



SAR Test Report

Report No.:STS2603387H01

Issued for

Imagineear Ltd

The Blomfield Rooms, Fulham Palace, Bishop's Avenue,
London SW6 6EA United Kingdom

Product Name: Nostro

Brand Name: N/A

Model Name: Nostro

Series Model(s): N/A

FCC ID: 2ASPC-NOSTRO

Test Standard: ANSI/IEEE Std. C95.1
FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

Max. Report SAR (1g) Body: 1.373 W/kg

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Shenzhen STS Test Services Co., Ltd.

**TEST REPORT CERTIFICATION**

Applicant's name : Imagineear Ltd
Address : The Blomfield Rooms, Fulham Palace, Bishop's Avenue, London
SW6 6EA United Kingdom
Manufacturer's Name : Chempros Limited
Address : Unit 2312, Eastern Tower, Coastal Era
Building, Nanshan, Shenzhen, CHINA, 518051

Product description

Product name : Nostro
Brand name : N/A
Model name : Nostro
Series Model : N/A

ANSI/IEEE Std. C95.1
Standards : FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664. The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test :

Date (s) of performance of tests : 19 May. 2026 ~ 20 May. 2026

Date of Issue : 02 Jun. 2026

Test Result : **Pass**

Testing Engineer :

Xin Liu

(Xin.Liu)

Technical Manager :

Eric Zhou

(Eric Zhou)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	02 Jun. 2026	STS2603387H01	ALL	Initial Issue



1. General Information

Environmental evaluation measurements of specific absorption rate (SAR) distributions in emulated human head and body tissues exposed to radio frequency (RF) radiation from wireless portable devices for compliance with the rules and regulations of the U.S. Federal Communications Commission (FCC).

1.1 EUT Description

Product Name	Nostro
Brand Name	N/A
Model Name	Nostro
Series Model	N/A
Model Difference	N/A
Sample number	260330006-1
Battery	Rated Voltage: 3.8V Capacity: 5700mAh
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	N/A
Software Version	N/A
Frequency Range	WLAN802.11b/g/n20/ax20: 2412 MHz ~ 2462 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax20/ax40/ax80: 5725 ~ 5850 MHz Bluetooth: 2402 MHz to 2480 MHz UWB: 5925 MHz ~7250 MHz



Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Body:0mm	Band	Mode	Body Worn W/kg)
	DTS	2.4G WLAN ANT A	0.193
	DTS	2.4G WLAN ANT B	0.109
	DTS	2.4G WLAN MIMO	0.270
	DSS	BT	0.031
	NII	5.2G WLAN ANT A	0.688
	NII	5.2G WLAN ANT B	0.523
	NII	5.2G WLAN MIMO	1.250
	NII	5.3G WLAN ANT A	0.341
	NII	5.3G WLAN ANT N	0.789
	NII	5.3G WLAN MIMO	1.247
	NII	5.6G WLAN ANT A	0.801
	NII	5.6G WLAN ANT B	0.541
	NII	5.6G WLAN MIMO	1.373
	NII	5.8G WLAN ANT A	0.588
	NII	5.8G WLAN ANT B	0.520
NII	5.8G WLAN MIMO	1.331	
1-g Sum SAR			1.404
FCC Equipment Class	Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS) Unlicensed National Information Infrastructure TX(NII)		
Operating Mode:	2.4G WLAN : 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM 802.11ax(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK UWB : BPSK		
Antenna Specification:	Bluetooth: Internal Antenna WLAN: Internal Antenna		
SIM Card	Not Support		
Hotspot Mode	Not Support		
DTM Mode	Not Support		
Note: 1. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (°C)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 616217 D04 v01r02	SAR for laptop and tablets
8	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

(A). Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

Are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

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

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an 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 general population/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 a given 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 measurement can be related to the electrical field in the tissue by

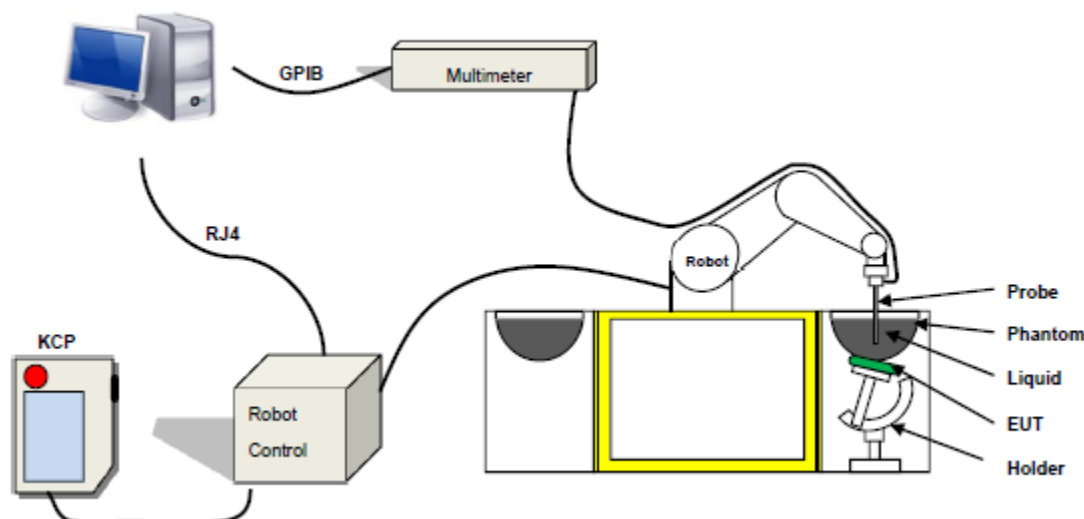
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The Open SAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08/21 EPG0352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 150 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

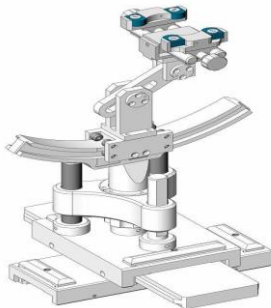
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of ± 20 %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine if the dielectric parameters are within the tolerances of the specified target values

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 1 g averaging, the maximum weighting coefficient for SAR is 0,5.

The head tissue dielectric parameters recommended by the IEEE 62209-1528 have been incorporated in the following table.

Frequency	ϵ_r	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity σ (S/m)	Permittivity ϵ
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

**LIQUID MEASUREMENT RESULTS**

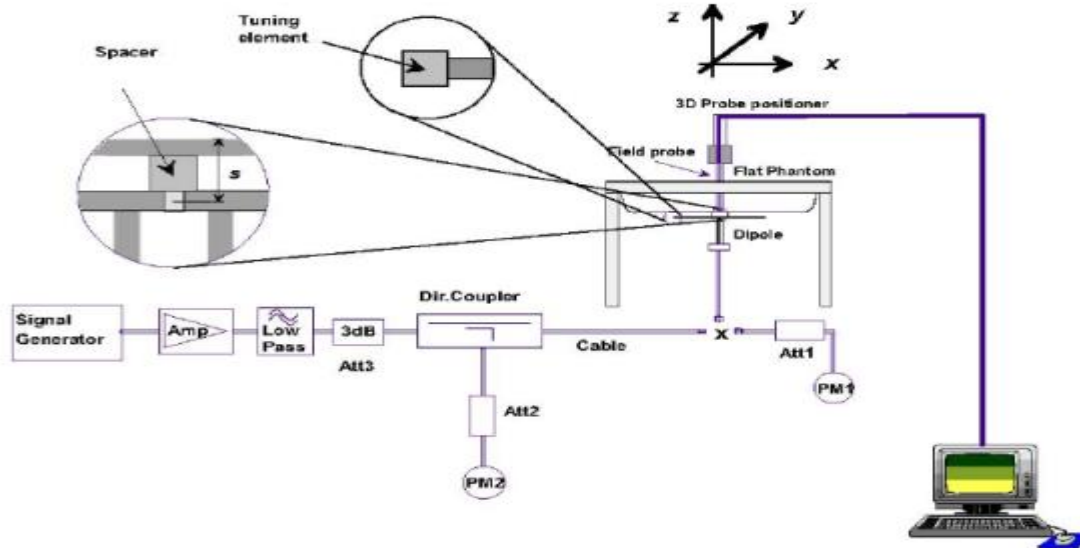
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-05-19	21.9	54	2437	21.7	Permittivity	39.22	39.32	0.25	±5
					Conductivity	1.79	1.79	0.09	±5
2026-05-19	21.9	54	2450	21.7	Permittivity	39.20	38.88	-0.82	±5
					Conductivity	1.80	1.78	-1.11	±5
2026-05-19	21.9	54	2462	21.7	Permittivity	39.18	38.95	-0.58	±5
					Conductivity	1.81	1.82	0.52	±5
2026-05-19	21.9	54	2480	21.7	Permittivity	39.15	39.51	0.93	±5
					Conductivity	1.83	1.83	0.18	±5
2026-05-19	21.9	54	5180	21.7	Permittivity	36.02	36.94	2.55	±5
					Conductivity	4.64	4.64	0.02	±5
2026-05-19	21.9	54	5200	21.7	Permittivity	36.00	36.70	1.94	±5
					Conductivity	4.66	4.66	0.00	±5
2026-05-19	21.9	54	5240	21.7	Permittivity	35.96	36.41	1.25	±5
					Conductivity	4.70	4.70	-0.04	±5
2026-05-19	21.9	54	5260	21.7	Permittivity	35.94	36.72	2.17	±5
					Conductivity	4.72	4.72	0.00	±5
2026-05-19	21.9	54	5320	21.7	Permittivity	35.88	35.89	0.03	±5
					Conductivity	4.78	4.78	0.00	±5
2026-05-19	21.9	54	5400	21.7	Permittivity	35.80	35.47	-0.92	±5
					Conductivity	4.86	4.86	0.00	±5
2026-05-20	21.2	56	5500	21.0	Permittivity	35.68	35.96	0.80	±5
					Conductivity	4.96	4.97	0.15	±5
2026-05-20	21.2	56	5580	21.0	Permittivity	35.58	35.30	-0.77	±5
					Conductivity	5.04	5.04	-0.09	±5
2026-05-20	21.2	56	5600	21.0	Permittivity	35.55	35.29	-0.73	±5
					Conductivity	5.07	5.07	0.10	±5
2026-05-20	21.2	56	5700	21.0	Permittivity	35.43	35.86	1.23	±5
					Conductivity	5.17	5.16	-0.15	±5
2026-05-20	21.2	56	5745	21.0	Permittivity	35.36	35.88	1.48	±5
					Conductivity	5.21	5.21	-0.04	±5
2026-05-20	21.2	56	5785	21.0	Permittivity	35.32	35.19	-0.35	±5
					Conductivity	5.25	5.25	-0.08	±5
2026-05-20	21.2	56	5800	21.0	Permittivity	35.30	35.12	-0.51	±5
					Conductivity	5.27	5.26	-0.19	±5
2026-05-20	21.2	56	5825	21.0	Permittivity	35.28	35.41	0.38	±5
					Conductivity	5.30	5.28	-0.31	±5

5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance 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 validation setup is shown as below.





5.2 Validation Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %.

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-05-19	2450	100 mW	5.499	2.372	-0.68	54.70	24.11	0.53%	-1.62%	10
		Normalize to 1 Watt	54.99	23.72						
2026-05-19	5200	10 mW	1.526	0.561	-2.03	163.88	57.29	-6.88%	-2.08%	10
		Normalize to 1 Watt	152.60	56.10						
2026-05-19	5400	10 mW	1.783	0.578	2.08	172.23	59.16	3.52%	-2.30%	10
		Normalize to 1 Watt	178.30	57.80						
2026-05-20	5600	10 mW	1.762	0.621	-2.40	181.28	61.57	-2.80%	0.86%	10
		Normalize to 1 Watt	176.20	62.10						
2026-05-20	5800	10 mW	1.855	0.644	-3.81	188.95	63.45	-1.83%	1.50%	10
		Normalize to 1 Watt	185.50	64.40						

Note:

- (1) We use a CW signal of 20dBm(2450MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps:

The following steps are used for each test position

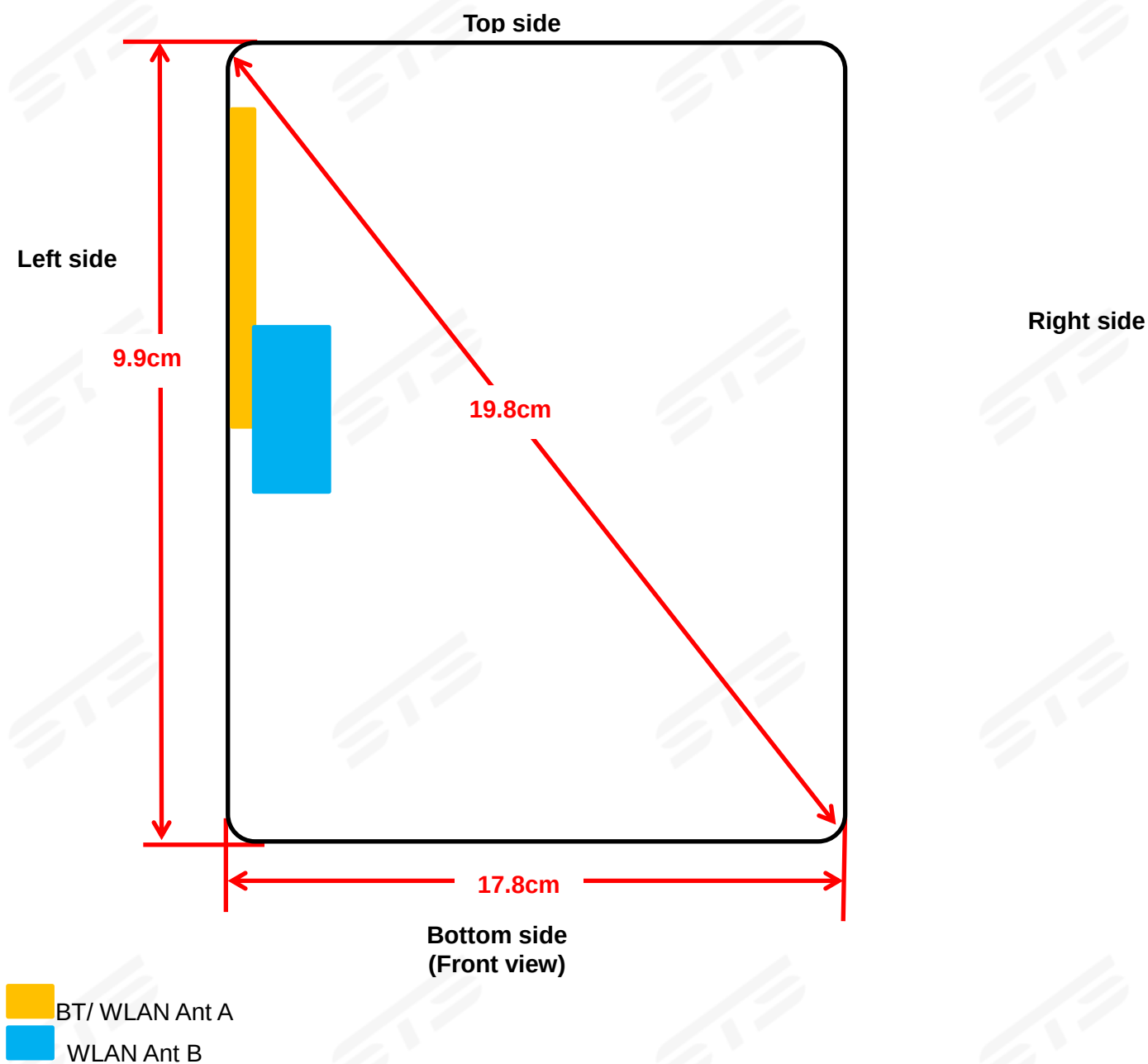
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below. When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

It is a Smart phone, support WLAN/BT mode.



Antenna Separation Distance(cm)					
ANT	Back Side	Left Side	Right Side	Top Side	Bottom Side
BT/WLAN ANT A	0.5	0.5	9.7	1.6	9.7
WLAN ANT B	0.5	0.5	7.5	7.8	6.6

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

The WWAN/WLAN/BT SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	BLE	2.4G WLAN_ANT_A	2.4G WLAN_ANT_B	2.4G WLAN_MIMO_ANT_A	2.4G WLAN_MIMO_ANT_B
	Calculated Frequency(GHz)	2.48	2.437	2.462	2.437	2.437
	Maximum Turn-up power (dBm)	6.5	13.5	14.5	14	14
	Maximum rated power(mW)	4.47	22.39	28.18	25.12	25.12
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.72	2.76	2.73	2.76	2.76
	Testing required?	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	2.72	2.76	2.73	2.76	2.76
	Testing required?	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	9.7	9.7	7.5	9.7	7.5
	exclusion threshold(mW)	771.12	773.24	473.16	773.24	474.19
	Testing required?	NO	NO	NO	NO	NO
Top Side	Separation distance (cm)	16	1.6	7.8	1.6	7.8
	exclusion threshold(mW)	2000.45	25.15	509.84	25.15	510.90
	Testing required?	NO	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	9.7	9.7	6.6	9.7	6.6
	exclusion threshold(mW)	771.12	773.24	370.98	773.24	371.89
	Testing required?	NO	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN_ANT_A	5.2G WLAN_ANT_B	5.2G WLAN_MIMO_ANT_A	5.2G WLAN_MIMO_ANT_B
	Calculated Frequency(GHz)	5.18	5.24	5.24	5.24
	Maximum Turn-up power (dBm)	13.5	14	15.5	15.5
	Maximum rated power(mW)	22.39	25.12	35.48	35.48
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.51	1.49	1.49	1.49
	Testing required?	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.51	1.49	1.49	1.49
	Testing required?	YES	YES	YES	YES
Right Side	Separation distance (cm)	9.7	7.5	9.7	7.5
	exclusion threshold(mW)	686.85	402.85	685.61	402.85
	Testing required?	NO	NO	NO	NO
Top Side	Separation distance (cm)	1.6	7.8	1.6	7.8
	exclusion threshold(mW)	16.63	436.87	16.53	436.87
	Testing required?	YES	NO	YES	NO
Bottom Side	Separation distance (cm)	9.7	6.6	9.7	6.6
	exclusion threshold(mW)	686.85	309.30	685.61	309.30
	Testing required?	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.3G WLAN_ANT_A	5.3G WLAN_ANT_B	5.3G WLAN_MIMO_ANT_A	5.3G WLAN_MIMO_ANT_B
	Calculated Frequency(GHz)	5.26	5.32	5.32	5.32
	Maximum Turn-up power (dBm)	12.5	14.5	15	15
	Maximum rated power(mW)	17.78	28.18	31.62	31.62
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.49	1.47	1.47	1.47
	Testing required?	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.49	1.47	1.47	1.47
	Testing required?	YES	YES	YES	YES
Right Side	Separation distance (cm)	9.7	7.5	9.7	7.5
	exclusion threshold(mW)	685.20	401.55	683.98	401.55
	Testing required?	NO	NO	NO	NO
Top Side	Separation distance (cm)	1.6	7.8	1.6	7.8
	exclusion threshold(mW)	16.49	435.52	16.39	435.52
	Testing required?	YES	NO	YES	NO
Bottom Side	Separation distance (cm)	9.7	6.6	9.7	6.6
	exclusion threshold(mW)	685.20	308.17	683.98	308.17
	Testing required?	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.6G WLAN_ANT_A	5.6G WLAN_ANT_B	5.6G WLAN_MIMO_ANT_A	5.6G WLAN_MIMO_ANT_B
	Calculated Frequency(GHz)	5.7	5.58	5.7	5.7
	Maximum Turn-up power (dBm)	12	13.5	14.5	14.5
	Maximum rated power(mW)	15.85	22.39	28.18	28.18
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.40	1.42	1.40	1.40
	Testing required?	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.40	1.42	1.40	1.40
	Testing required?	YES	YES	YES	YES
Right Side	Separation distance (cm)	9.7	7.5	9.7	7.5
	exclusion threshold(mW)	676.60	397.49	676.60	395.69
	Testing required?	NO	NO	NO	NO
Top Side	Separation distance (cm)	1.6	7.8	1.6	7.8
	exclusion threshold(mW)	15.78	431.29	15.78	429.42
	Testing required?	YES	NO	YES	NO
Bottom Side	Separation distance (cm)	9.7	6.6	9.7	6.6
	exclusion threshold(mW)	676.60	304.65	676.60	303.09
	Testing required?	NO	NO	NO	NO



Exposure Position	Wireless Interface	5.8G WLAN_ANT_A	5.8G WLAN_ANT_B	5.8G WLAN_MIMO_ANT_A	5.8G WLAN_MIMO_ANT_B
	Calculated Frequency(GHz)	5.825	5.745	5.745	5.745
	Maximum Turn-up power (dBm)	13	13	15	15
	Maximum rated power(mW)	19.95	19.95	31.62	31.62
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.37	1.39	1.39	1.39
	Testing required?	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	1.37	1.39	1.39	1.39
	Testing required?	YES	YES	YES	YES
Right Side	Separation distance (cm)	9.7	7.5	9.7	7.5
	exclusion threshold(mW)	674.30	395.03	675.77	395.03
	Testing required?	NO	NO	NO	NO
Top Side	Separation distance (cm)	1.6	7.8	1.6	7.8
	exclusion threshold(mW)	15.59	428.73	15.71	428.73
	Testing required?	YES	NO	YES	NO
Bottom Side	Separation distance (cm)	9.7	6.6	9.7	6.6
	exclusion threshold(mW)	674.30	302.52	675.77	302.52
	Testing required?	NO	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Bluetooth RF Exposure Exclusion (per KDB 447498 D04): The device operates at 2.4 GHz with a maximum tune-up power of [X] mW, at a minimum separation distance of [Y] mm. Using the formula: $(P(\text{mW})/d(\text{mm})) \times \sqrt{f(\text{GHz})} \leq 3.0$ The calculated value is [result] ≤ 3.0 , meeting the exclusion threshold. SAR testing is not required
3. Per KDB 447498 D04, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
4. Per KDB 447498 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.
5. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5



centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

d = the separation distance (cm);

6. Per KDB 447498 D04, An alternative to the SAR-based exemption is using below table and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in below table to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

RF Source frequency (MHz)	Threshold ERP(watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.



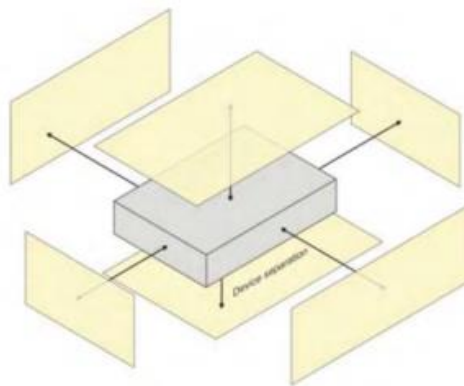
7. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.
8. Per KDB 616217 D04, SAR evaluation for the front surface of tablet display screens are generally not necessary.
9. Per KDB 248227, as maximum rated power for U-NII-2A > U-NII-1, U-NII-2A was chosen for SAR evaluation. Based on the measurements obtained, SAR measurements on U-NII-1 are not required as highest reported SAR from U-NII-2A band is $\leq 1.2\text{W/Kg}$.

8. EUT Test Position

This EUT was tested in Back Side, Left Side and Top Side.

8.1 Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported SAR* for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported SAR* configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.





