



SAR TEST REPORT

Report No.: STS2512317H01

Issued for

HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED

19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong,
Kowloon, HongKong

Product Name: 4G Smart phone

Brand Name: Blackview

Model Name: WAVE 10

Series Model(s): N/A

Test Standards: EN 50360: 2017+A1:2023
EN 50566: 2017+A1:2023
EN IEC/IEEE 62209-1528:2021
EN 50663: 2017; EN 62479: 2010

Head: 0.838 W/kg

Max. SAR (10g)

Body/Limbs: 1.152 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 : HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED
Address : 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, HongKong
Manufacturer's Name : HONG KONG LELEGAO TECHNOLOGY CO.,LIMITED
Address : 19H Maxgrand Plaza, No.3 Tai Yau Street, San Po Kong, Kowloon, HongKong

Product Description

Product Name : 4G Smart phone
Brand Name : Blackview
Model Name : WAVE 10
Series Model(s) : N/A
Test Standards : EN 50360: 2017+A1:2023; EN 50566: 2017+A1:2023
EN IEC/IEEE 62209-1528:2021
EN 50663: 2017; EN 62479: 2010

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.

Date of Test

Date (s) of performance of tests : 10 Dec. 2025 ~ 20 Dec. 2025
Date of Issue : 30 Dec. 2025
Test Result : **Pass**

Testing Engineer :

(Xin.Liu)

Technical Manager :

(Shifan. Long)

Authorized Signatory :

(Bovey Yang)





Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	7
1.3 Test Factory	7
2. Test Standards and Limits	8
3. SAR Measurement System	9
3.1 Definition of Specific Absorption Rate (SAR)	9
3.2 SAR System	9
4. Tissue Simulating Liquids	12
4.1 Simulating Liquids Parameter Check	12
5. SAR System Validation	14
5.1 Validation System	14
5.2 Validation Result	15
6. SAR Evaluation Procedures	16
7. EUT Test Position	17
7.1 Cheek Position	17
7.2 Tilt Position	18
7.3 Body-worn Position Conditions	18
8. Measurement Uncertainty	19
9. Conducted Power Measurement	20
9.1 Tune up power	29
10. Test Photos and Results	31
10.1 EUT Photos	31
10.2 Setup Photos	34
11. SAR Result Summary	40
11.1 Head SAR	40
11.2 Body and Limbs SAR	42
12. Equipment List	47
Appendix A. System Validation Plots	48
Appendix B. SAR Test Plots	64
Appendix C. Probe Calibration and Dipole Calibration Report	112



Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 Dec. 2025	STS2512317H01	ALL	Initial Issue



1. General Information

1.1 EUT Description

Product Name	4G Smart phone		
Brand Name	Blackview		
Model Name	WAVE 10		
Series Model	N/A		
Model Difference	N/A		
Hardware Version	N/A		
Software Version	N/A		
Frequency Range	GSM 900: 880.2 MHz to 914.8 MHz GSM1800: 1710.2 MHz to 1784.8 MHz WCDMA Band I: 1922.4 MHz to 1977.6 MHz WCDMA Band VIII: 882.4 MHz to 912.6 MHz LTE Band 1: 1920 MHz to 1980 MHz LTE Band 3: 1710 MHz to 1785 MHz LTE Band 7: 2500MHz to 2570 MHz LTE Band 8: 880 MHz to 915 MHz LTE Band 20: 832MHz to 862 MHz WLAN802.11b/g/n20: 2412 to 2472MHz WLAN 802.11n40: 2422 to 2462MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 to 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 to 5850 MHz Bluetooth: 2402 MHz to 2480 MHz GPS: 1575.42MHz GALILEO: 1575.42 MHz GLONASS: 1602 MHz BeiDou: 1561.098MHz FM: 87.5 MHz to 108 MHz		
Max. Reported SAR(10g): (Limit: 2.0 W/Kg)	Mode	Maximum Reported SAR(W/kg)	
		Head	Body/Limbs
	GSM900	0.390	0.469
	GSM1800	0.537	0.613
	WCDMA Band I	0.589	0.735
	WCDMA Band VIII	0.186	0.775
	LTE band 1	0.507	0.663
	LTE band 3	0.524	0.763
	LTE band 7	0.472	0.869
	LTE band 8	0.094	0.113
	LTE band 20	0.355	0.112
	2.4GHz WLAN	0.112	0.224
	5.2GHz WLAN	0.219	0.211
	5.8GHz WLAN	0.249	0.283
Maximum Simultaneous SAR(W/kg)		0.838	1.152
Limit		2.0 W/Kg	



Battery	Model: FHPV466495PNJ Rated Voltage: 3.85 V	
SIM Card	SIM 1 and SIM 2 is a chipset unit and tested as single chipset , SIM 1 is used to tested	
Modulation Mode	GSM	GMSK for GSM/GPRS; GMSK and 8PSK for EDGE
	WCDMA	QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	LTE	QPSK/16QAM
	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/n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM
	Bluetooth	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
	BLE	GFSK
	GPS	BPSK
	GALILEO	CBOC
	GLONASS	FDMA
	BeiDou	QPSK
	FM	FM
Power control level	GSM900: 5, DCS1800: 0	
Power class	GSM900: 4, GSM1800: 1, WCDMA: Class 3	
Antenna Specification:	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna GPS/GALILEO/GLONASS/BeiDou: PIFA Antenna FM: Earphone Antenna	
Operating Mode:	Maximum continuous output	



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

Company Name:	Shenzhen STS Test Services Co. Ltd.
Address:	101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	EN 50360: 2017+A1:2023	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
2	EN 50566: 2017+A1:2023	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
3	EN IEC/IEEE 62209-1528: 2021	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
4	EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz to 300GHz)
5	EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the restrictions related to human exposure to electromagnetic fields(10 MHz to 300 GHz)

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
-------------------	---------------------	---------------------------------------

0.4	8.0	20.0
-----	-----	------

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
-------------------	---------------------	---------------------------------------

0.08	2.0	4.0
------	-----	-----

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 10 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 2.0 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

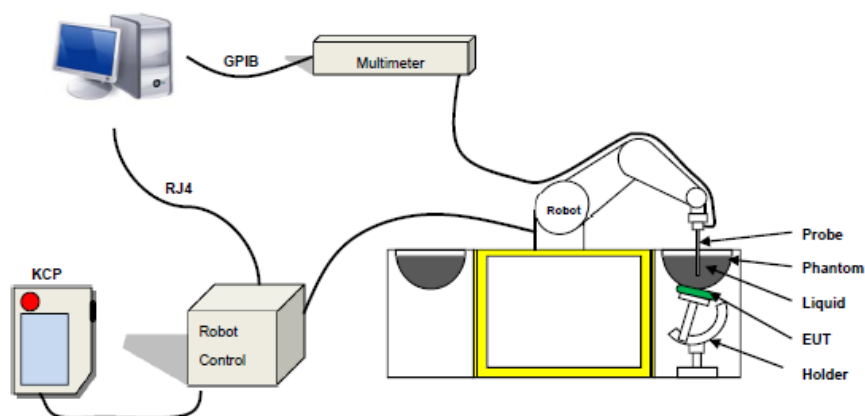
$$SAR = \frac{\sigma E^2}{\rho}$$

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 AR 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 EPGO352 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: $\pm 0.91\%$ ($\pm 0.04\text{dB}$)
- Axial Isotropy: $< 0.10\text{ dB}$
- Spherical Isotropy: $< 0.10\text{ dB}$
- 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.

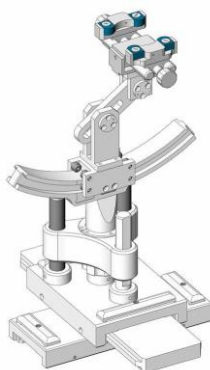


SN 32/14 SAM115



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 10 g averaging, the maximum weighting coefficient for SAR is 0,5.

EN 62209 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the EN 62209 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



Page 13 of 112
LIQUID MEASUREMENT RESULTS

Report No.: STS2512317H01

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-12-10	21.4	57	835	21.1	Permittivity	41.50	41.82	0.77	±5
					Conductivity	0.90	0.89	-1.11	±5
2025-12-10	21.4	57	847	21.1	Permittivity	41.50	41.86	0.87	±5
					Conductivity	0.91	0.89	-2.51	±5
2025-12-10	21.4	57	880.2	21.1	Permittivity	41.50	42.12	1.49	±5
					Conductivity	0.95	0.98	3.41	±5
2025-12-10	21.4	57	885	21.1	Permittivity	41.50	41.17	-0.80	±5
					Conductivity	0.95	0.96	0.65	±5
2025-12-10	21.4	57	897.4	21.1	Permittivity	41.50	41.10	-0.96	±5
					Conductivity	0.97	0.96	-0.74	±5
2025-12-10	21.4	57	900	21.1	Permittivity	41.50	41.83	0.80	±5
					Conductivity	0.97	0.99	2.06	±5
2025-12-10	21.4	57	912.6	21.1	Permittivity	41.50	42.13	1.52	±5
					Conductivity	0.98	1.01	2.69	±5
2025-12-13	22.3	57	1710.2	22.0	Permittivity	40.13	40.88	1.87	±5
					Conductivity	1.35	1.35	0.10	±5
2025-12-13	22.3	57	1747.5	22.0	Permittivity	40.08	40.39	0.79	±5
					Conductivity	1.37	1.37	0.00	±5
2025-12-13	22.3	57	1784.8	22.0	Permittivity	40.02	40.69	1.67	±5
					Conductivity	1.39	1.39	-0.09	±5
2025-12-13	22.3	57	1800	22.0	Permittivity	40.00	40.48	1.20	±5
					Conductivity	1.40	1.38	-1.43	±5
2025-12-13	22.3	57	1900	22.0	Permittivity	40.00	40.86	2.15	±5
					Conductivity	1.40	1.42	1.43	±5
2025-12-13	22.3	57	1922.4	22.0	Permittivity	40.00	39.59	-1.02	±5
					Conductivity	1.40	1.39	-0.71	±5
2025-12-13	22.3	57	1950	22.0	Permittivity	40.00	39.95	-0.12	±5
					Conductivity	1.40	1.41	0.71	±5
2025-12-13	22.3	57	1977.6	22.0	Permittivity	40.00	40.21	0.53	±5
					Conductivity	1.40	1.39	-0.71	±5
2025-12-17	21.9	59	2450	21.5	Permittivity	39.20	39.55	0.89	±5
					Conductivity	1.80	1.80	0.00	±5
2025-12-17	21.9	59	2472	21.5	Permittivity	39.16	39.55	0.99	±5
					Conductivity	1.82	1.81	-0.53	±5
2025-12-17	21.9	59	2510	21.5	Permittivity	39.12	39.82	1.79	±5
					Conductivity	1.86	1.87	0.32	±5
2025-12-17	21.9	59	2535	21.5	Permittivity	39.09	38.97	-0.30	±5
					Conductivity	1.89	1.89	-0.04	±5
2025-12-17	21.9	59	2560	21.5	Permittivity	39.05	39.06	0.02	±5
					Conductivity	1.92	1.93	0.66	±5
2025-12-17	21.9	59	2600	21.5	Permittivity	39.00	39.05	0.13	±5
					Conductivity	1.96	1.96	0.00	±5
2025-12-20	22.6	53	5200	22.3	Permittivity	36.00	35.90	-0.28	±5
					Conductivity	4.66	4.67	0.21	±5
2025-12-20	22.6	53	5240	22.3	Permittivity	35.96	36.07	0.31	±5
					Conductivity	4.70	4.70	-0.04	±5
2025-12-20	22.6	53	5800	22.3	Permittivity	35.30	35.04	-0.74	±5
					Conductivity	5.27	5.27	0.00	±5

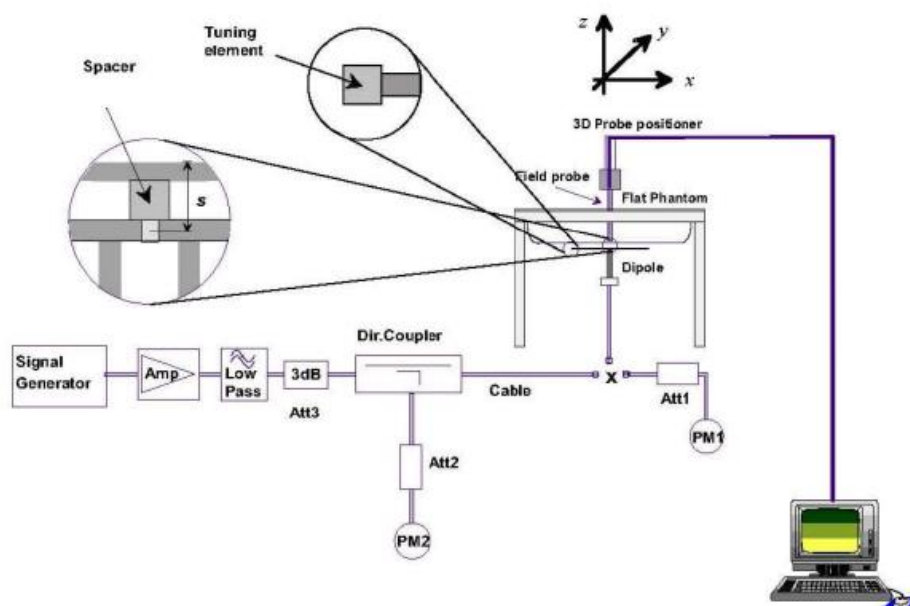
2025-12-20	22.6	53	5825	22.3	Permittivity	35.28	35.07	-0.58	±5
					Conductivity	5.30	5.30	0.07	±5

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 $\pm 10\%$.

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	
2025-12-10	835	100 mW	0.953	0.657	0.72	9.63	6.15	-1.04%	6.83%	10
		Normalize to 1 Watt	9.53	6.57						
2025-12-10	900	100 mW	1.147	0.677	-2.36	10.90	6.99	5.23%	-3.15%	10
		Normalize to 1 Watt	11.47	6.77						
2025-12-13	1800	100 mW	3.815	1.975	-1.86	38.40	20.10	-0.65%	-1.74%	10
		Normalize to 1 Watt	38.15	19.75						
2025-12-13	1900	100 mW	4.040	2.061	3.20	39.84	20.20	1.41%	2.03%	10
		Normalize to 1 Watt	40.40	20.61						
2025-12-17	2450	100 mW	5.475	2.426	2.87	54.70	24.11	0.09%	0.62%	10
		Normalize to 1 Watt	54.75	24.26						
2025-12-17	2600	100 mW	5.664	2.456	-2.74	56.19	24.08	0.80%	1.99%	10
		Normalize to 1 Watt	56.64	24.56						
2025-12-20	5200	10 mW	1.588	0.575	-3.20	163.88	57.29	-3.10%	0.37%	10
		Normalize to 1 Watt	158.80	57.50						
2025-12-20	5800	10 mW	1.977	0.661	-0.80	188.95	63.45	4.63%	4.18%	10
		Normalize to 1 Watt	197.70	66.10						



6. SAR Evaluation Procedures

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

- 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:

For handsets operating above 300 MHz evaluated with the homogeneous head model, the SAR distribution is measured on a two-dimensional coarse grid at a fixed separation distance of less than 8 mm from the surface of the phantom shell. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. In order to maintain a fixed distance of less than 8 mm from the surface to within ± 1 mm, as required by the measurement protocol, the exact shape and dimensions of the phantom inner surface shall be known, pre-calibrated, or preferably detected during the SAR measurement with a mechanical or optical surface-detection mechanism that meets the probe positioning requirements. This evaluation technique determines the maximum spacing between the grid points, i.e., it has been found that a 20 mm $\times$ 20 mm grid is usually sufficient to achieve the required precision if two staggered one-dimensional cubic splines [55] are used to locate the maximum SAR location;.

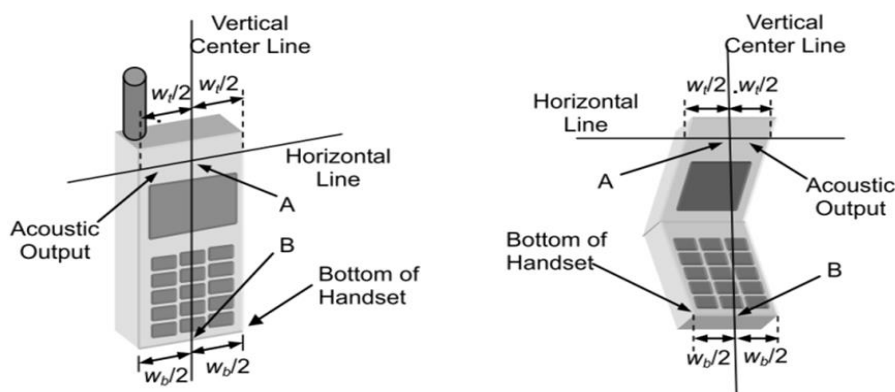
The maximum local SAR is evaluated on an interpolated grid at 1 mm to 2 mm resolution during the zoom scan. A zoom-scan volume of 32 mm x 32 mm x 30 mm, consisting of 5 x 5 x 7 points with the center at the peak SAR location determined during the area scan, can be chosen. Although a scan resolution of 8 mm is sufficient for directions parallel to the surface, 5 mm is needed in the direction normal to the surface of the phantom to achieve the required extrapolation accuracy.

7. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face, Rear Face, Left Side, Right Side, Top Side and Bottom Side

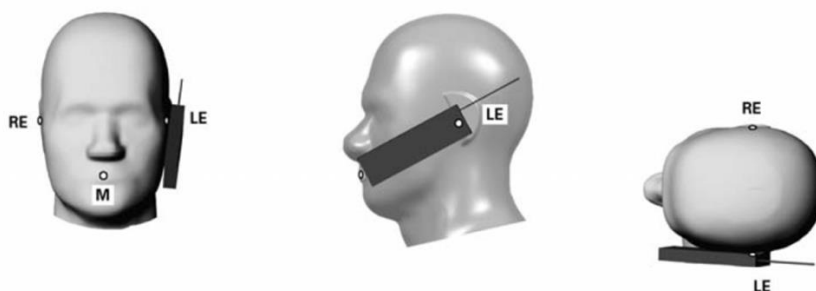
Define Two Imaginary Lines On The Handset:

- 1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width w_t of the handset at the level of the acoustic output, and the midpoint of the width w_b of the handset.
- 2) The horizontal line is perpendicular to the vertical centerline and passes through the center of the acoustic output. The horizontal line is also tangential to the face of the handset at point A.
- 3) The two lines intersect at point A. Note that for many handsets, point A coincides with the center of the acoustic output; however, the acoustic output may be located elsewhere on the horizontal line. Also note that the vertical centerline is not necessarily to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



7.1 Cheek Position

- 1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- 2) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost



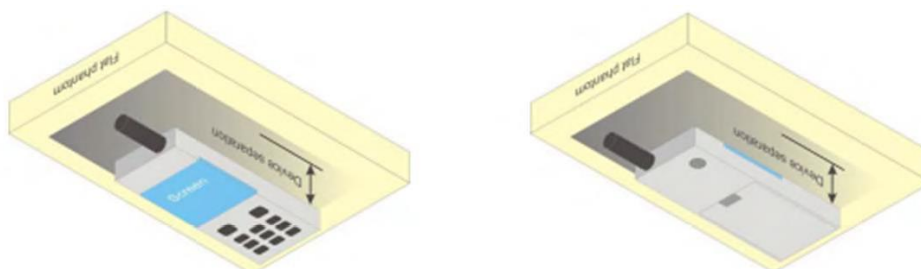
7.2 Tilt Position

- (1) To position the device in the “cheek” position described above.
- (2) While maintaining the device in the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until with the ear is lost.



7.3 Body-worn Position Conditions

- 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 5mm.





8. Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	7	2	3.50	1	3.50	∞
CF _{drift}	Probe calibration drift	R	2.31	$\sqrt{3}$	1.33	1	1.33	∞
LIN	Probe linearity and detection limit	R	2.71	$\sqrt{3}$	1.56	1	1.56	∞
BBS	Broadband signal	R	0	$\sqrt{3}$	0.00	1	0.00	∞
ISO	Probe isotropy	R	3.41	$\sqrt{3}$	1.97	1	1.97	∞
DAE	Other probe and data acquisition errors	N	0.81	1	0.81	1	0.81	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	1.89	1	1.89	$2/\delta$	1.89	
DAT	Data processing errors	N	1.33	1	1.33	1	1.33	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	5.06	1	5.06	$c\epsilon, c\sigma$	5.06	∞
LIQ(T_c)	Temperature effects (medium)	R	1.44	$\sqrt{3}$	0.83	$c\epsilon, c\sigma$	0.83	∞
EPS	Shell permittivity	R	1.67	$\sqrt{3}$	0.96	see 8.4.2.3	0.24	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	2.7	1	2.7	2	5.40	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	2.6	1	2.6	1	2.60	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	4.73	$\sqrt{3}$	2.73	1	2.73	∞
TAS	Time-average SAR	R	1.8	$\sqrt{3}$	1.04	1	1.04	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	5.77	1	5.77	1	5.77	
VAL	Validation antenna uncertainty (validation measurement only)	N	2	1	2	1	2.00	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	1.73	1	1.73	1	1.73	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	1.9	1	1.9	1	1.90	
C(R)	SAR scaling	R	2.89	$\sqrt{3}$	1.67	1	1.67	
u(Δ SAR)	Combined uncertainty						12.48	
U	Expanded uncertainty and effective degrees of freedom					U =	24.97	



9. Conducted Power Measurement

Test Result:

Burst Average Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	37	124	512	700	885
Frequency (MHz)	880.2	897.4	914.8	1710.2	1747.8	1784.8
GSM(GMSK, 1-Slot)	31.58	31.59	31.53	28.95	29.24	29.33
GPRS (GMSK,1-Slot)	31.57	31.56	31.53	28.94	29.22	29.35
GPRS (GMSK, 2-Slot)	29.80	29.65	29.54	26.99	26.98	27.04
GPRS (GMSK, 3-Slot)	28.16	28.01	27.86	25.55	25.49	25.46
GPRS (GMSK, 4-Slot)	26.15	26.02	25.84	23.66	23.51	23.43
EGPRS(8PSK, 1-Slot)	25.14	25.00	24.77	24.79	24.93	24.49
EGPRS(8PSK, 2-Slot)	24.14	24.13	23.83	23.10	23.42	22.96
EGPRS(8PSK, 3-Slot)	21.95	21.83	21.73	20.75	20.78	20.10
EGPRS(8PSK, 4-Slot)	19.92	19.47	19.40	19.10	19.91	18.96

Frame- RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	37	124	512	700	885
Frequency (MHz)	880.2	897.4	914.8	1710.2	1747.8	1784.8
GSM(GMSK, 1-Slot)	22.55	22.56	22.50	19.92	20.21	20.30
GPRS (GMSK,1-Slot)	22.54	22.53	22.50	19.91	20.19	20.32
GPRS (GMSK, 2-Slot)	23.78	23.63	23.52	20.97	20.96	21.02
GPRS (GMSK, 3-Slot)	23.90	23.75	23.60	21.29	21.23	21.20
GPRS (GMSK, 4-Slot)	23.14	23.01	22.83	20.65	20.50	20.42
EGPRS(8PSK, 1-Slot)	16.11	15.97	15.74	15.76	15.90	15.46
EGPRS(8PSK, 2-Slot)	18.12	18.11	17.81	17.08	17.40	16.94
EGPRS(8PSK, 3-Slot)	17.69	17.57	17.47	16.49	16.52	15.84
EGPRS(8PSK, 4-Slot)	16.91	16.46	16.39	16.09	16.90	15.95

Note:

Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

SAR testing was performed on the maximum frame-averaged power mode.

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

Burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB

Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB

Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB



As the SAR body tests for WCDMA, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration: a 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all "all '1's"b Test loop Mode 1

The following procedures had been used to prepare the EUT for the SAR test.

