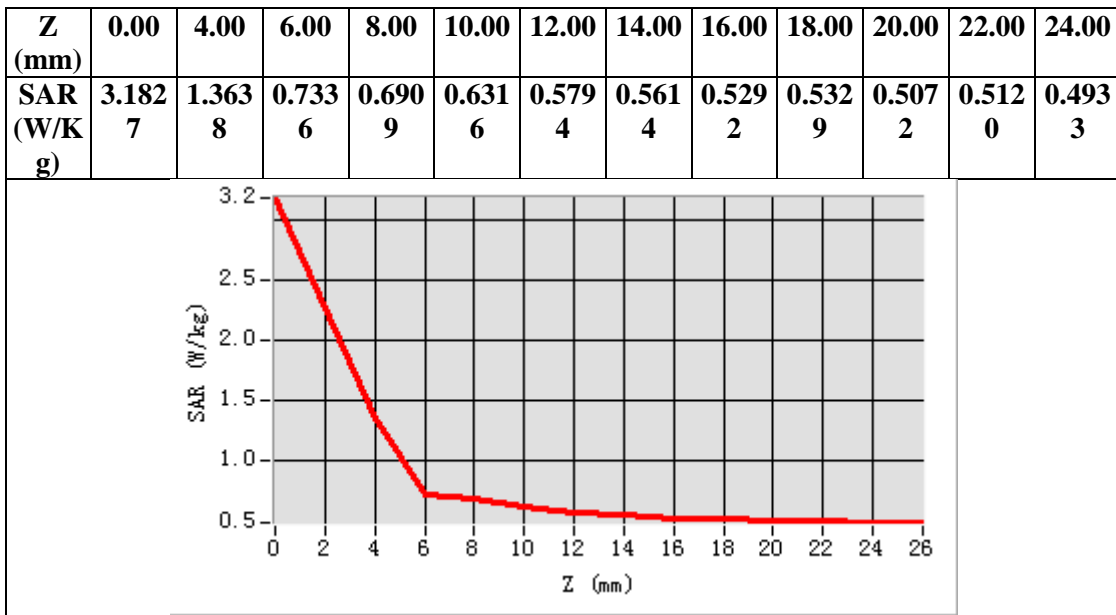
<b>Area Scan</b>	sam_direct_droit2_surf8mm.txt
<b>ZoomScan</b>	7x7x12 dx=4mm dy=4mm dz=2mm
<b>Phantom</b>	Validation plane
<b>Device Position</b>	Front
<b>Band</b>	5200MHz
<b>Channels</b>	High
<b>Signal</b>	Crest factor: 1.0



**Maximum location: X=-1.00, Y=-1.00**  
**SAR Peak: 3.14 W/kg**

<b>SAR 10g (W/Kg)</b>	0.734699
<b>SAR 1g (W/Kg)</b>	1.329554

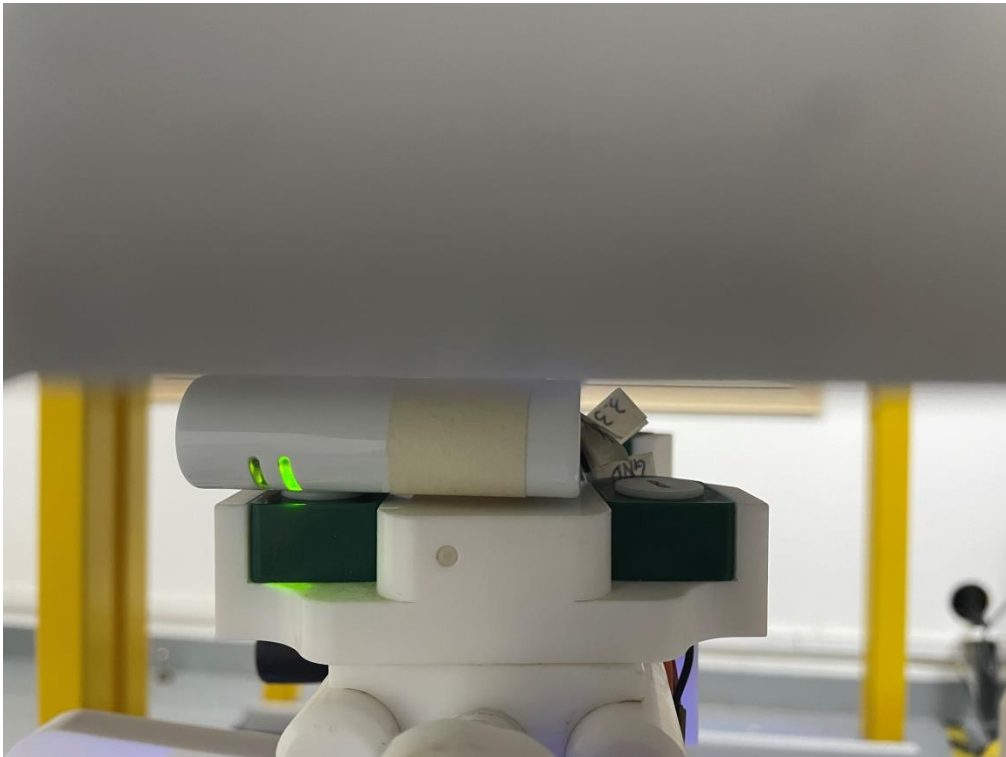
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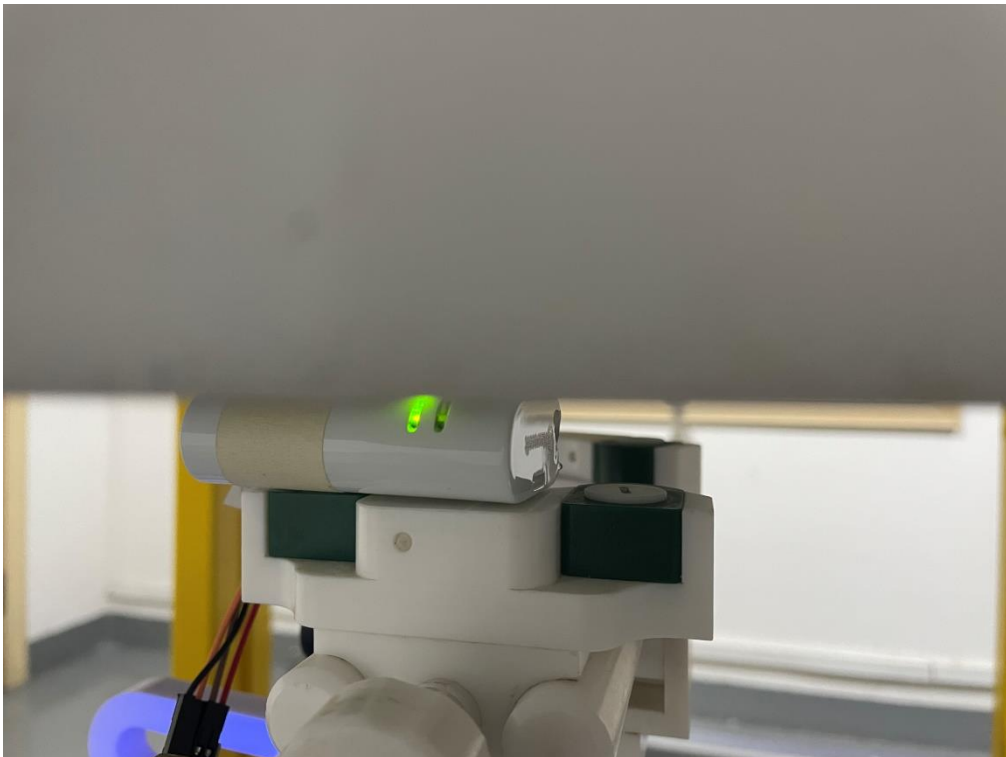
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## APPENDIX C. TEST SETUP PHOTOGRAPHS