9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2013. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

SATIMO Uncertainty- SN 08/21 EPG0352									
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	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



SATIMO Uncertainty- SN 08/21 EPG0352									
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	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



SATIMO Uncertainty- SN 08/21 EPG0352									
。 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	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

2.4G WLAN

2.4GWIFI					
Mode	Channel Number	Frequency (MHz)	ANT_A Total Power (dBm)	ANT_B Total Power (dBm)	ANT_A+B Conducted Power (dBm)
802.11b	1	2412	13.17	13.11	N/A
	7	2437	13.44	14.01	N/A
	11	2462	13.35	14.18	N/A
802.11g	1	2412	11.57	11.72	N/A
	7	2437	11.93	12.28	N/A
	11	2462	11.79	12.41	N/A
802.11 n-HT20	1	2412	10.47	10.24	13.37
	7	2437	10.66	10.83	13.76
	11	2462	10.30	11.11	13.73
802.11ax-HE20	1	2412	10.01	9.87	12.95
	7	2437	10.28	10.11	13.21
	11	2462	10.08	10.47	13.29

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-0.31	0.93
	39	2441	-0.06	0.99
	78	2480	1.29	1.35
$\pi/4$ -QPSK(2Mbps)	0	2402	-0.05	0.99
	39	2441	0.66	1.16
	78	2480	3.18	2.08
8DPSK(3Mbps)	0	2402	0.69	1.17
	39	2441	1.38	1.37
	78	2480	3.8	2.40

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	4.79	3.01
	19	2440	5.34	3.42
	39	2480	6.09	4.06
GFSK(2Mbps)	0	2402	4.84	3.05
	19	2440	5.38	3.45
	39	2480	6.2	4.17



WLAN (5.2Gband)

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Total Power (dBm)	ANT_B Total Power (dBm)	ANT_A+B Conducted Power (dBm)
802.11a	36	5180	12.53	12.91	N/A
	40	5200	12.08	13.24	N/A
	48	5240	12.07	13.94	N/A
802.11 n-HT20	36	5180	11.24	10.64	13.96
	40	5200	11.13	10.88	14.02
	48	5240	11.19	11.56	14.39
802.11 n-HT40	38	5190	11.39	9.99	13.76
	46	5230	11.06	10.66	13.87
802.11ac-VHT20	36	5180	11.32	10.56	13.97
	40	5200	11.10	10.78	13.95
	48	5240	11.14	11.52	14.34
802.11ac-VHT40	38	5190	11.23	10.02	13.68
	46	5230	11.08	10.62	13.87
802.11ac-VHT80	42	5210	9.89	9.11	12.53
802.11ax-HE20	36	5180	13.20	10.66	15.12
	40	5200	12.97	10.90	15.07
	48	5240	12.84	11.74	15.34
802.11ax-HE40	38	5190	11.42	9.97	13.77
	46	5230	10.98	10.53	13.77
802.11ax-HE80	42	5210	9.79	9.06	12.45



WLAN (5.3Gband)

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Total Power (dBm)	ANT_B Total Power (dBm)	ANT_A+B Conducted Power (dBm)
802.11a	52	5260	12.46	13.33	N/A
	60	5300	12.25	13.57	N/A
	64	5320	12.25	14.26	N/A
802.11 n-HT20	52	5260	11.24	11.07	14.17
	60	5300	10.96	11.39	14.19
	64	5320	11.01	11.96	14.52
802.11 n-HT40	54	5270	10.94	10.59	13.78
	62	5310	10.51	11.08	13.81
802.11ac-VHT20	52	5260	11.30	11.14	14.23
	60	5300	11.15	11.47	14.32
	64	5320	10.94	11.94	14.48
802.11ac-VHT40	54	5270	10.80	10.57	13.70
	62	5310	10.54	11.11	13.84
802.11ac-VHT80	58	5290	9.39	9.39	12.40
802.11ax-HE20	52	5260	11.48	11.37	14.44
	60	5300	11.12	11.64	14.40
	64	5320	11.14	12.16	14.69
802.11ax-HE40	54	5270	10.76	10.61	13.70
	62	5310	10.51	11.11	13.83
802.11ax-HE80	58	5290	8.86	9.33	12.11



WLAN (5.6Gband)

5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Total Power (dBm)	ANT_B Total Power (dBm)	ANT_A+B Conducted Power (dBm)
802.11a	100	5500	10.70	12.67	N/A
	116	5580	10.48	13.01	N/A
	140	5700	11.84	12.47	N/A
802.11 n-HT20	100	5500	9.50	11.72	13.76
	116	5580	9.21	12.02	13.85
	140	5700	10.64	11.59	14.15
802.11 n-HT40	102	5510	9.14	10.96	13.15
	110	5550	8.77	10.94	13.00
	134	5670	9.69	10.70	13.23
802.11ac-VHT20	100	5500	9.54	11.81	13.83
	116	5580	9.22	12.10	13.90
	140	5700	10.78	11.64	14.24
802.11ac-VHT40	102	5510	9.08	10.98	13.14
	110	5550	8.69	10.80	12.88
	134	5670	9.83	10.90	13.41
802.11ac-VHT80	106	5530	8.07	10.77	12.64
	122	5610	8.52	10.32	12.52
802.11ax-HE20	100	5500	9.56	11.62	13.72
	116	5580	9.43	11.92	13.86
	140	5700	10.97	11.42	14.21
802.11ax-HE40	102	5510	9.16	10.89	13.12
	110	5550	8.74	10.96	13.00
	134	5670	9.62	10.87	13.30
802.11ax-HE80	106	5530	7.70	10.47	12.31
	122	5610	8.49	10.65	12.71

**WLAN (5.8Gband)**

5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT_A Total Power (dBm)	ANT_B Total Power (dBm)	ANT_A+B Conducted Power (dBm)
802.11a	149	5745	12.46	12.85	N/A
	157	5785	12.37	12.3	N/A
	165	5825	12.67	11.42	N/A
802.11 n-HT20	149	5745	11.47	11.64	14.57
	157	5785	11.27	11.19	14.24
	165	5825	11.69	10.38	14.09
802.11 n-HT40	151	5755	10.73	10.67	13.71
	159	5795	10.62	9.93	13.3
802.11ac-VHT20	149	5745	11.47	11.69	14.59
	157	5785	11.4	11.35	13.93
	165	5825	11.6	10.37	14.21
802.11ac-VHT40	151	5755	10.77	10.76	13.42
	159	5795	10.81	10.01	13.13
802.11ac-VHT80	155	5775	9.77	9.31	13.75
802.11ax-HE20	149	5745	11.78	11.54	14.46
	157	5785	11.65	11.1	14.02
	165	5825	11.86	10.26	13.41
802.11ax-HE40	151	5755	10.82	8.18	12.46
	159	5795	10.82	7.44	12.05
802.11ax-HE80	155	5775	6.37	5.97	7.27

UWB

UWB			
Mode	Frequency (MHz)	ERIP Power (dBm)	Output Power (mW)
BPSK	6490	-41.57	0

Note:

UWB transmit power is extremely low, its RF exposure impact can be ignored; SAR measurement is exempt under FCC RF exposure requirements.

11. EUT and Test Setup Photo

11.1 EUT Photo

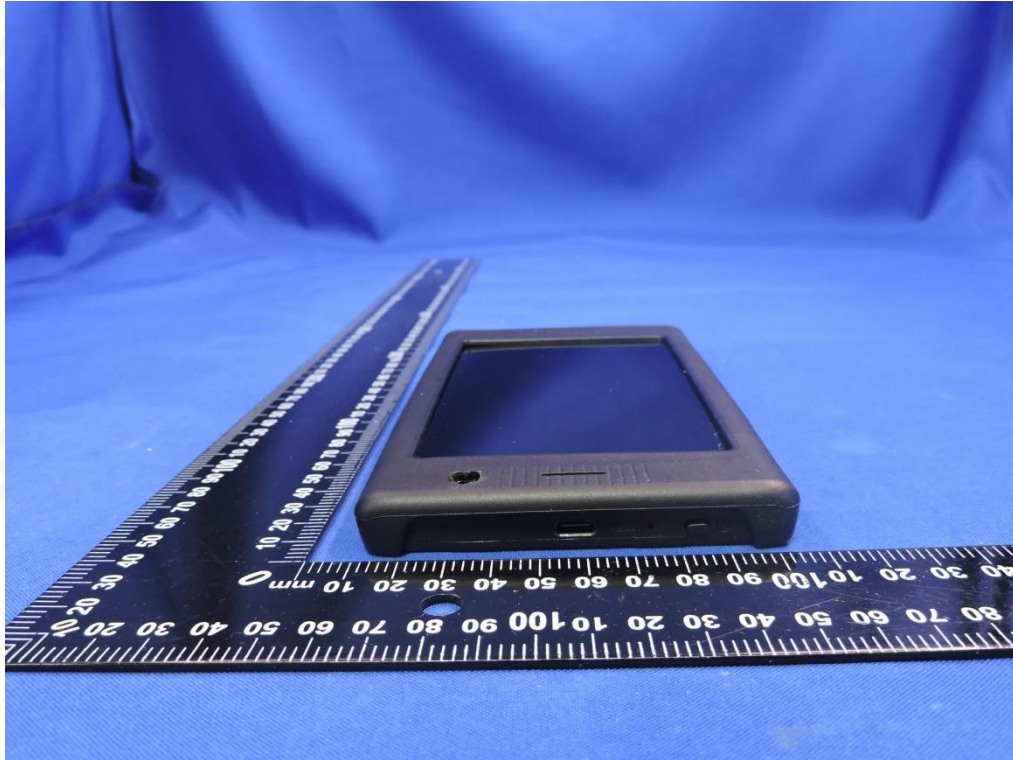
Front side



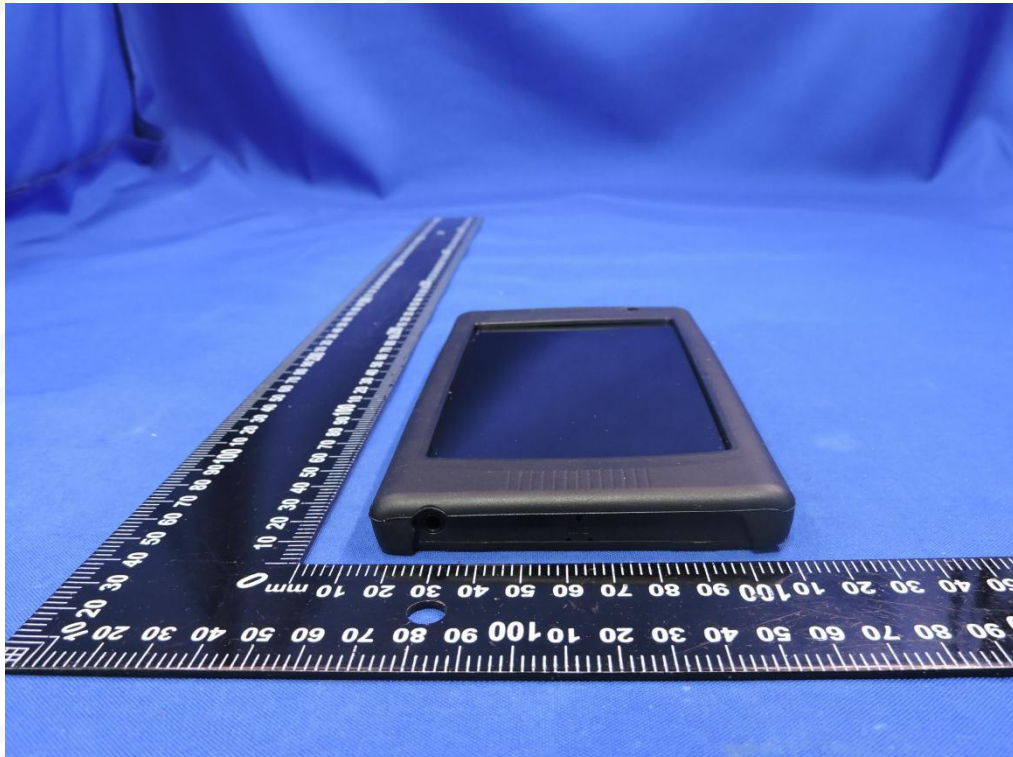
Back side



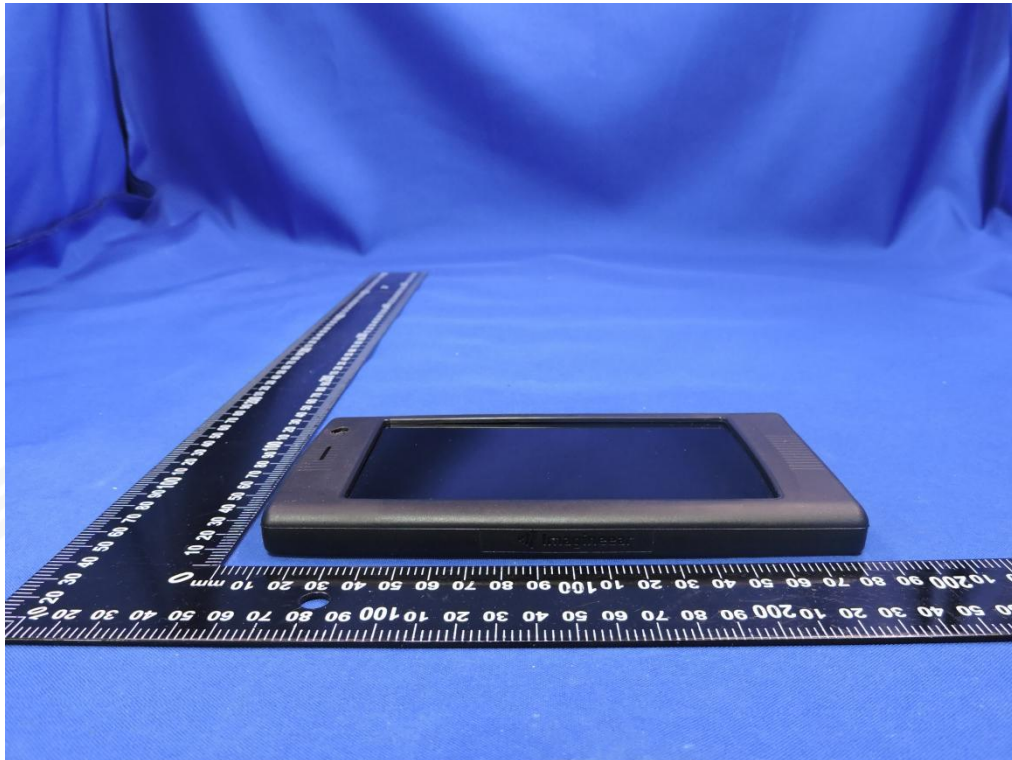
Top side



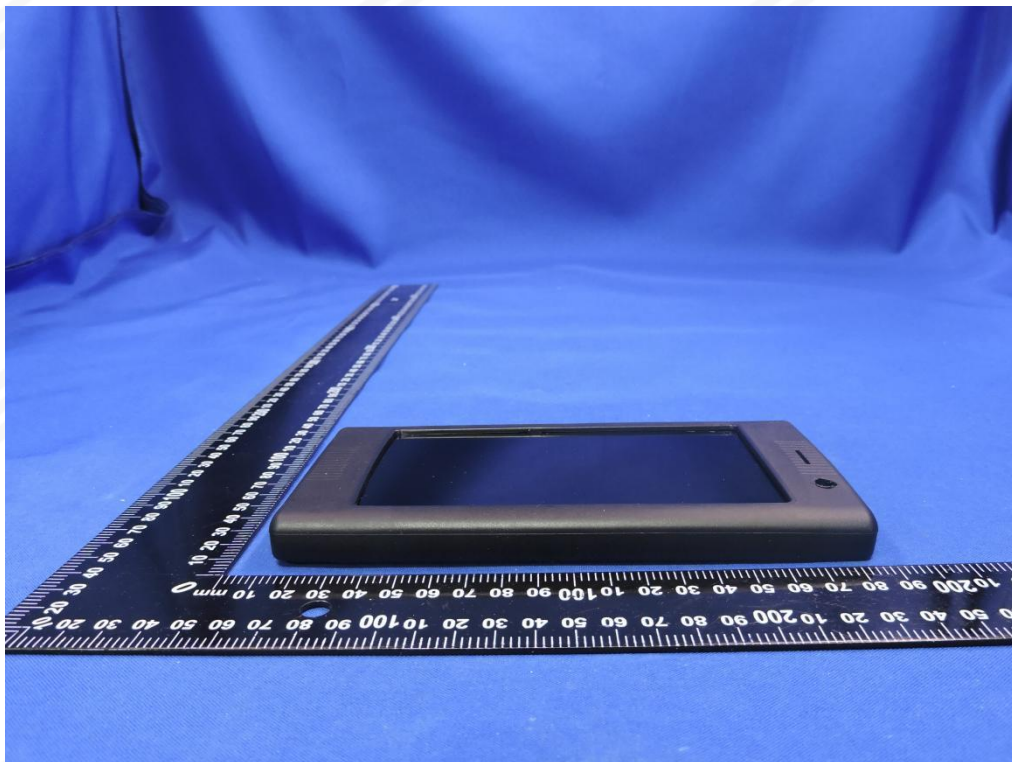
Bottom side



Left side

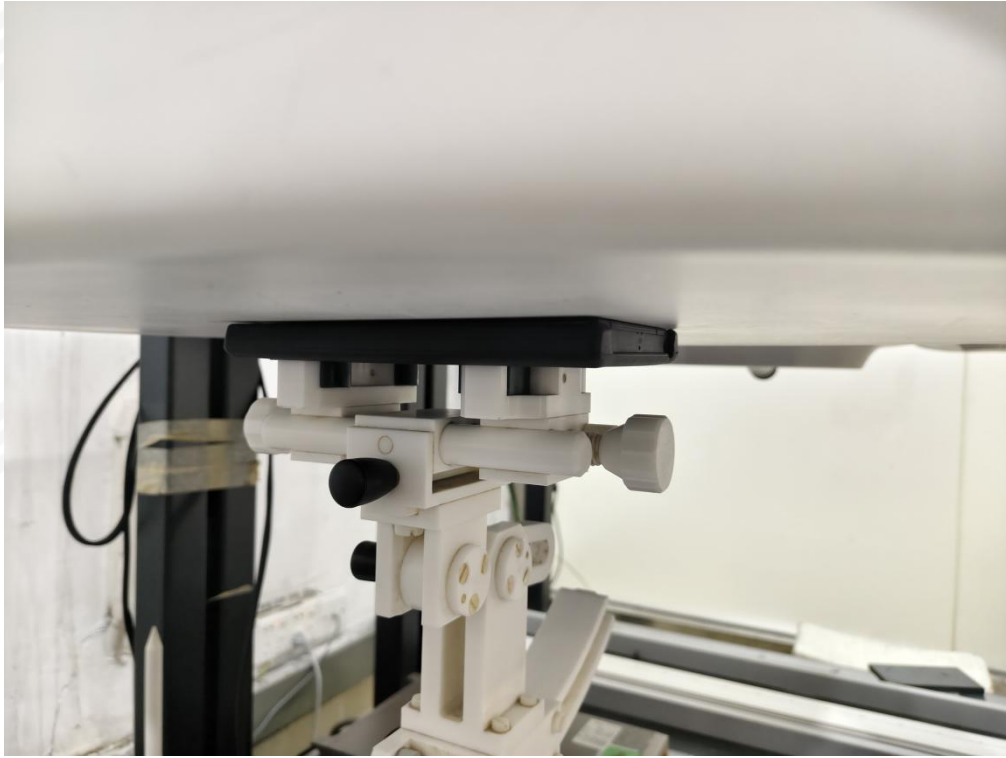


Right side



11.2 Setup Photo

Body Back side(separation distance is 0mm)



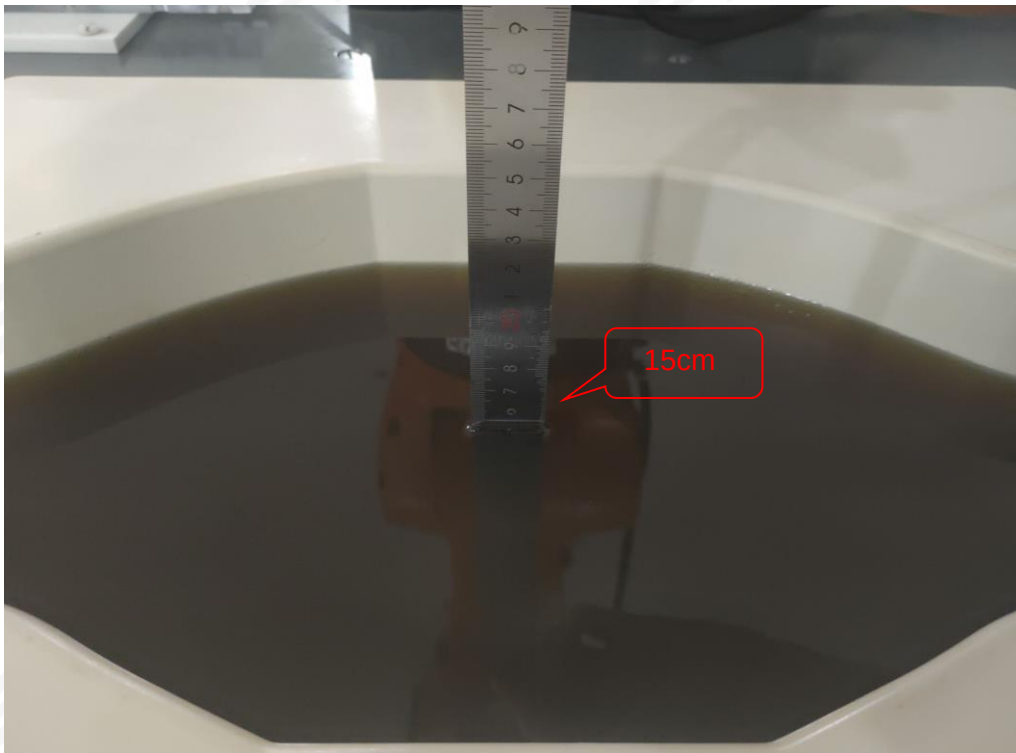
Body Left side(separation distance is 0mm)



Body Top side(separation distance is 0mm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn SAR

Band	Model	Test Position	Freq	SAR (1g) (W/kg)	Power Drift (%)	Max.Turn-up Power (dBm)	Meas.Output Power (dBm)	Scaled SAR (W/Kg)	Meas.No.
2.4G WLAN _ANT_A	802.11b	Back Side	2437	0.190	-2.84	13.50	13.44	0.193	1
		Left Side	2437	0.116	3.66	13.50	13.44	0.118	/
2.4G WLAN _ANT_B	802.11b	Back Side	2462	0.101	-2.23	14.50	14.18	0.109	2
		Left Side	2462	0.085	3.89	14.50	14.18	0.091	/
2.4G WLAN _MIMO_ANT_A	802.11 n -HT20	Back Side	2437	0.130	2.37	14.00	13.76	0.137	3
		Left Side	2437	0.093	2.78	14.00	13.76	0.098	/
2.4G WLAN _MIMO_ANT_B	802.11 n -HT20	Back Side	2437	0.126	-1.34	14.00	13.76	0.133	4
		Left Side	2437	0.099	3.83	14.00	13.76	0.105	/
BLE	GFSK(2Mbps)	Back Side	2480	0.029	2.60	6.50	6.20	0.031	5
		Left Side	2480	0.018	-2.40	6.50	6.20	0.019	/
5.2G WLAN _ANT_A	802.11ax -HE20	Back Side	5180	0.642	-1.16	13.50	13.20	0.688	6
		Left Side	5180	0.602	1.31	13.50	13.20	0.645	/
		Top Side	5180	0.448	-1.13	13.50	13.20	0.480	/
5.2G WLAN _ANT_B	802.11a	Back Side	5240	0.516	-0.28	14.00	13.94	0.523	7
		Left Side	5240	0.454	0.48	14.00	13.94	0.460	/
5.2G WLAN _MIMO_ANT_A	802.11ax -HE20	Back Side	5240	0.700	-0.91	15.50	15.34	0.726	8
		Left Side	5240	0.618	-0.32	15.50	15.34	0.641	/
		Top Side	5240	0.497	1.65	15.50	15.34	0.516	/
5.2G WLAN _MIMO_ANT_B	802.11ax -HE20	Back Side	5240	0.505	1.72	15.50	15.34	0.524	9
		Left Side	5240	0.437	0.33	15.50	15.34	0.453	/
5.3G WLAN _ANT_A	802.11a	Back Side	5260	0.338	-1.93	12.50	12.46	0.341	10
		Left Side	5260	0.325	-2.03	12.50	12.46	0.328	/
		Top Side	5260	0.301	-2.04	12.50	12.46	0.304	/
5.3G WLAN _ANT_B	802.11a	Back Side	5320	0.747	-1.44	14.50	14.26	0.789	11
		Left Side	5320	0.725	-1.34	14.50	14.26	0.766	/
5.3G WLAN _MIMO_ANT_A	802.11ax -HE20	Back Side	5320	0.650	-3.25	15.00	14.69	0.698	12
		Left Side	5320	0.616	-1.41	15.00	14.69	0.662	/
		Top Side	5320	0.489	-2.54	15.00	14.69	0.525	/
5.3G WLAN _MIMO_ANT_B	802.11ax -HE20	Back Side	5320	0.511	3.14	15.00	14.69	0.549	13
		Left Side	5320	0.473	-1.75	15.00	14.69	0.508	/
5.6G WLAN _ANT_A	802.11a	Back Side	5500	0.731	-2.40	11.00	10.70	0.783	/
		Back Side	5580	0.742	-0.66	10.50	10.48	0.745	/
		Back Side	5700	0.772	-0.81	12.00	11.84	0.801	14
		Left Side	5700	0.695	1.02	12.00	11.84	0.721	/
		Top Side	5700	0.381	1.16	12.00	11.84	0.395	/
5.6G WLAN _ANT_B	802.11a	Back Side	5580	0.483	0.59	13.50	13.01	0.541	15
		Left Side	5580	0.424	2.37	13.50	13.01	0.475	/
5.6G WLAN _MIMO_ANT_A	802.11ac -VHT20	Back Side	5700	0.706	3.93	14.50	14.24	0.750	16
		Left Side	5700	0.658	0.09	14.50	14.24	0.699	/
		Top Side	5700	0.649	-2.07	14.50	14.24	0.689	/
5.6G WLAN _MIMO_ANT_B	802.11ac -VHT20	Back Side	5700	0.587	-2.05	14.50	14.24	0.623	17
		Left Side	5700	0.551	2.53	14.50	14.24	0.585	/
5.8G WLAN _ANT_A	802.11a	Back Side	5745	0.756	1.57	12.50	12.46	0.763	/
		Back Side	5785	0.737	-0.13	12.50	12.37	0.759	/
		Back Side	5825	0.792	2.50	13.00	12.67	0.855	18



		Left Side	5825	0.721	0.92	13.00	12.67	0.778	/
		Top Side	5825	0.523	0.64	13.00	12.67	0.564	/
5.8G WLAN_ANT_B	802.11a	Back Side	5745	0.502	3.98	13.00	12.85	0.520	19
		Left Side	5745	0.430	-0.44	13.00	12.85	0.445	/
5.8G WLAN_MIMO_ANT_A	802.11ac-VHT20	Back Side	5745	0.718	3.43	15.00	14.59	0.789	20
		Left Side	5745	0.688	2.41	15.00	14.59	0.756	/
		Top Side	5745	0.505	1.03	15.00	14.59	0.555	/
5.8G WLAN_MIMO_ANT_B	802.11ac-VHT20	Back Side	5745	0.493	2.24	15.00	14.59	0.542	21
		Left Side	5745	0.402	-1.98	15.00	14.59	0.442	/

Band	ANT	Max SAR	2.4G WLAN_ANT_A+B
		(W/Kg)	
2.4G WLAN_ANT_A+B	ANT-A	0.137	0.270
	ANT-B	0.133	
Band	ANT	Max SAR	5.2G WLAN_ANT_A+B
		(W/Kg)	
5.2G WLAN_ANT_A+B	ANT-A	0.726	1.250
	ANT-B	0.524	
Band	ANT	Max SAR	5.3G WLAN_ANT_A+B
		(W/Kg)	
5.3G WLAN_ANT_A+B	ANT-A	0.698	1.247
	ANT-B	0.549	
Band	ANT	Max SAR	5.6G WLAN_ANT_A+B
		(W/Kg)	
5.6G WLAN_ANT_A+B	ANT-A	0.750	1.373
	ANT-B	0.623	
Band	ANT	Max SAR	5.8G WLAN_ANT_A+B
		(W/Kg)	
5.8G WLAN_ANT_A+B	ANT-A	0.789	1.331
	ANT-B	0.542	

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D04, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor

**12.3 Repeated SAR**

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
5.6G WLAN_ANT_A	802.11a	Back Side	5700	0.752	0.46	12	11.84	0.780	-
5.8G WLAN_ANT_A	802.11a	Back Side	5825	0.788	-2.28	13	12.67	0.851	-

12.4 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
5.6G WLAN_ANT_A	802.11a	Back Side	5700	0.772	0.752	1.027	-	-	-
5.8G WLAN_ANT_A	802.11a	Back Side	5825	0.792	0.788	1.005	-	-	-

Note:

1. Per KDB 447498 D04,for each frequency band ,repeated SAR measurement is required only when the measured SAR is $\geq 0.8\text{W/Kg}$.
2. Per KDB 447498 D04,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤ 1.2 and the measured SAR $< 1.45\text{W/Kg}$, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is $\geq 1.45\text{W/Kg}$.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. 2.4GHz WLAN/5G WLAN+ BLE

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 D04 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)·[$\sqrt{f}$ (GHz) /x] W/kg for test separation distances ≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
2.4G WLAN+BLE	Body	2.4G WLAN	0.270	0.301
		BLE	0.031	
5.2G WLAN+BLE	Body	5.2G WLAN	1.250	1.281
		BLE	0.031	
5.3G WLAN+BLE	Body	5.3G WLAN	1.247	1.278
		BLE	0.031	
5.6G WLAN+BLE	Body	5.6G WLAN	1.373	1.404
		BLE	0.031	
5.8G WLAN+BLE	Body	5.8G WLAN	1.331	1.362
		BLE	0.031	

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna.