Band	WCDMA Band I (dBm)			WCDMA Band VIII (dBm)		
Channel	9612	9750	9888	2712	2787	2863
Frequency (MHz)	1922.4	1950	1977.6	882.4	897.4	912.6
RMC 12.2Kbps	21.58	21.67	21.59	21.79	21.84	21.91
HSDPA Subtest-1	21.00	21.39	21.14	21.68	21.59	21.34
HSDPA Subtest-2	20.47	21.06	20.87	21.20	21.29	20.99
HSDPA Subtest-3	20.35	20.89	20.68	21.07	20.90	20.65
HSDPA Subtest-4	20.09	20.73	20.29	20.88	20.86	20.20
HSUPA Subtest-1	21.00	21.41	21.23	21.45	21.48	21.23
HSUPA Subtest-2	20.92	21.36	21.14	21.54	21.53	21.26
HSUPA Subtest-3	20.37	21.05	20.70	21.22	21.25	20.73
HSUPA Subtest-4	20.83	21.39	21.13	21.44	21.48	21.21
HSUPA Subtest-5	20.63	21.08	21.04	21.05	21.27	20.75

**WLAN (2.4G band)**

- The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.
- The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Output power (dBm):**2.4G WIFI**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11b	1	2412	12.71	18.66
	7	2442	12.92	19.59
	13	2472	12.92	19.59
802.11g	1	2412	12.09	16.18
	7	2442	12.36	17.22
	13	2472	12.51	17.82
802.11 n-HT20	1	2412	13.74	23.66
	7	2442	14.10	25.70
	13	2472	14.06	25.47
802.11 n-HT40	3	2422	13.55	22.65
	7	2442	13.71	23.50
	11	2462	13.84	24.21

5.2G WIFI

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a	36	5180	12.44	17.54
	48	5240	12.96	19.77
802.11 n-HT20	36	5180	13.17	20.75
	48	5240	13.69	23.39
802.11 ac-VHT40	38	5190	13.13	20.56
	46	5230	13.33	21.53
802.11 ac-VHT80	42	5210	13.22	20.99

5.8G WIFI

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a	149	5745	12.55	17.99
	157	5785	12.92	19.59
	165	5825	13.10	20.42
802.11 n-HT20	149	5745	12.82	19.14
	157	5785	13.37	21.73
	165	5825	13.49	22.34
802.11 n-HT40	151	5755	12.79	19.01
	159	5795	13.26	21.18
802.11 ac-VHT20	149	5745	12.09	16.18
	157	5785	12.53	17.91
	165	5825	12.60	18.20
802.11 ac-VHT20	151	5755	12.65	18.41
	159	5795	13.13	20.56
802.11 ac-VHT20	155	5775	12.84	19.23



Bluetooth

BT		
Mode	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	4.32	2.70
QPSK(2Mbps)	2.99	1.99
8DPSK(3Mbps)	2.97	1.98

BLE

BLE			
Mode	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
GFSK(1Mbps)	2402	3.70	2.34
	2440	3.52	2.25
	2480	2.85	1.93
GFSK(1Mbps)	2402	3.72	2.36
	2440	3.44	2.21
	2480	2.74	1.88

*Note: According to EN50663 and EN 62479, The available antenna power of this EUT BT is **4.32dBm (2.70mW)**, the power is less than the low-power exclusion level defined (Pmax:20 mW), So BT SAR is not required.*



LTE output list

LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
1	18025	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.44	Passed
	18025	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.54	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.42	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.50	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.34	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.37	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.40	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.49	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.56	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.34	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.70	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.48	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.45	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.43	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.48	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.36	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.64	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.75	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.68	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.57	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.70	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.04	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.66	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.72	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
3	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.33	Passed
	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.30	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.23	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.22	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.26	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.25	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.29	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.26	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.15	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.33	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.47	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.49	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.11	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.12	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.16	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.19	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.18	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.22	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.29	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.22	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.12	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.34	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.34	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.50	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.21	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.24	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.10	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.23	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.63	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.45	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.20	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.16	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.35	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.37	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.24	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.24	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
7	20775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.83	Passed
	20775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.88	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.79	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.93	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.30	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.27	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.70	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.47	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.44	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.48	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.37	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.40	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.47	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.15	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.39	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.99	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.50	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.22	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.11	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.89	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.04	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	25.26	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.91	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.00	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
8	21457	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.62	Passed
	21457	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.61	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.46	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	22.46	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.39	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.32	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.39	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	22.39	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.56	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.45	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.41	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	22.42	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.44	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.51	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.56	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	22.44	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.47	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.55	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.49	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	22.64	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.26	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.27	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.46	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:HIGH)	20.3	25.7	22.47	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.45	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.51	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	22.40	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	22.60	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.50	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.56	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	22.47	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	22.50	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.53	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.32	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	22.51	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:HIGH)	20.3	25.7	22.58	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
20	24175	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.99	Passed
	24175	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.00	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.07	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.09	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.92	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.86	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.05	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.04	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.12	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.97	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.06	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.03	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.13	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.00	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.08	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.06	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.38	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.40	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.10	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.11	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.19	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.18	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.01	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.03	Passed



9.1 Tune up power

Mode	GSM900	GSM1800
GSM/PCS	31±1dBm	28.5±1dBm
GPRS (1 Slot)	31±1dBm	28.5±1dBm
GPRS (2 Slot)	29±1dBm	26.5±1dBm
GPRS (3 Slot)	27.5±1dBm	25±1dBm
GPRS (4 Slot)	25.5±1dBm	23±1dBm
EDGE (1 Slot)	24.5±1dBm	24±1dBm
EDGE (2 Slot)	23.5±1dBm	22.5±1dBm
EDGE (3 Slot)	21±1dBm	20±1dBm
EDGE (4 Slot)	19±1dBm	19±1dBm

Mode	WCDMA Band 1	WCDMA Band 8
RMC	21±1dBm	21±1dBm
HSDPA Subtest-1	19.5±1dBm	21±1dBm
HSDPA Subtest-2	20.5±1dBm	20.5±1dBm
HSDPA Subtest-3	20±1dBm	20.5±1dBm
HSDPA Subtest-4	20±1dBm	20±1dBm
HSUPA Subtest-1	20.5±1dBm	20.5±1dBm
HSUPA Subtest-2	20.5±1dBm	21±1dBm
HSUPA Subtest-3	20.5±1dBm	20.5±1dBm
HSUPA Subtest-4	20.5±1dBm	20.5±1dBm
HSUPA Subtest-5	20.5±1dBm	20.5±1dBm

BW[MHz]	Mode	Band 1	Band 3	Band 7
1.4	QPSK	N/A	21.5±1dBm	N/A
3	QPSK	N/A	N/A	N/A
5	QPSK	22±1dBm	22±1dBm	23±1dBm
10	QPSK	N/A	N/A	N/A
20	QPSK	22±1dBm	22±1dBm	24.5±1dBm
BW[MHz]	Mode	Band 8	Band 20	
1.4	QPSK	22±1dBm	N/A	
3	QPSK	N/A	N/A	
5	QPSK	22±1dBm	22.5±1dBm	
10	QPSK	22±1dBm	N/A	
20	QPSK	N/A	22.5±1dBm	



Mode	2.4G WLAN
802.11b	12±1dBm
802.11g	12±1dBm
802.11n(HT 20)	13.5±1dBm
802.11n(HT 40)	13±1dBm

Mode	5.2G WLAN
802.11a	12±1dBm
802.11 n-HT20	13±1dBm
802.11 n-HT40	12.5±1dBm
802.11ac80	12.5±1dBm

Mode	5.8G WLAN
802.11a	12.5±1dBm
802.11 n-HT20	12.5±1dBm
802.11 n-HT40	12.5±1dBm
802.11ac20	12±1dBm
802.11ac40	12.5±1dBm
802.11ac80	12±1dBm

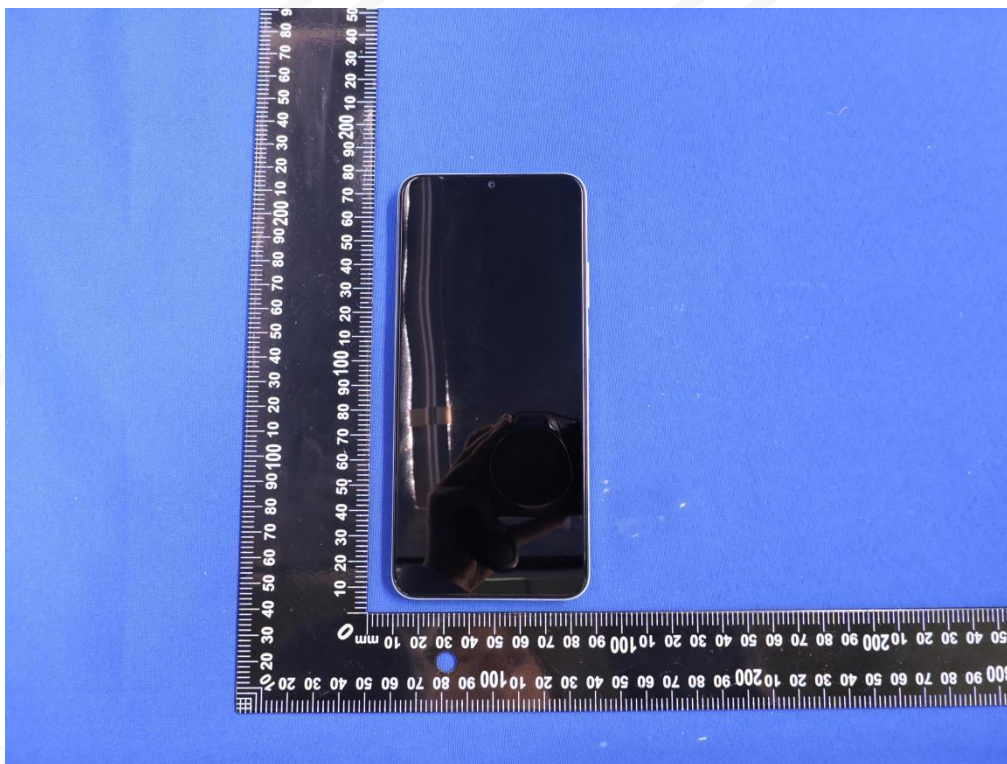
Mode	BT
GFSK	3.5±1dBm
$\pi/4$ -DQPSK	2±1dBm
8DPSK	2±1dBm

Mode	BLE
GFSK(1Mbps)	3±1dBm
GFSK(2Mbps)	3±1dBm

10. Test Photos and Results

10.1 EUT Photos

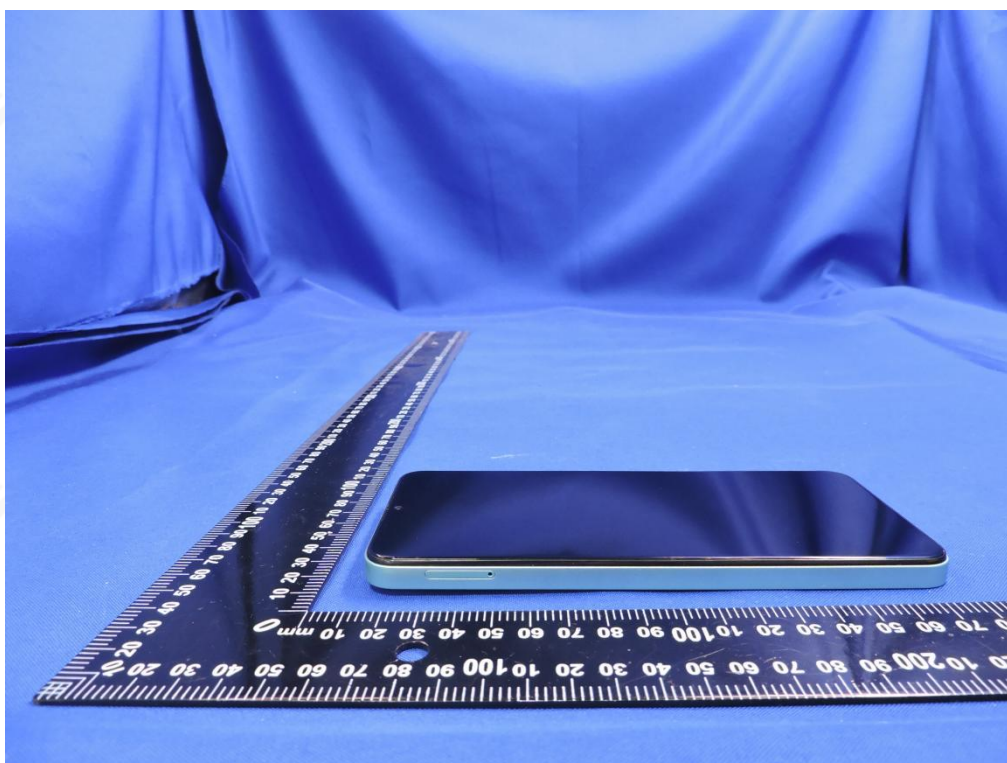
Front side



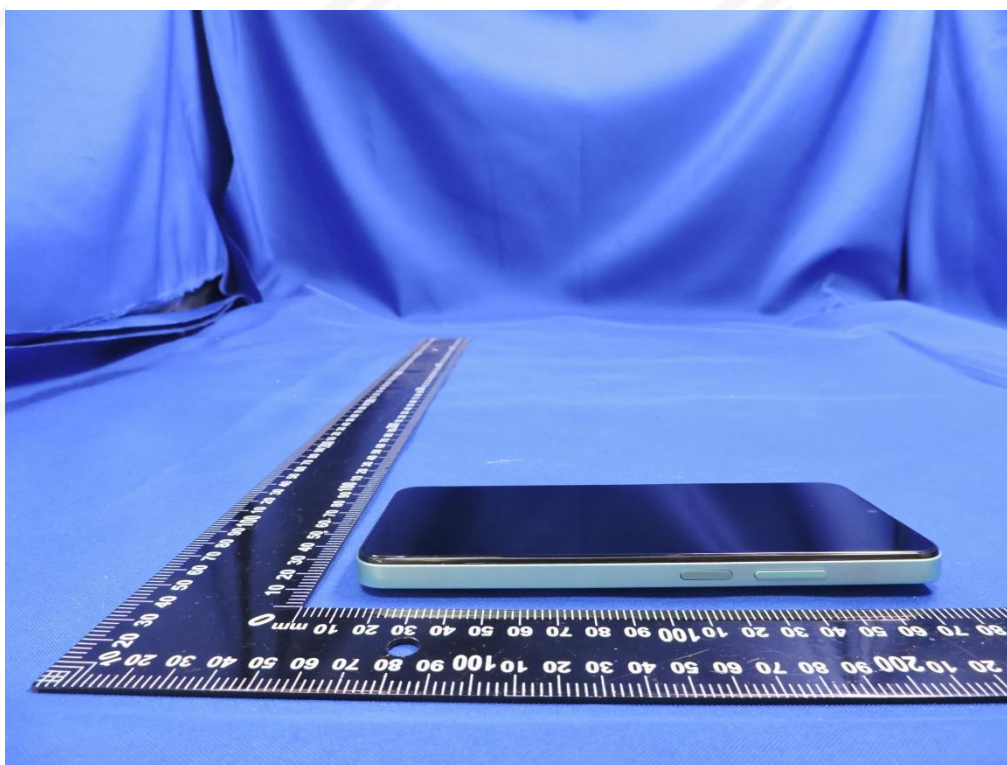
Back side



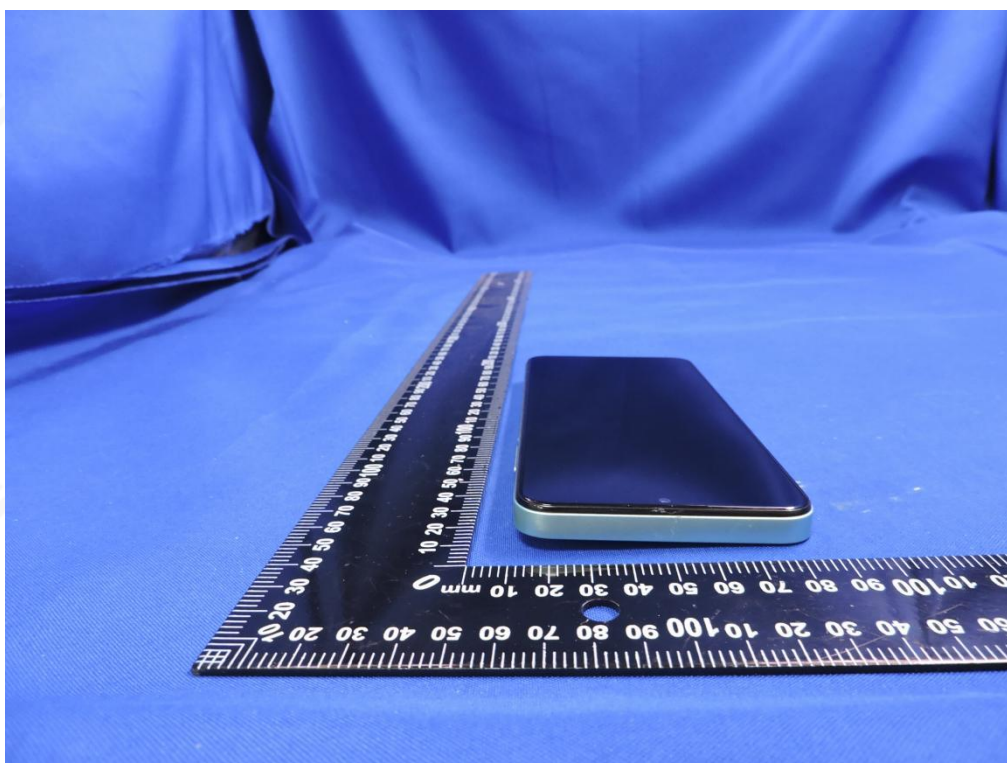
Left Edge



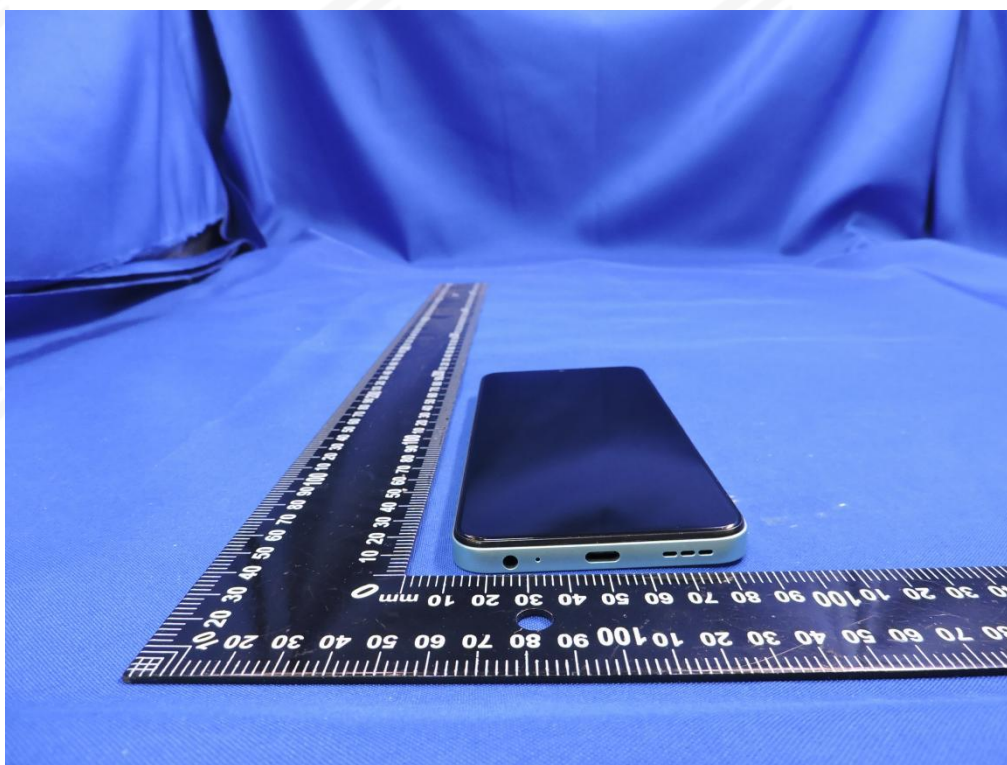
Right Edge



Top Edge



Bottom Edge



Right Cheek



Right Tilt



Left Cheek



Left Tilt



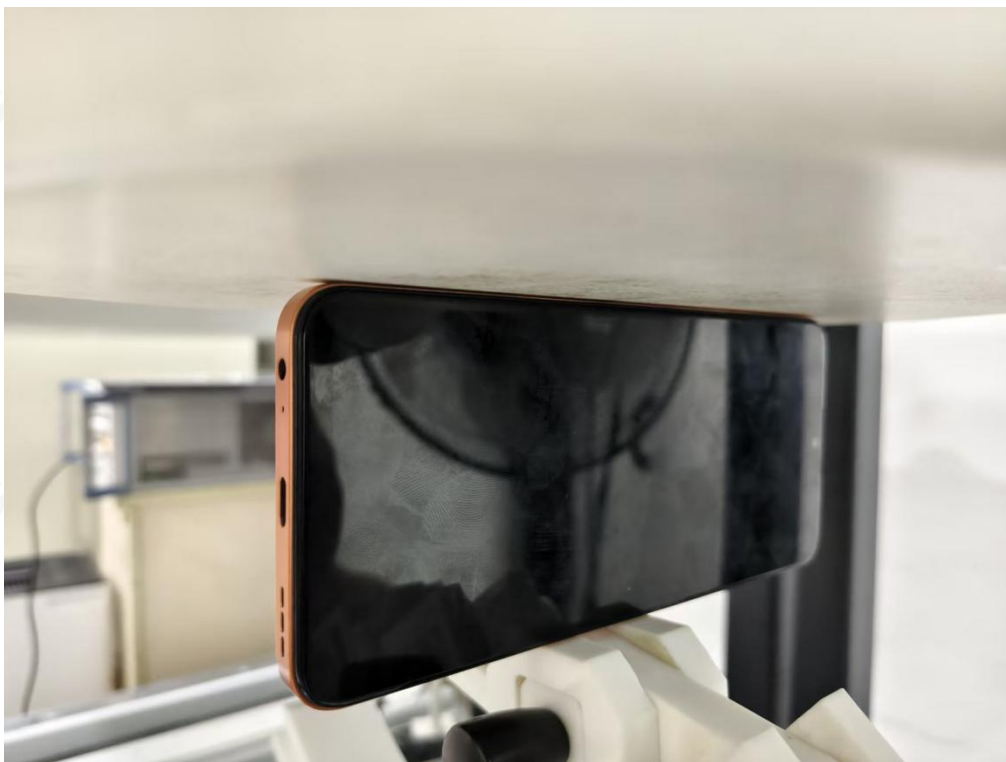
Front Side



Back Side



Left Edge



Right Edge



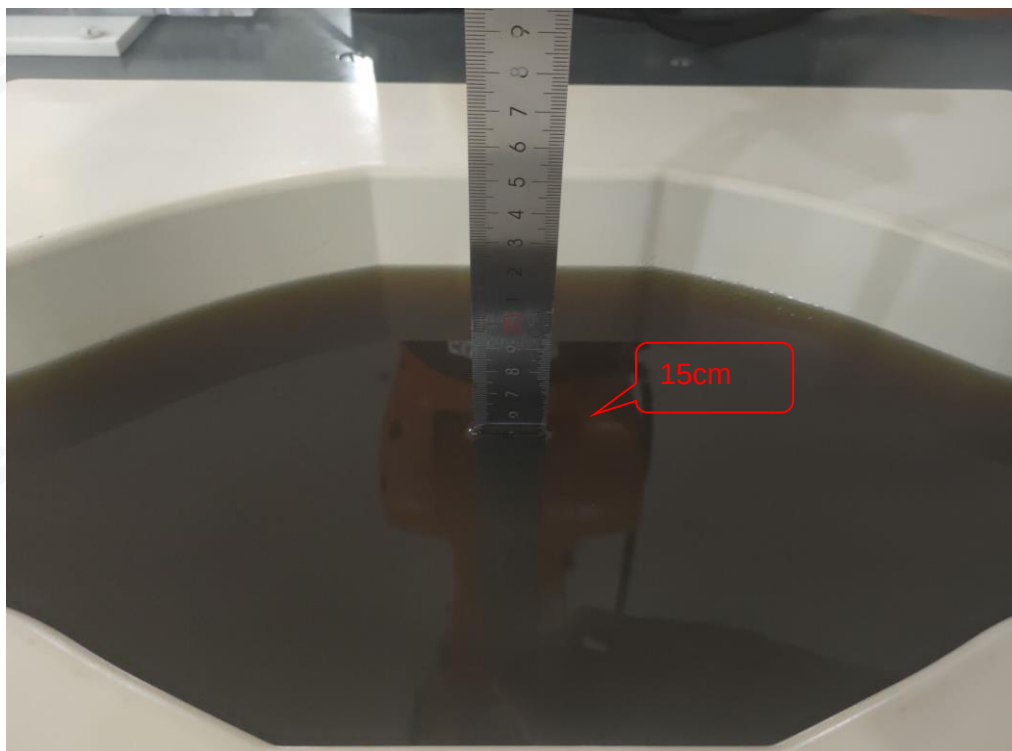
Top Edge



Bottom Edge



Liquid depth (15 cm)