Back Omm



Front Omm



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Top 0mm



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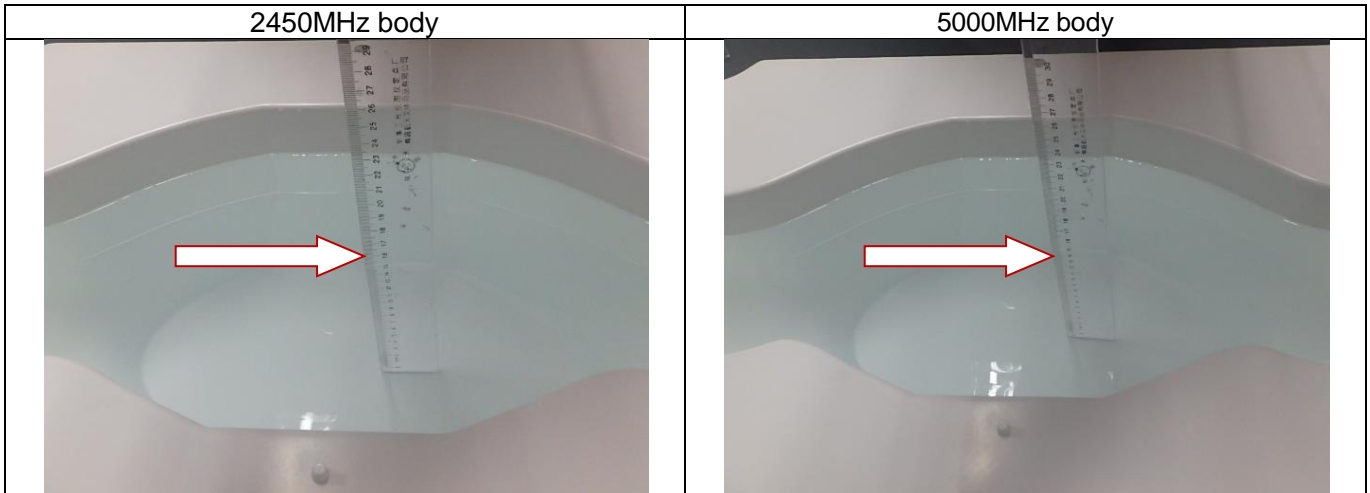
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Tel: +86-755 2523 4088 E-mail: [agc@agccert.com](mailto:agc@agccert.com) Web: <http://www.agccert.com/>

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

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



Any report having not been signed by authorized approver, or having been altered without authorization, or having not been stamped by the “Dedicated Testing/Inspection Stamp” is deemed to be invalid. Copying or excerpting portion of, or altering the content of the report is not permitted without the written authorization of AGC. The test results presented in the report apply only to the tested sample. Any objections to report issued by AGC should be submitted to AGC within 15days after the issuance of the test report. Further enquiry of validity or verification of the test report should be addressed to AGC by agc01@agccert.com.

## APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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

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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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