When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR-1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR-1g 1.6 W/kg), SAR test exclusion is determined by the SPLSR.



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2026.02.04	2027.02.03
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2026.02.03	2027.02.02
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2026.02.04	2027.02.03
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



Appendix A. System Validation Plots

System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

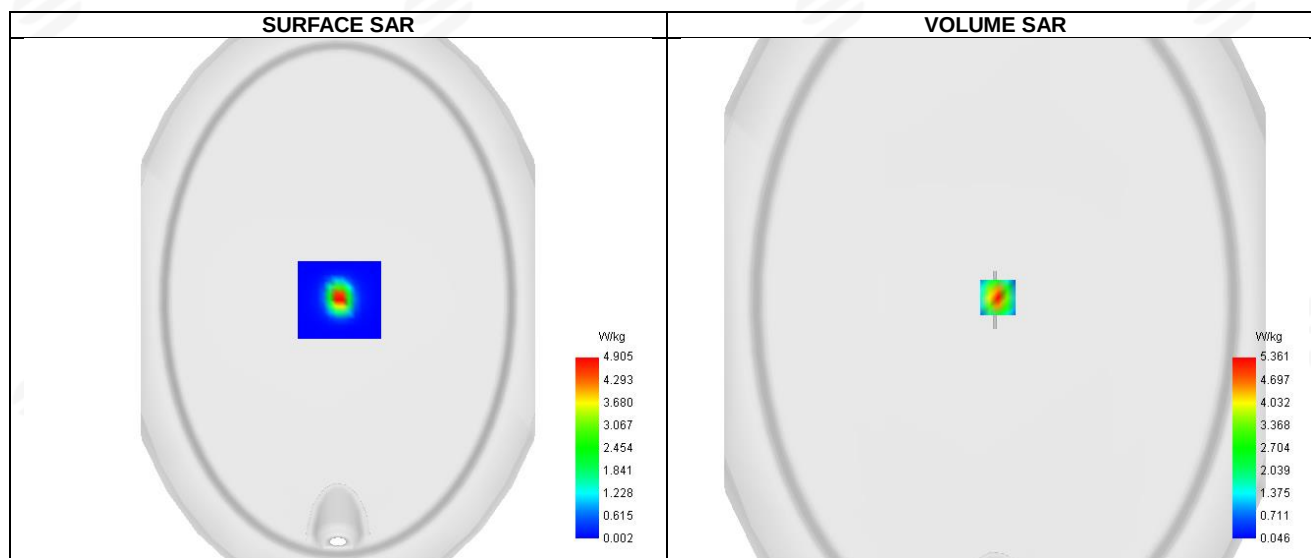
Area scan resolution: dx=8mm, dy=8mm

Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2026-05-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	38.88
Conductivity (S/m)	1.78
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



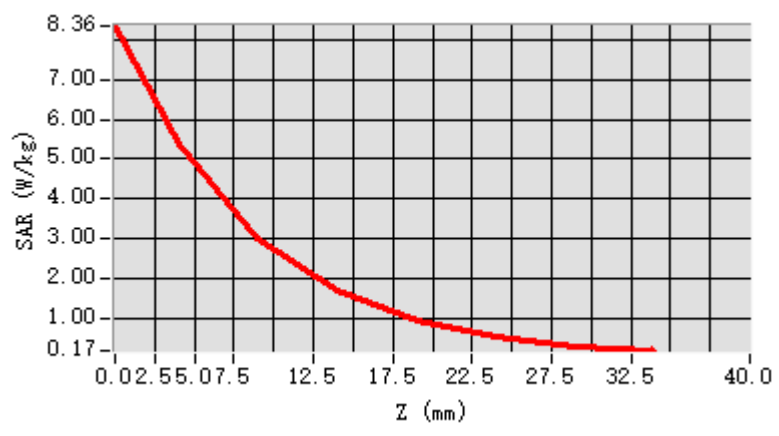
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 8.35 W/kg

D. SAR 1g & 10g

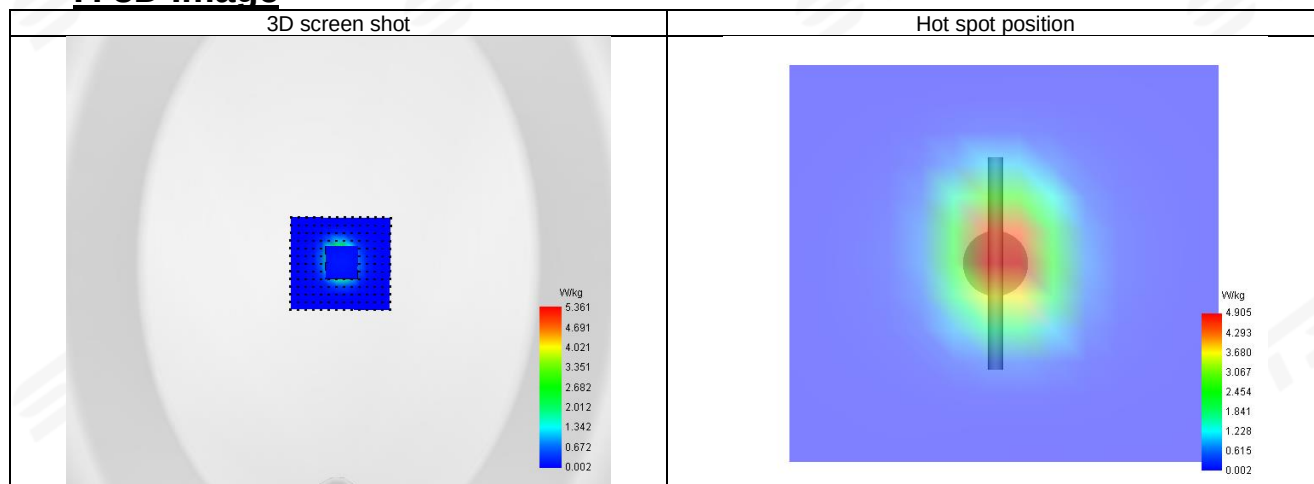
SAR 10g (W/Kg)	2.372
SAR 1g (W/Kg)	5.499
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.852595

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.359	5.361	2.994	1.676	0.950	0.534	0.300



F. 3D Image



**System Performance Check Data (5200MHz)**

Type: Dipole measurement (Complete)

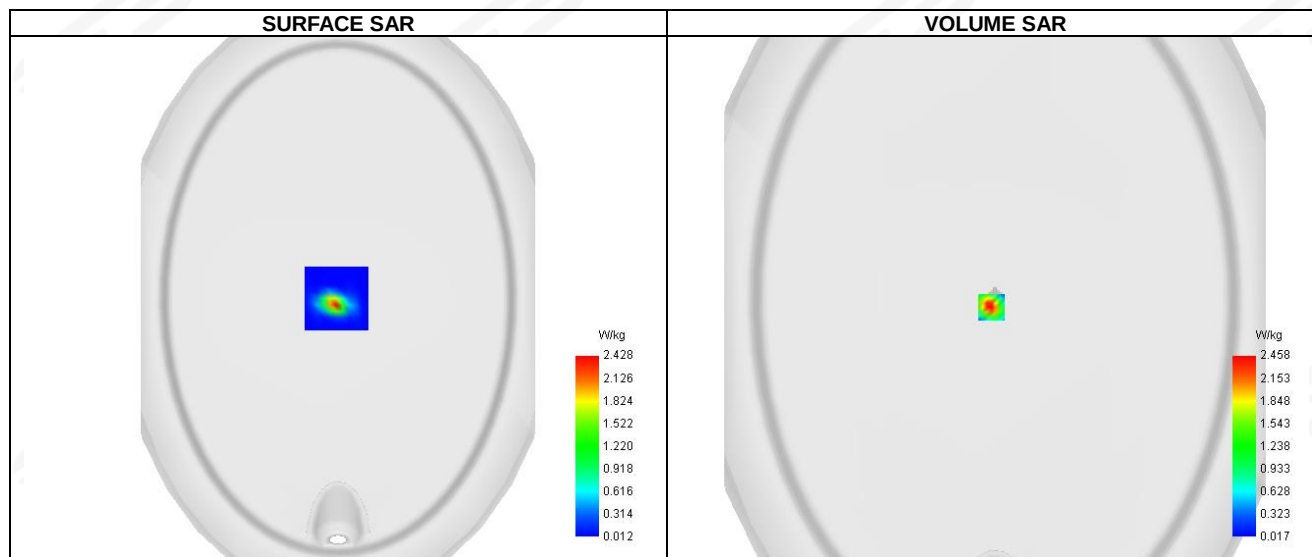
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-05-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.70
Conductivity (S/m)	4.66
Probe	SN 08/21 EPGO352
ConvF	1.37
Crest factor:	1:1



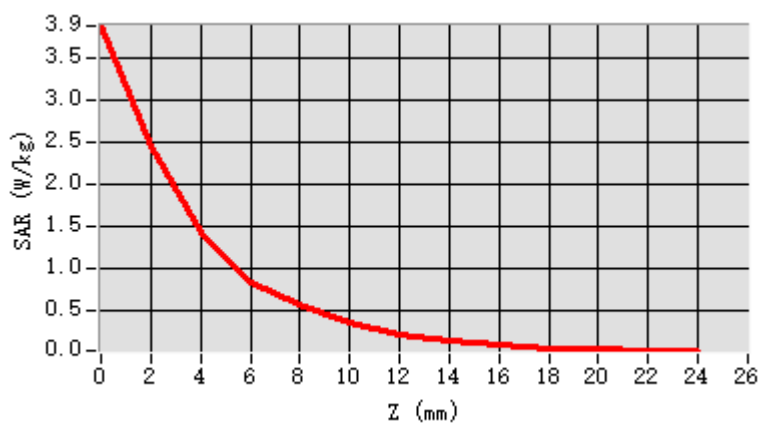
Maximum location: X=-3.00, Y=-8.00 ; SAR Peak: 4.22 W/kg

D. SAR 1g & 10g

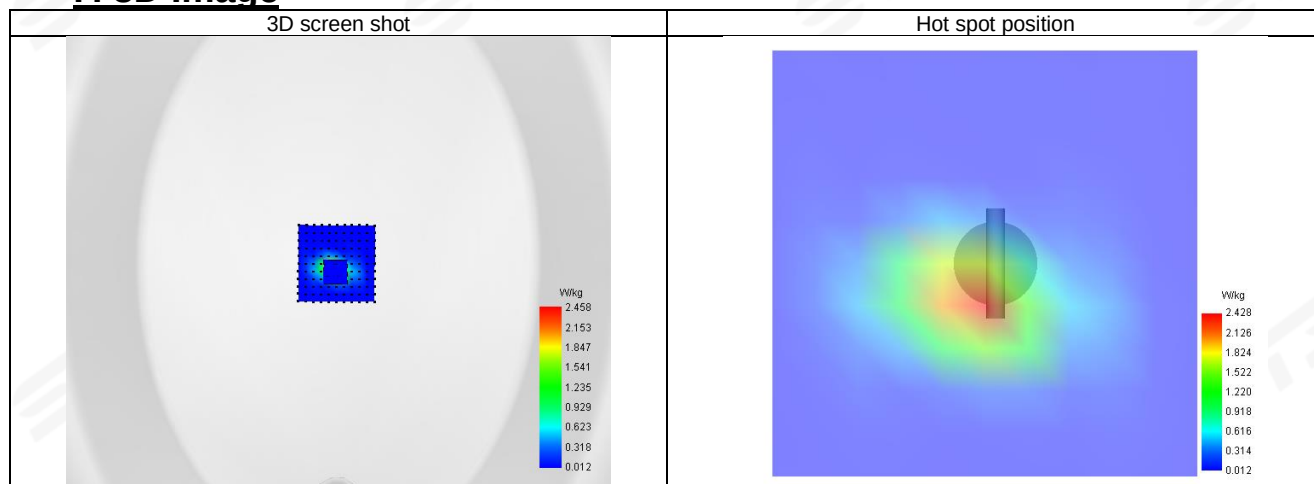
SAR 10g (W/Kg)	0.561
SAR 1g (W/Kg)	1.526
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.914614

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	3.877	2.458	1.424	0.829	0.566	0.352	0.219	0.136	0.084	0.052	0.033	0.020	0.012



F. 3D Image



**System Performance Check Data (5300MHz)**

Type: Dipole measurement (Complete)

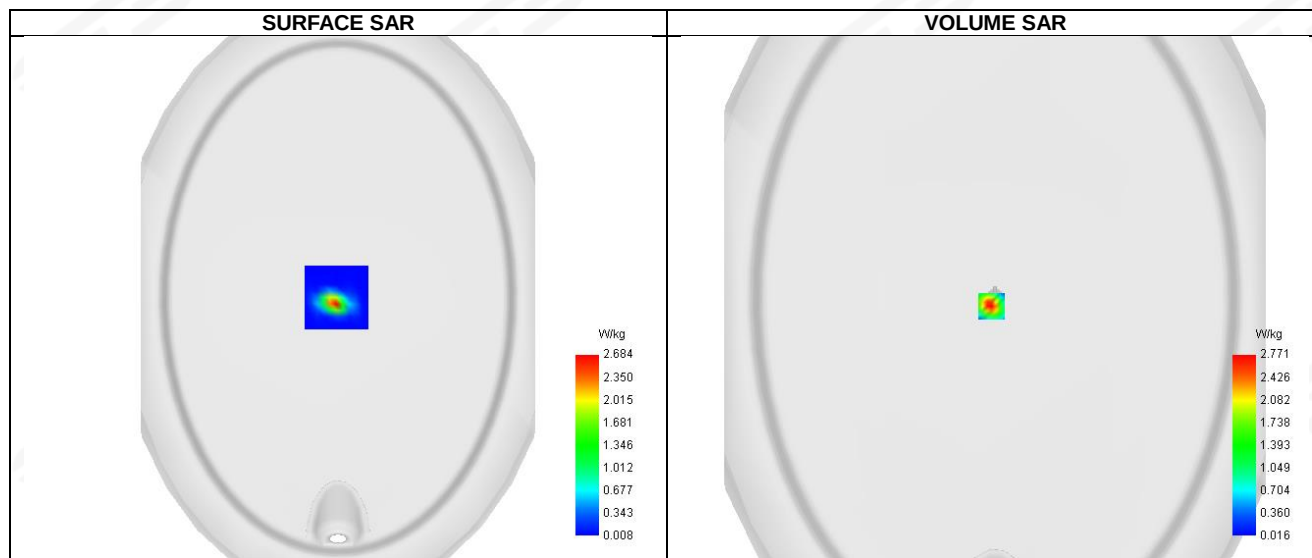
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-05-19

Experimental conditions.

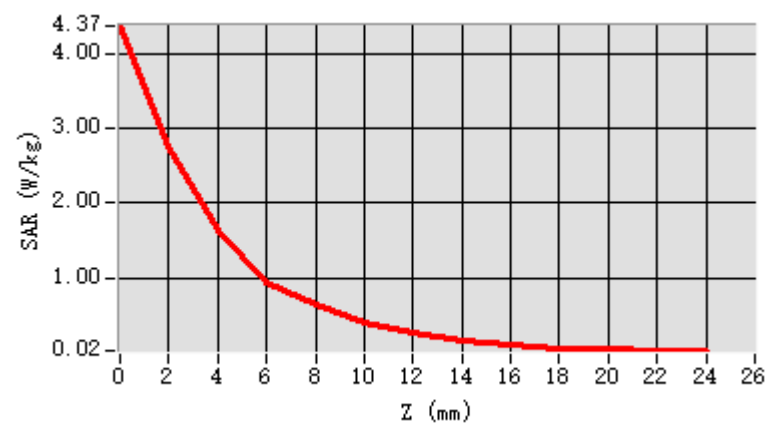
Phantom	Validation plane
Device Position	Dipole
Band	5400MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5400
Relative permittivity	35.47
Conductivity (S/m)	4.86
Probe	SN 08/21 EPGO352
ConvF	1.26
Crest factor:	1:1

**D. SAR 1g & 10g**

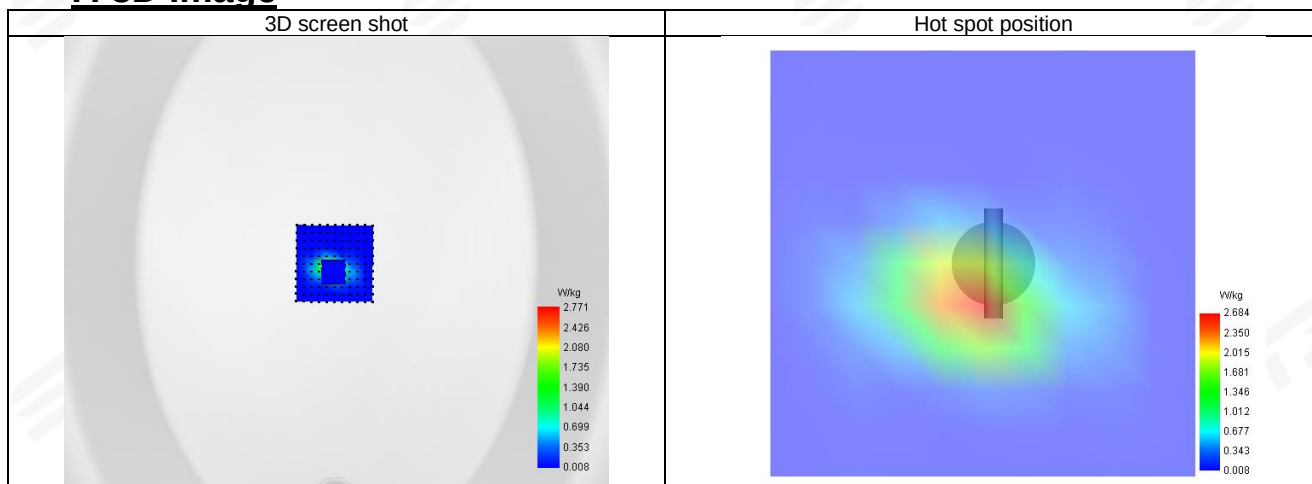
SAR 10g (W/Kg)	0.578
SAR 1g (W/Kg)	1.783
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.483969

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	4.366	2.771	1.621	0.932	0.652	0.409	0.256	0.160	0.101	0.063	0.039	0.025	0.015



F. 3D Image



**System Performance Check Data (5600MHz)**

Type: Dipole measurement (Complete)

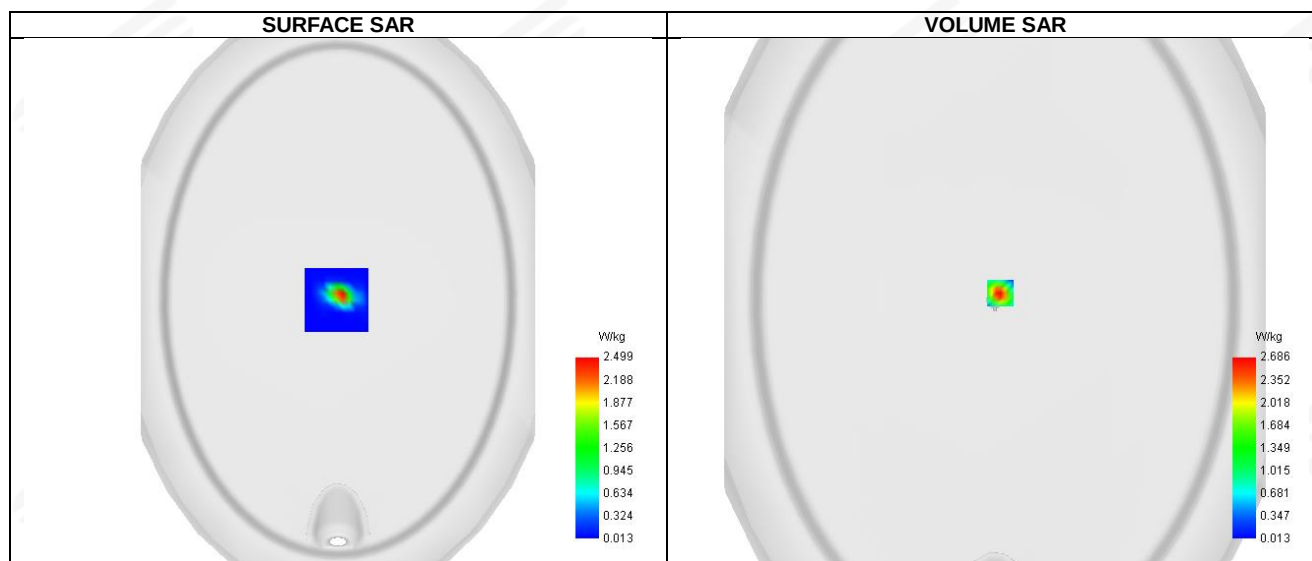
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-05-20

Experimental conditions.