11. SAR Result Summary

11.1 Head SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM900	Voice	Right Cheek	897.4	0.355	0.90	32.00	31.59	0.390	1
		Right Tilt	897.4	0.192	2.00	32.00	31.59	0.211	/
		Left Cheek	897.4	0.303	2.90	32.00	31.59	0.333	/
		Left Tilt	897.4	0.151	-0.38	23.00	31.59	0.021	/
GSM1800	Voice	Right Cheek	1784.8	0.516	0.27	29.50	29.33	0.537	3
		Right Tilt	1784.8	0.364	1.67	29.50	29.33	0.379	/
		Left Cheek	1784.8	0.428	2.58	29.50	29.33	0.445	/
		Left Tilt	1784.8	0.325	-0.56	29.50	29.33	0.338	/
WCDMA Band I	RMC	Right Cheek	1922.4	0.522	-0.65	22.00	21.58	0.575	/
		Right Cheek	1950	0.546	-1.47	22.00	21.67	0.589	5
		Right Cheek	1977.6	0.515	-3.32	22.00	21.59	0.566	/
		Right Tilt	1950	0.293	1.15	22.00	21.67	0.316	/
		Left Cheek	1950	0.525	-0.94	22.00	21.67	0.566	/
		Left Tilt	1950	0.317	2.51	22.00	21.67	0.342	/
WCDMA Band VIII	RMC	Right Cheek	912.6	0.182	-0.51	22.00	21.91	0.186	7
		Right Tilt	912.6	0.099	-2.63	22.00	21.91	0.101	/
		Left Cheek	912.6	0.158	-0.08	22.00	21.91	0.161	/
		Left Tilt	912.6	0.112	-3.66	22.00	21.91	0.114	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1950	0.479	1.64	23.00	22.75	0.507	9
		Right Tilt	1950	0.279	-0.37	23.00	22.75	0.296	/
		Left Cheek	1950	0.453	1.21	23.00	22.75	0.480	/
		Left Tilt	1950	0.256	3.94	23.00	22.75	0.271	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1747.5	0.481	1.28	23.00	22.63	0.524	11
		Right Tilt	1747.5	0.227	0.84	23.00	22.63	0.247	/
		Left Cheek	1747.5	0.439	1.74	23.00	22.63	0.478	/
		Left Tilt	1747.5	0.210	-1.84	23.00	22.63	0.229	/
LTE Band 7	20MHz BW, 1RB Offset 0	Right Cheek	2560	0.447	-2.54	25.50	25.26	0.472	13
		Right Tilt	2560	0.350	-2.43	25.50	25.26	0.370	/
		Left Cheek	2560	0.420	-2.63	25.50	25.26	0.444	/
		Left Tilt	2560	0.281	-1.00	25.50	25.26	0.297	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	885	0.086	-0.59	23.00	22.60	0.094	15
		Right Tilt	885	0.043	-2.64	23.00	22.60	0.047	/
		Left Cheek	885	0.075	2.79	23.00	22.60	0.082	/
		Left Tilt	885	0.028	-2.70	23.00	22.60	0.031	/
LTE Band 20	20MHz BW, 1RB Offset 0	Right Cheek	847	0.347	-1.35	23.50	23.40	0.355	17
		Right Tilt	847	0.210	1.91	23.50	23.40	0.215	/
		Left Cheek	847	0.256	1.08	23.50	23.40	0.262	/
		Left Tilt	847	0.169	3.95	23.50	23.40	0.173	/
2.4GHz WLAN	802.11b	Right Cheek	2472	0.110	-0.90	13.00	12.92	0.112	19
		Right Tilt	2472	0.067	0.44	13.00	12.92	0.068	/
		Left Cheek	2472	0.088	-3.21	13.00	12.92	0.090	/
		Left Tilt	2472	0.042	-1.10	13.00	12.92	0.043	/
		Right Cheek	5240	0.204	-3.36	14.00	13.69	0.219	21



5.2GHz WLAN	802.11 n-HT20	Right Tilt	5240	0.131	0.90	14.00	13.69	0.141	/
		Left Cheek	5240	0.158	0.88	14.00	13.69	0.170	/
		Left Tilt	5240	0.073	3.27	14.00	13.69	0.078	/
5.8GHz WLAN	802.11 n-HT20	Right Cheek	5825	0.248	-1.71	13.50	13.49	0.249	23
		Right Tilt	5825	0.175	0.86	13.50	13.49	0.175	/
		Left Cheek	5825	0.207	-3.18	13.50	13.49	0.207	/
		Left Tilt	5825	0.139	0.24	13.50	13.49	0.139	/

Note:

1. The test separation of all above table is 0mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0\text{W/kg}$, testing for low and high channel is optional.



11.2Body and Limbs SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR (W/Kg)	Meas.No.
GSM900	GPRS (GMSK, 3-Slot)	Front Side	880.2	0.411	-0.30	28.50	28.16	0.444	/
		Back Side	880.2	0.434	-0.23	28.50	28.16	0.469	2
		Left Edge	880.2	0.356	3.37	28.50	28.16	0.385	/
		Right Edge	880.2	0.335	-2.54	28.50	28.16	0.362	/
		Top Edge	880.2	0.297	-0.95	28.50	28.16	0.321	/
		Bottom Edge	880.2	0.182	-1.96	28.50	28.16	0.197	/
GSM1800	GPRS (GMSK, 3-Slot)	Front Side	1710.2	0.495	-0.74	26.00	25.55	0.549	/
		Back Side	1710.2	0.553	0.07	26.00	25.55	0.613	4
		Left Edge	1710.2	0.238	3.86	26.00	25.55	0.264	/
		Right Edge	1710.2	0.269	1.25	26.00	25.55	0.298	/
		Top Edge	1710.2	0.183	2.61	26.00	25.55	0.203	/
		Bottom Edge	1710.2	0.220	1.31	26.00	25.55	0.244	/
WCDMA Band I	RMC	Front Side	1950	0.638	3.32	22.00	21.67	0.688	/
		Back Side	1950	0.681	2.52	22.00	21.67	0.735	6
		Left Edge	1950	0.402	-1.22	22.00	21.67	0.434	/
		Right Edge	1950	0.375	1.17	22.00	21.67	0.405	/
		Top Edge	1950	0.291	-3.39	22.00	21.67	0.314	/
		Bottom Edge	1950	0.162	-1.29	22.00	21.67	0.175	/
WCDMA Band VIII	RMC	Front Side	912.6	0.748	-1.69	22.00	21.91	0.764	/
		Back Side	912.6	0.759	2.71	22.00	21.91	0.775	8
		Left Edge	912.6	0.397	-0.37	22.00	21.91	0.405	/
		Right Edge	912.6	0.372	0.33	22.00	21.91	0.380	/
		Top Edge	912.6	0.351	-0.20	22.00	21.91	0.358	/
		Bottom Edge	912.6	0.270	-0.86	22.00	21.91	0.276	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1950	0.583	-0.05	23.00	22.75	0.618	/
		Back Side	1950	0.626	-0.05	23.00	22.75	0.663	10
		Left Edge	1950	0.334	-0.05	23.00	22.75	0.354	/
		Right Edge	1950	0.308	-0.05	23.00	22.75	0.326	/
		Top Edge	1950	0.240	-0.05	23.00	22.75	0.254	/
		Bottom Edge	1950	0.179	-0.05	23.00	22.75	0.190	/
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1747.5	0.592	-0.54	23.00	22.63	0.645	/
		Back Side	1747.5	0.701	-0.54	23.00	22.63	0.763	12
		Left Edge	1747.5	0.335	-0.54	23.00	22.63	0.365	/
		Right Edge	1747.5	0.287	-0.54	23.00	22.63	0.313	/
		Top Edge	1747.5	0.182	-0.54	23.00	22.63	0.198	/
		Bottom Edge	1747.5	0.131	-0.54	23.00	22.63	0.143	/
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2560	0.761	-1.28	25.50	25.26	0.804	/
		Back Side	2510	0.781	3.61	23.50	23.47	0.786	/
		Back Side	2535	0.769	1.03	24.00	23.50	0.863	/
		Back Side	2560	0.822	-3.06	25.50	25.26	0.869	14
		Left Edge	2560	0.561	3.05	25.50	25.26	0.593	/
		Right Edge	2560	0.553	0.27	25.50	25.26	0.584	/
		Top Edge	2560	0.387	-2.57	25.50	25.26	0.409	/
		Bottom Edge	2560	0.235	1.68	25.50	25.26	0.248	/
LTE Band 8	20MHz BW,	Front Side	885	0.076	2.87	23.00	22.60	0.083	/
		Back Side	885	0.103	-2.17	23.00	22.60	0.113	16
		Left Edge	885	0.043	-0.95	23.00	22.60	0.047	/



	12RB Offset 0	Right Edge	885	0.050	-3.54	23.00	22.60	0.055	/
		Top Edge	885	0.037	0.91	23.00	22.60	0.041	/
		Bottom Edge	885	0.011	-0.01	23.00	22.60	0.012	/
LTE Band 20	20MHz BW, 1RB Offset 0	Front Side	847	0.088	-3.43	23.50	23.40	0.090	/
		Back Side	847	0.109	3.12	23.50	23.40	0.112	18
		Left Edge	847	0.052	-3.23	23.50	23.40	0.053	/
		Right Edge	847	0.061	-1.64	23.50	23.40	0.062	/
		Top Edge	847	0.035	2.66	23.50	23.40	0.036	/
		Bottom Edge	847	0.027	-1.47	23.50	23.40	0.028	/
2.4GHz WLAN	802.11b	Front Side	2472	0.189	-3.11	13.00	12.92	0.193	/
		Back Side	2472	0.220	-3.30	13.00	12.92	0.224	20
		Left Edge	2472	0.103	-3.98	13.00	12.92	0.105	/
		Right Edge	2472	0.115	0.38	13.00	12.92	0.117	/
		Top Edge	2472	0.082	-2.76	13.00	12.92	0.084	/
		Bottom Edge	2472	0.050	2.23	13.00	12.92	0.051	/
5.2GHz WLAN	802.11 n-HT20	Front Side	5240	0.152	2.95	14.00	13.69	0.163	/
		Back Side	5240	0.196	2.46	14.00	13.69	0.211	22
		Left Edge	5240	0.091	-0.95	14.00	13.69	0.098	/
		Right Edge	5240	0.075	-0.23	14.00	13.69	0.081	/
		Top Edge	5240	0.066	-3.19	14.00	13.69	0.071	/
		Bottom Edge	5240	0.031	-0.04	14.00	13.69	0.033	/
5.8GHz WLAN	802.11 n-HT20	Front Side	5825	0.257	0.74	13.50	13.49	0.258	/
		Back Side	5825	0.282	0.34	13.50	13.49	0.283	24
		Left Edge	5825	0.185	-1.51	13.50	13.49	0.185	/
		Right Edge	5825	0.173	-1.61	13.50	13.49	0.173	/
		Top Edge	5825	0.099	0.35	13.50	13.49	0.099	/
		Bottom Edge	5825	0.081	3.78	13.50	13.49	0.081	/

Note:

1. The test separation of all above table is 0mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0W/kg$, testing for low and high channel is optional.



11.3 Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1.GSM+ 2.4G/5G WIFI
	2.GSM+Bluetooth
	3.WCDMA+ 2.4G/5G WIFI
	4.WCDMA+Bluetooth
	5.LTE+ 2.4G/5G WIFI
	6.LTE+Bluetooth
Body&Limbs	1.GSM+ 2.4G/5G WIFI
	2.GSM+Bluetooth
	3.WCDMA+ 2.4G/5G WIFI
	4.WCDMA+Bluetooth
	5.LTE+ 2.4G/5G WIFI
	6.LTE+Bluetooth

Note:

1. The Bluetooth and WLAN can't simultaneous transmission at the same time.
2. The 2.4GHz WLAN and 5GHz WLAN can't simultaneous transmission at the same time.
3. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
4. The reported SAR summation is calculated based on the same configuration and test position.
5. DUT will choose either 2G/3G/4G/5G according to the network signal condition, therefore, 2G/3G/4G/5G will not transmit simultaneously.
6. Per EN IEC/IEEE 62209-1528 section 7.9.3.5, Test reduction based on simultaneous multi-band transmission considerations.

For secondary transmitter (i.e. lower power transmitters), we use the following Formula to evaluate the threshold power for the secondary transmitter that allows it to be excluded from SAR testing:

$$P_{\text{available}} = P_{\text{th},m} * (SAR_{\text{lim.}} - SAR_1) / SAR_{\text{lim.}}$$

where:

$P_{\text{th},m}$ is the threshold exclusion power level taken from Annex B of IEC 62479 for the frequency of the secondary transmitter at the separation distance used in the testing.

If the output power of the secondary transmitter is less than $P_{\text{available}}$, SAR measurement for the secondary transmitter is not necessary.



Simultaneous Mode	Position	SAR ₁	Secondary transmitter Maximum Average Power		Separation distance	P _{available}	Result
		10g(W/Kg)	dBm	mW	(mm)	mW	
GSM + 2.4GWLAN	Head	0.537	14.50	28.184	≤5	14.630	Yes
	Body&Limbs	0.613			≤5	13.870	Yes
WCDMA + 2.4GWLAN	Head	0.589			≤5	14.110	Yes
	Body&Limbs	0.775			≤5	12.250	Yes
LTE + 2.4GWLAN	Head	0.524			≤5	14.760	Yes
	Body&Limbs	0.869			≤5	11.310	Yes
GSM + 5.2GWLAN	Head	0.537	14.00	25.119	≤5	14.630	Yes
	Body&Limbs	0.613			≤5	13.870	Yes
WCDMA + 5.2GWLAN	Head	0.589			≤5	14.110	Yes
	Body&Limbs	0.775			≤5	12.250	Yes
LTE + 5.2GWLAN	Head	0.524			≤5	14.760	Yes
	Body&Limbs	0.869			≤5	11.310	Yes
GSM + 5.8GWLAN	Head	0.537	13.50	22.387	≤5	14.630	Yes
	Body&Limbs	0.613			≤5	13.870	Yes
WCDMA + 5.8GWLAN	Head	0.589			≤5	14.110	Yes
	Body&Limbs	0.775			≤5	12.250	Yes
LTE + 5.8GWLAN	Head	0.524			≤5	14.760	Yes
	Body&Limbs	0.869			≤5	11.310	Yes
GSM + BT	Head	0.537	4.50	2.818	≤5	14.630	No
	Body&Limbs	0.613			≤5	13.870	No
WCDMA + BT	Head	0.589			≤5	14.110	No
	Body&Limbs	0.775			≤5	12.250	No
LTE + BT	Head	0.524			≤5	14.760	No
	Body&Limbs	0.869			≤5	11.310	No

Note:

The "No" is means that SAR measurement for the secondary transmitter is not necessary.

The "Yes" is means that SAR measurement for the secondary transmitter is necessary.



Simultaneous Mode	Position	Mode	Max. 10-g SAR W/Kg	10-g Sum SAR W/Kg
GSM + 2.4GWLAN	Head	GSM	0.537	0.649
		2.4GHz WLAN	0.112	
	Body&Limbs	GSM	0.613	0.837
		2.4GHz WLAN	0.224	
WCDMA + 2.4GWLAN	Head	WCDMA	0.589	0.701
		2.4GHz WLAN	0.112	
	Body&Limbs	WCDMA	0.775	0.999
		2.4GHz WLAN	0.224	
LTE + 2.4GWLAN	Head	LTE	0.524	0.636
		2.4GHz WLAN	0.112	
	Body&Limbs	LTE	0.869	1.093
		2.4GHz WLAN	0.224	
GSM + 5.2GWLAN	Head	GSM	0.537	0.756
		5.2GHz WLAN	0.219	
	Body&Limbs	GSM	0.613	0.824
		5.2GHz WLAN	0.211	
WCDMA + 5.2GWLAN	Head	WCDMA	0.589	0.808
		5.2GHz WLAN	0.219	
	Body&Limbs	WCDMA	0.775	0.986
		5.2GHz WLAN	0.211	
LTE + 5.2GWLAN	Head	LTE	0.524	0.743
		5.2GHz WLAN	0.219	
	Body&Limbs	LTE	0.869	1.080
		5.2GHz WLAN	0.211	
GSM + 5.8GWLAN	Head	GSM	0.537	0.786
		5.8GHz WLAN	0.249	
	Body&Limbs	GSM	0.613	0.896
		5.8GHz WLAN	0.283	
WCDMA + 5.8GWLAN	Head	WCDMA	0.589	0.838
		5.8GHz WLAN	0.249	
	Body&Limbs	WCDMA	0.775	1.058
		5.8GHz WLAN	0.283	
LTE + 5.8GWLAN	Head	LTE	0.524	0.773
		5.8GHz WLAN	0.249	
	Body&Limbs	LTE	0.869	1.152
		5.8GHz WLAN	0.283	

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.



12. 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
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
900MHz Dipole	MVG	SID900	5023-DIP0G900-746	2023.12.20	2026.12.19
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
3500MHz Dipole	MVG	SID3500	SN 08/21 DIP3G 500-553	2024-02-14	2027-02-13
3700MHz Dipole	MVG	SID3700	SN 08/21 DIP3G 700-554	2024-02-14	2027-02-13
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	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
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	2025-02-22	2026-02-21
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 (835MHz)

Type: Phone measurement (Complete)

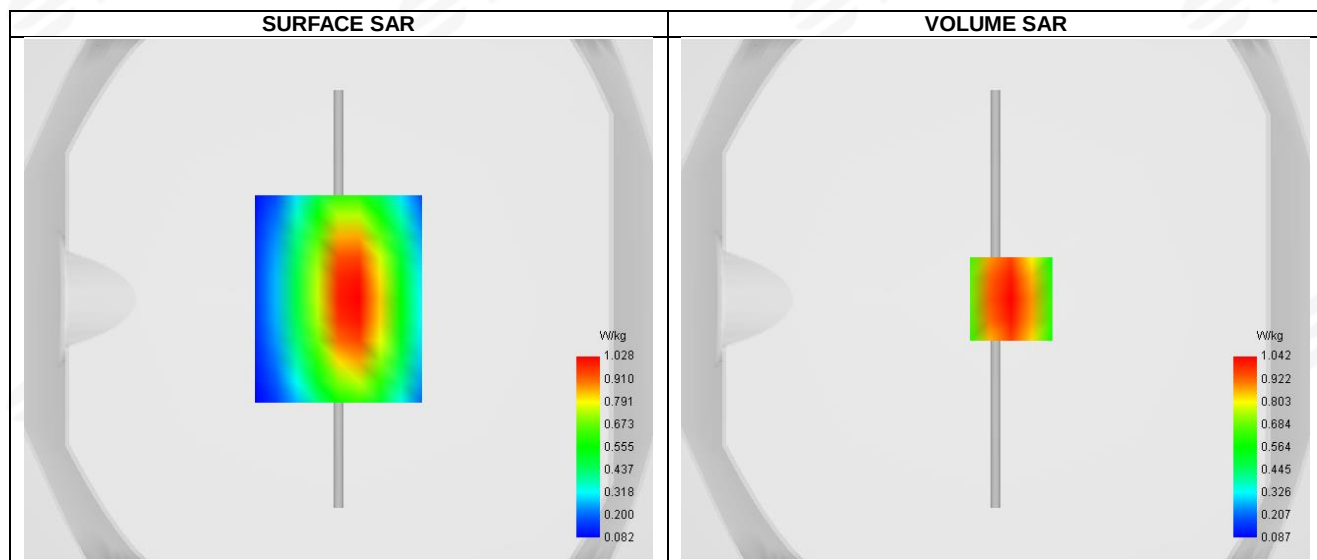
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-10

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.82
Conductivity (S/m)	0.89
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



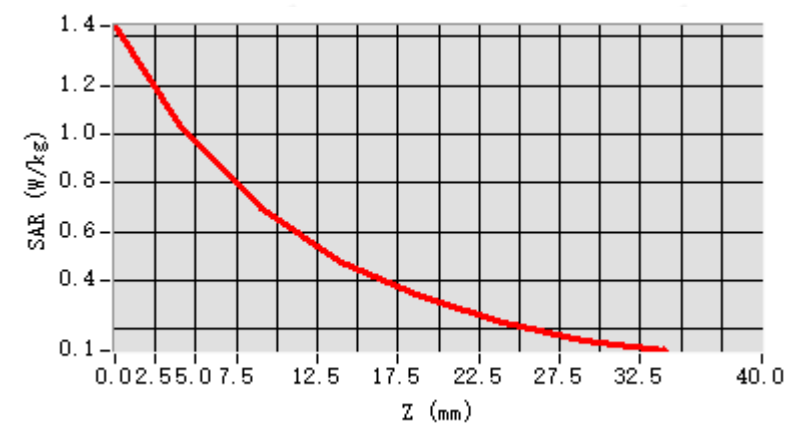
Maximum location: X=6.00, Y=0.00 ; SAR Peak: 1.44 W/kg

D. SAR 1g & 10g

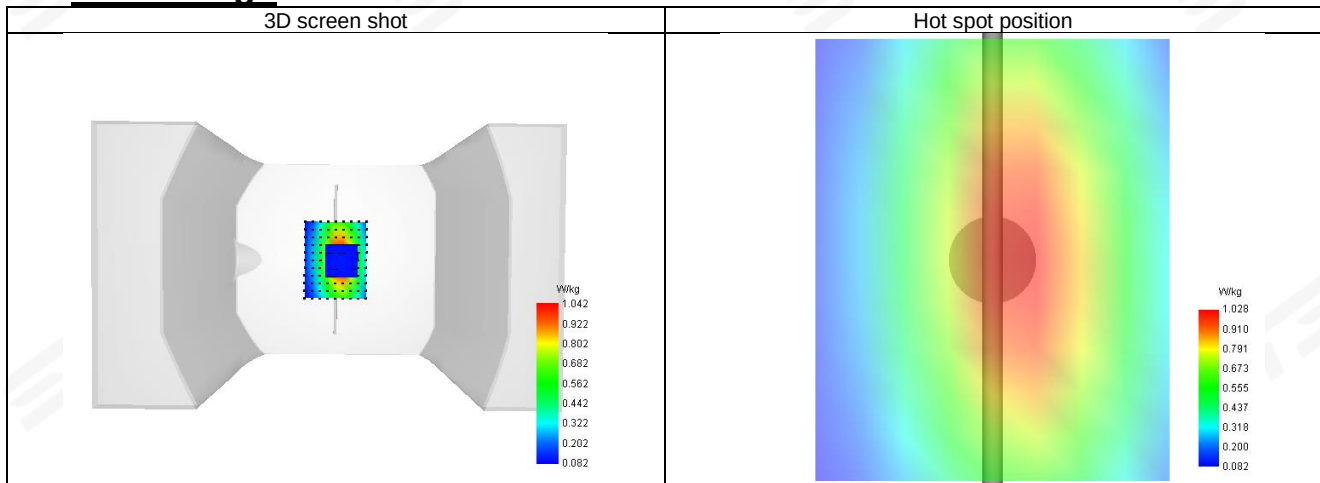
SAR 10g (W/Kg)	0.657
SAR 1g (W/Kg)	0.953
Horizontal validation criteria: minimum distance (mm)	11.913567
Vertical validation criteria: SAR ratio M2/M1 (%)	67.714285

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.445	1.042	0.700	0.474	0.333	0.229	0.157



F. 3D Image



**System Performance Check Data (900MHz)**

Type: Phone measurement (Complete)

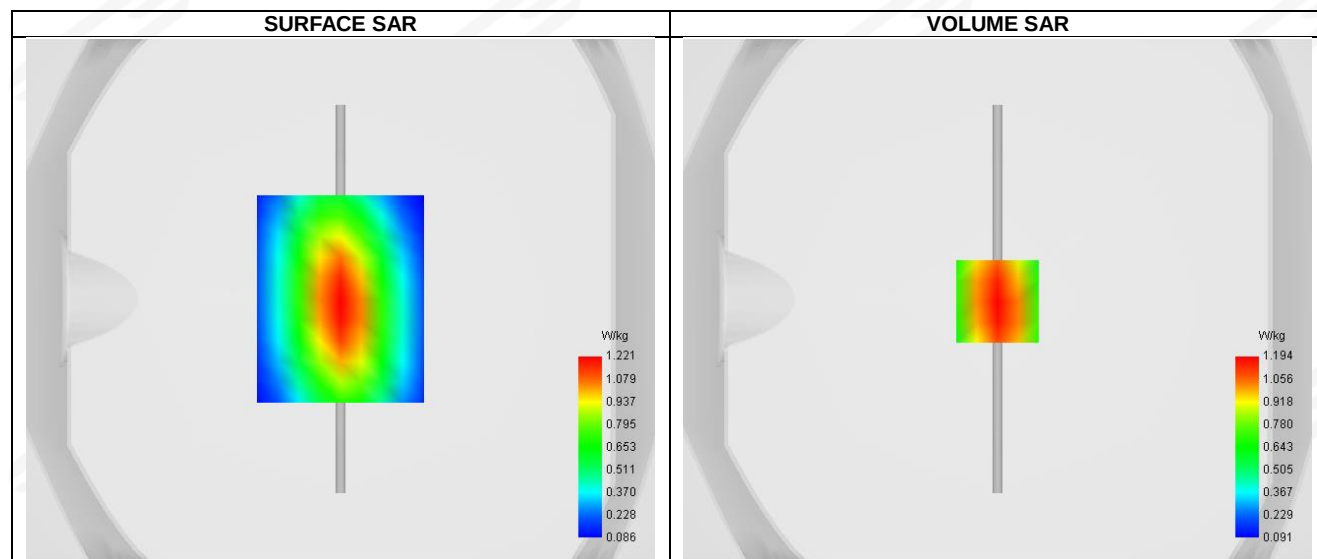
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-10