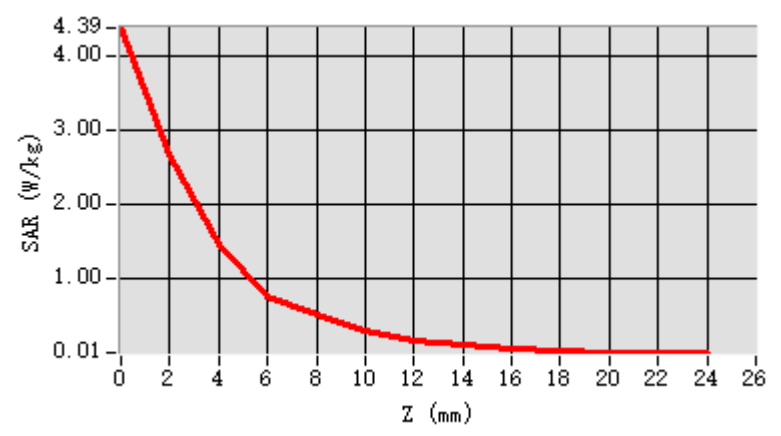
Phantom	Validation plane
Device Position	Dipole
Band	5600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5600
Relative permittivity	35.29
Conductivity (S/m)	5.07
Probe	SN 08/21 EPGO352
ConvF	1.21
Crest factor:	1:1

**D. SAR 1g & 10g**

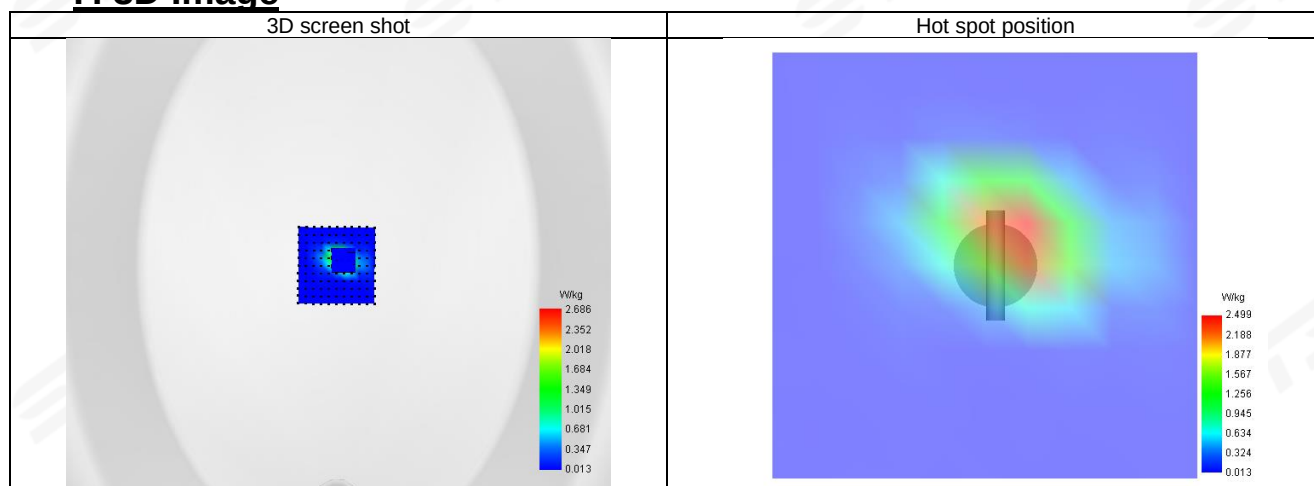
SAR 10g (W/Kg)	0.621
SAR 1g (W/Kg)	1.762
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	54.803205

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	4.387	2.686	1.472	0.780	0.533	0.316	0.187	0.111	0.066	0.039	0.023	0.014	0.014



F. 3D Image



**System Performance Check Data (5800MHz)**

Type: Dipole measurement (Complete)

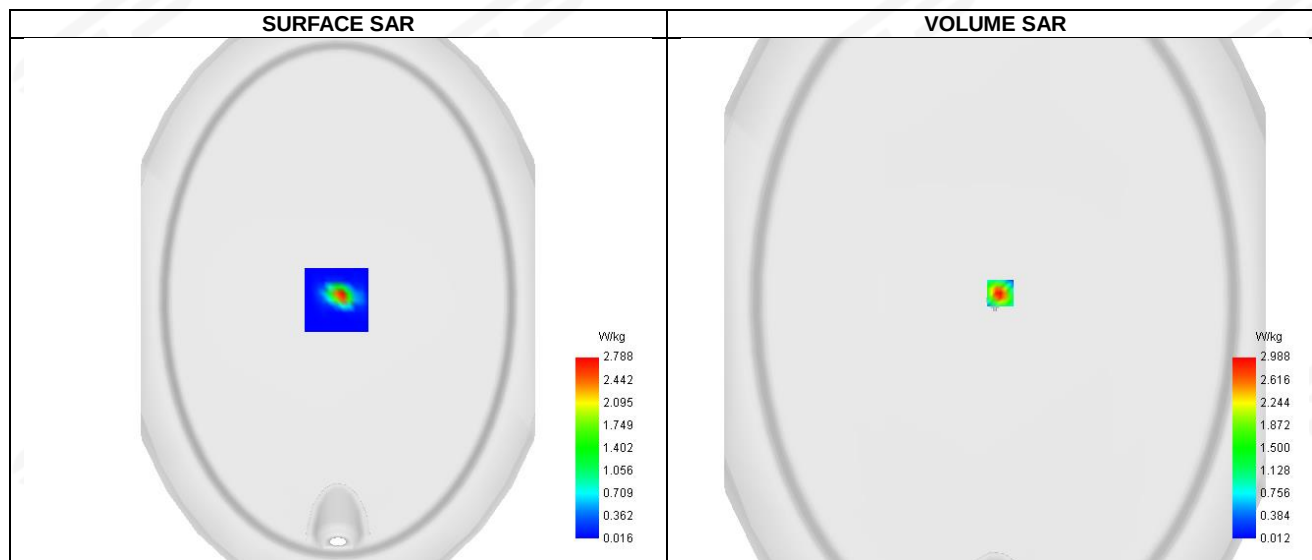
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm

Date of measurement: 2026-05-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.12
Conductivity (S/m)	5.26
Probe	SN 08/21 EPGO352
ConvF	1.32
Crest factor:	1:1



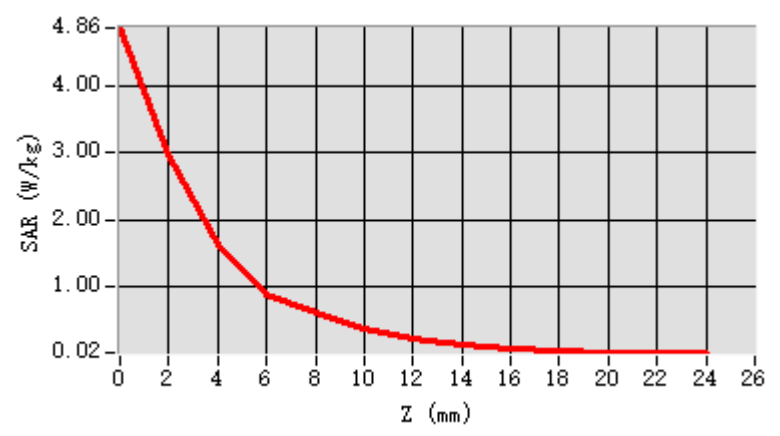
Maximum location: X=5.00, Y=6.00 ; SAR Peak: 5.28 W/kg

D. SAR 1g & 10g

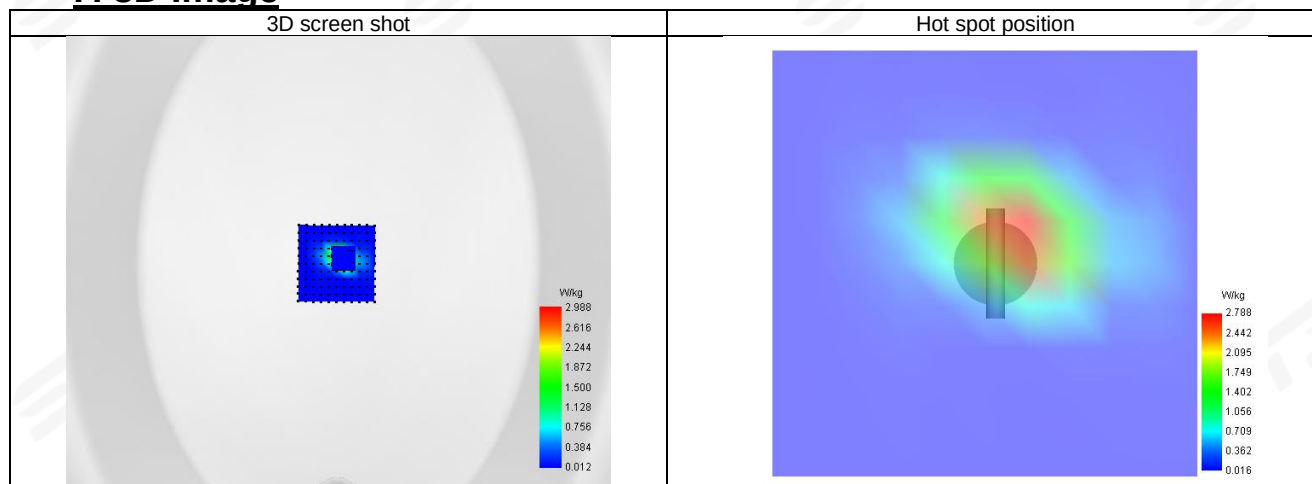
SAR 10g (W/Kg)	0.644
SAR 1g (W/Kg)	1.855
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	55.018823

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	4.856	2.988	1.644	0.886	0.619	0.373	0.225	0.136	0.082	0.049	0.030	0.018	0.010



F. 3D Image

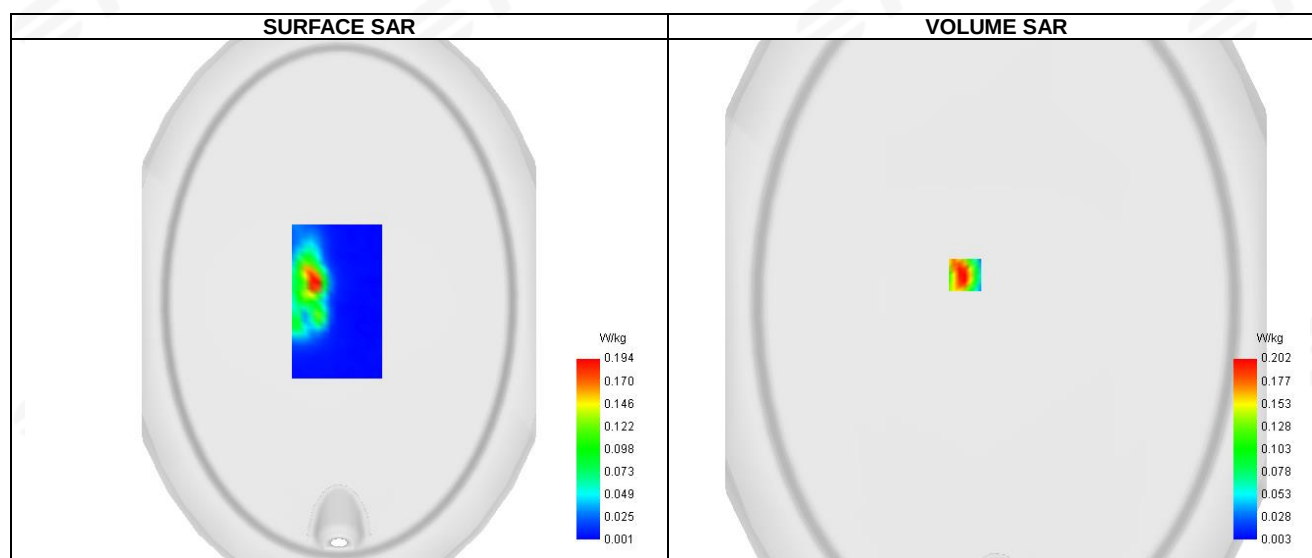




Appendix B. SAR Test Plots

Plot 1: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM Ant A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.32
Conductivity (S/m)	1.79



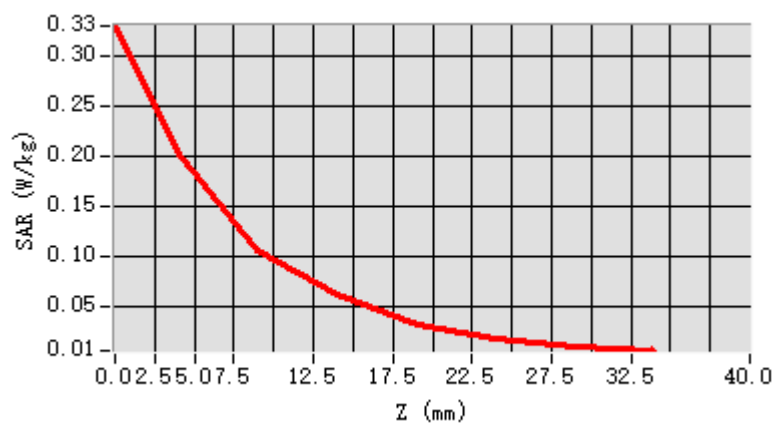
Maximum location: X=-28.00, Y=24.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

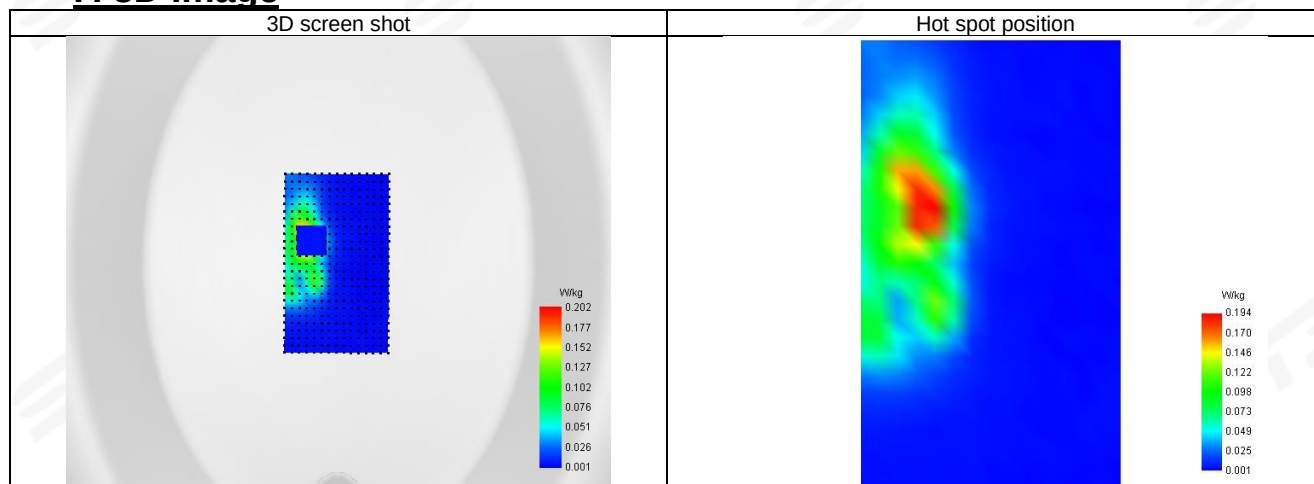
SAR 10g (W/Kg)	0.099
SAR 1g (W/Kg)	0.190
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.781254

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.330	0.202	0.106	0.061	0.032	0.018	0.009



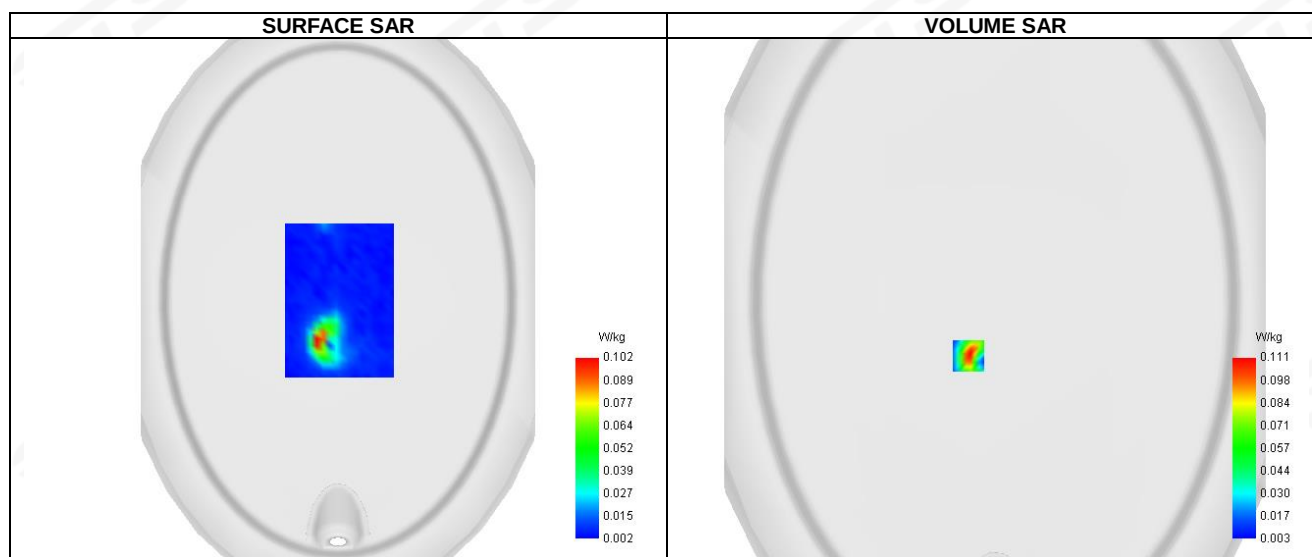
F. 3D Image





Plot 2: DUT: Nostro; EUT Model: Nostro

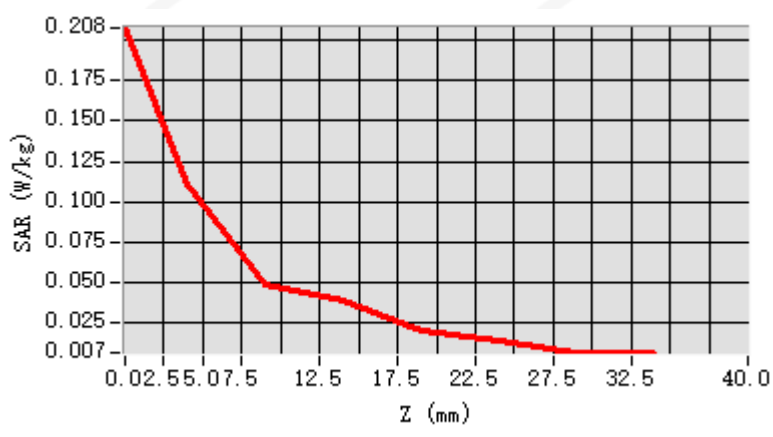
Test Date	2026-05-19
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM Ant B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2462
Relative permittivity (real part)	38.95
Conductivity (S/m)	1.82

**D. SAR 1g & 10g**

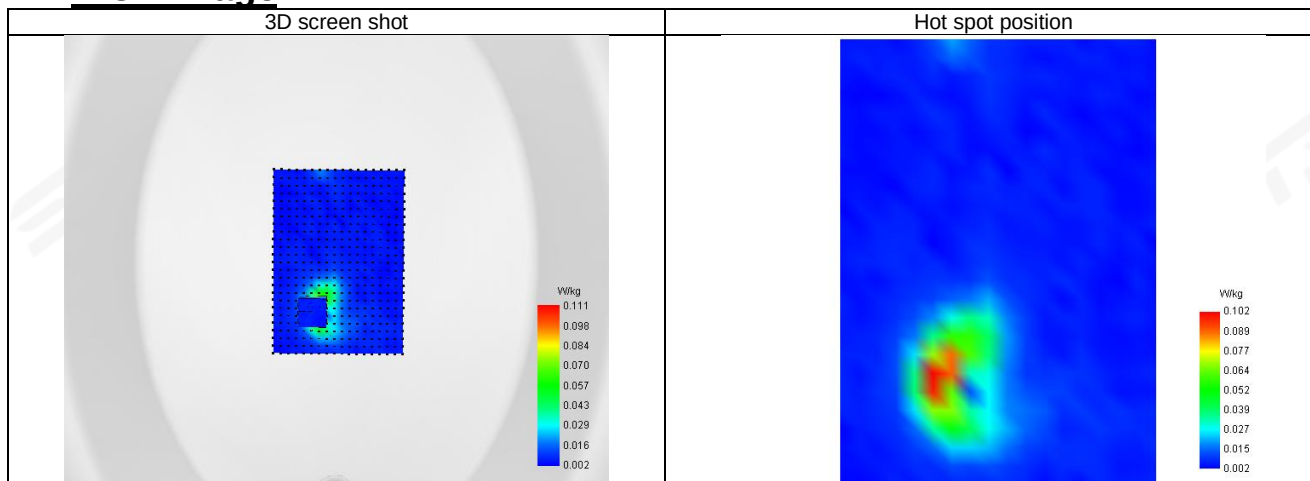
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.101
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.936915

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.208	0.111	0.049	0.039	0.020	0.015	0.007

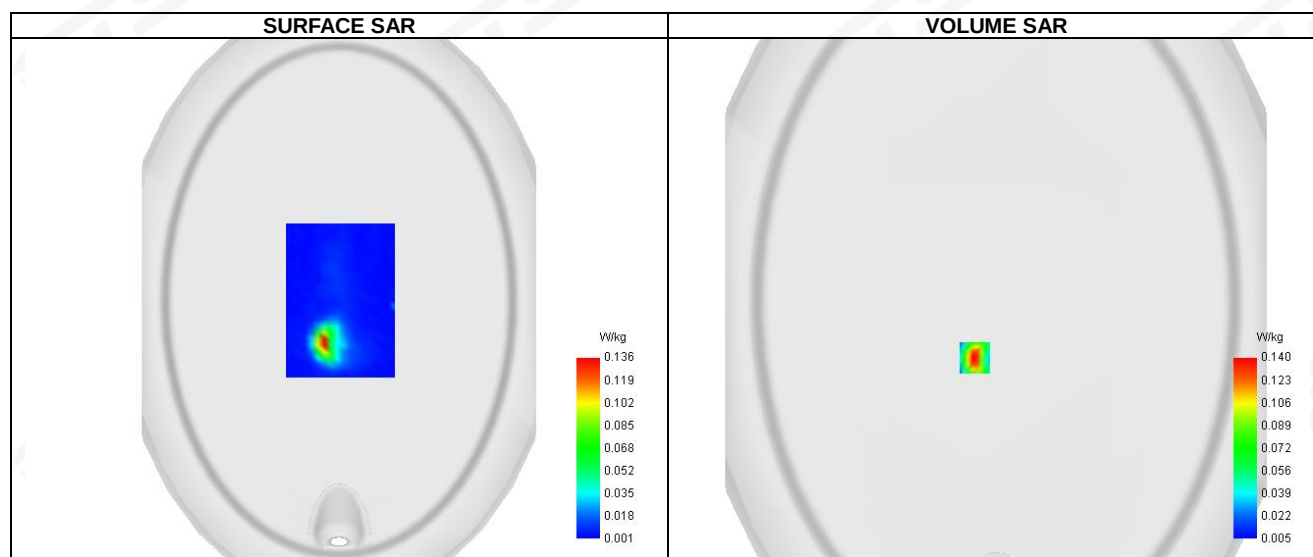


F. 3D Image



**Plot 3: DUT: Nostro; EUT Model: Nostro**

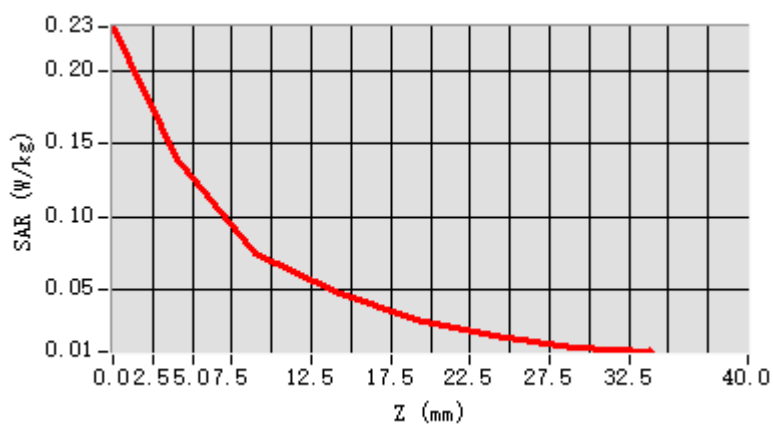
Test Date	2026-05-19
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM MIMO A
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.32
Conductivity (S/m)	1.79

**D. SAR 1g & 10g**

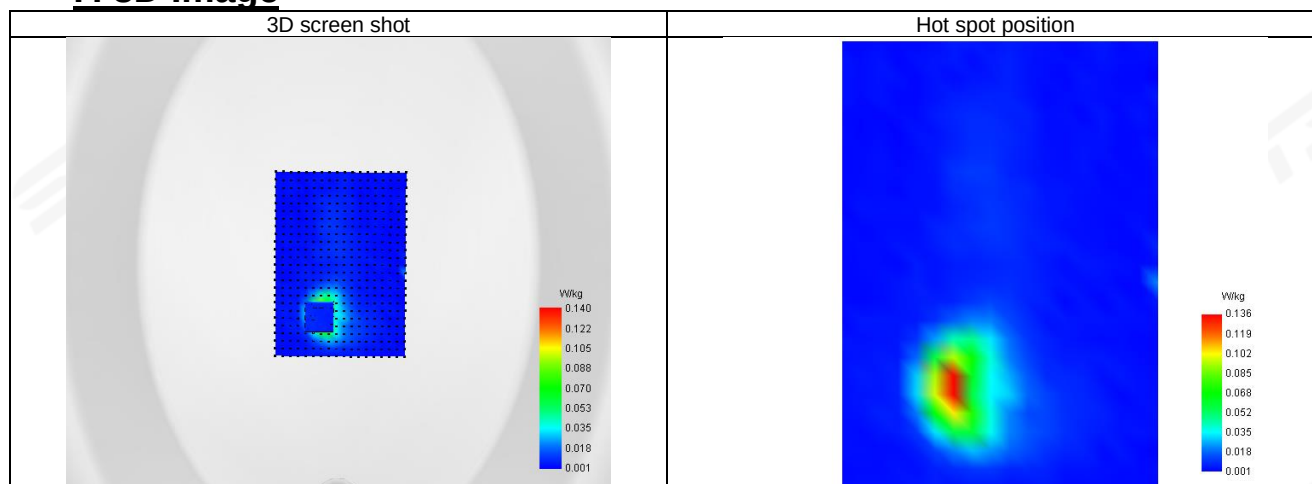
SAR 10g (W/Kg)	0.062
SAR 1g (W/Kg)	0.130
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.710070

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.230	0.140	0.075	0.049	0.030	0.018	0.011



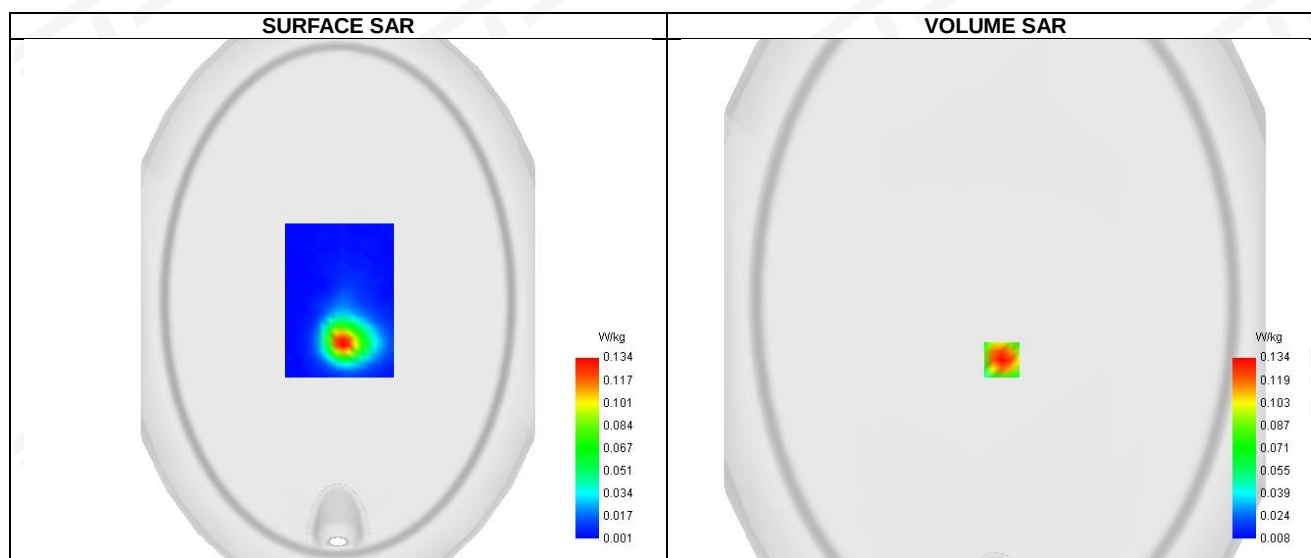
F. 3D Image





Plot 4: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM MIMO B
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2437
Relative permittivity (real part)	39.32
Conductivity (S/m)	1.79



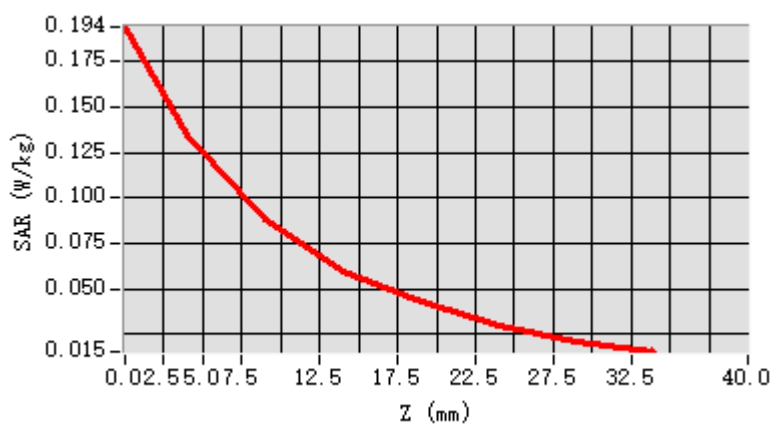
Maximum location: X=6.00, Y=-54.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

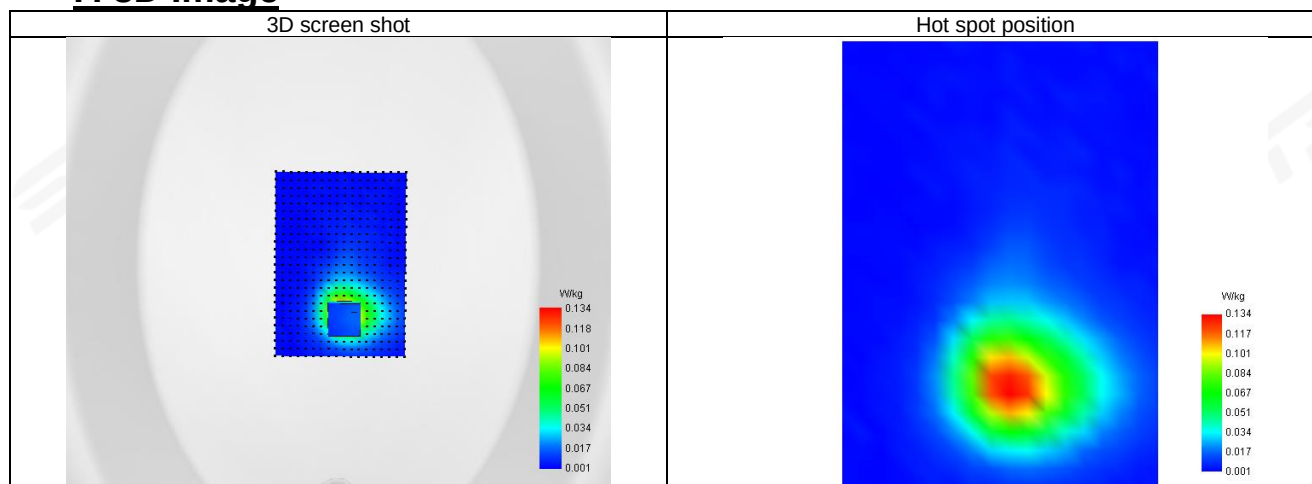
SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.126
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	67.347400

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.194	0.134	0.088	0.059	0.043	0.029	0.020



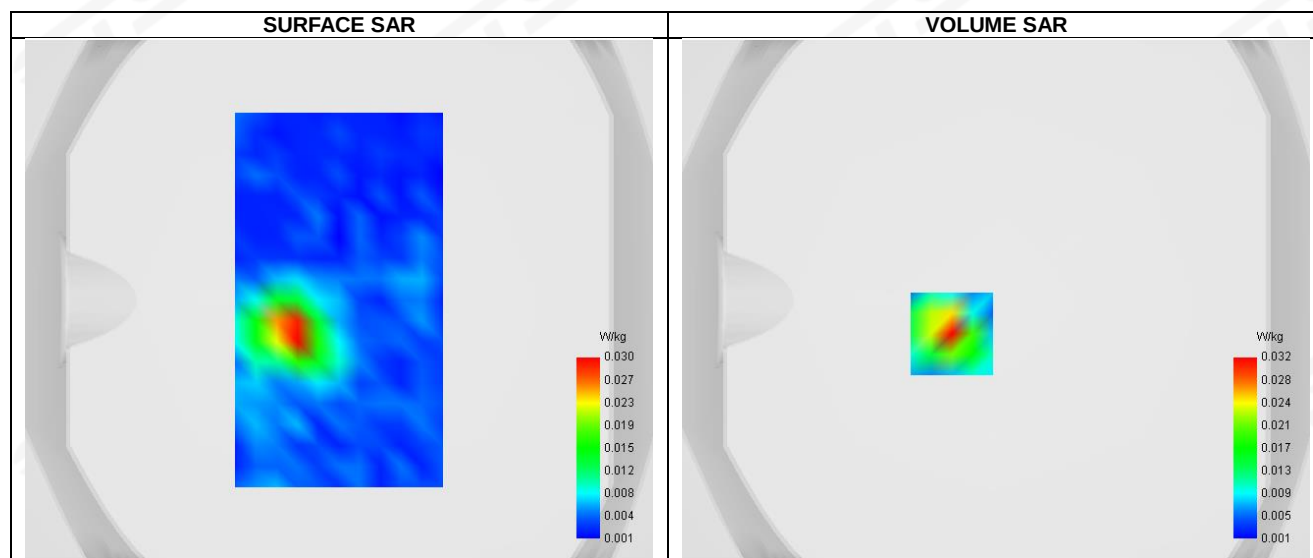
F. 3D Image





Plot 5: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	BT
Signal	GFSK (Crest factor: 1.0)
Frequency (MHz)	2480
Relative permittivity (real part)	39.51
Conductivity (S/m)	1.83

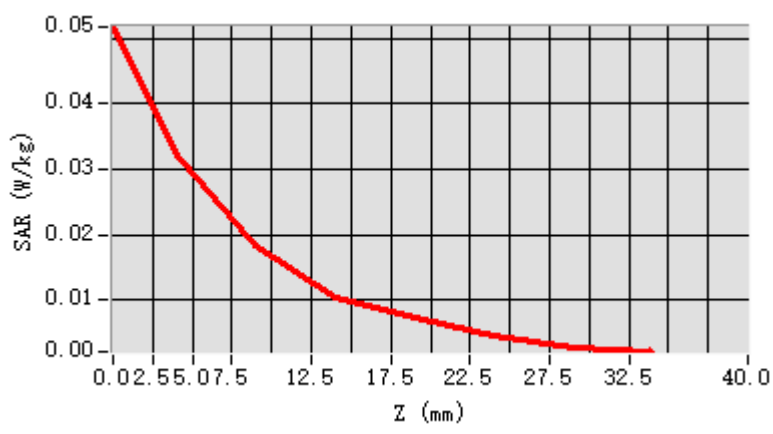


D. SAR 1g & 10g

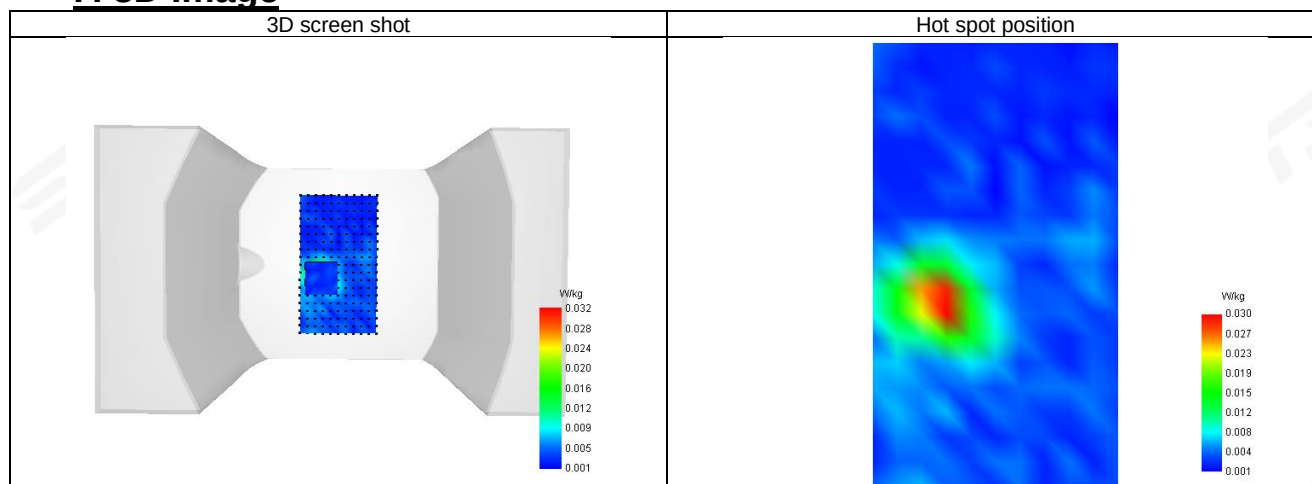
SAR 10g (W/Kg)	0.014
SAR 1g (W/Kg)	0.029
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	56.592299

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.052	0.032	0.018	0.011	0.007	0.004	0.003



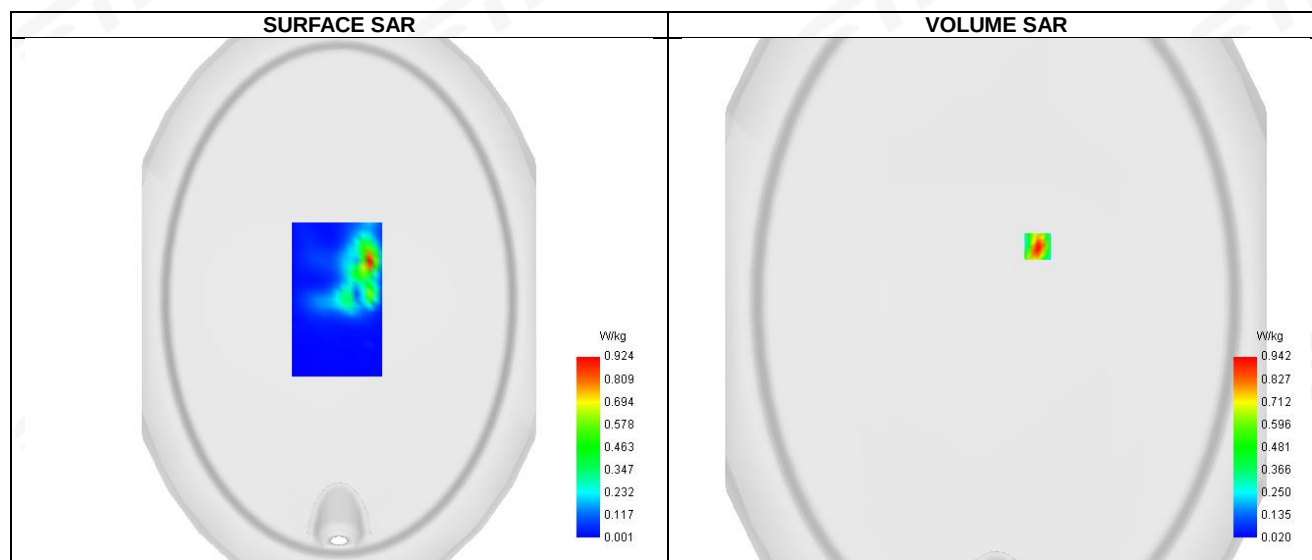
F. 3D Image





Plot6: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ax-HE20 Ant A
Signal	802.11ax-HE20(Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.94
Conductivity (S/m)	4.64



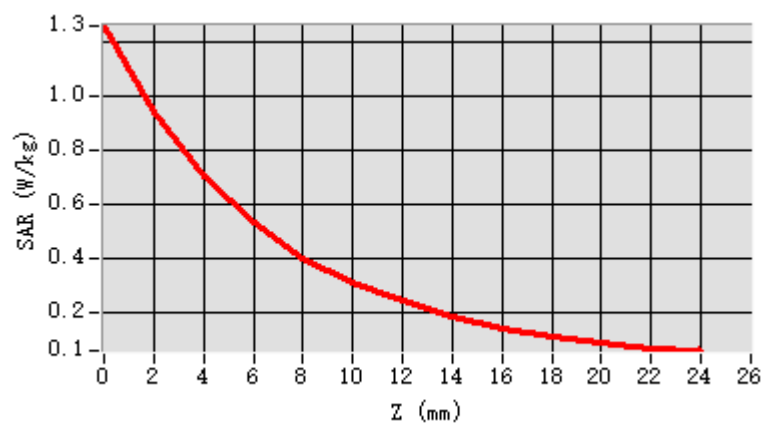
Maximum location: X=38.00, Y=48.00 ; SAR Peak: 1.25 W/kg

D. SAR 1g & 10g

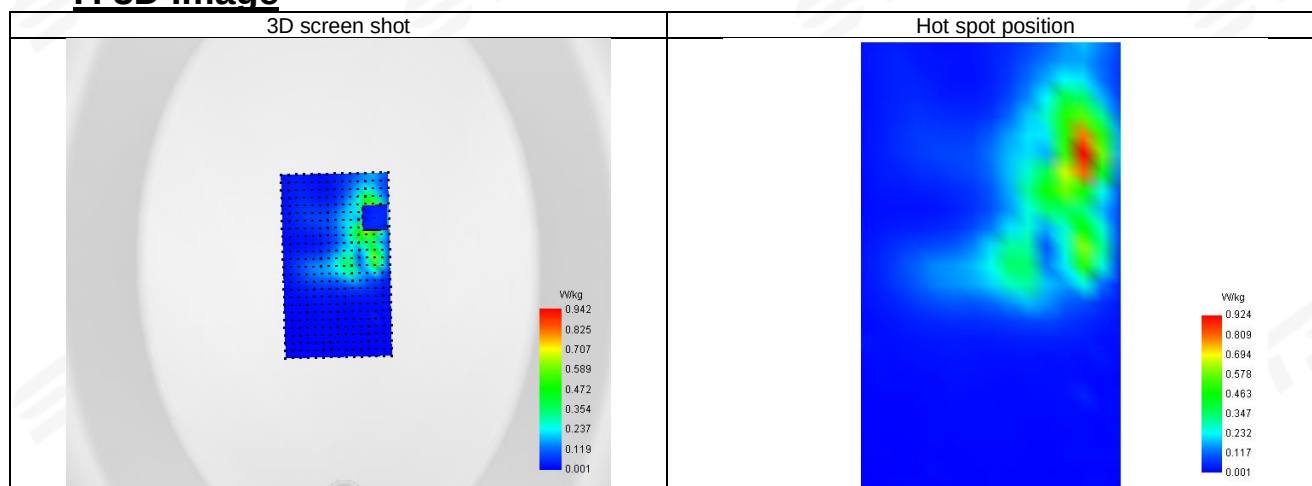
SAR 10g (W/Kg)	0.294
SAR 1g (W/Kg)	0.642
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	74.547303

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.258	0.942	0.703	0.529	0.401	0.305	0.241	0.186	0.141	0.106	0.085	0.065	0.055



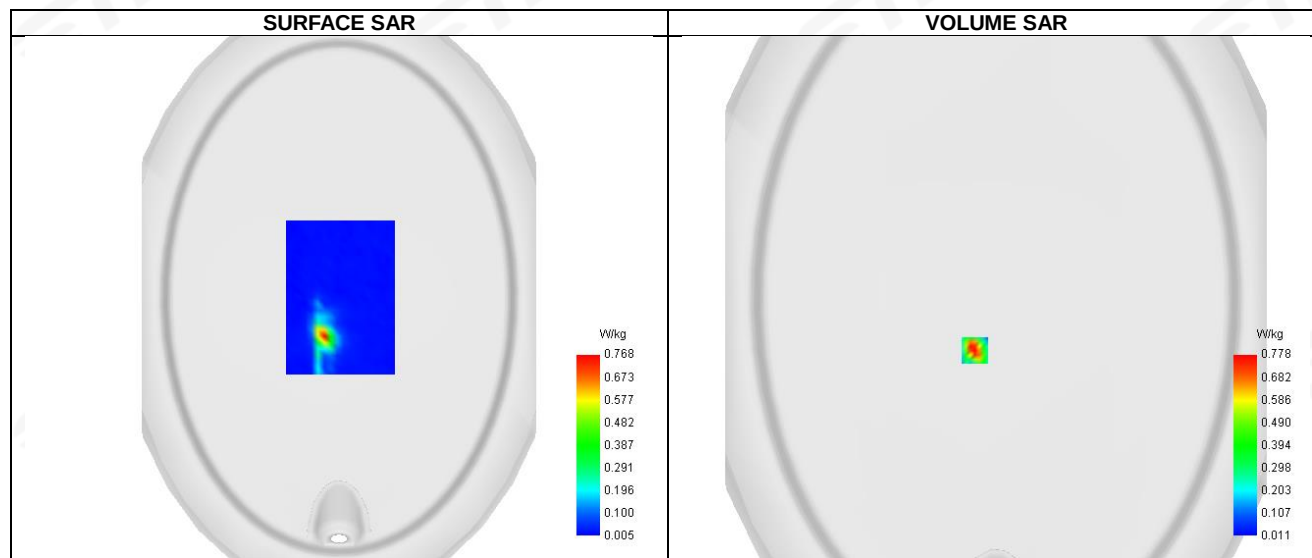
F. 3D Image





Plot7: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM Ant B
Signal	802.11a(Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.41
Conductivity (S/m)	4.70



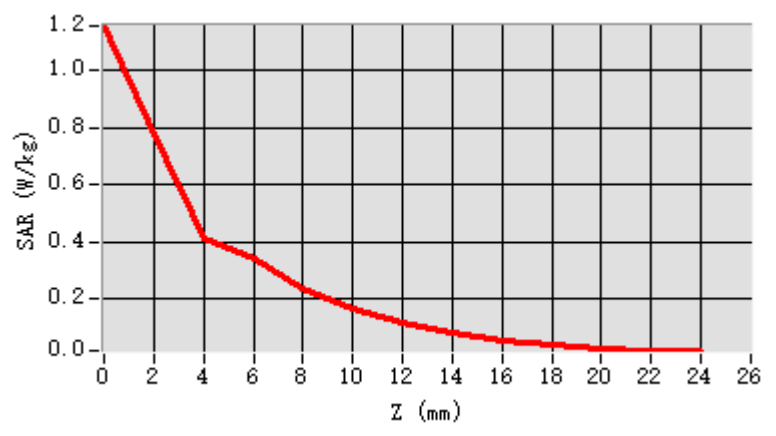
Maximum location: X=-19.00, Y=-48.00 ; SAR Peak: 1.54 W/kg

D. SAR 1g & 10g

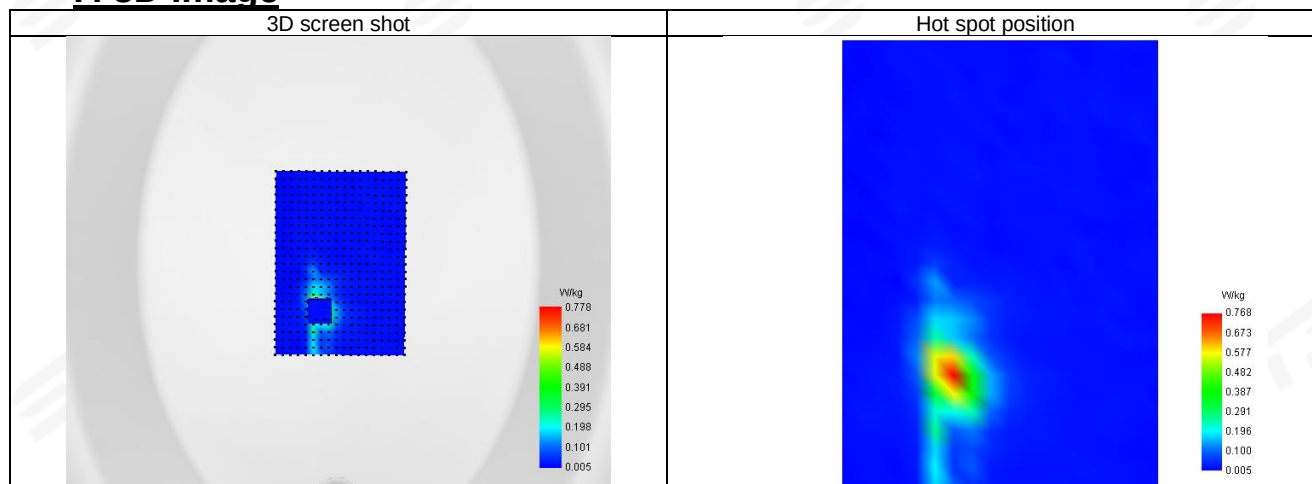
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.516
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	52.692379

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.157	0.778	0.410	0.341	0.236	0.164	0.113	0.079	0.054	0.038	0.026	0.018	0.018



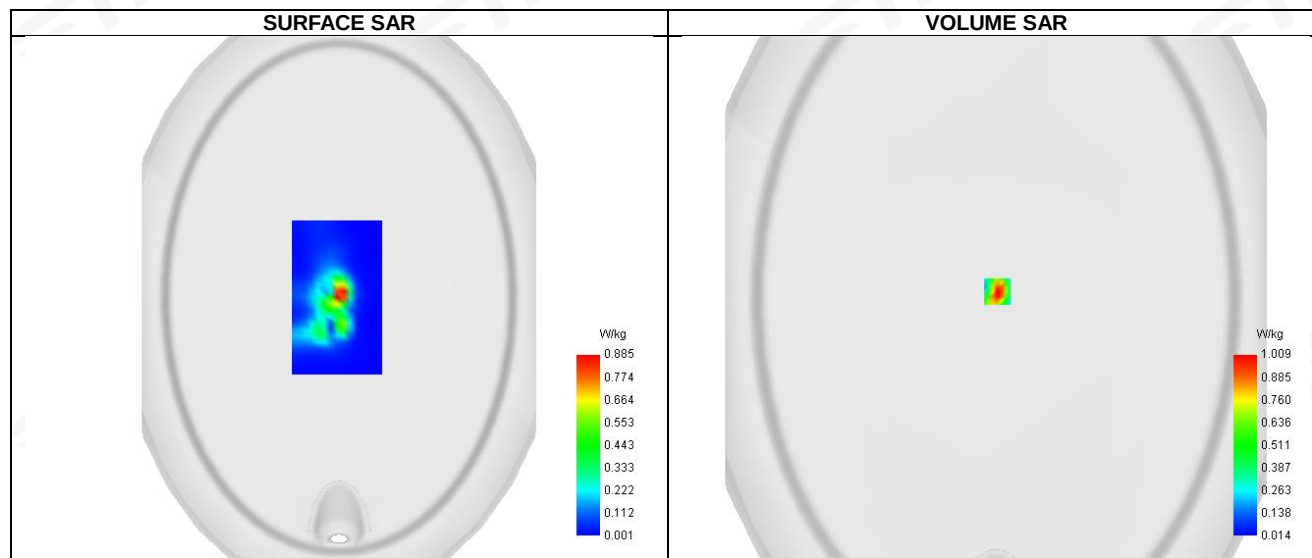
F. 3D Image





Plot8: DUT: Nostro; EUT Model: Nostro

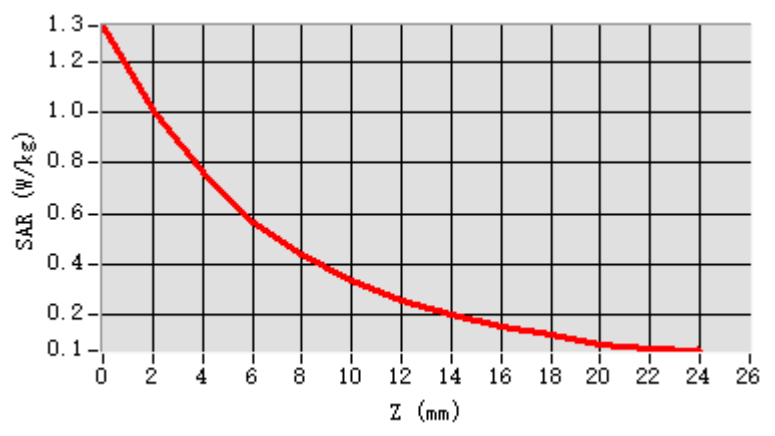
Test Date	2026-05-19
ConvF	1.37
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ax-HE20 MIMO A
Signal	802.11ax-HE20(Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.41
Conductivity (S/m)	4.70

**D. SAR 1g & 10g**

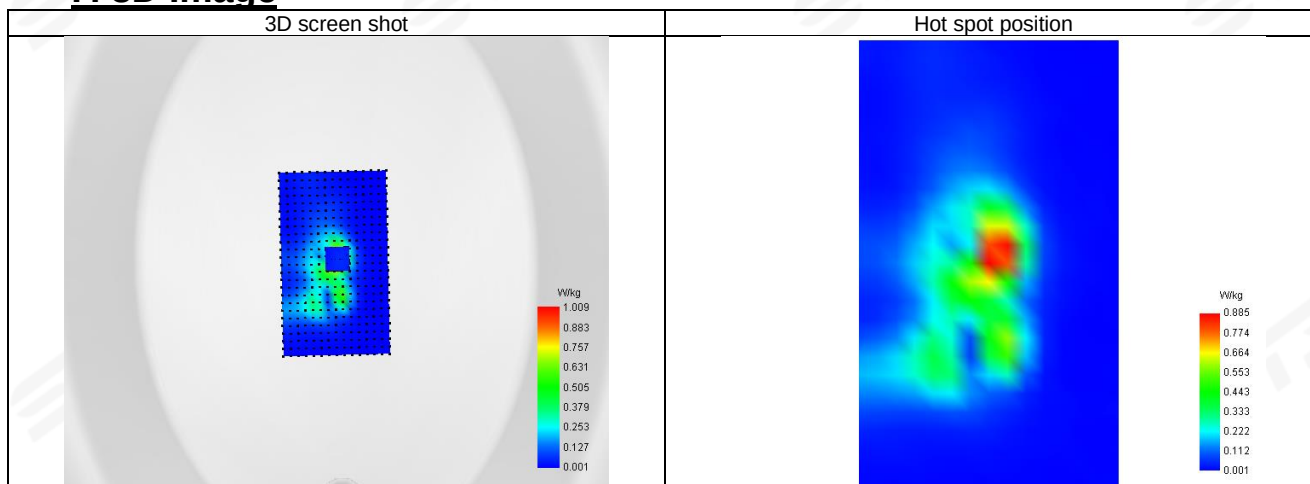
SAR 10g (W/Kg)	0.318
SAR 1g (W/Kg)	0.700
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.473841