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	900MHz
Channels	-
Signal	CW
Frequency (MHz)	900MHz
Relative permittivity	41.83
Conductivity (S/m)	0.99
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



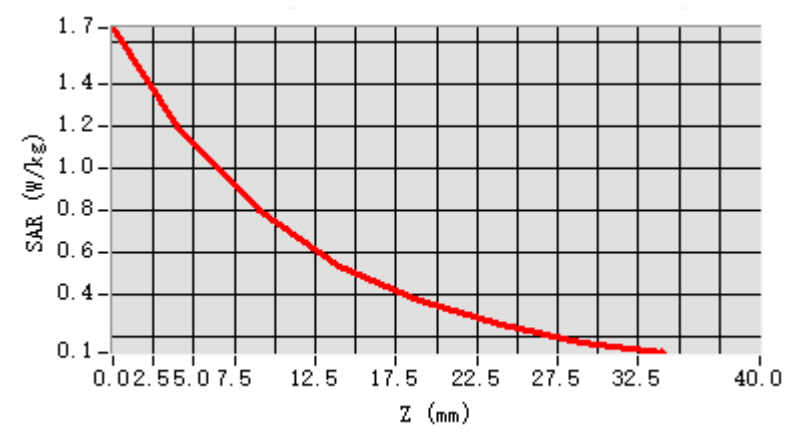
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.66 W/kg

D. SAR 1g & 10g

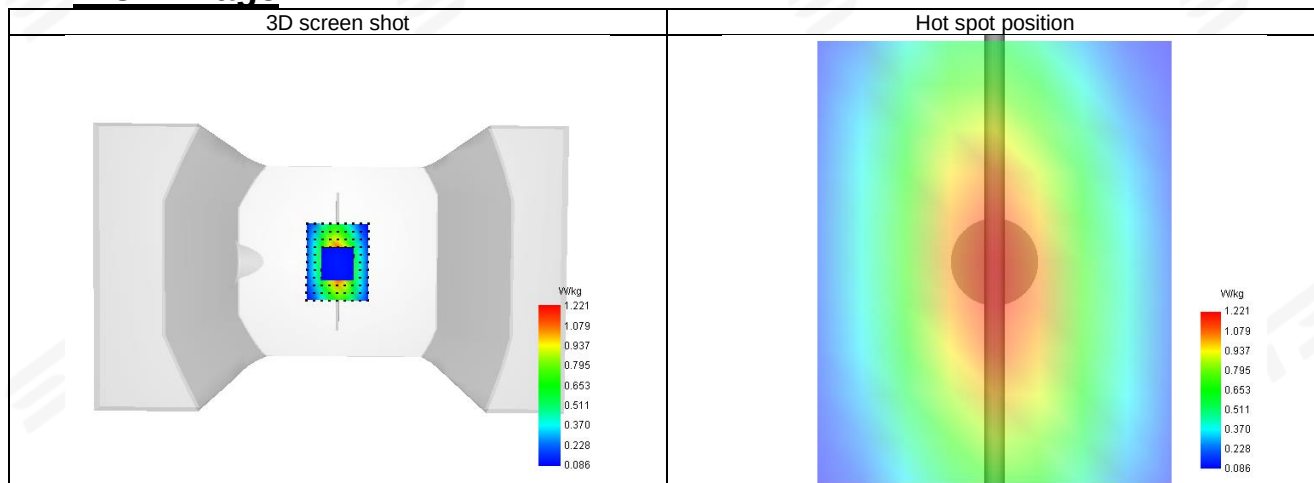
SAR 10g (W/Kg)	0.677
SAR 1g (W/Kg)	1.147
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	66.731304

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.663	1.194	0.797	0.536	0.373	0.254	0.173



F. 3D Image



**System Performance Check Data (1800MHz)**

Type: Phone measurement (Complete)

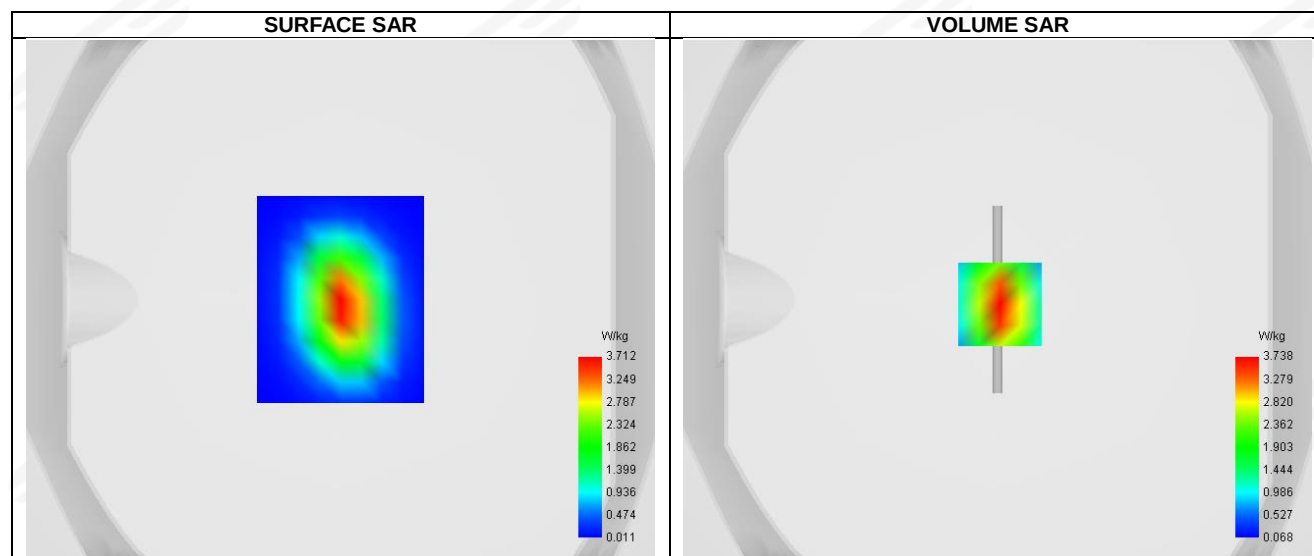
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-13

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.48
Conductivity (S/m)	1.38
Probe	SN 08/21 EPG0352
ConvF	1.54
Crest factor:	1:1



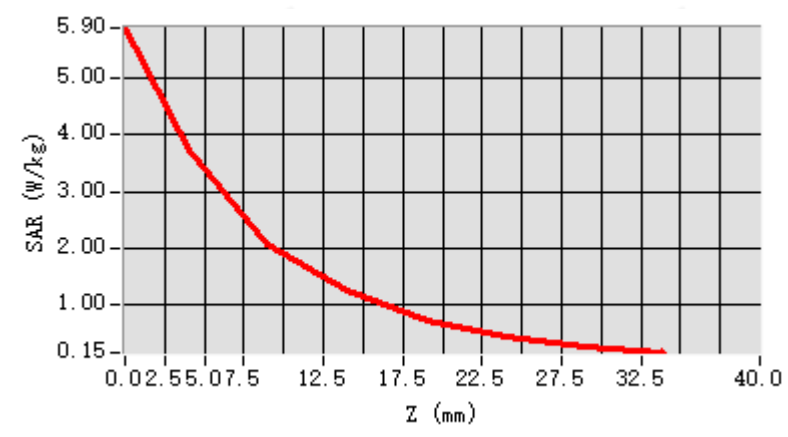
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 5.85 W/kg

D. SAR 1g & 10g

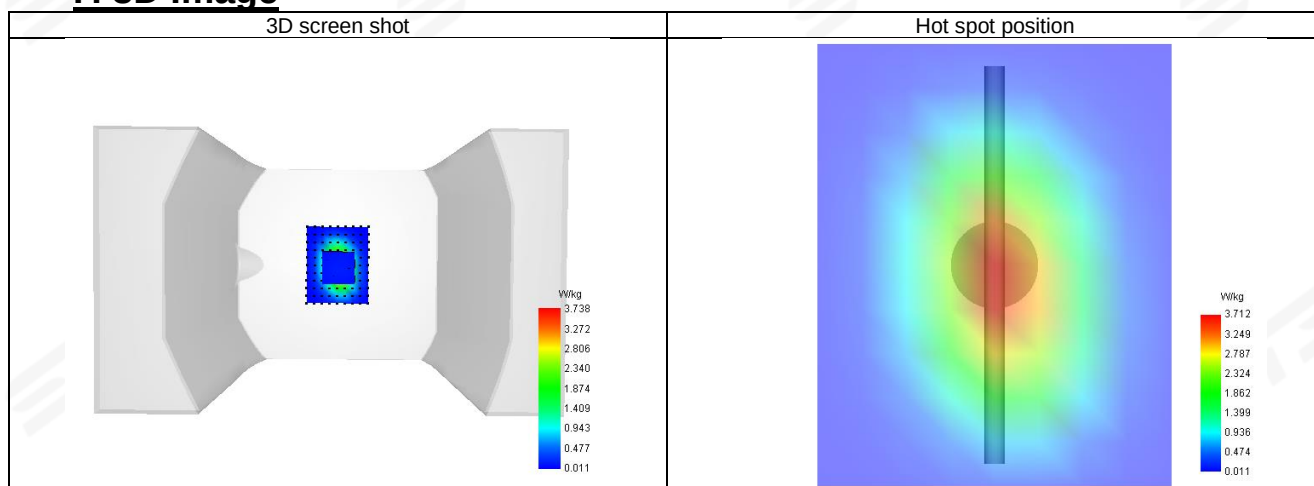
SAR 10g (W/Kg)	1.975
SAR 1g (W/Kg)	3.815
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.587288

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.896	3.738	2.078	1.243	0.722	0.419	0.244



F. 3D Image



**System Performance Check Data (1900MHz)**

Type: Phone measurement (Complete)

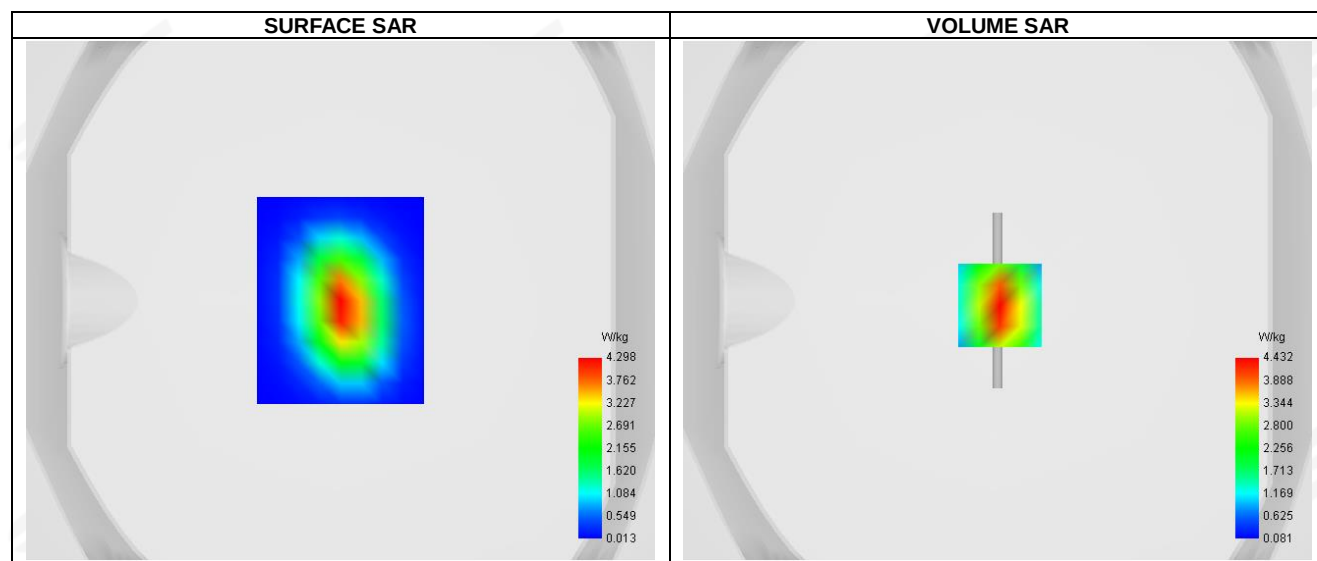
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-13

Experimental conditions.

Device Position	Validation plane
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	40.86
Conductivity (S/m)	1.42
Probe	SN 08/21 EPG0352
ConvF	1.73
Crest factor:	1:1



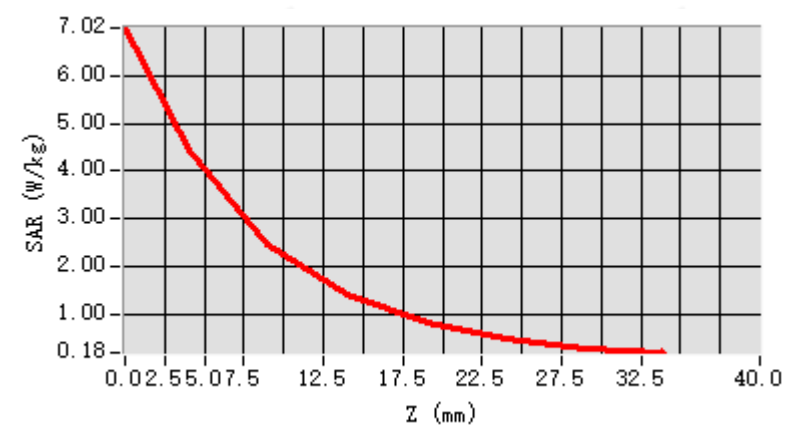
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 6.97 W/kg

D. SAR 1g & 10g

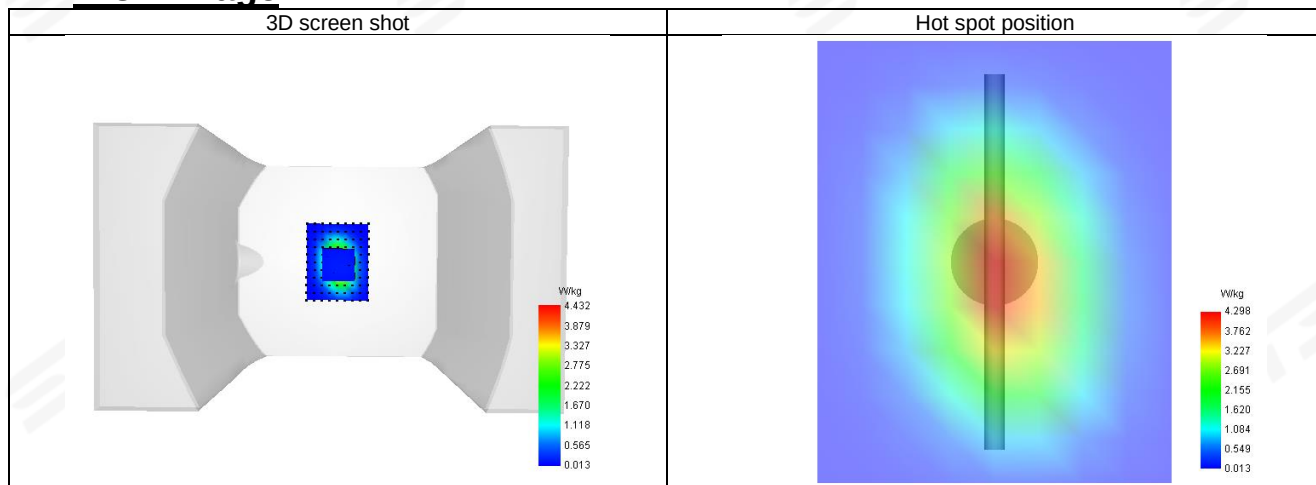
SAR 10g (W/Kg)	2.061
SAR 1g (W/Kg)	4.040
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.438103

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.015	4.432	2.457	1.403	0.830	0.477	0.274



F. 3D Image



**System Performance Check Data (2450MHz)**

Type: Phone measurement (Complete)

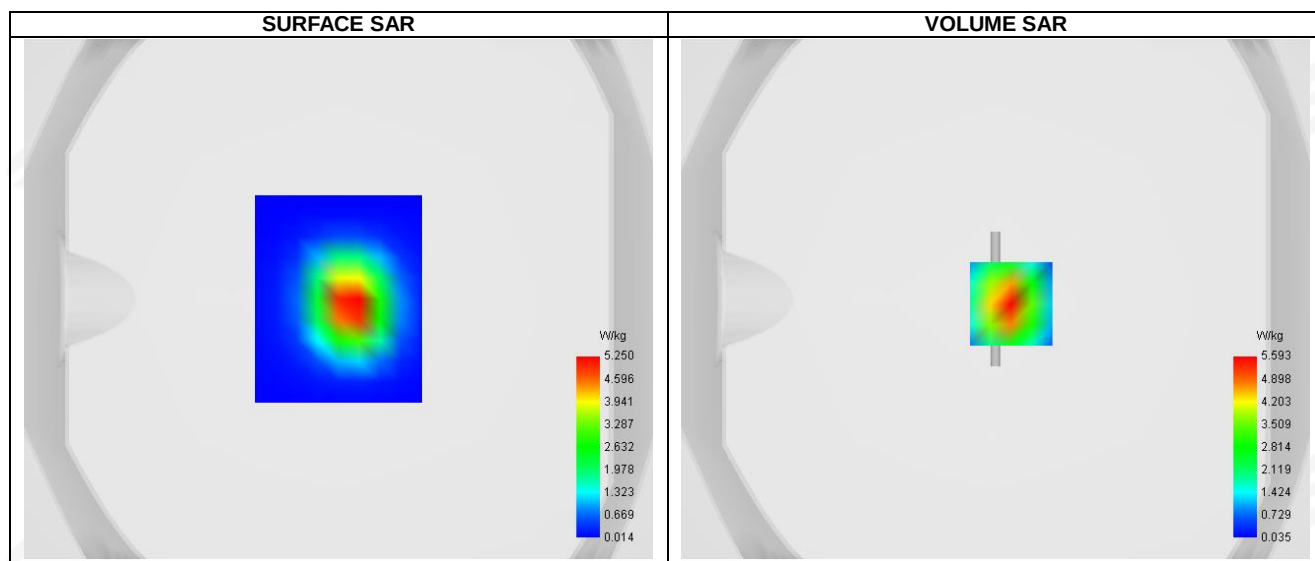
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-17

Experimental conditions.

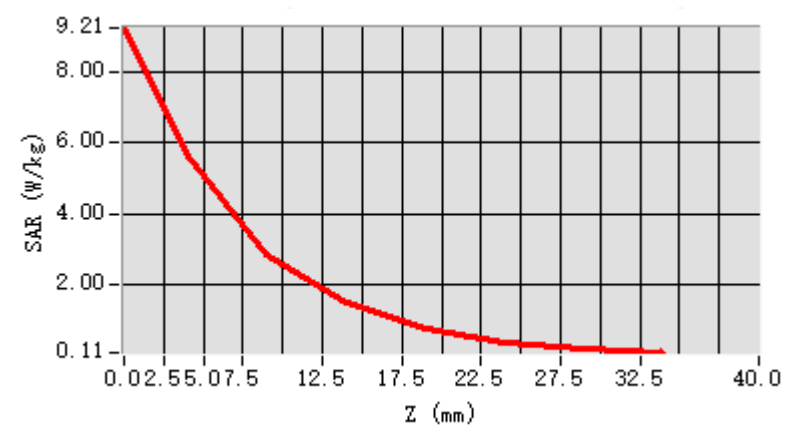
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.55
Conductivity (S/m)	1.80
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1

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

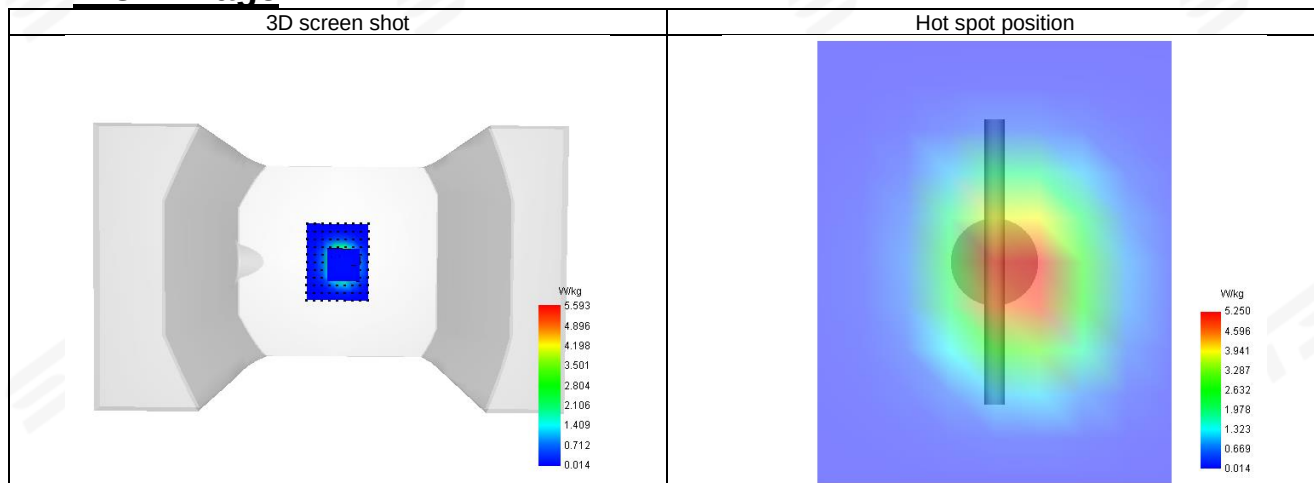
SAR 10g (W/Kg)	2.426
SAR 1g (W/Kg)	5.475
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.205640

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.208	5.593	2.864	1.497	0.776	0.402	0.208



F. 3D Image



**System Performance Check Data (2600MHz)**

Type: Phone measurement (Complete)

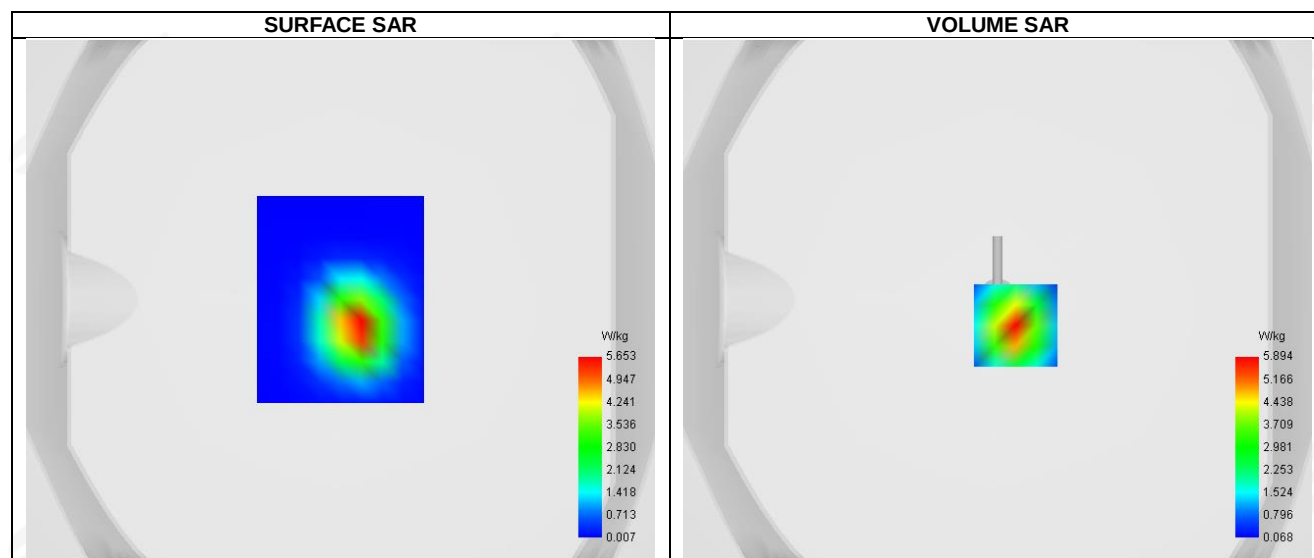
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-17

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.05
Conductivity (S/m)	1.96
Probe	SN 08/21 EPG0352
ConvF	1.70
Crest factor:	1:1



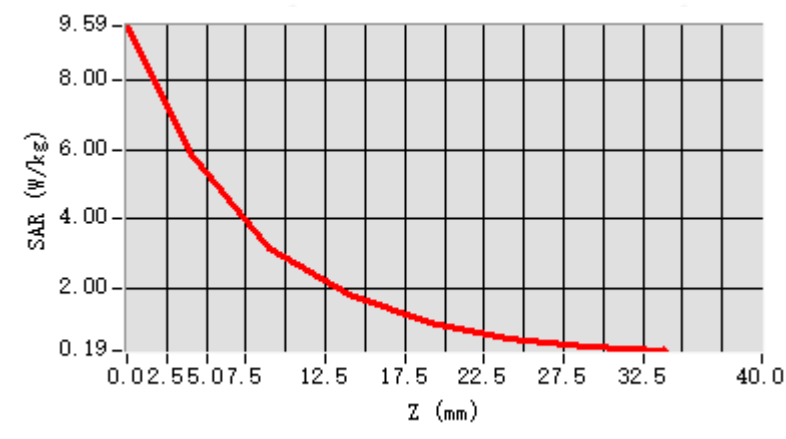
Maximum location: X=7.00, Y=-10.00 ; SAR Peak: 9.50 W/kg

D. SAR 1g & 10g

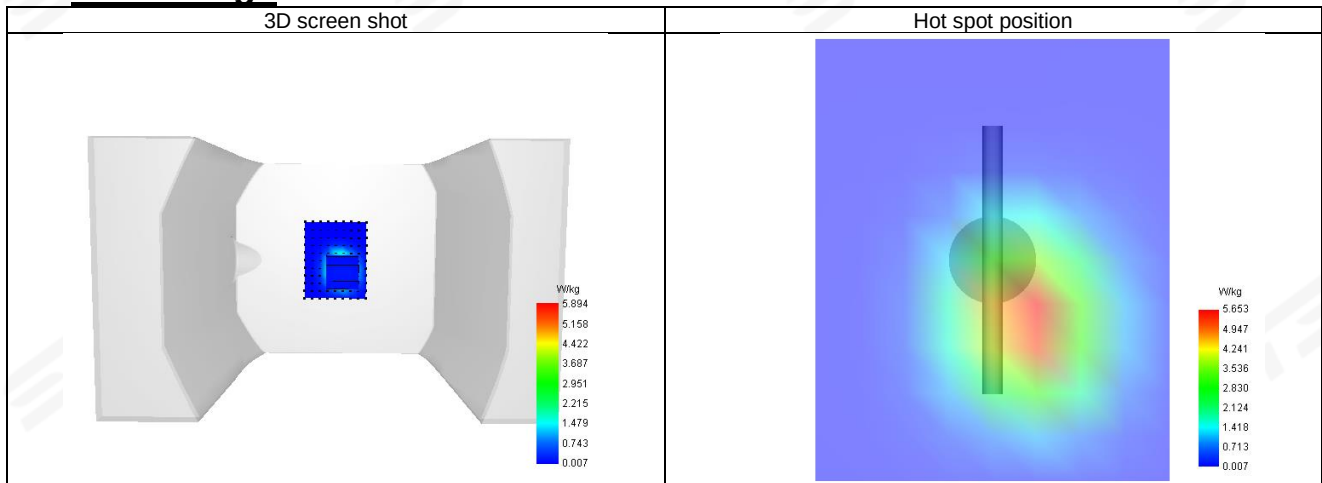
SAR 10g (W/Kg)	2.456
SAR 1g (W/Kg)	5.664
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	52.980037

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.590	5.894	3.123	1.808	1.009	0.563	0.315



F. 3D Image



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

Type: Phone measurement (Complete)

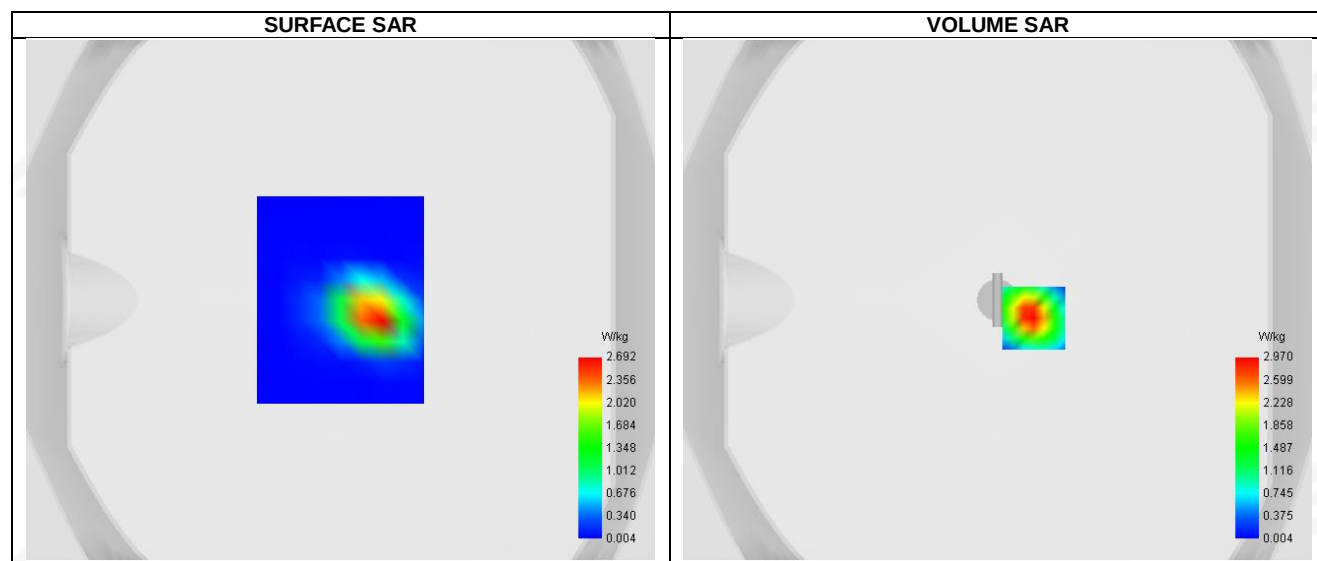
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-20

Experimental conditions.

Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	35.90
Conductivity (S/m)	4.67
Probe	SN 08/21 EPG0352
ConvF	1.37
Crest factor:	1:1



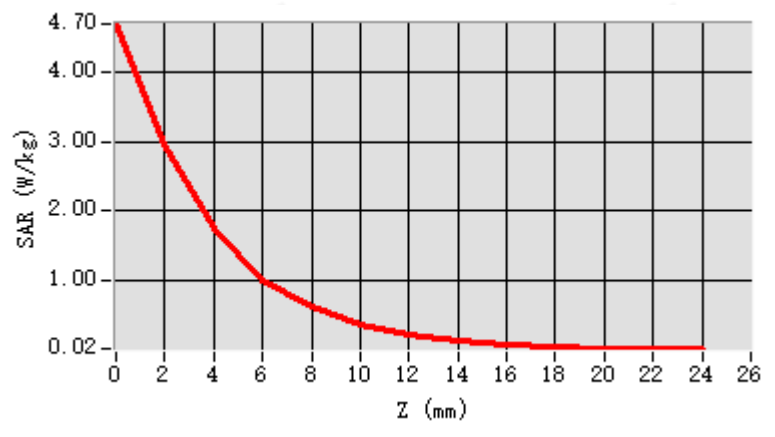
Maximum location: X=14.00, Y=-7.00 ; SAR Peak: 4.87 W/kg

D. SAR 1g & 10g

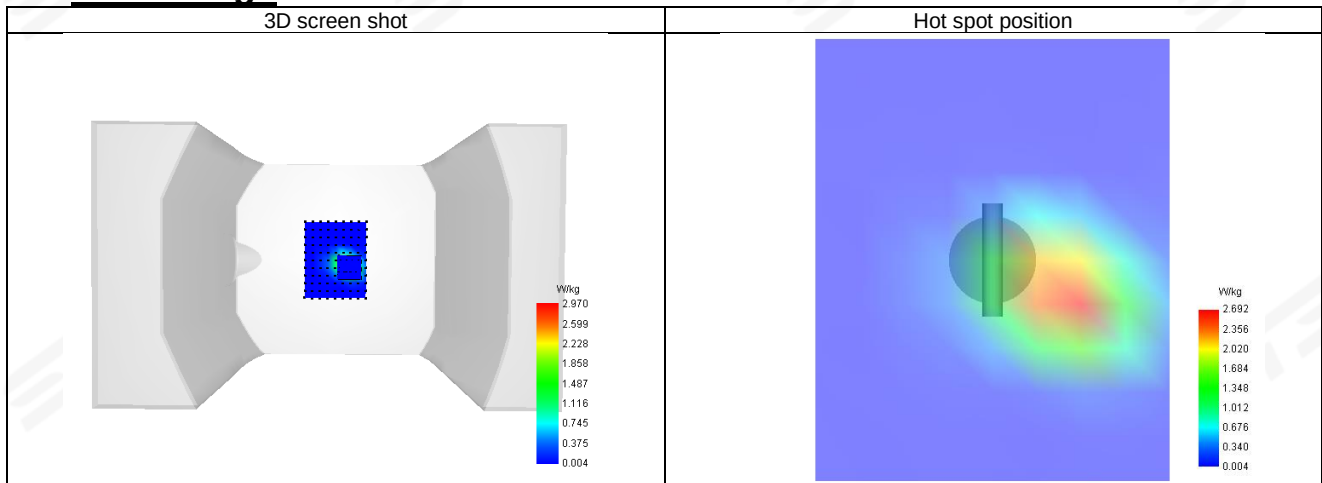
SAR 10g (W/Kg)	0.575
SAR 1g (W/Kg)	1.588
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	58.602946

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)	4.697	2.970	1.740	0.994	0.618	0.368	0.219	0.130	0.078	0.046	0.027	0.016



F. 3D Image



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

Type: Phone measurement (Complete)

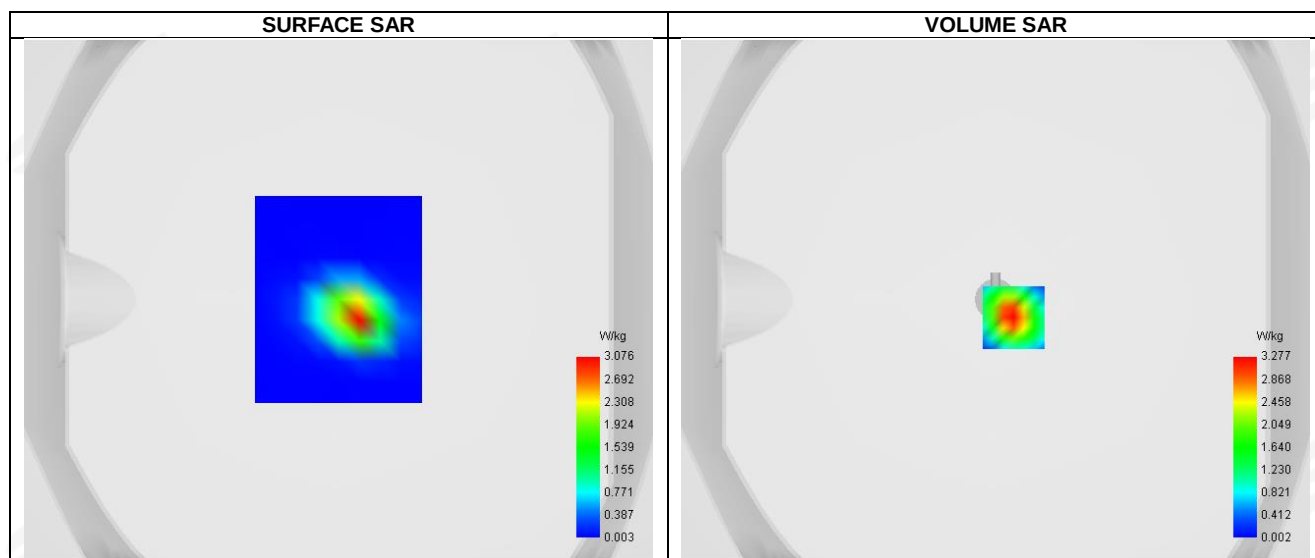
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-12-20

Experimental conditions.

Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	35.04
Conductivity (S/m)	5.27
Probe	SN 08/21 EPG0352
ConvF	1.32
Crest factor:	1:1



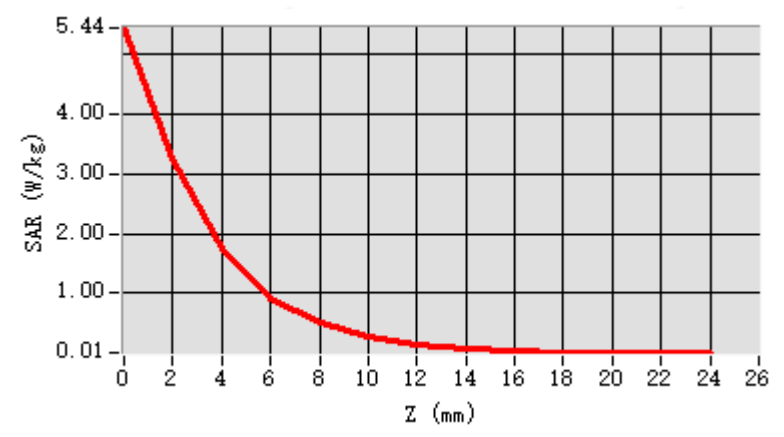
Maximum location: X=7.00, Y=-7.00 ; SAR Peak: 5.72 W/kg

D. SAR 1g & 10g

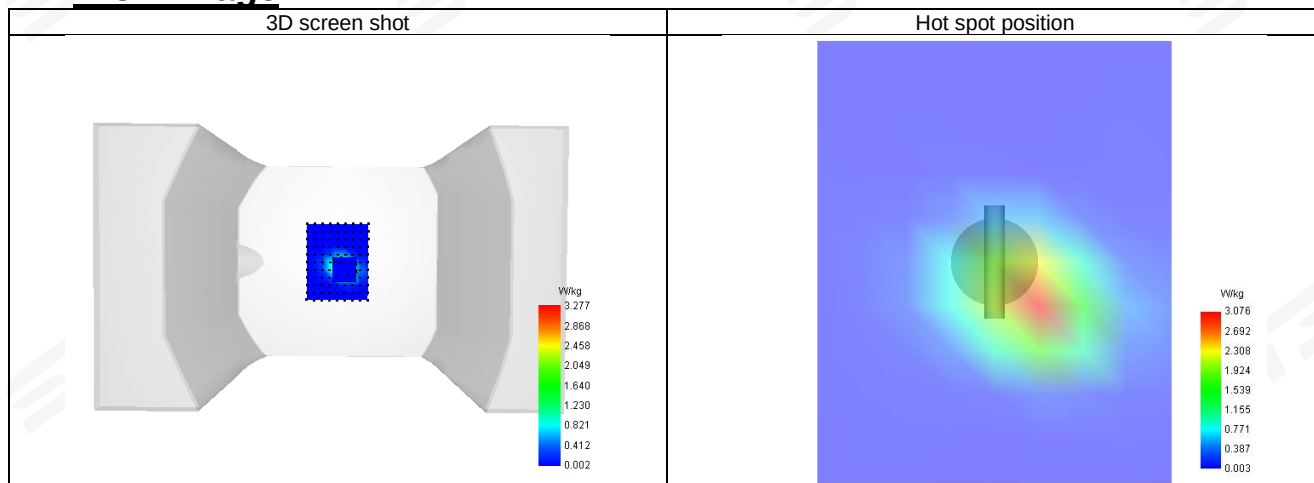
SAR 10g (W/Kg)	0.661
SAR 1g (W/Kg)	1.977
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	53.356516

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)	5.441	3.277	1.748	0.902	0.510	0.275	0.148	0.080	0.043	0.023	0.013	0.007



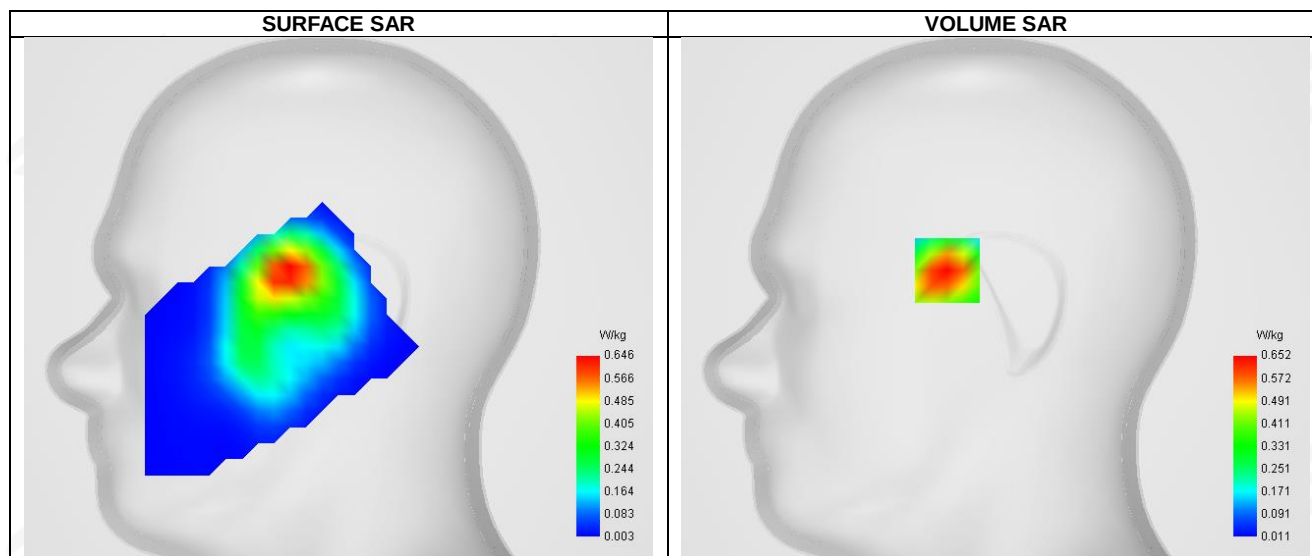
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	GSM900
Signal	TDMA (Crest factor: 8.32)
Frequency	897.4



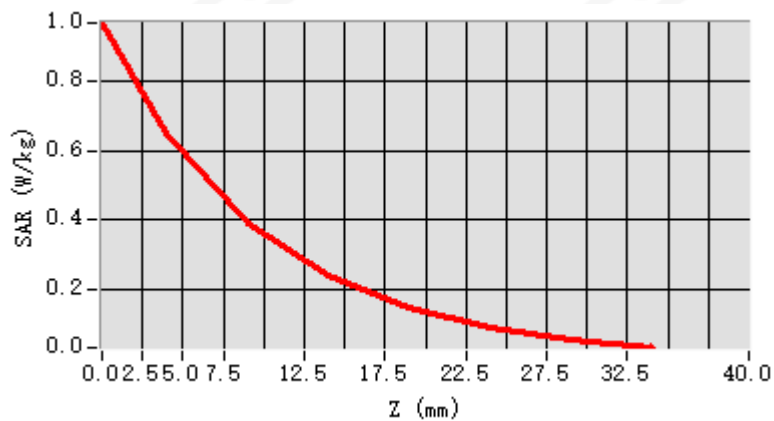
Maximum location: X=-24.00, Y=14.00 ; SAR Peak: 0.97 W/kg

D. SAR 1g & 10g

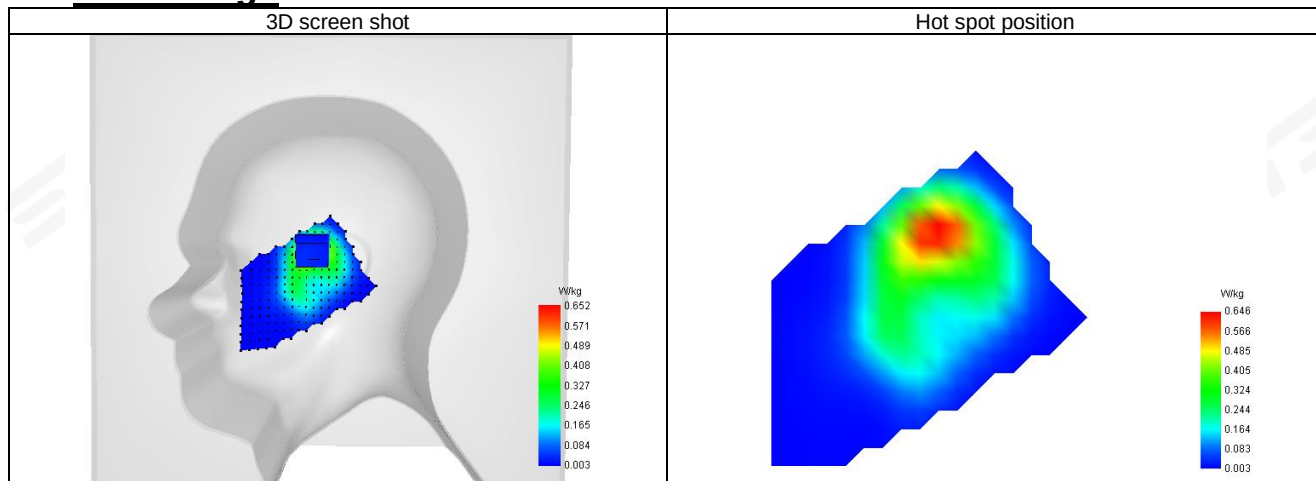
SAR 10g (W/Kg)	0.355
SAR 1g (W/Kg)	0.620
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.413672

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.966	0.652	0.394	0.240	0.148	0.090	0.055



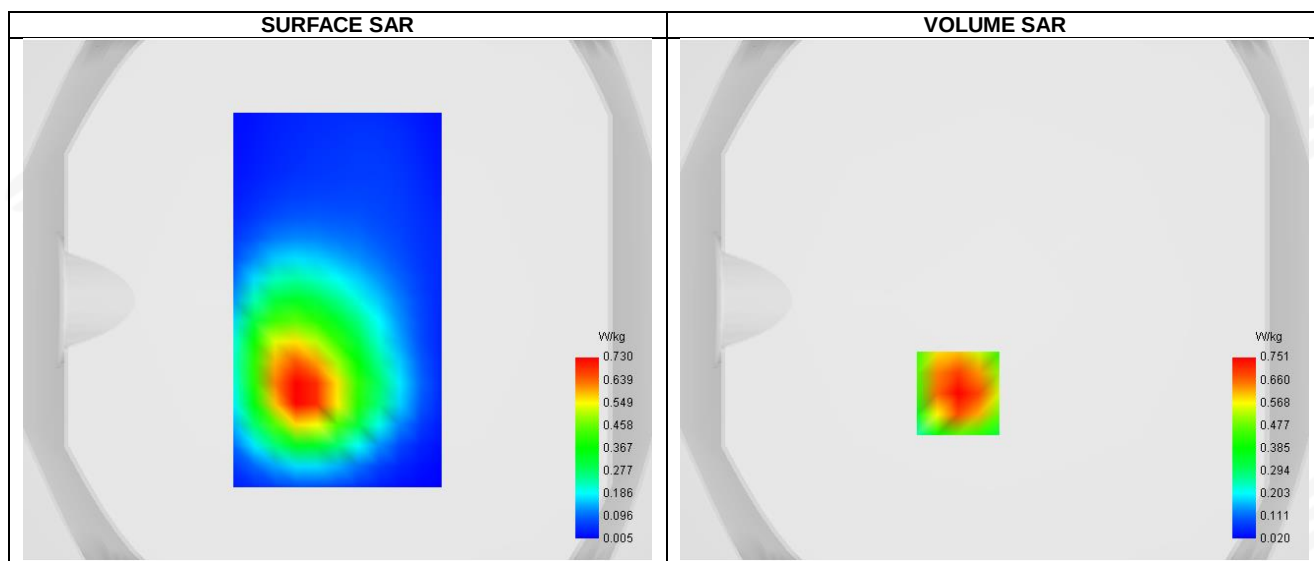
F. 3D Image





Plot 2: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-14
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs&Limbs
Device Position	Back Side
Band	GPRS900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	880.2