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.343	1.009	0.762	0.566	0.441	0.332	0.259	0.198	0.153	0.118	0.084	0.065



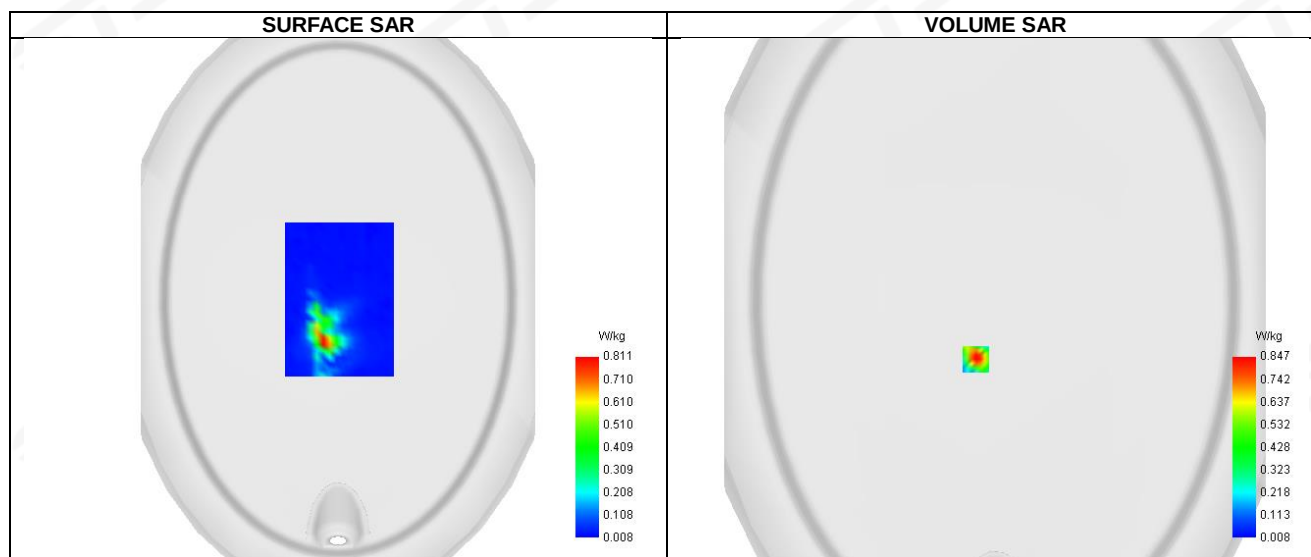
F. 3D Image





Plot9: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-19
ConvF	1.37
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ax-HE20 MIMO B
Signal	802.11ax-HE20(Crest factor: 1.0)
Frequency (MHz)	5240
Relative permittivity (real part)	36.41
Conductivity (S/m)	4.70



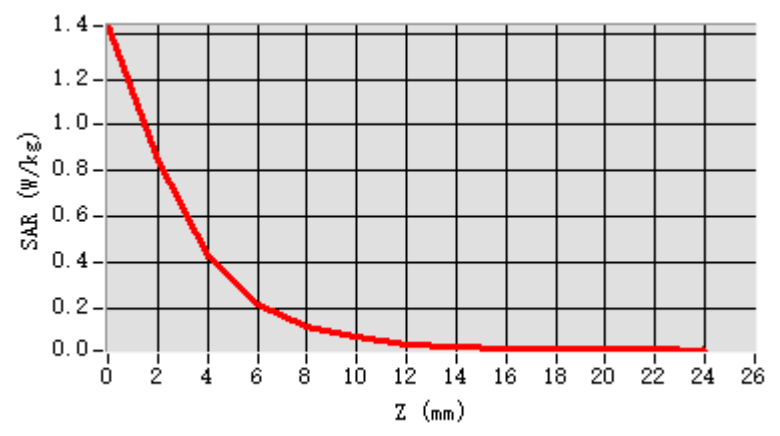
Maximum location: X=-17.00, Y=-54.00 ; SAR Peak: 1.53 W/kg

D. SAR 1g & 10g

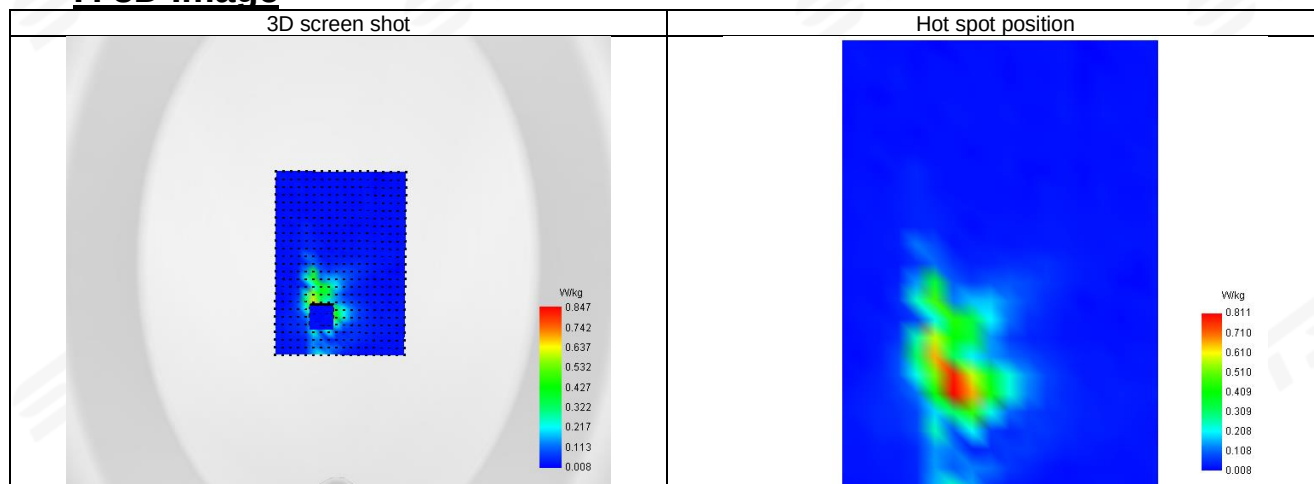
SAR 10g (W/Kg)	0.189
SAR 1g (W/Kg)	0.505
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.669053

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.432	0.847	0.427	0.217	0.115	0.074	0.043	0.026	0.024	0.019	0.023	0.021	0.021



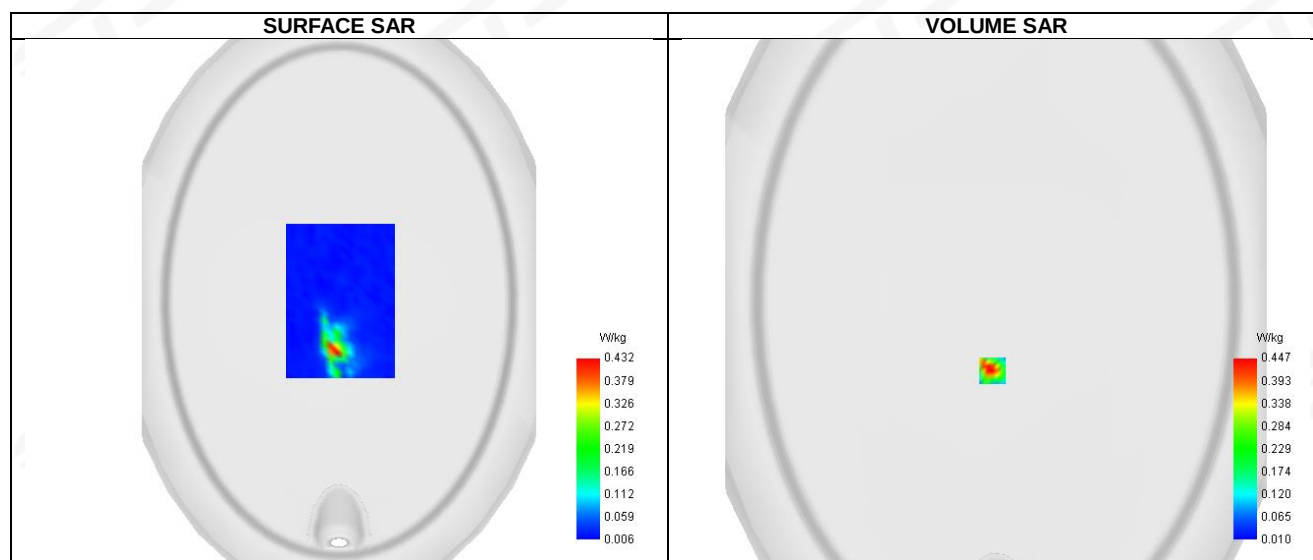
F. 3D Image





Plot 10: DUT: Nostro; EUT Model: Nostro

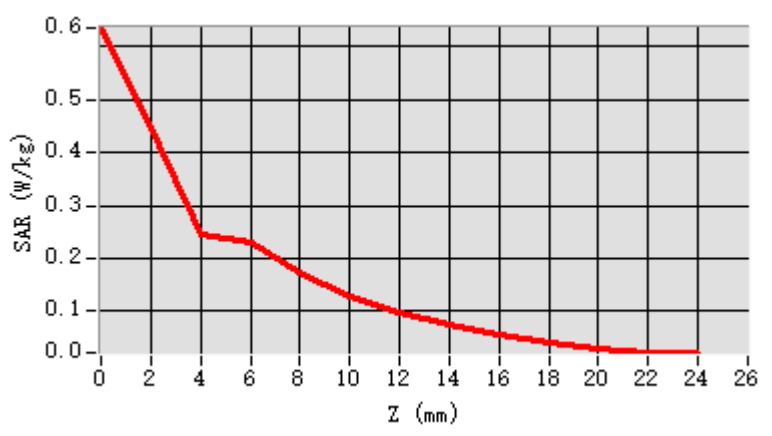
Test Date	2026-05-19
ConvF	1.26
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5260
Relative permittivity (real part)	36.72
Conductivity (S/m)	4.72

**D. SAR 1g & 10g**

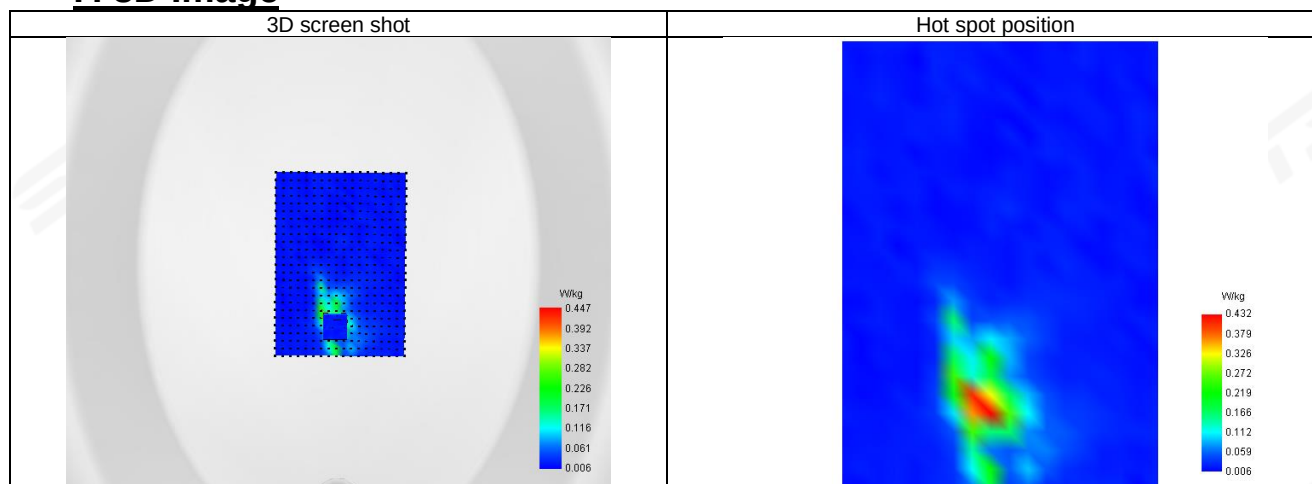
SAR 10g (W/Kg)	0.129
SAR 1g (W/Kg)	0.338
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.068705

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	0.635	0.447	0.246	0.229	0.172	0.130	0.098	0.074	0.055	0.042	0.031	0.024	0.024



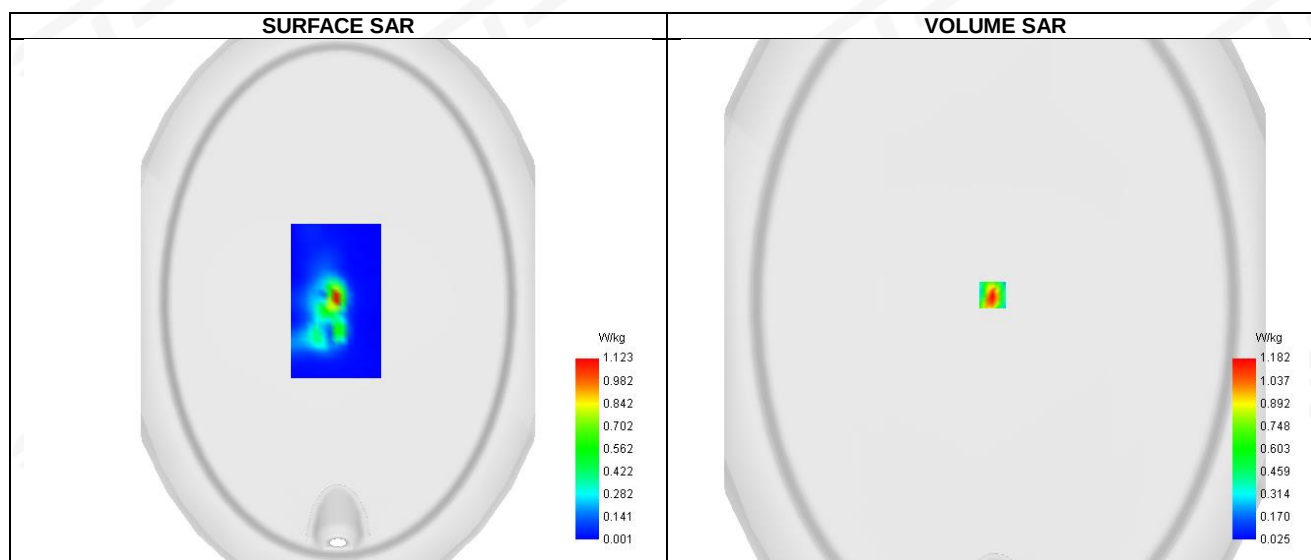
F. 3D Image





Plot 11: DUT: Nostro; EUT Model: Nostro

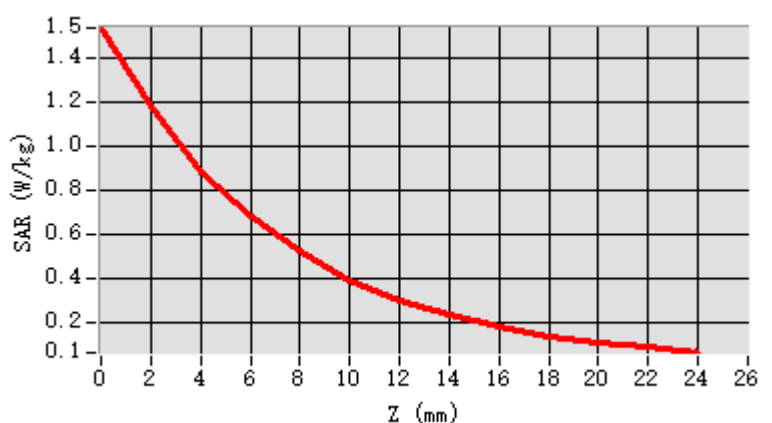
Test Date	2026-05-19
ConvF	1.26
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5320
Relative permittivity (real part)	35.89
Conductivity (S/m)	4.78

**D. SAR 1g & 10g**

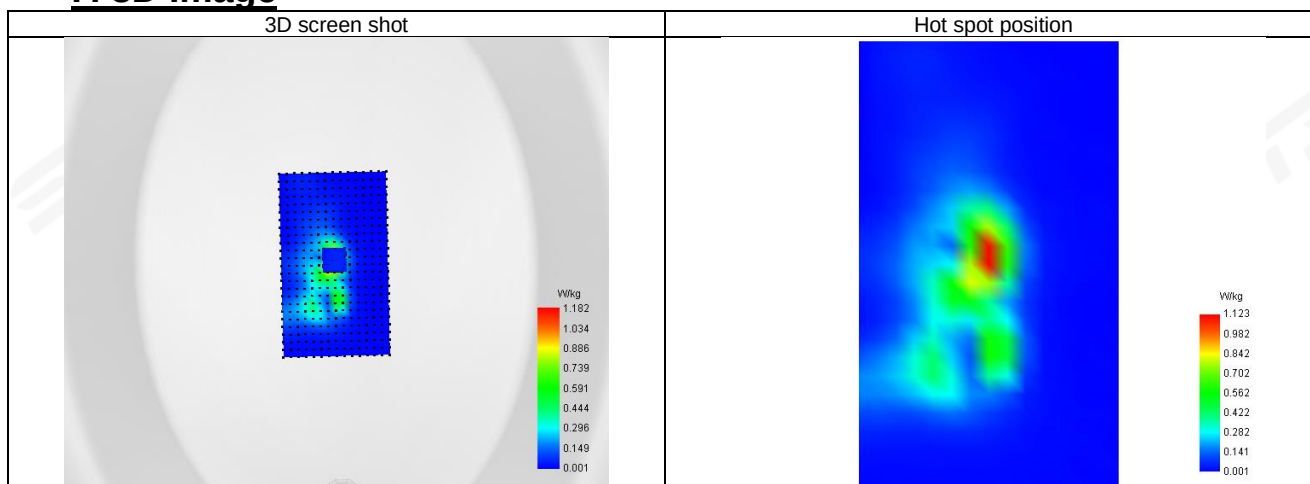
SAR 10g (W/Kg)	0.315
SAR 1g (W/Kg)	0.747
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	76.971763

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.540	1.182	0.886	0.677	0.525	0.387	0.297	0.228	0.177	0.134	0.106	0.081	0.061



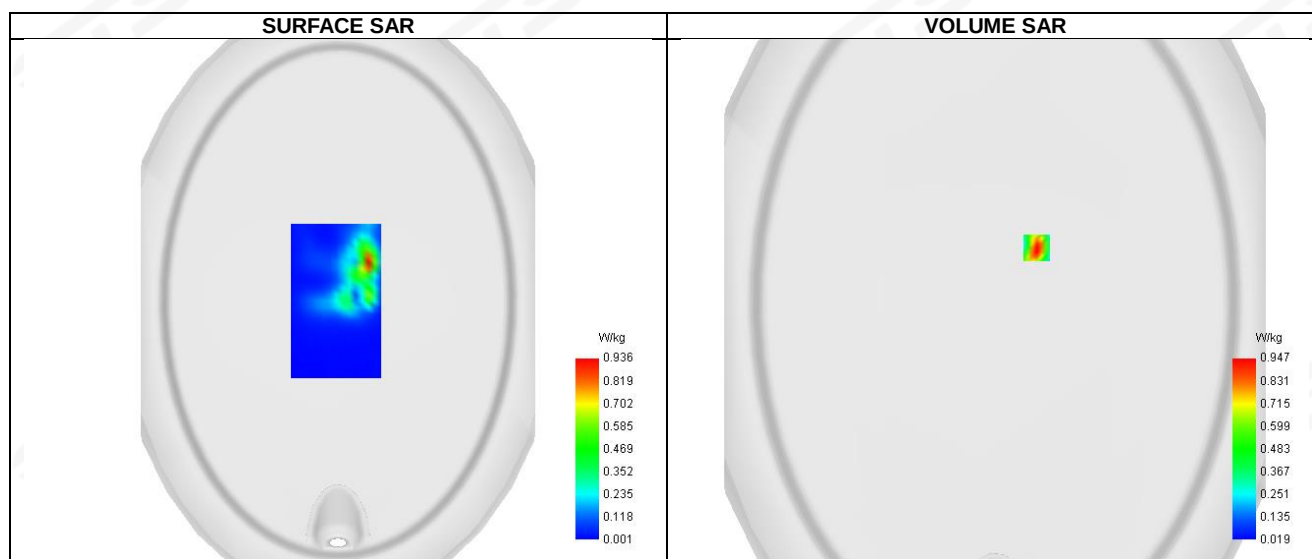
F. 3D Image





Plot 12: DUT: Nostro; EUT Model: Nostro

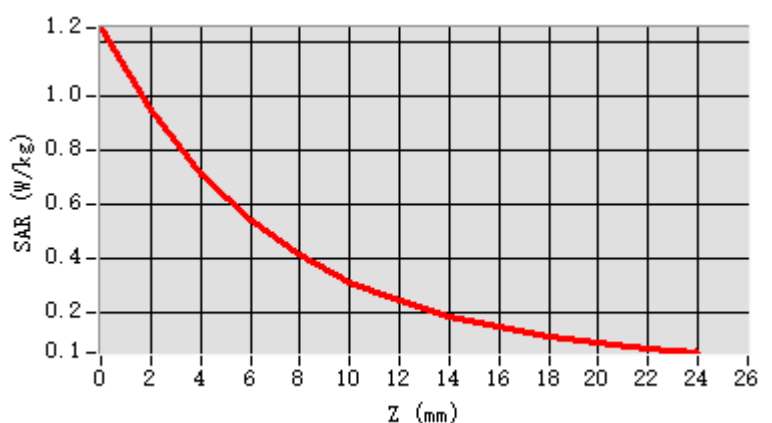
Test Date	2026-05-19
ConvF	1.26
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM MIMO A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5320
Relative permittivity (real part)	35.89
Conductivity (S/m)	4.78

**D. SAR 1g & 10g**

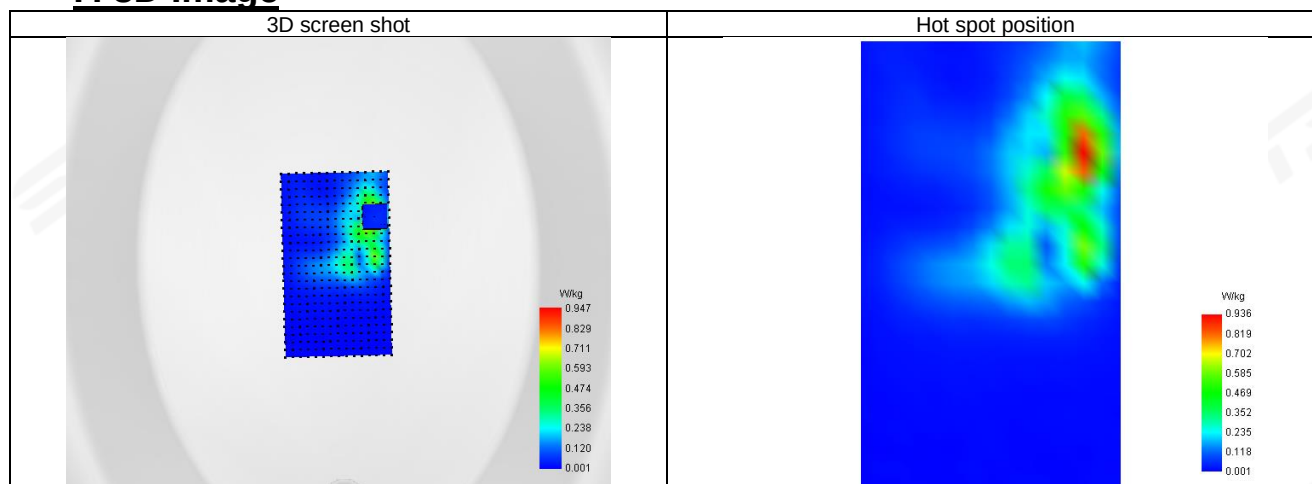
SAR 10g (W/Kg)	0.295
SAR 1g (W/Kg)	0.650
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	75.103184

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.248	0.947	0.711	0.537	0.410	0.312	0.244	0.182	0.145	0.111	0.088	0.070	0.050



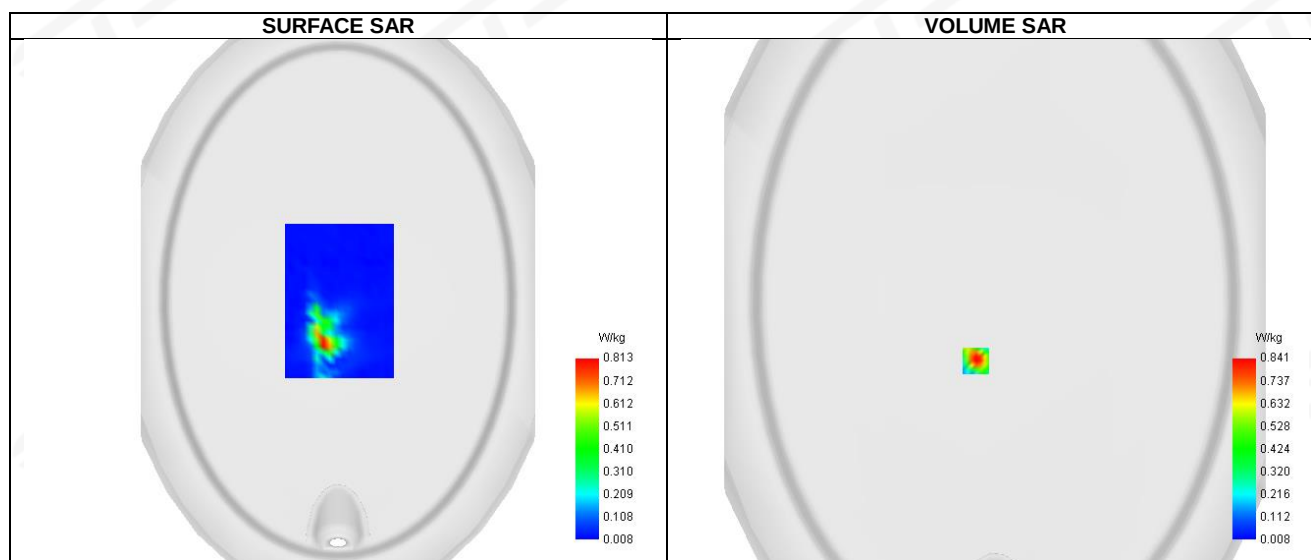
F. 3D Image





Plot 13: DUT: Nostro; EUT Model: Nostro

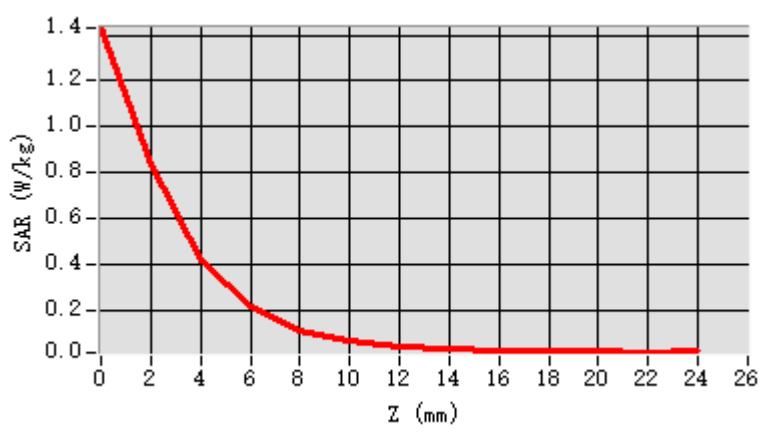
Test Date	2026-05-19
ConvF	1.26
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM MIMO B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5320
Relative permittivity (real part)	35.89
Conductivity (S/m)	4.78