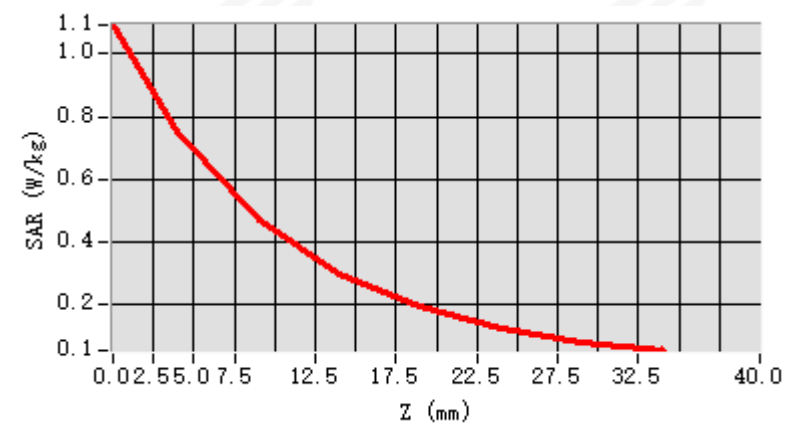


D. SAR 1g & 10g

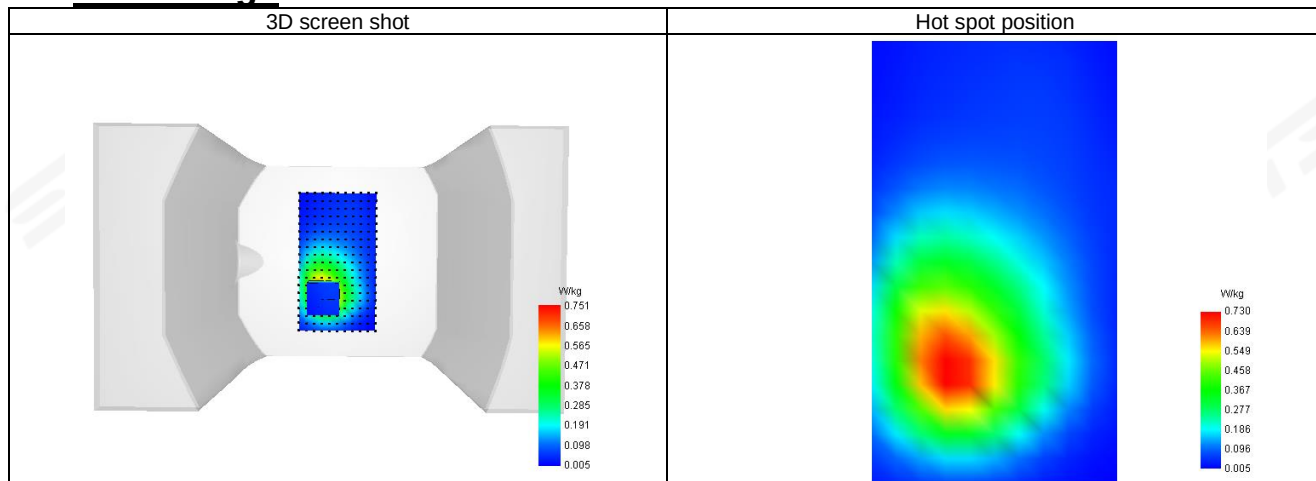
SAR 10g (W/Kg)	0.434
SAR 1g (W/Kg)	0.722
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.844776

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.091	0.751	0.472	0.300	0.197	0.127	0.081

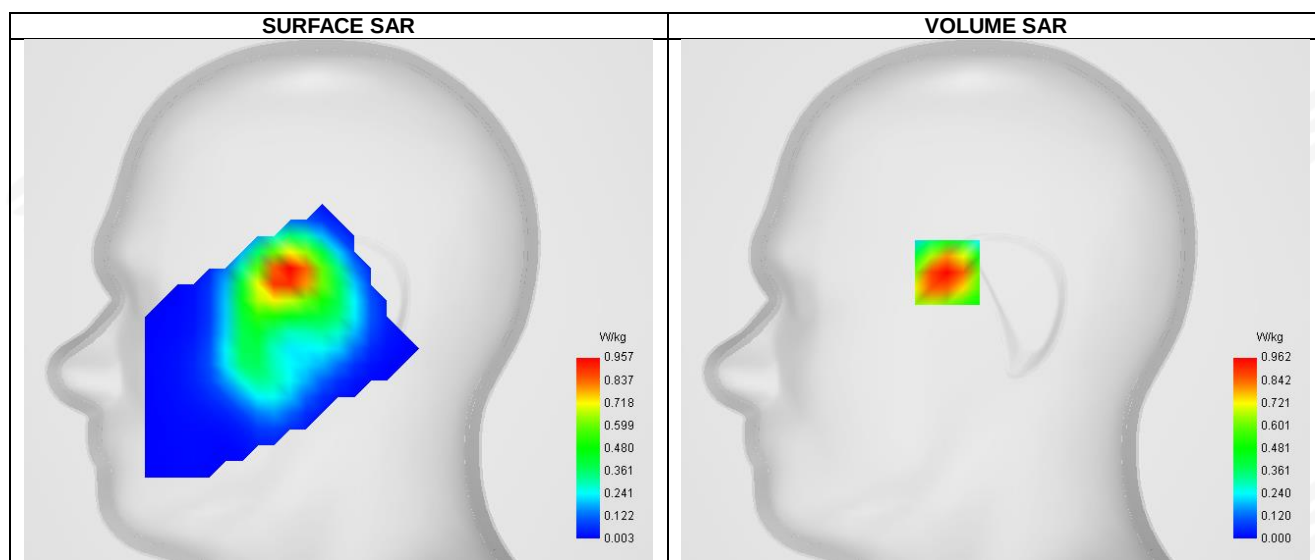


F. 3D Image



Plot 3: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.54
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	GSM1800
Signal	TDMA (Crest factor: 8.32)
Frequency	1784.8



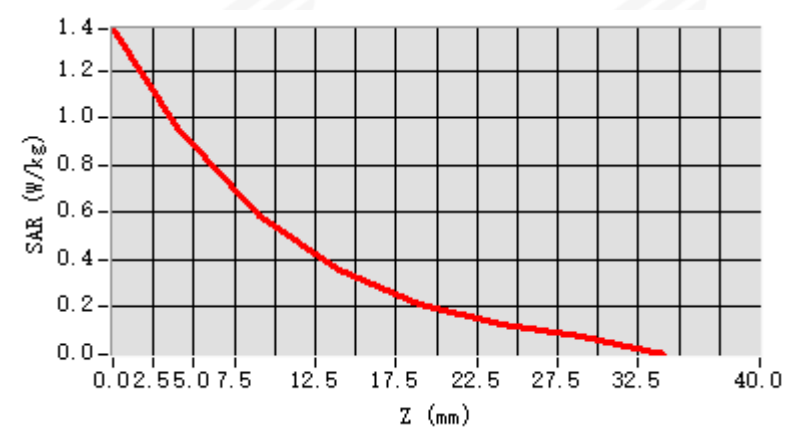
Maximum location: X=-24.00, Y=14.00 ; SAR Peak: 1.38 W/kg

D. SAR 1g & 10g

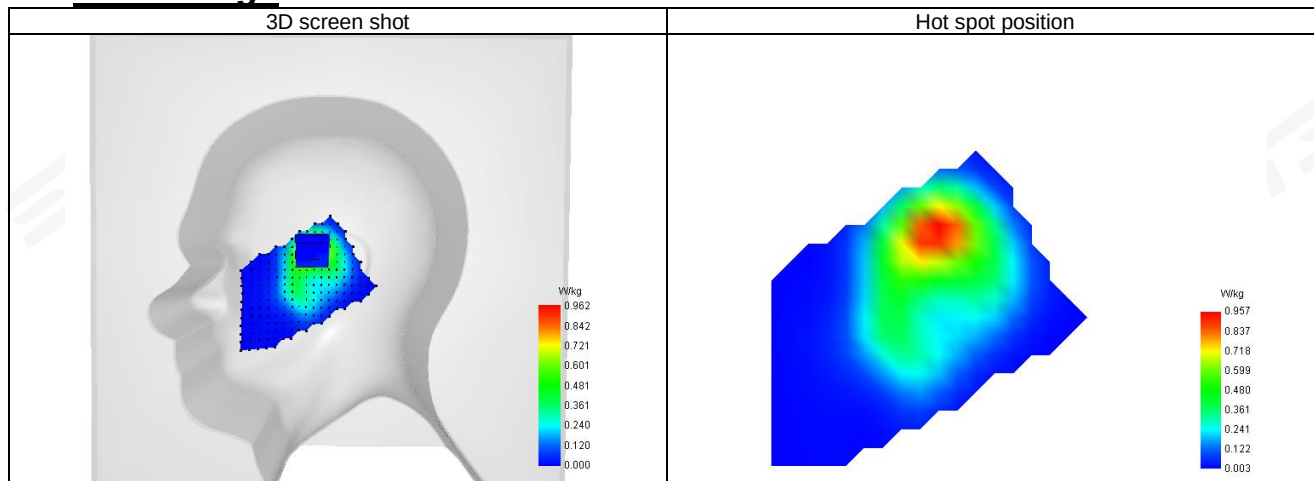
SAR 10g (W/Kg)	0.516
SAR 1g (W/Kg)	0.901
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.195449

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.377	0.962	0.589	0.360	0.216	0.131	0.080



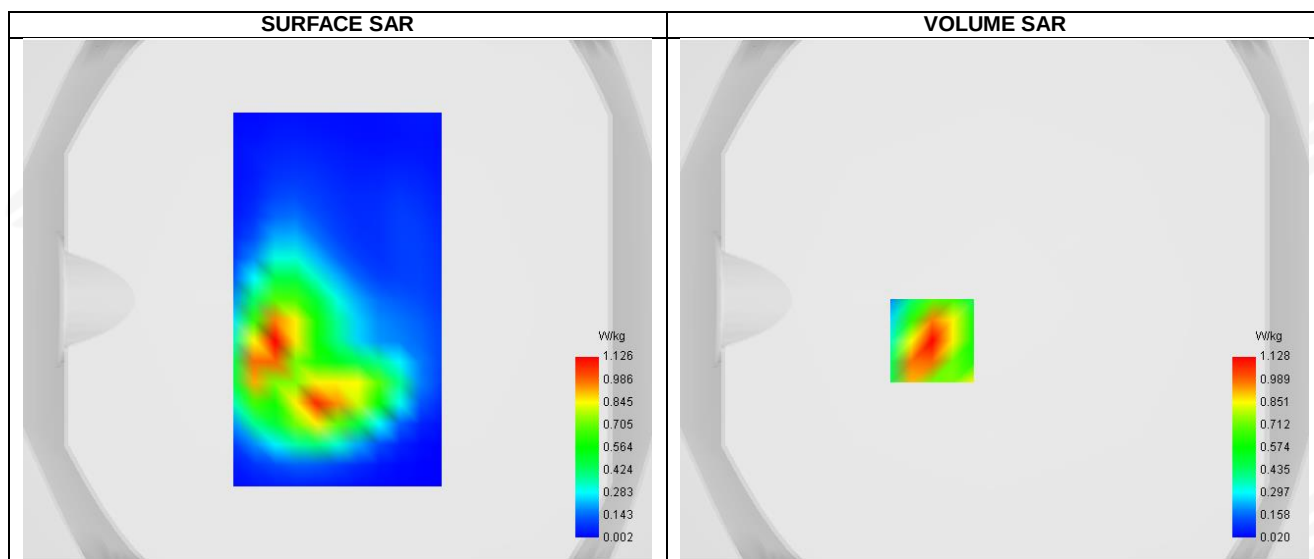
F. 3D Image





Plot 4: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.54
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	GPRS1800
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	1710.2



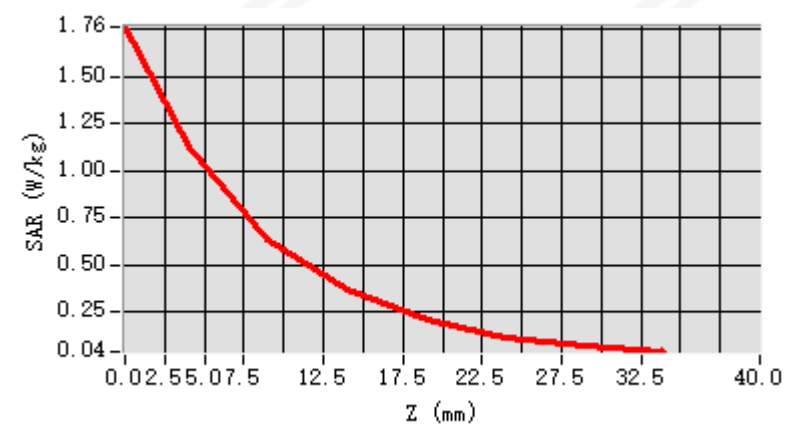
Maximum location: X=-24.00, Y=-16.00 ; SAR Peak: 1.75 W/kg

D. SAR 1g & 10g

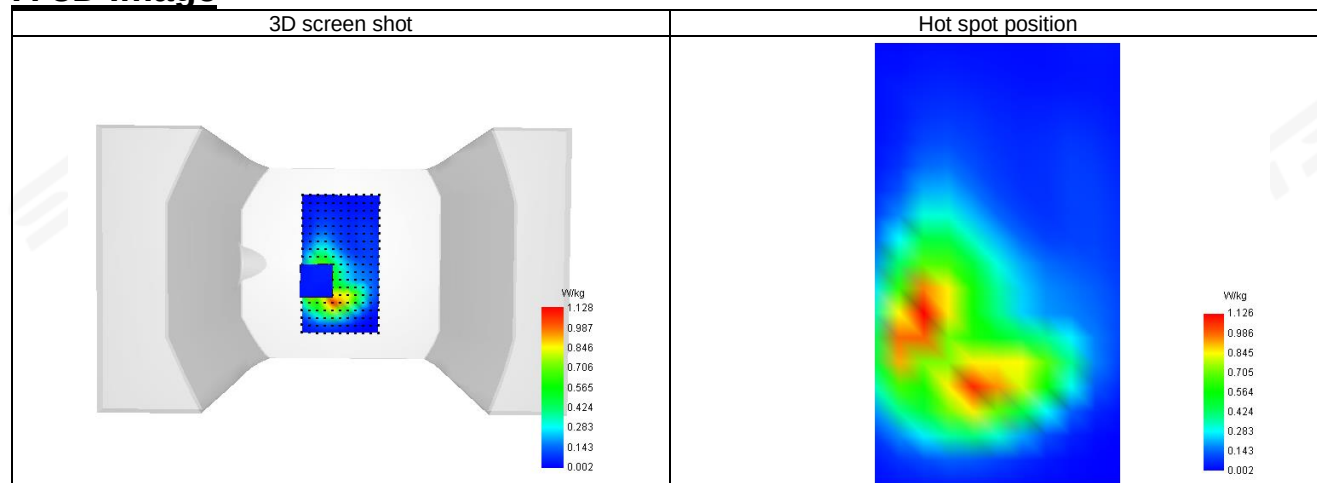
SAR 10g (W/Kg)	0.553
SAR 1g (W/Kg)	1.050
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.205649

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.760	1.128	0.634	0.367	0.213	0.123	0.071

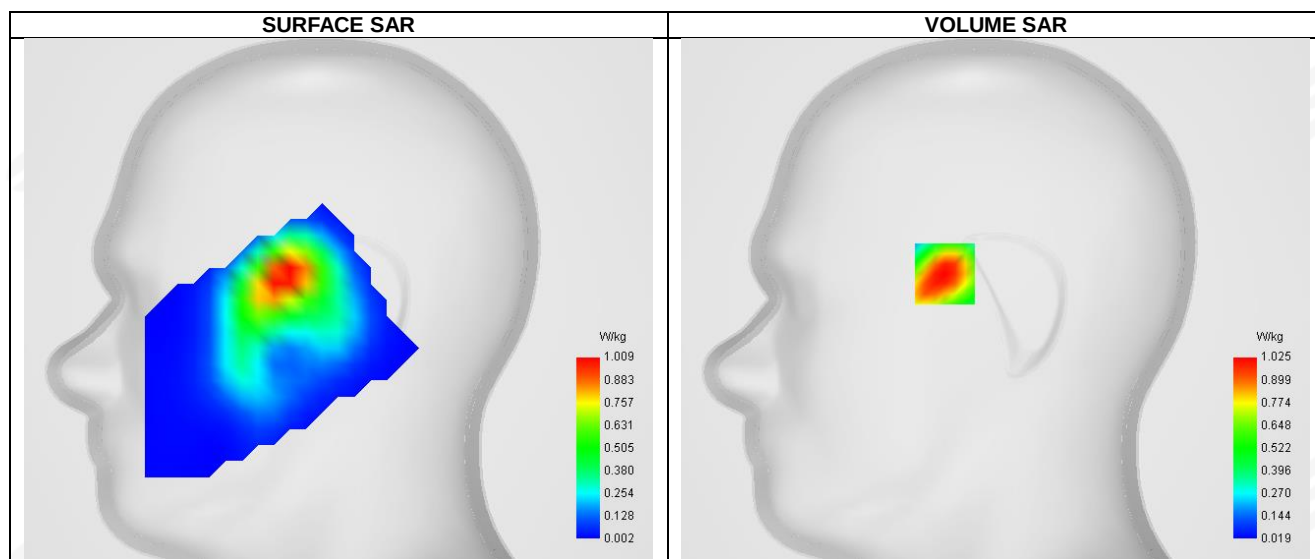


F. 3D Image



Plot 5: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.73
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1950



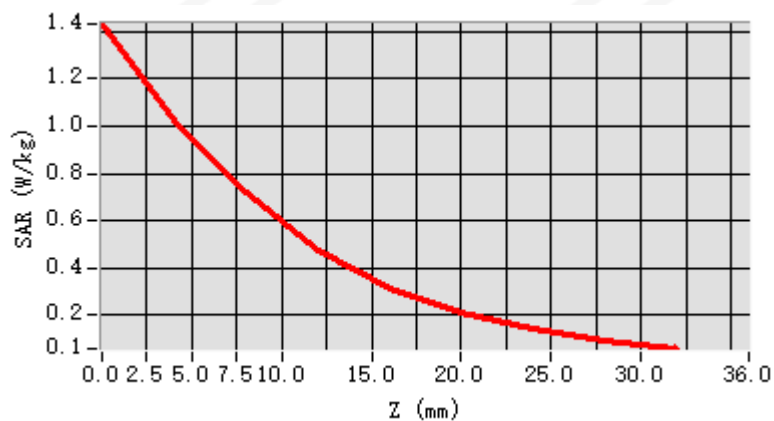
Maximum location: X=-25.00, Y=13.00 ; SAR Peak: 1.49 W/kg

D. SAR 1g & 10g

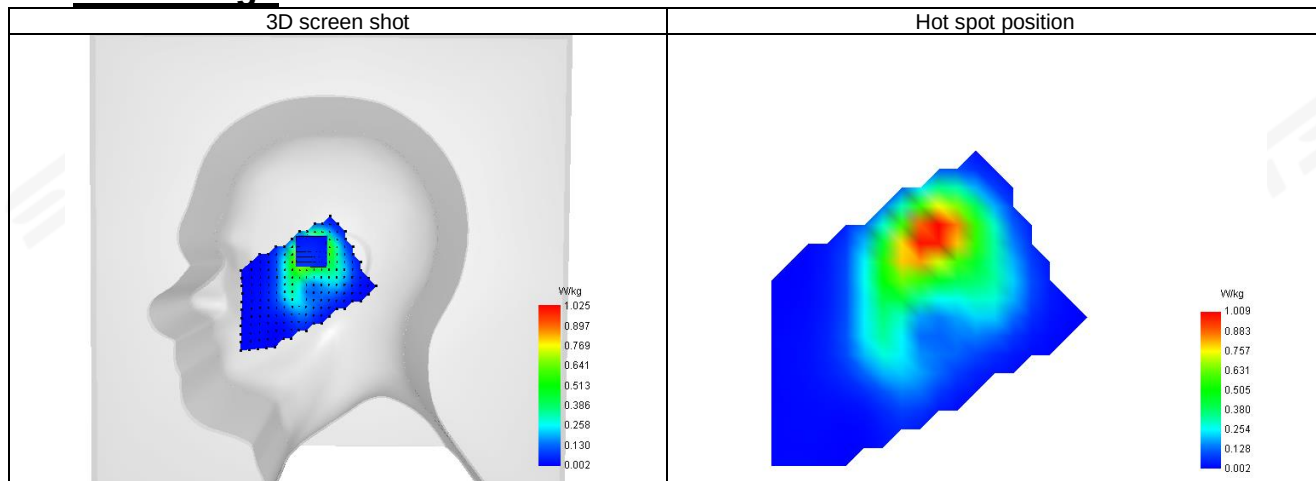
SAR 10g (W/Kg)	0.546
SAR 1g (W/Kg)	0.958
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	69.980054

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	1.430	1.025	0.717	0.477	0.317	0.213	0.143	0.096



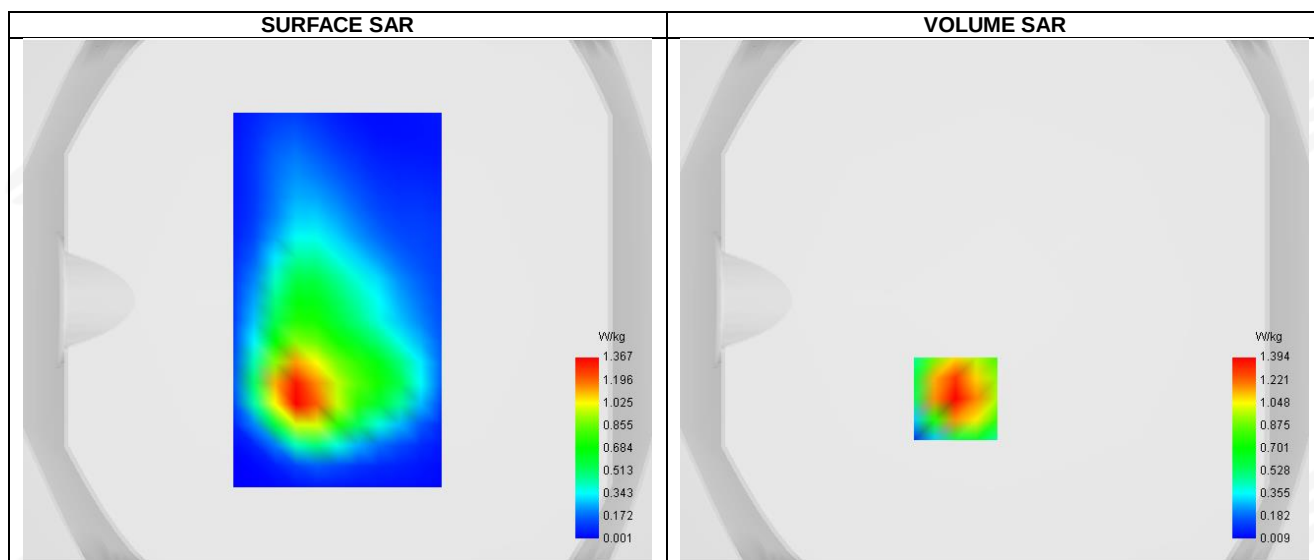
F. 3D Image





Plot 6: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.73
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1950



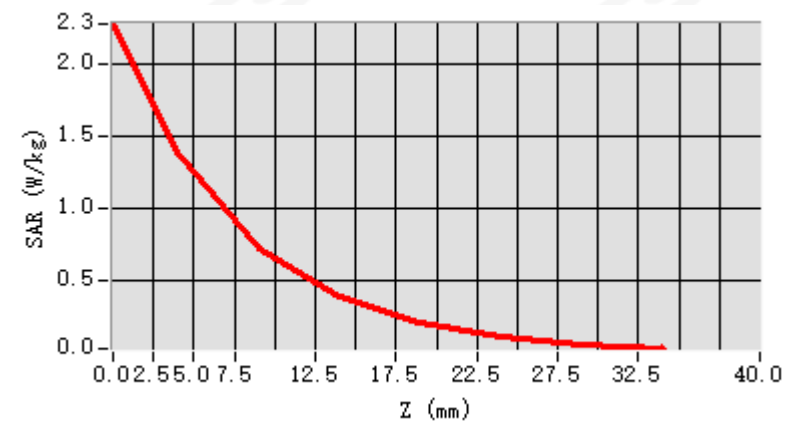
Maximum location: X=-15.00, Y=-38.00 ; SAR Peak: 2.28 W/kg