**D. SAR 1g & 10g**

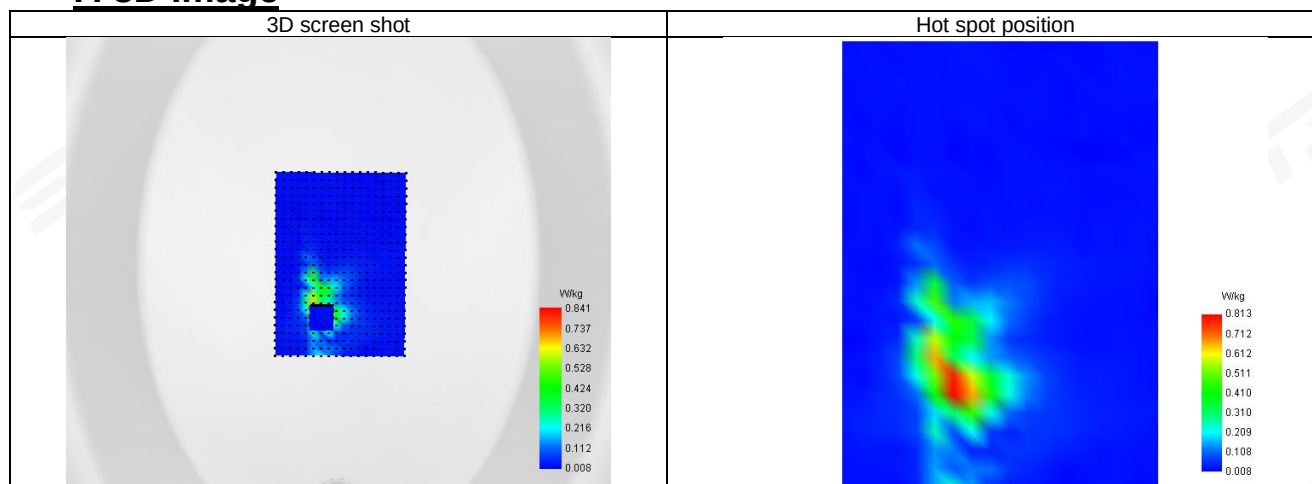
SAR 10g (W/Kg)	0.191
SAR 1g (W/Kg)	0.511
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.425120

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.431	0.841	0.423	0.216	0.117	0.068	0.045	0.036	0.025	0.027	0.024	0.018	0.018

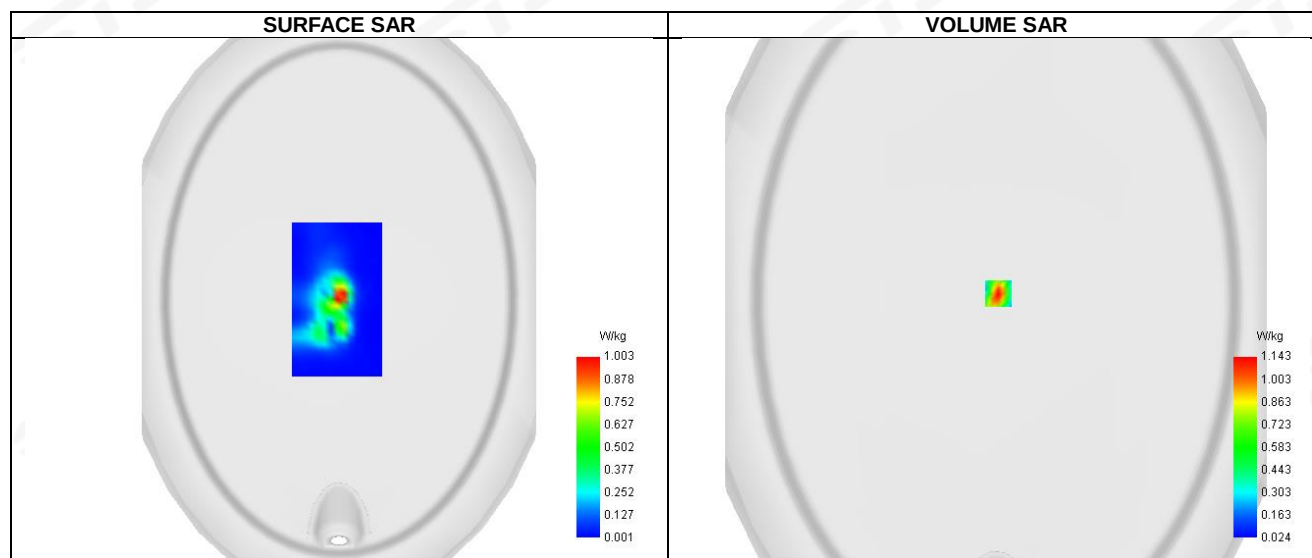


F. 3D Image



**Plot 14: DUT: Nostro; EUT Model: Nostro**

Test Date	2026-05-20
ConvF	1.21
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5700
Relative permittivity (real part)	35.86
Conductivity (S/m)	5.16



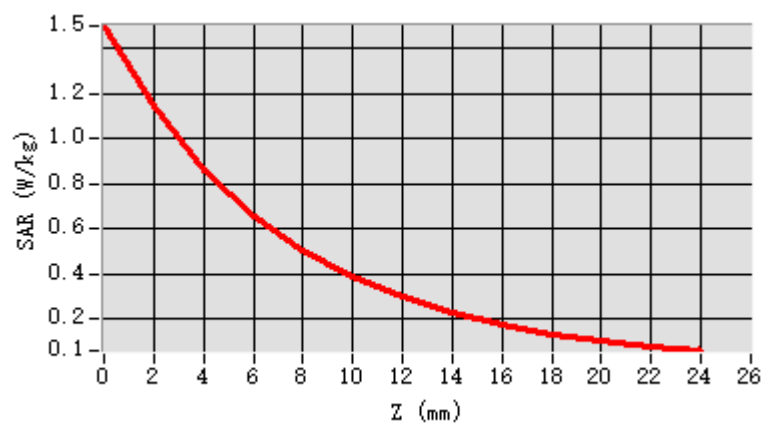
Maximum location: X=2.00, Y=5.00 ; SAR Peak: 1.50 W/kg

D. SAR 1g & 10g

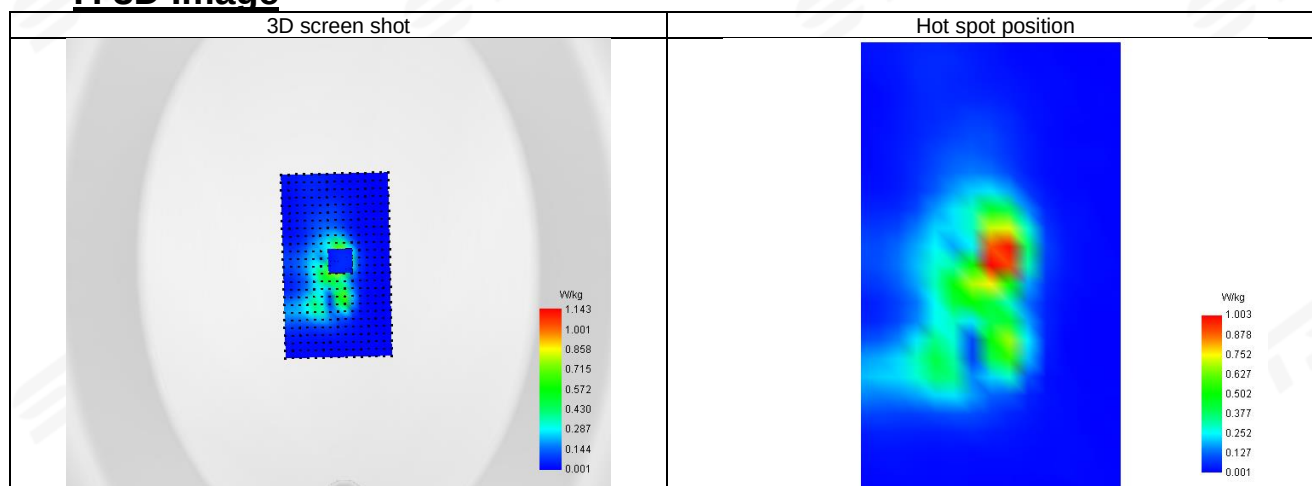
SAR 10g (W/Kg)	0.357
SAR 1g (W/Kg)	0.772
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	75.615718

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.502	1.143	0.864	0.656	0.508	0.385	0.304	0.231	0.179	0.135	0.103	0.081	0.061



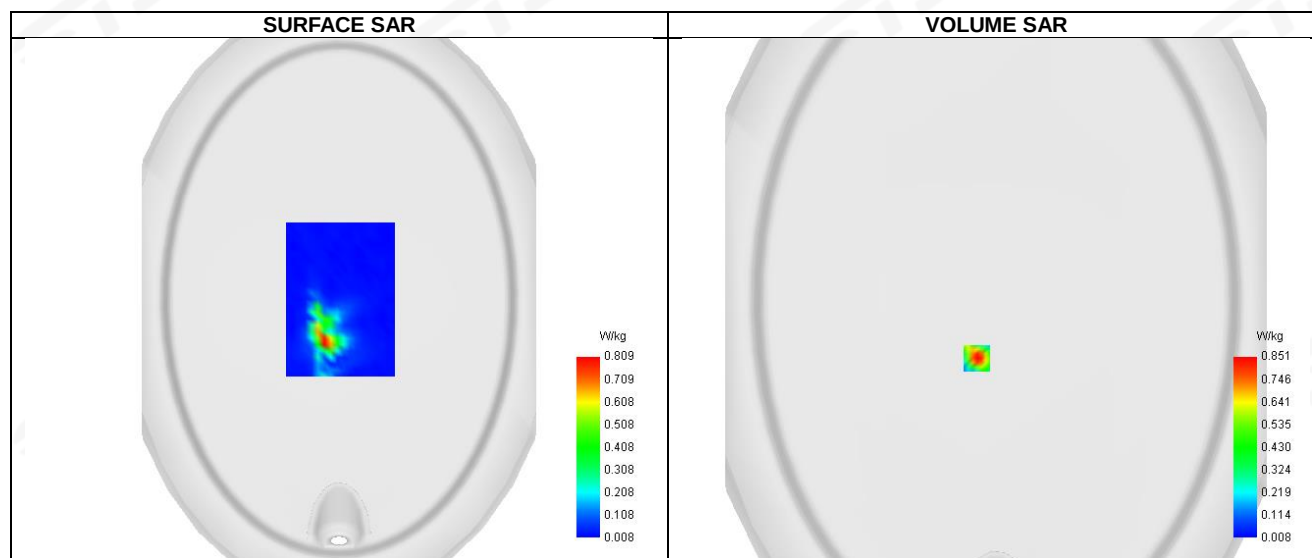
F. 3D Image





Plot 15: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-20
ConvF	1.21
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5580
Relative permittivity (real part)	35.30
Conductivity (S/m)	5.04



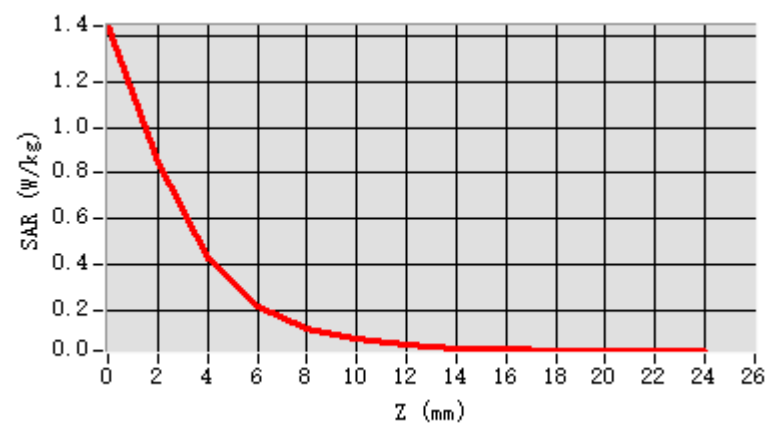
Maximum location: X=-17.00, Y=-53.00 ; SAR Peak: 1.54 W/kg

D. SAR 1g & 10g

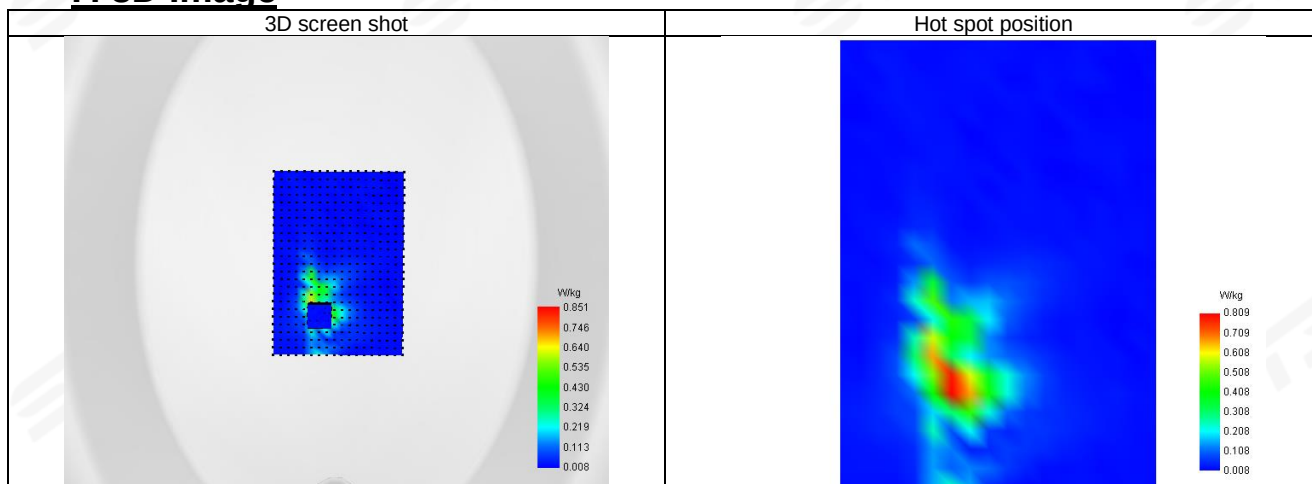
SAR 10g (W/Kg)	0.167
SAR 1g (W/Kg)	0.483
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.626384

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.448	0.851	0.425	0.218	0.115	0.069	0.045	0.030	0.024	0.019	0.022	0.023



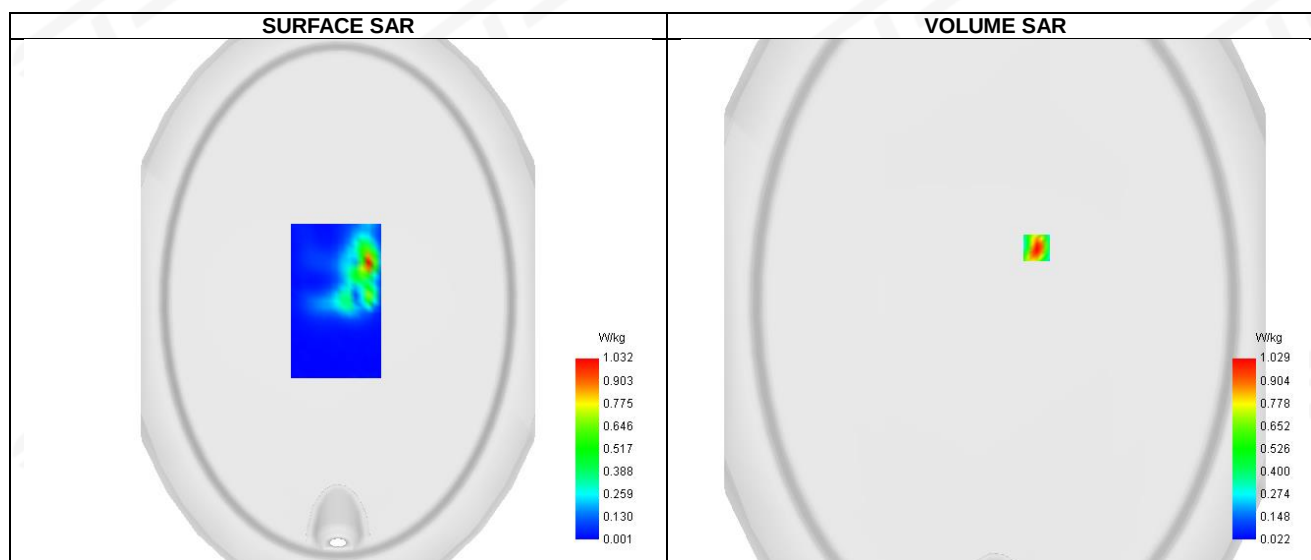
F. 3D Image





Plot 16: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-20
ConvF	1.21
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ac-VHT20MIMO A
Signal	802.11ac-VHT20 (Crest factor: 1.0)
Frequency (MHz)	5700
Relative permittivity (real part)	35.86
Conductivity (S/m)	5.16



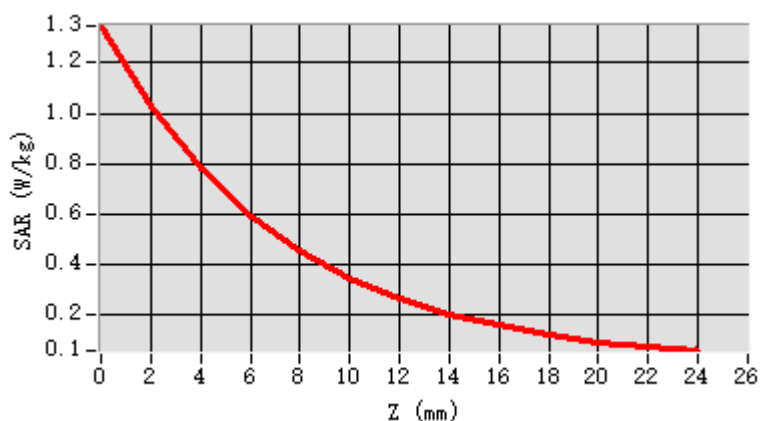
Maximum location: X=38.00, Y=48.00 ; SAR Peak: 1.35 W/kg

D. SAR 1g & 10g

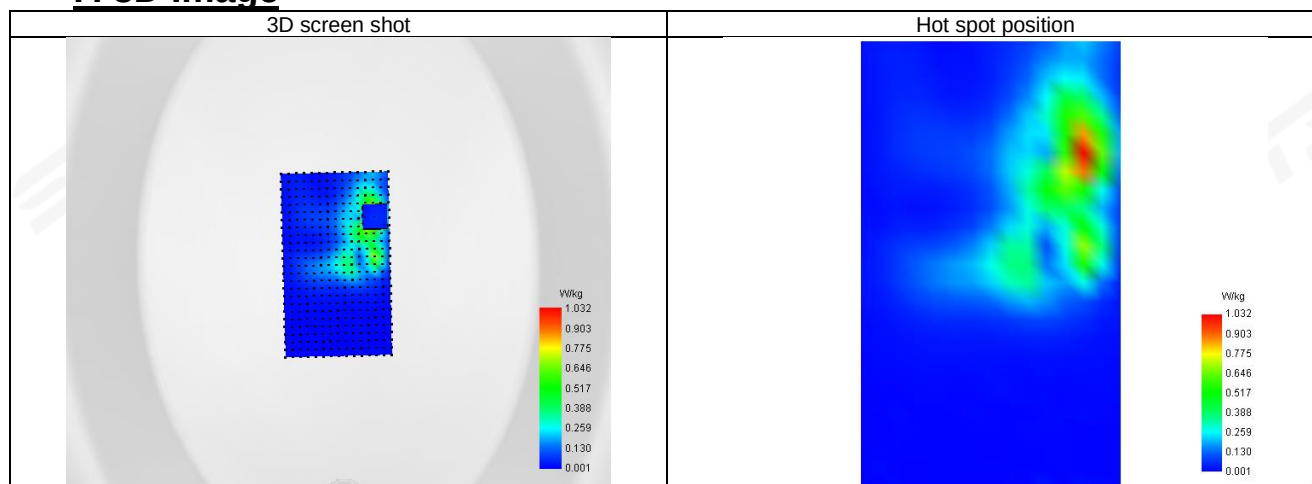
SAR 10g (W/Kg)	0.317
SAR 1g (W/Kg)	0.706
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	75.923655

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.346	1.029	0.782	0.589	0.456	0.344	0.261	0.200	0.158	0.119	0.091	0.073	0.055



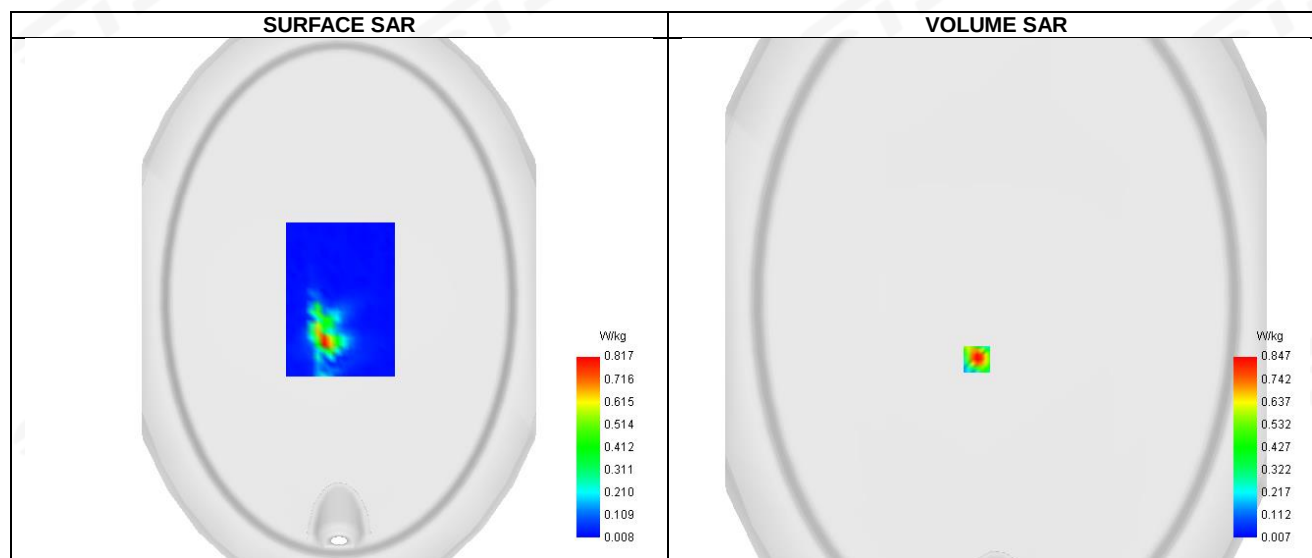
F. 3D Image





Plot 17: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-20
ConvF	1.21
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ac-VHT20MIMO B
Signal	802.11ac-VHT20 (Crest factor: 1.0)
Frequency (MHz)	5700
Relative permittivity (real part)	35.86
Conductivity (S/m)	5.16



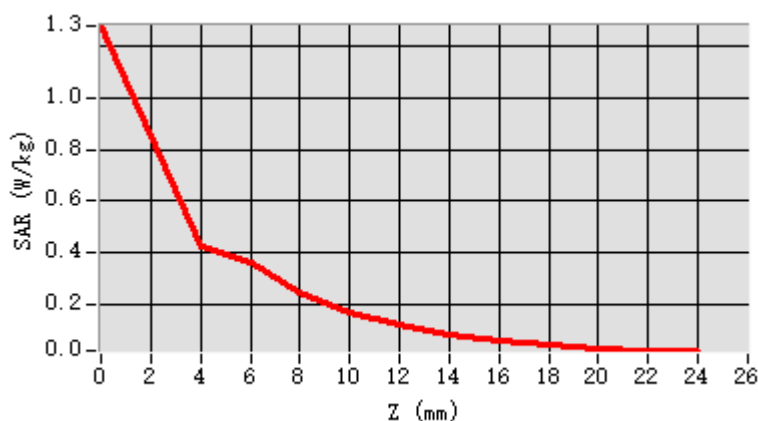
Maximum location: X=-17.00, Y=-54.00 ; SAR Peak: 1.72 W/kg