D. SAR 1g & 10g

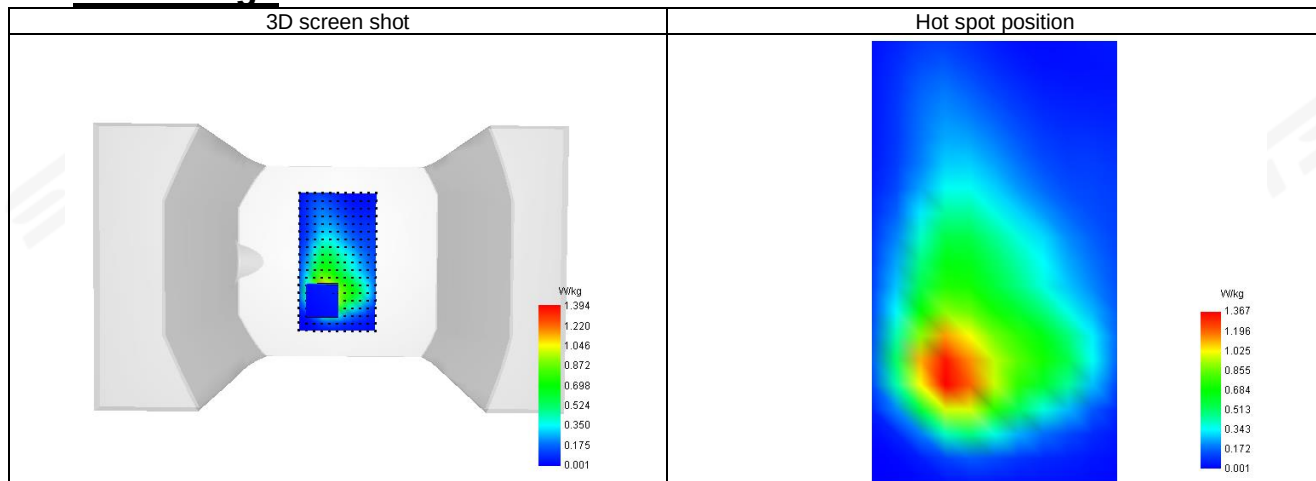
SAR 10g (W/Kg)	0.681
SAR 1g (W/Kg)	1.332
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.679746

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.283	1.394	0.724	0.394	0.210	0.112	0.060



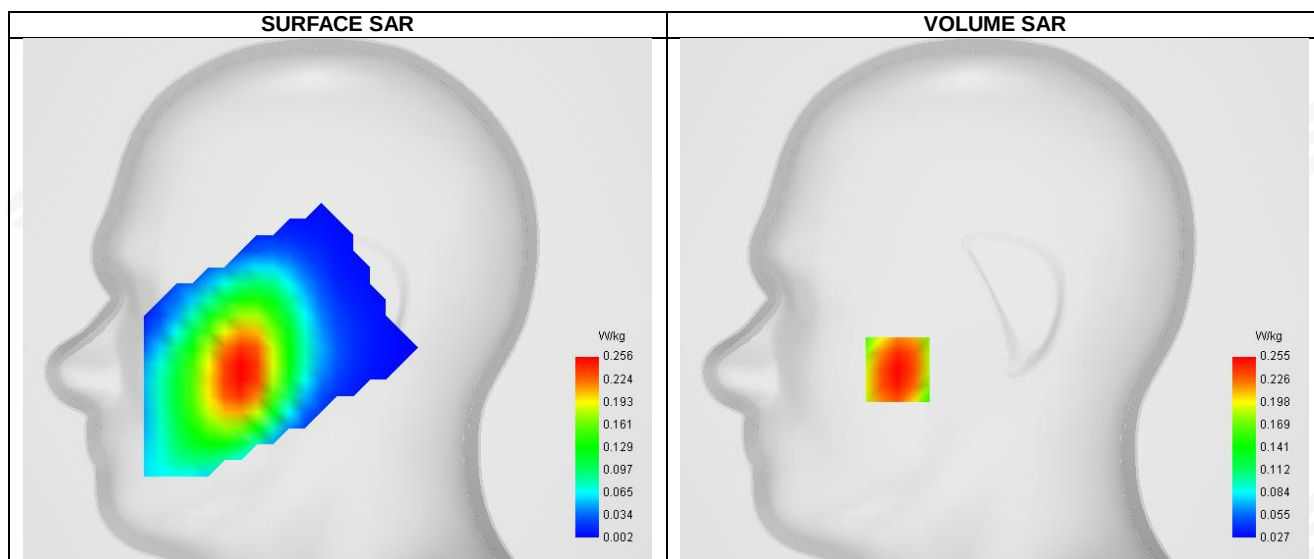
F. 3D Image





Plot 7: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.36
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	912.6



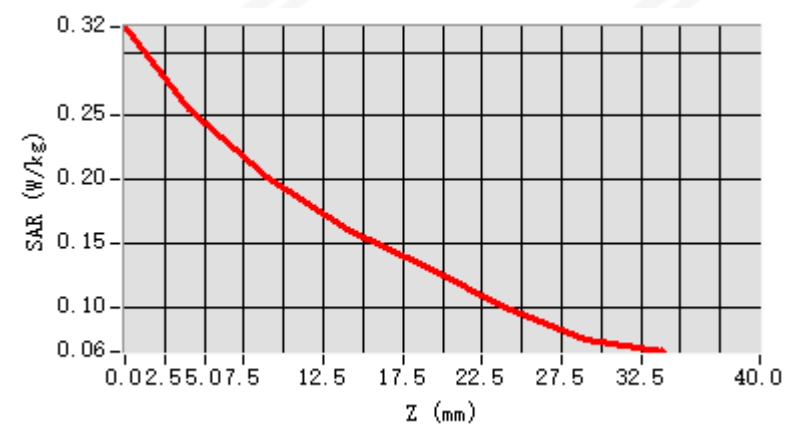
Maximum location: X=-48.00, Y=-35.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

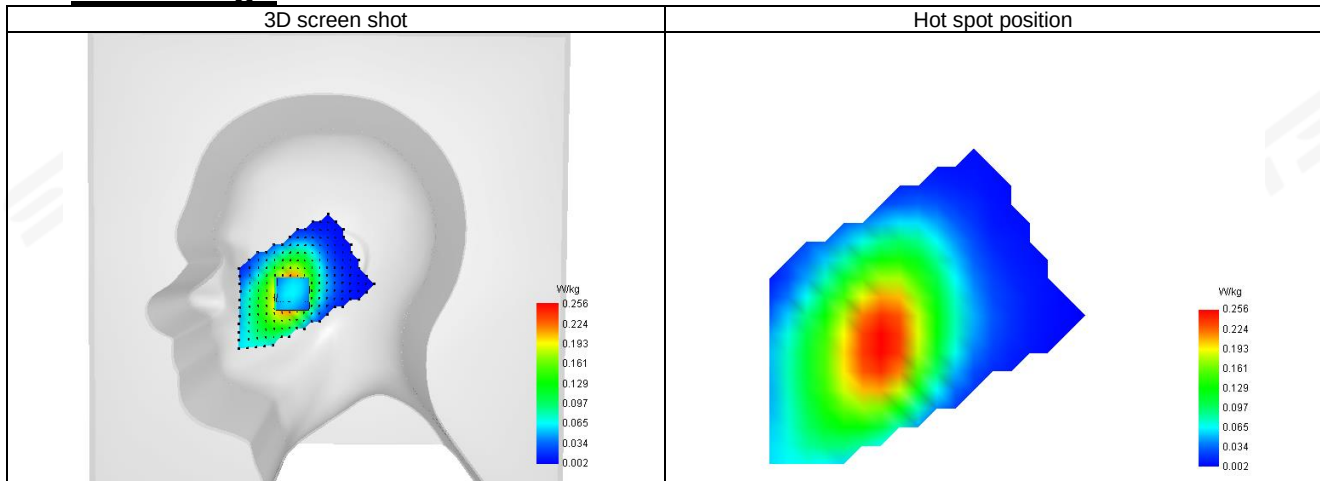
SAR 10g (W/Kg)	0.182
SAR 1g (W/Kg)	0.250
Horizontal validation criteria: minimum distance (mm)	13.269181
Vertical validation criteria: SAR ratio M2/M1 (%)	79.215668

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.320	0.255	0.202	0.161	0.131	0.099	0.074



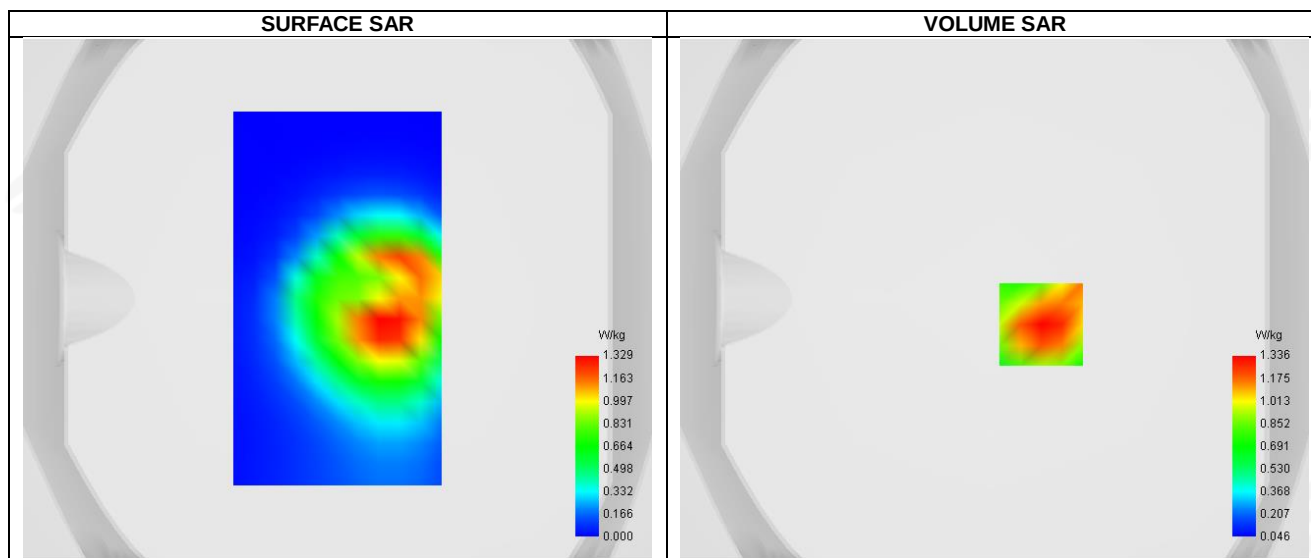
F. 3D Image





Plot 8: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.36
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	912.6



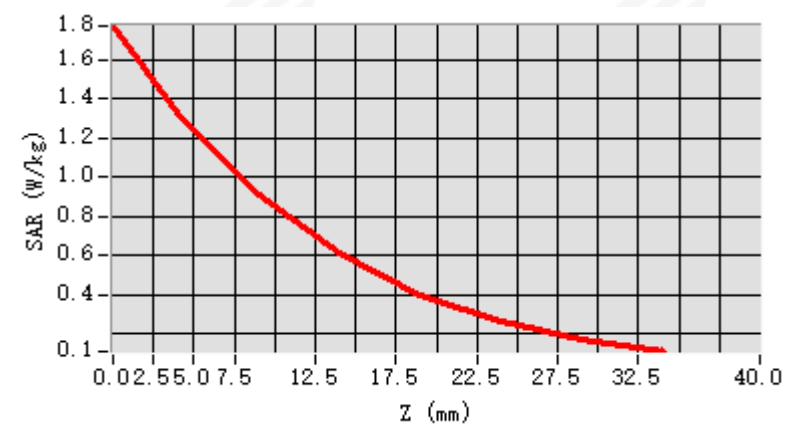
Maximum location: X=18.00, Y=-10.00 ; SAR Peak: 1.87 W/kg

D. SAR 1g & 10g

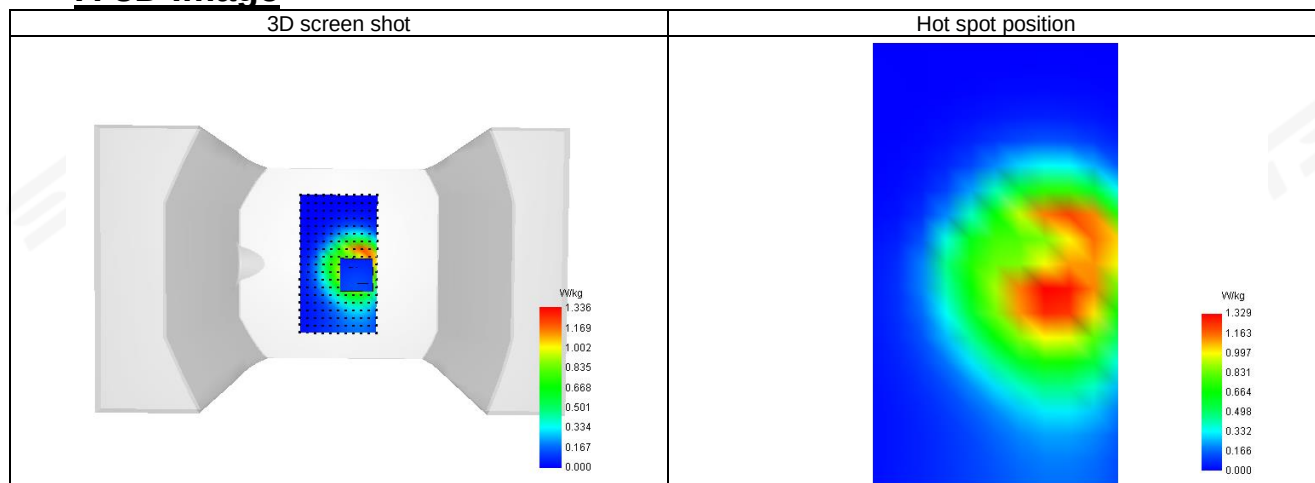
SAR 10g (W/Kg)	0.759
SAR 1g (W/Kg)	1.251
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	68.225190

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.773	1.336	0.912	0.608	0.396	0.263	0.175

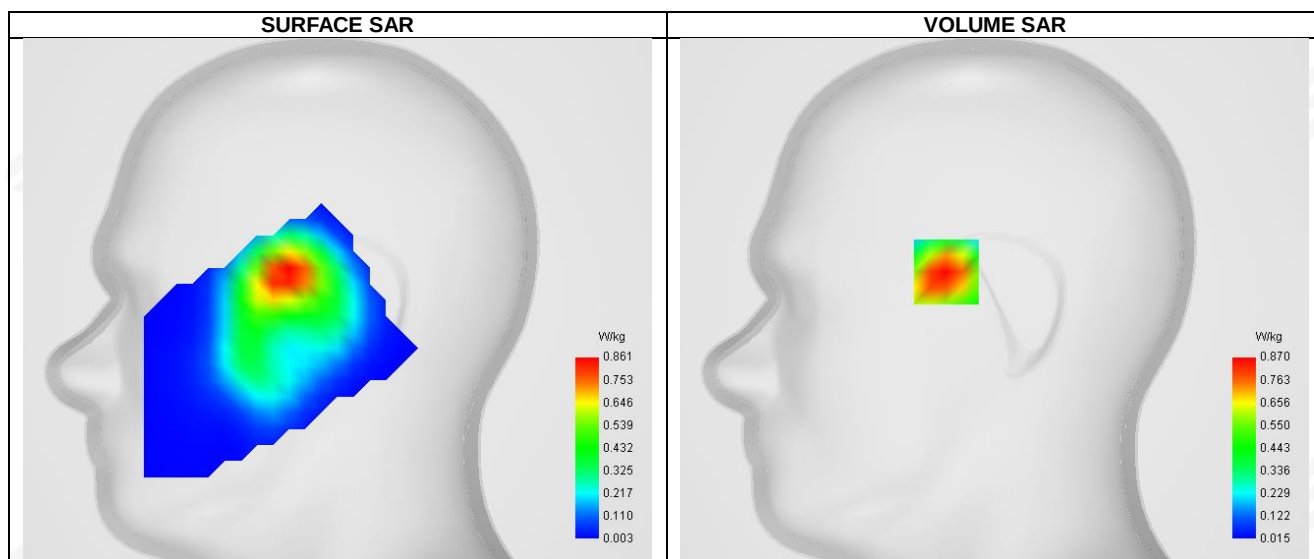


F. 3D Image



Plot 9: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.73
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1950

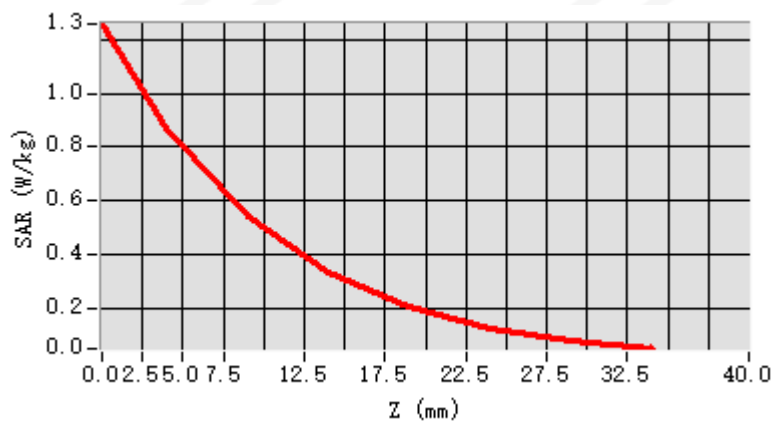


D. SAR 1g & 10g

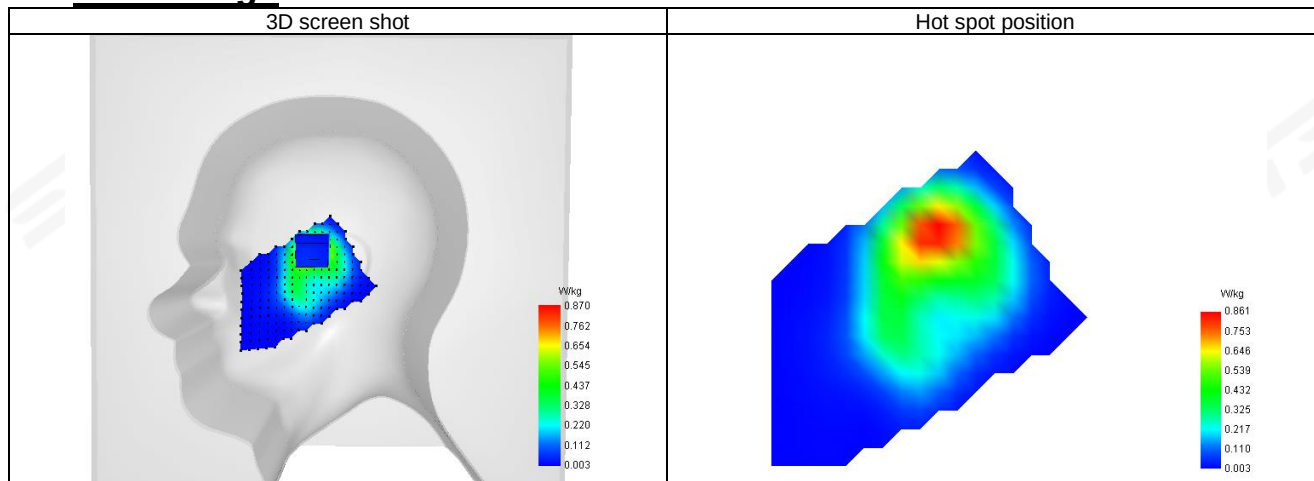
SAR 10g (W/Kg)	0.479
SAR 1g (W/Kg)	0.827
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.128330

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.259	0.870	0.541	0.329	0.206	0.127	0.079



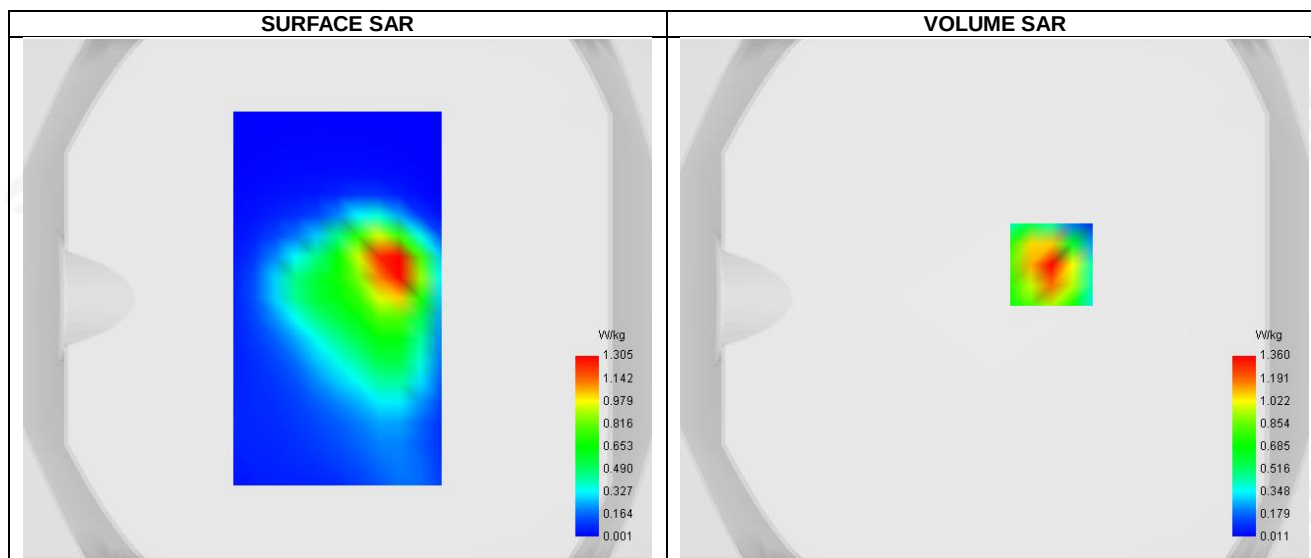
F. 3D Image





Plot 10: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.73
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1950



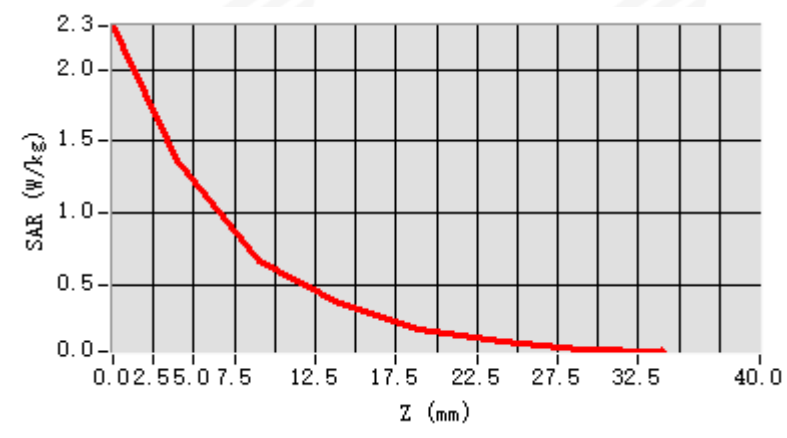
Maximum location: X=22.00, Y=13.00 ; SAR Peak: 2.29 W/kg

D. SAR 1g & 10g

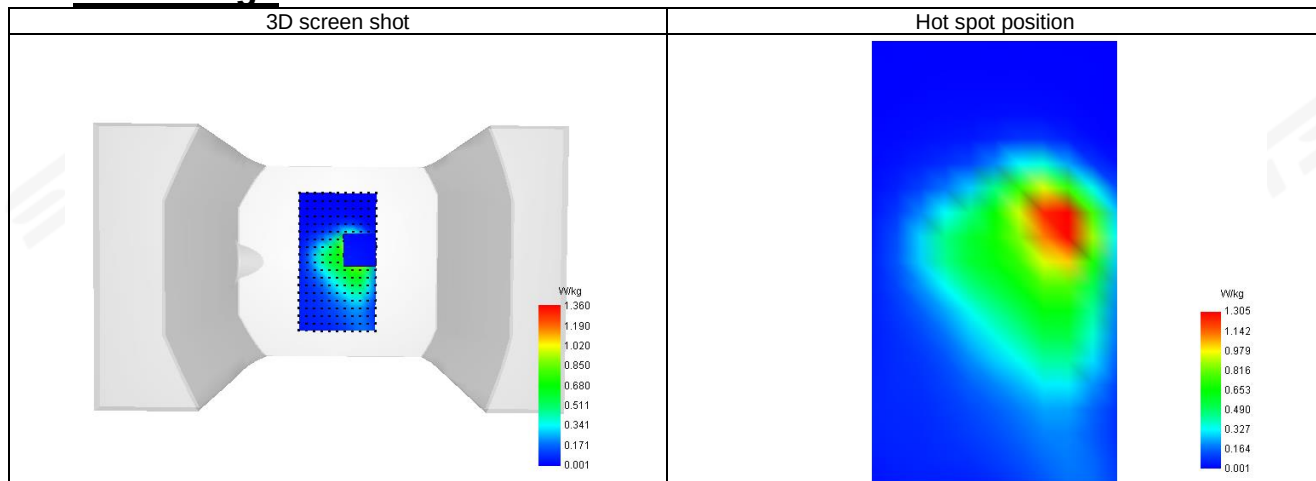
SAR 10g (W/Kg)	0.626
SAR 1g (W/Kg)	1.271
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.305092