D. SAR 1g & 10g

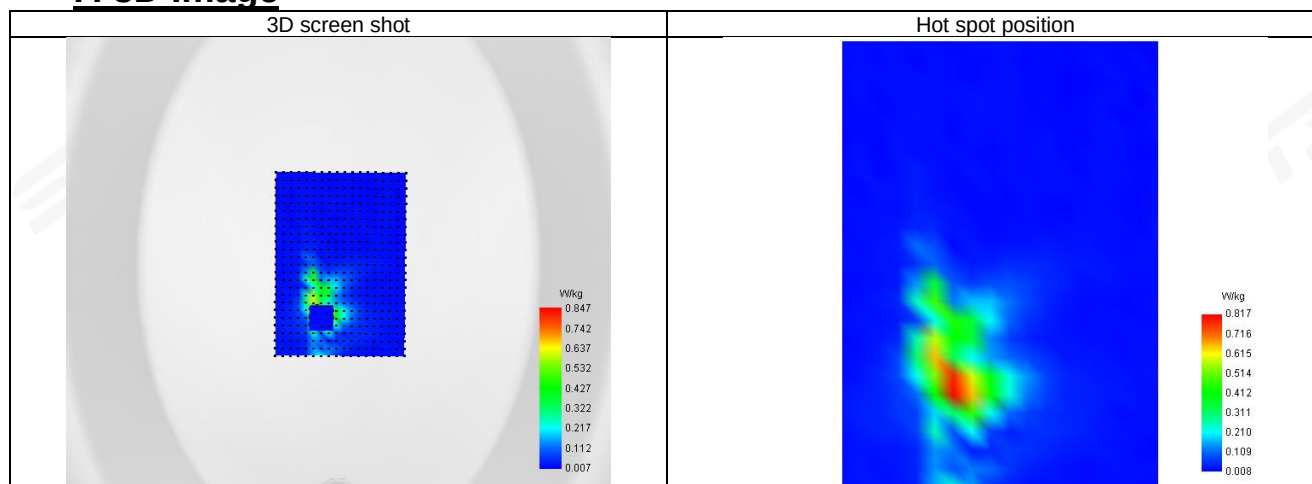
SAR 10g (W/Kg)	0.214
SAR 1g (W/Kg)	0.587
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	49.687679

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00	26.00
SAR (W/Kg)	1.280	0.847	0.421	0.359	0.246	0.168	0.115	0.079	0.054	0.037	0.025	0.017		

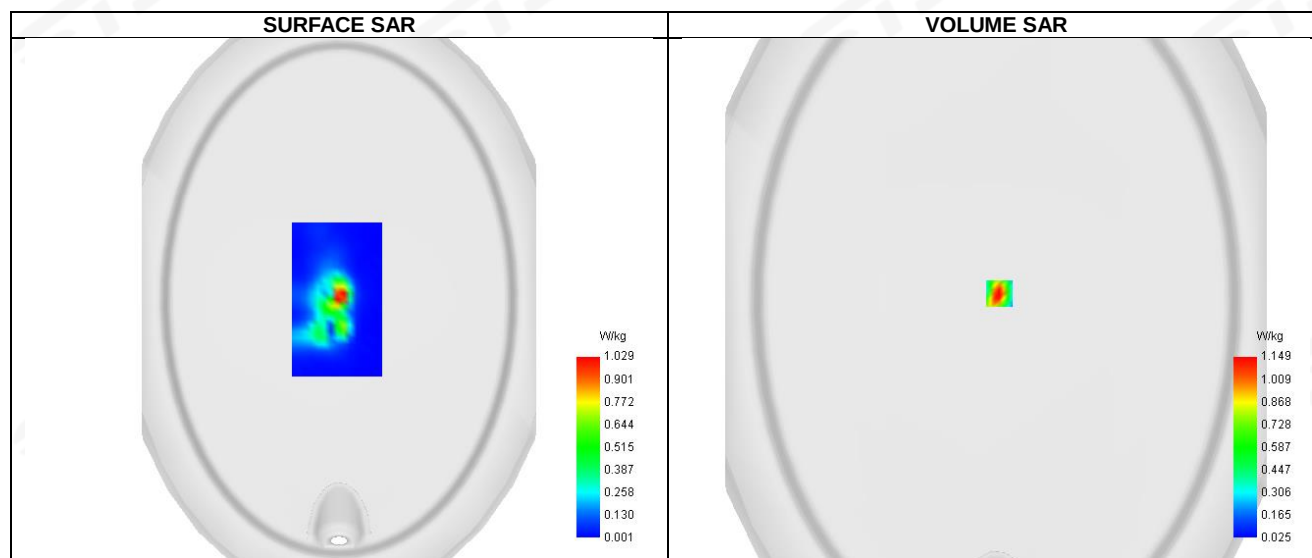


F. 3D Image



**Plot 18: DUT: Nostro; EUT Model: Nostro**

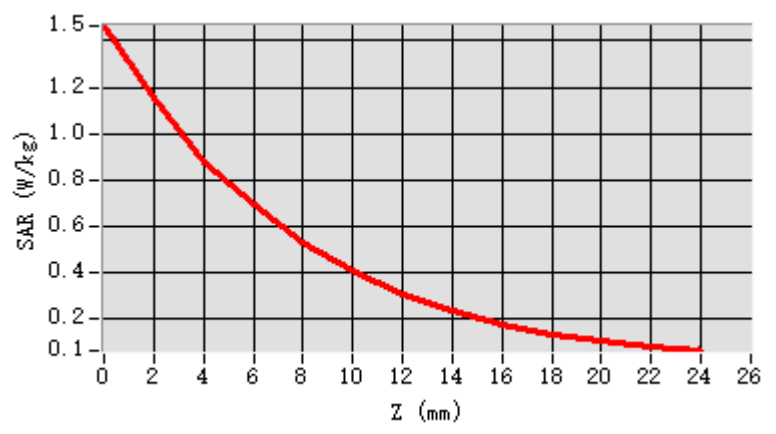
Test Date	2026-05-20
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT A
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5825
Relative permittivity (real part)	35.41
Conductivity (S/m)	5.28

**D. SAR 1g & 10g**

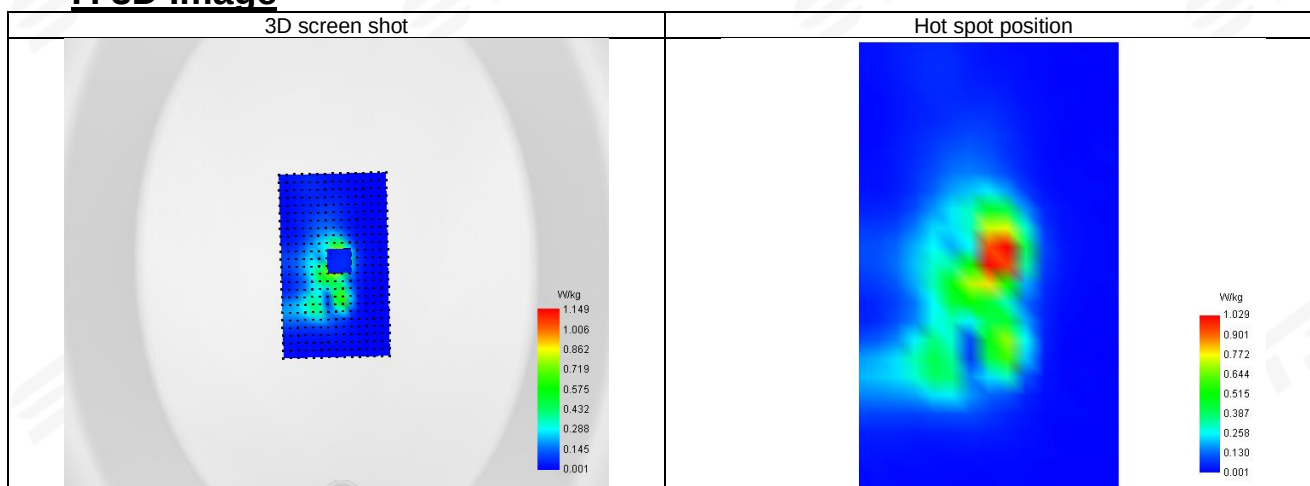
SAR 10g (W/Kg)	0.368
SAR 1g (W/Kg)	0.792
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	76.630752

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.464	1.149	0.881	0.693	0.530	0.407	0.306	0.239	0.180	0.138	0.108	0.085	0.065

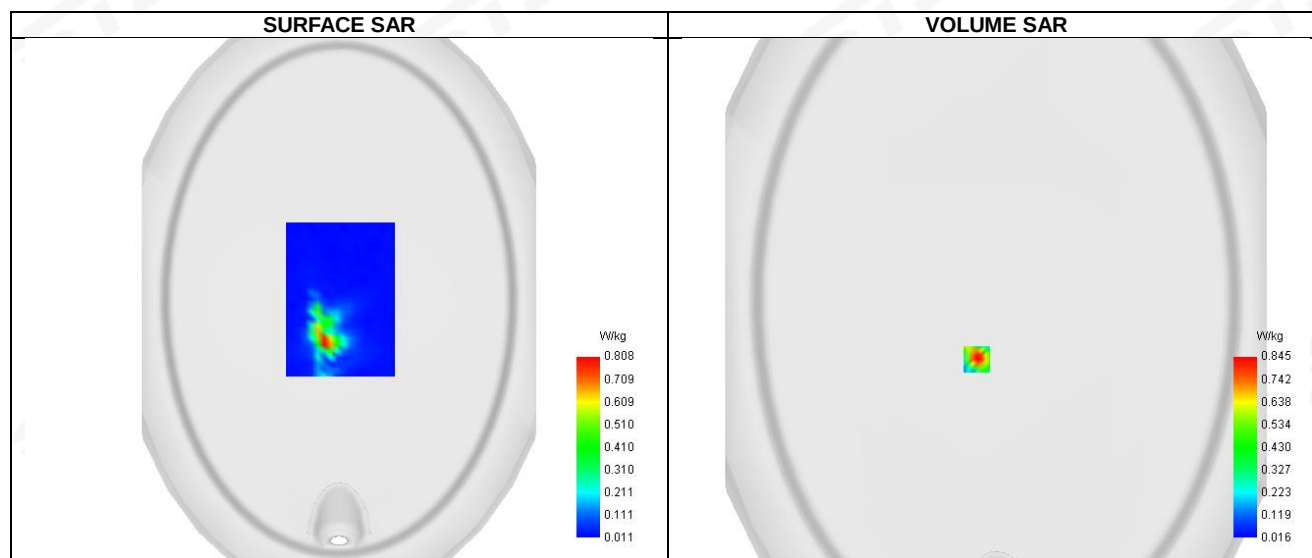


F. 3D Image



**Plot 19: DUT: Nostro; EUT Model: Nostro**

Test Date	2026-05-20
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM ANT B
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.88
Conductivity (S/m)	5.21



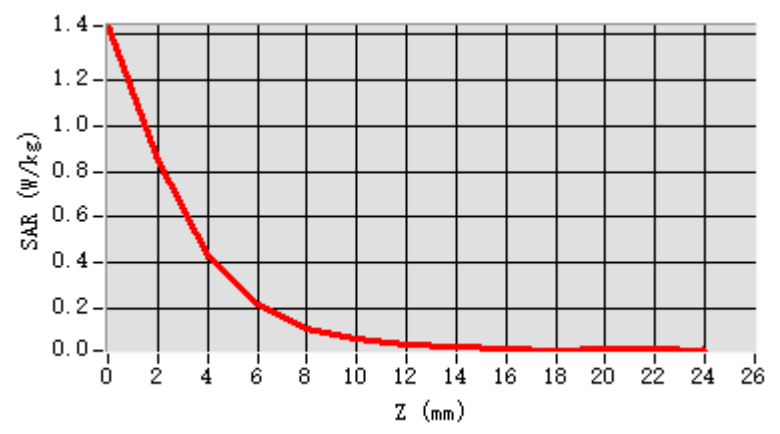
Maximum location: X=-17.00, Y=-54.00 ; SAR Peak: 1.50 W/kg

D. SAR 1g & 10g

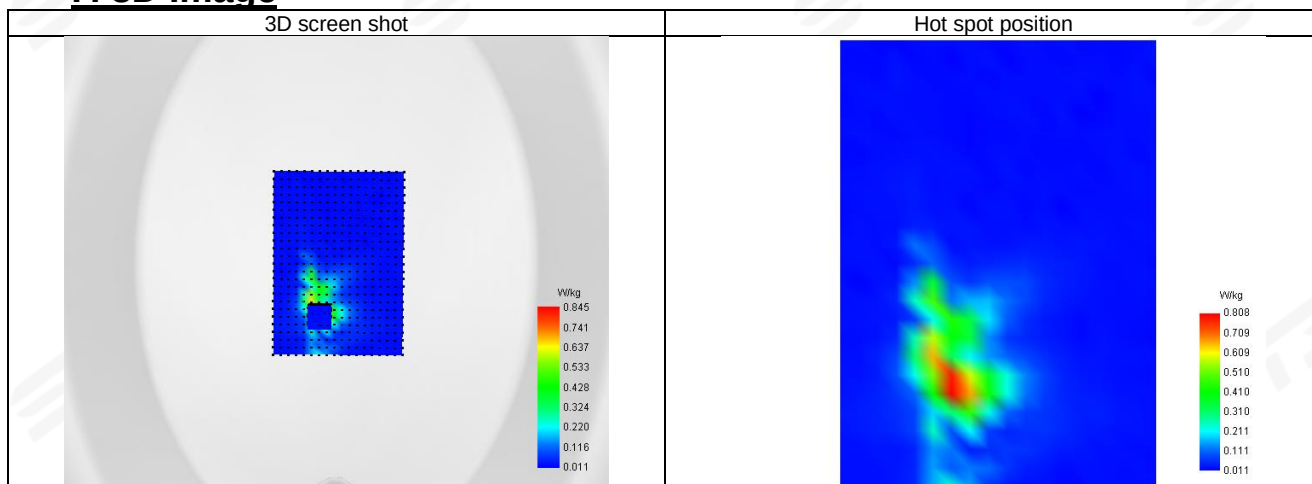
SAR 10g (W/Kg)	0.189
SAR 1g (W/Kg)	0.502
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.756572

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.433	0.845	0.428	0.218	0.115	0.072	0.043	0.036	0.029	0.024	0.025	0.029



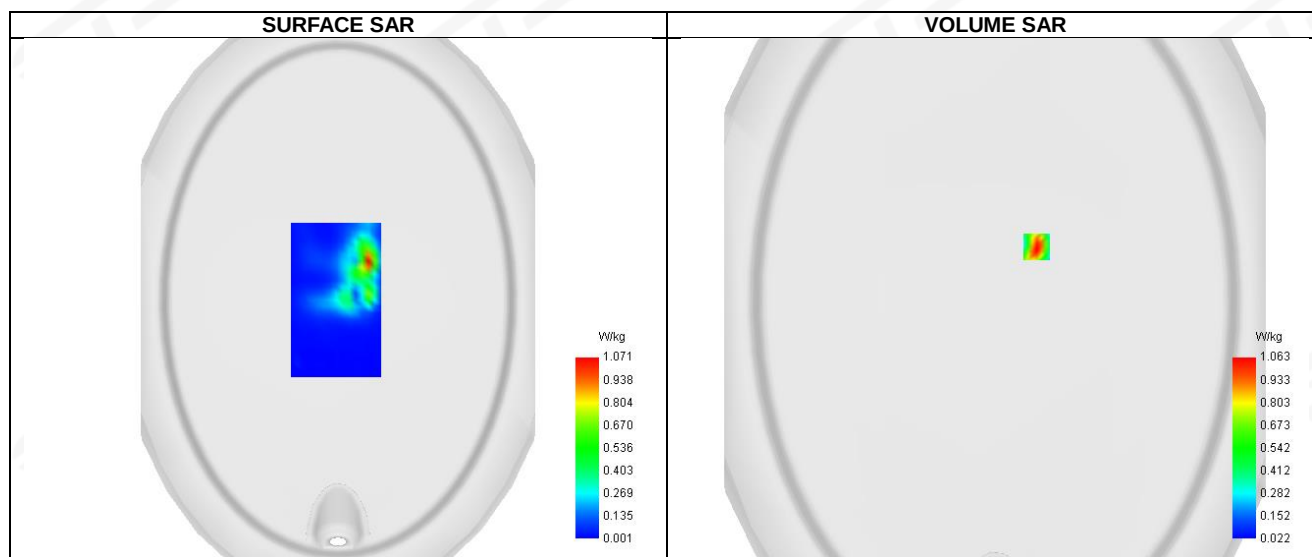
F. 3D Image





Plot 20: DUT: Nostro; EUT Model: Nostro

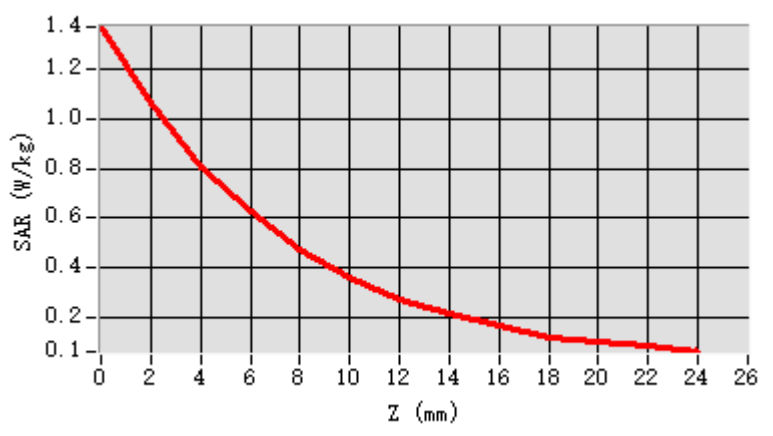
Test Date	2026-05-20
ConvF	1.32
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ac-VHT20 MIMO A
Signal	802.11ac-VHT20 (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.88
Conductivity (S/m)	5.21

**D. SAR 1g & 10g**

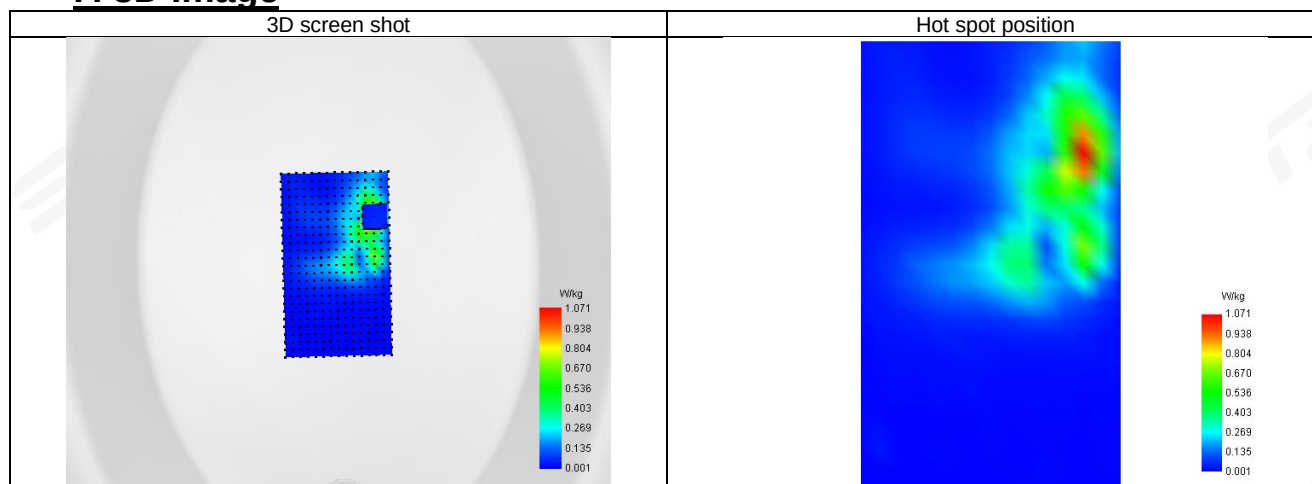
SAR 10g (W/Kg)	0.338
SAR 1g (W/Kg)	0.718
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	75.407266

E. Z Axis Scan

Z (mm)	0.00	2.00	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)	1.373	1.063	0.802	0.627	0.474	0.356	0.272	0.216	0.161	0.119	0.098	0.080	0.070



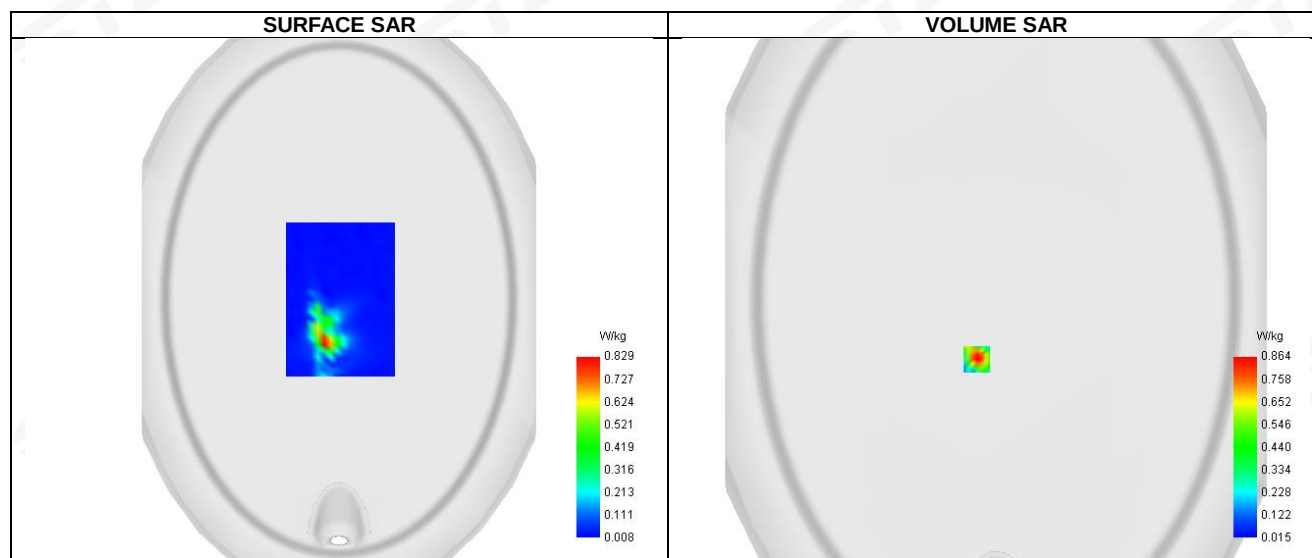
F. 3D Image





Plot 21: DUT: Nostro; EUT Model: Nostro

Test Date	2026-05-20
ConvF	1.32
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	802.11ac-VHT20 MIMO B
Signal	802.11ac-VHT20 (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	35.88
Conductivity (S/m)	5.21



Maximum location: X=-17.00, Y=-54.00 ; SAR Peak: 1.57 W/kg

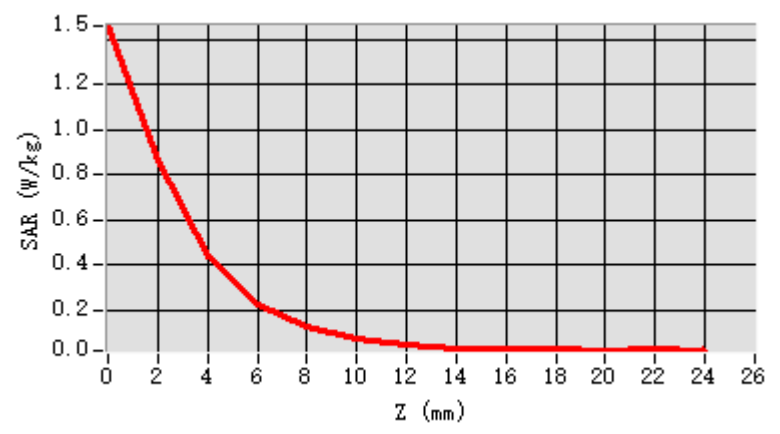
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.191
SAR 1g (W/Kg)	0.493
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	50.128219

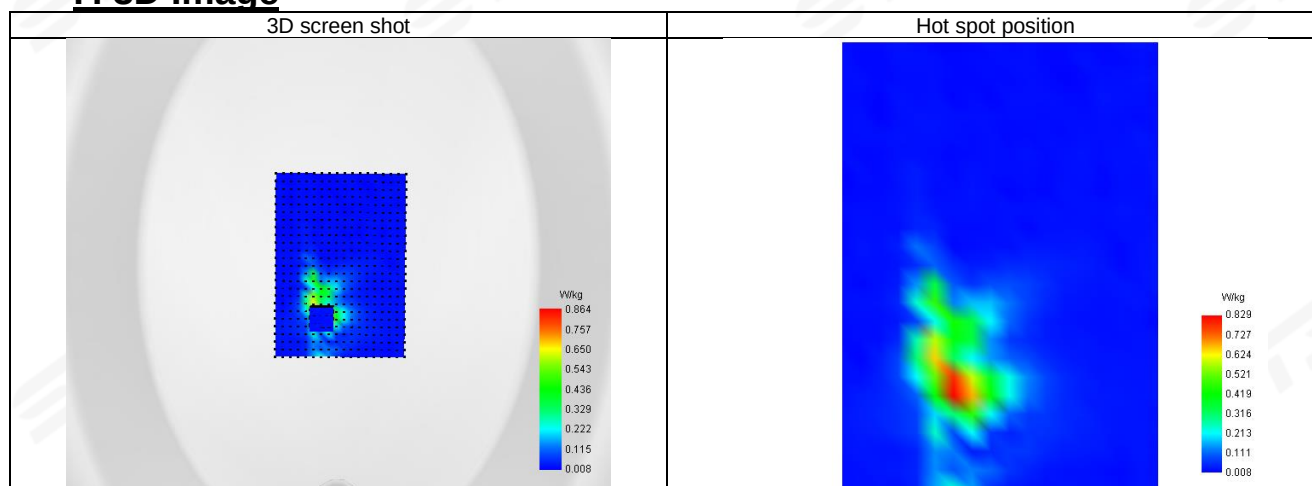


E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	1.459	0.864	0.433	0.224	0.124	0.070	0.047	0.025	0.030	0.026	0.023	0.024



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※