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.307	1.360	0.670	0.364	0.190	0.099	0.052

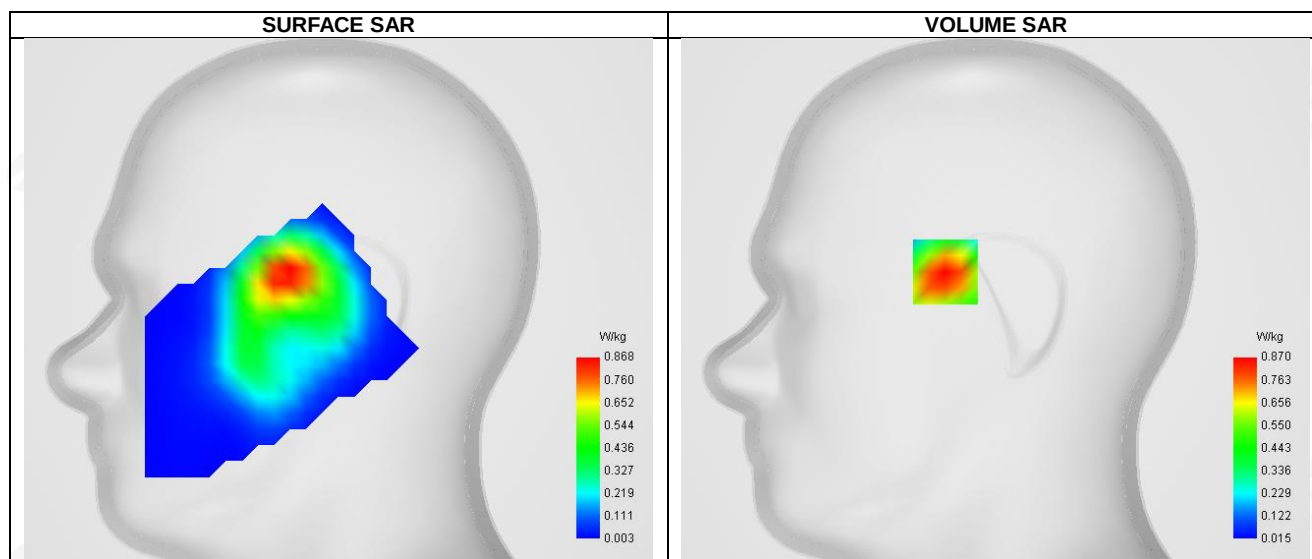


F. 3D Image



Plot 11: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.54
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1747.5



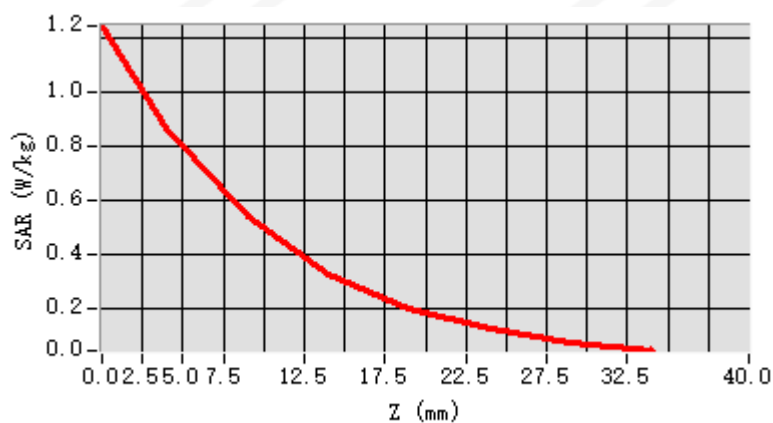
Maximum location: X=-25.00, Y=14.00 ; SAR Peak: 1.26 W/kg

D. SAR 1g & 10g

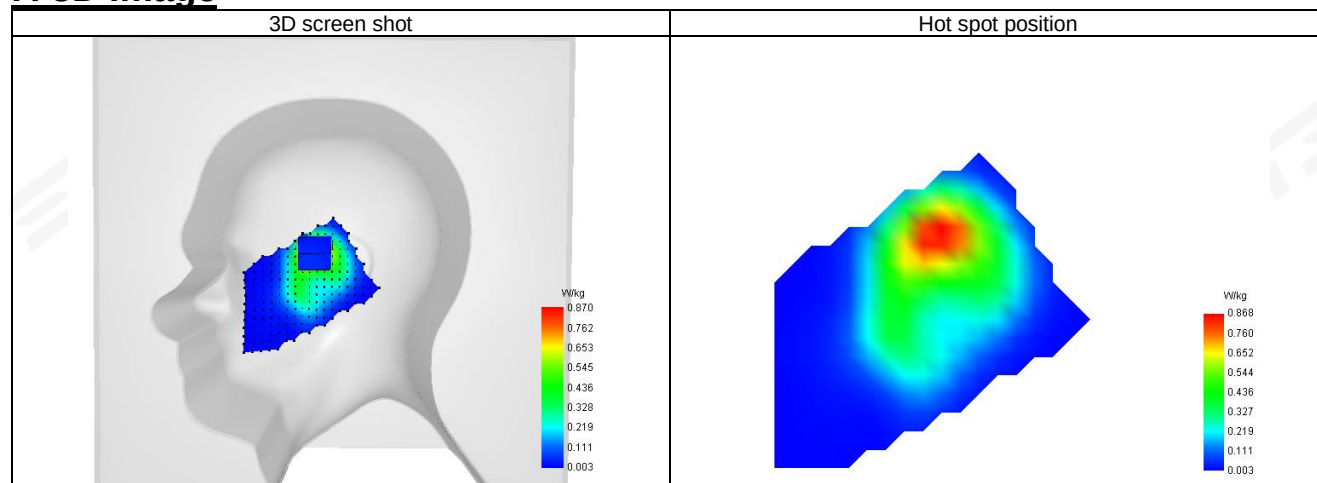
SAR 10g (W/Kg)	0.481
SAR 1g (W/Kg)	0.824
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.707306

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.244	0.870	0.546	0.331	0.205	0.127	0.078



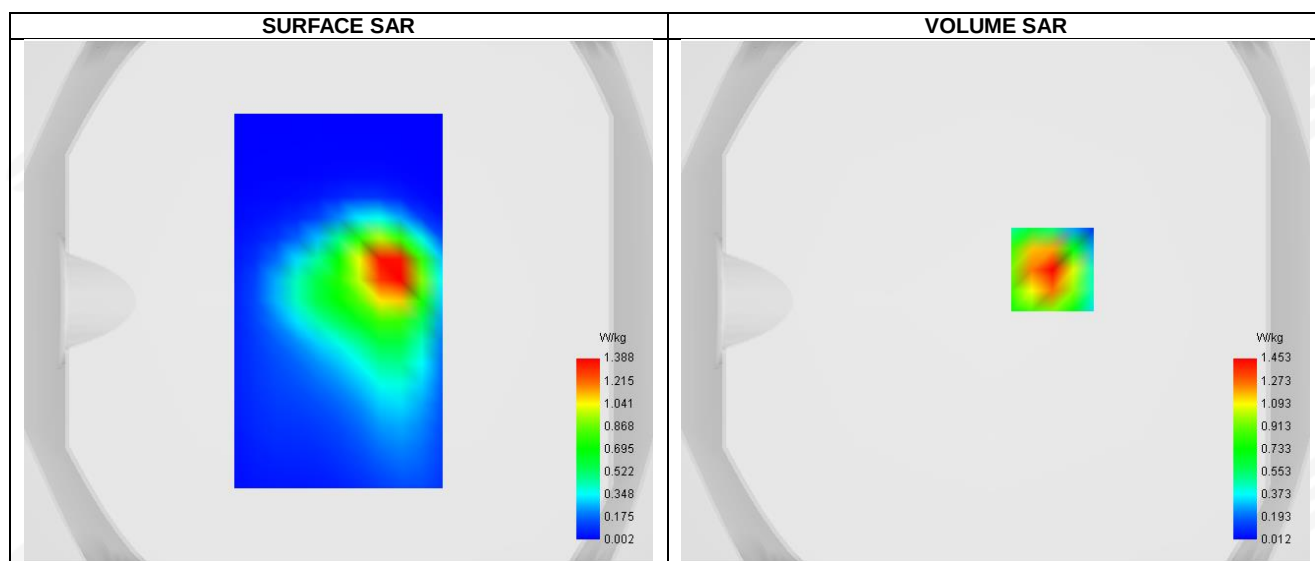
F. 3D Image





Plot 12: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-13
ConvF	1.54
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1747.5



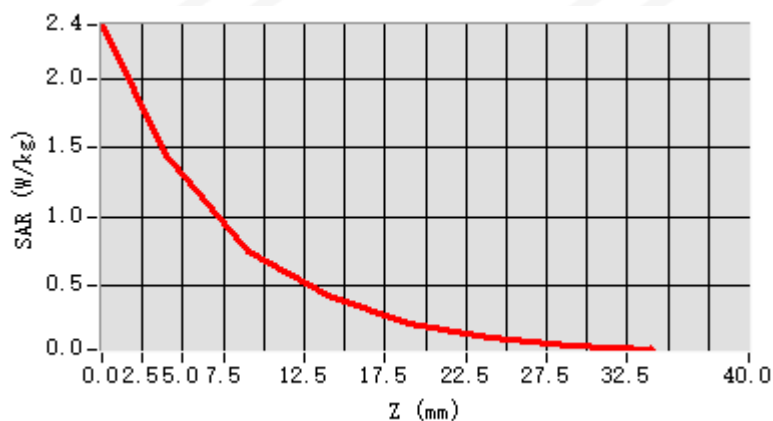
Maximum location: X=22.00, Y=12.00 ; SAR Peak: 2.41 W/kg

D. SAR 1g & 10g

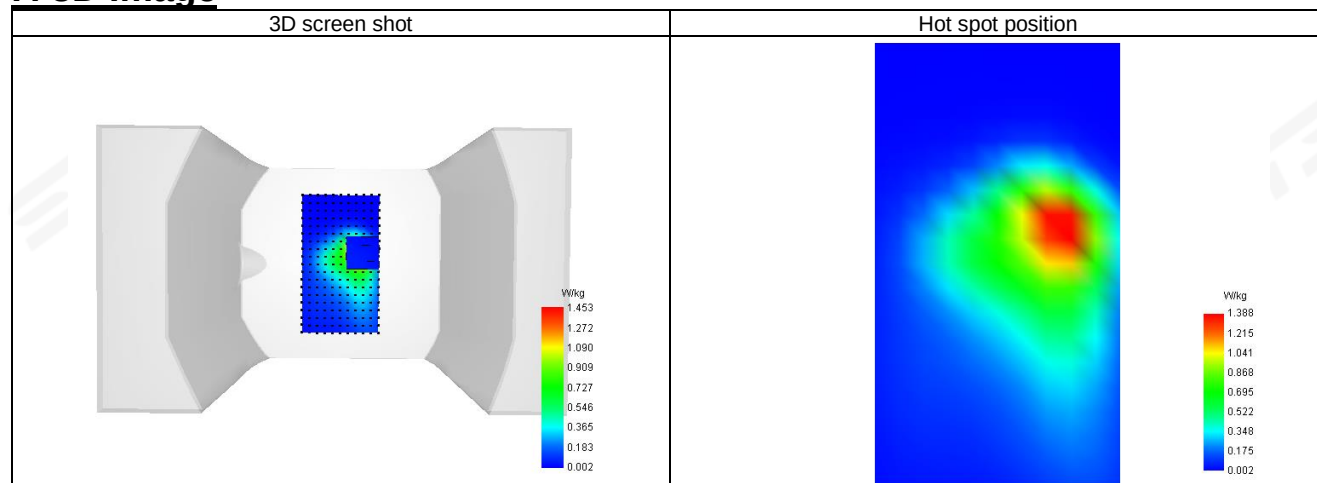
SAR 10g (W/Kg)	0.701
SAR 1g (W/Kg)	1.365
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	52.012300

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.388	1.453	0.756	0.427	0.234	0.128	0.070



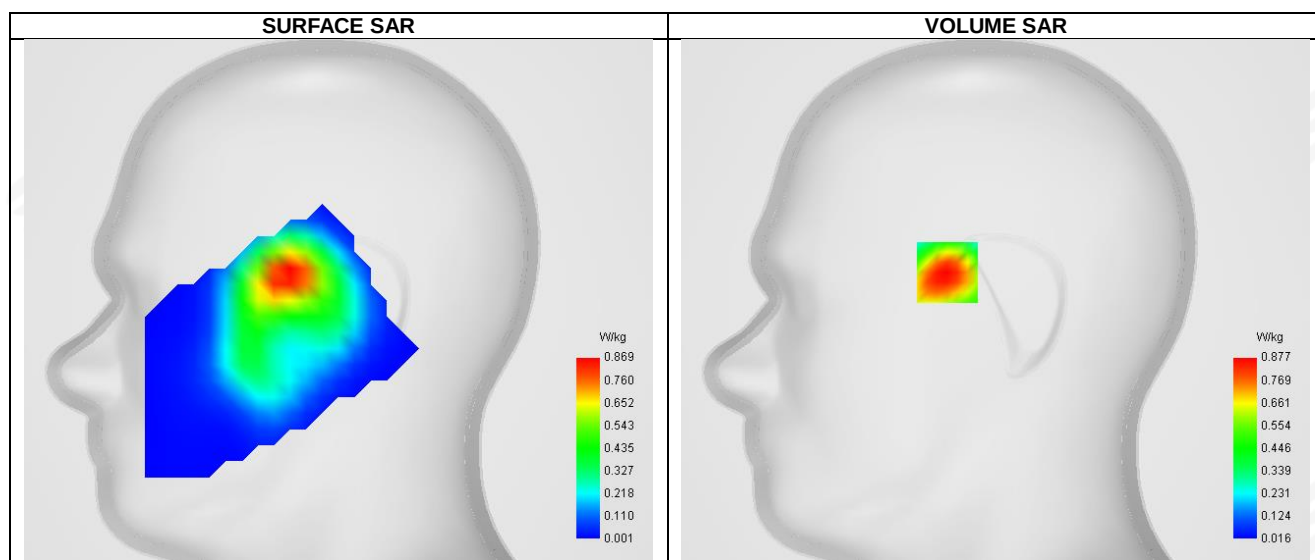
F. 3D Image





Plot 13: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-17
ConvF	1.70
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2560



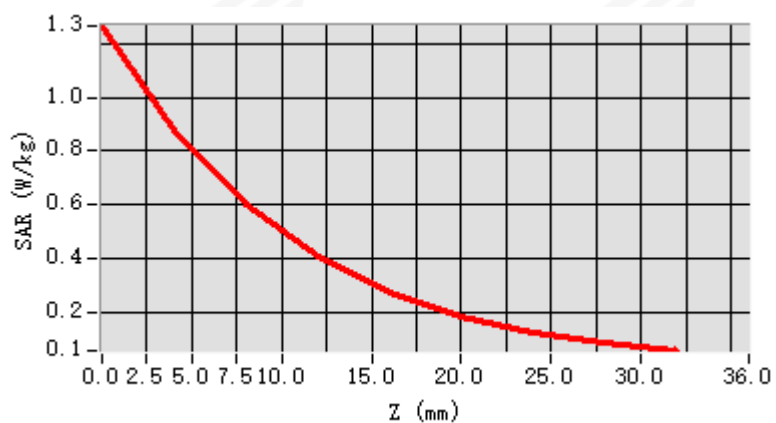
Maximum location: X=-24.00, Y=14.00 ; SAR Peak: 1.26 W/kg

D. SAR 1g & 10g

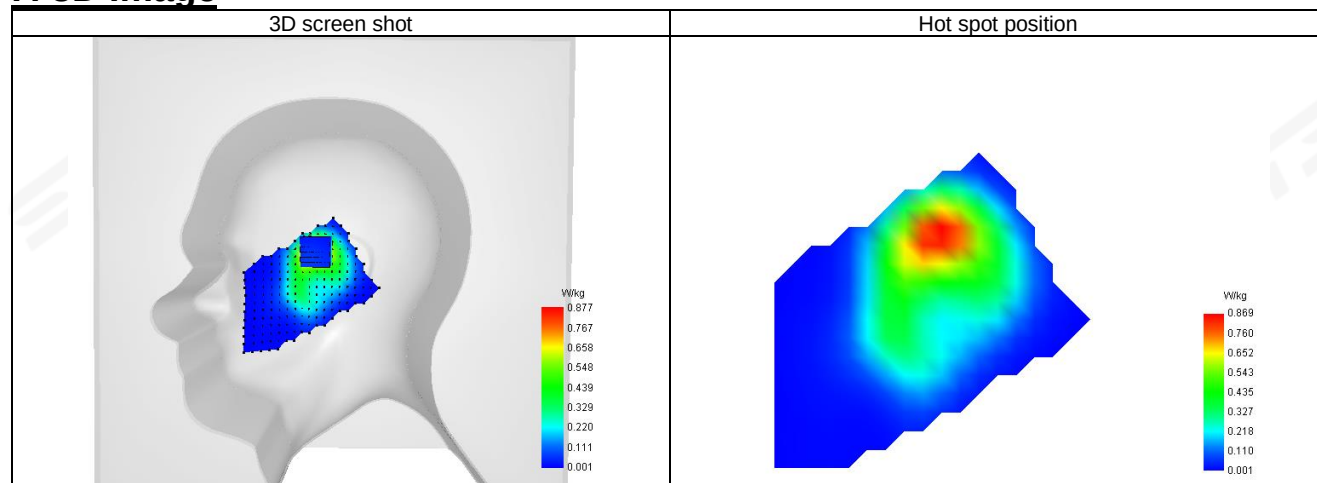
SAR 10g (W/Kg)	0.447
SAR 1g (W/Kg)	0.823
Horizontal validation criteria: minimum distance (mm)	15.811388
Vertical validation criteria: SAR ratio M2/M1 (%)	68.452242

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	1.265	0.877	0.600	0.405	0.275	0.187	0.127	0.086



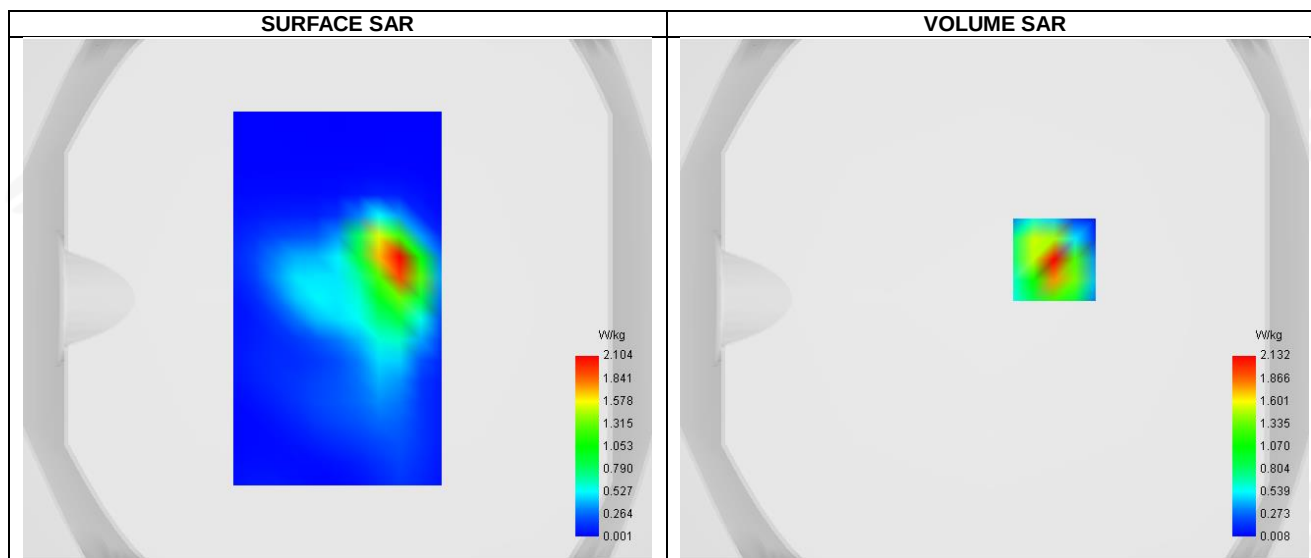
F. 3D Image





Plot 14: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-17
ConvF	1.70
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2560



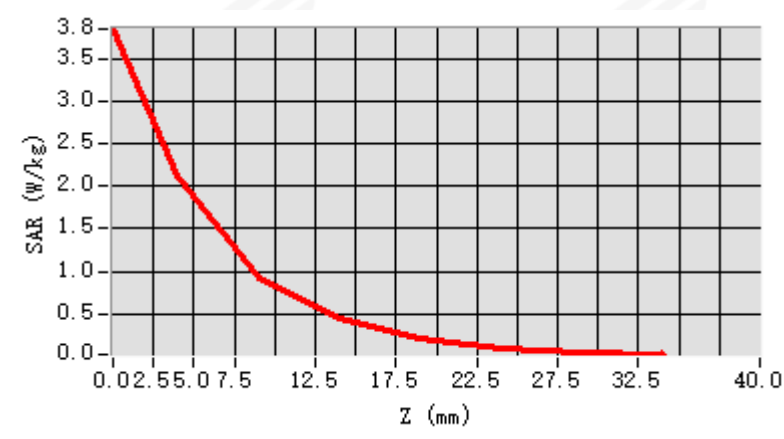
Maximum location: X=23.00, Y=15.00 ; SAR Peak: 3.78 W/kg

D. SAR 1g & 10g

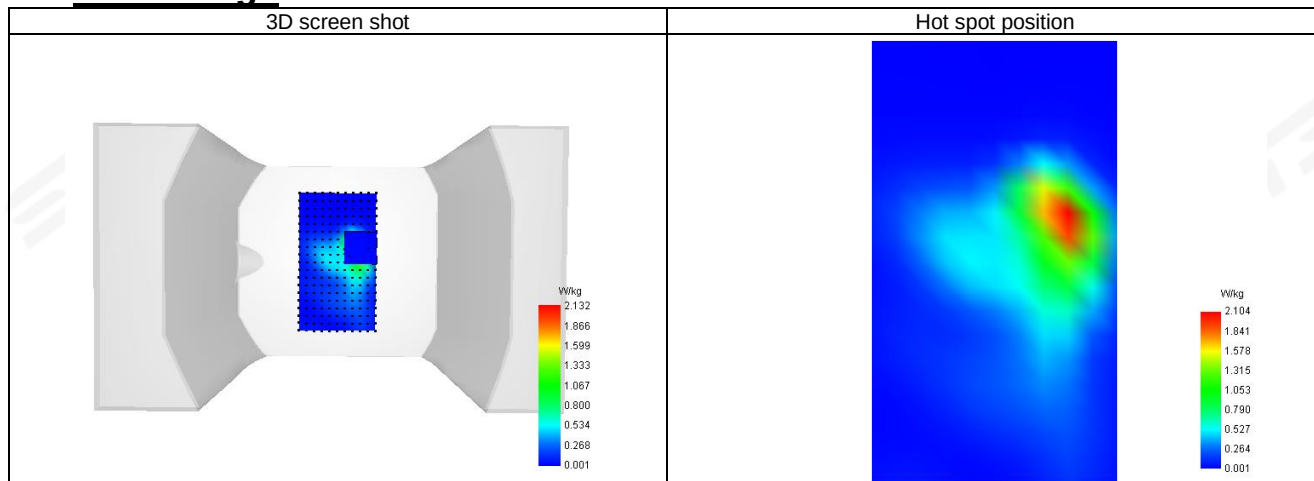
SAR 10g (W/Kg)	0.822
SAR 1g (W/Kg)	1.926
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	43.697447

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	3.849	2.132	0.932	0.441	0.202	0.092	0.042



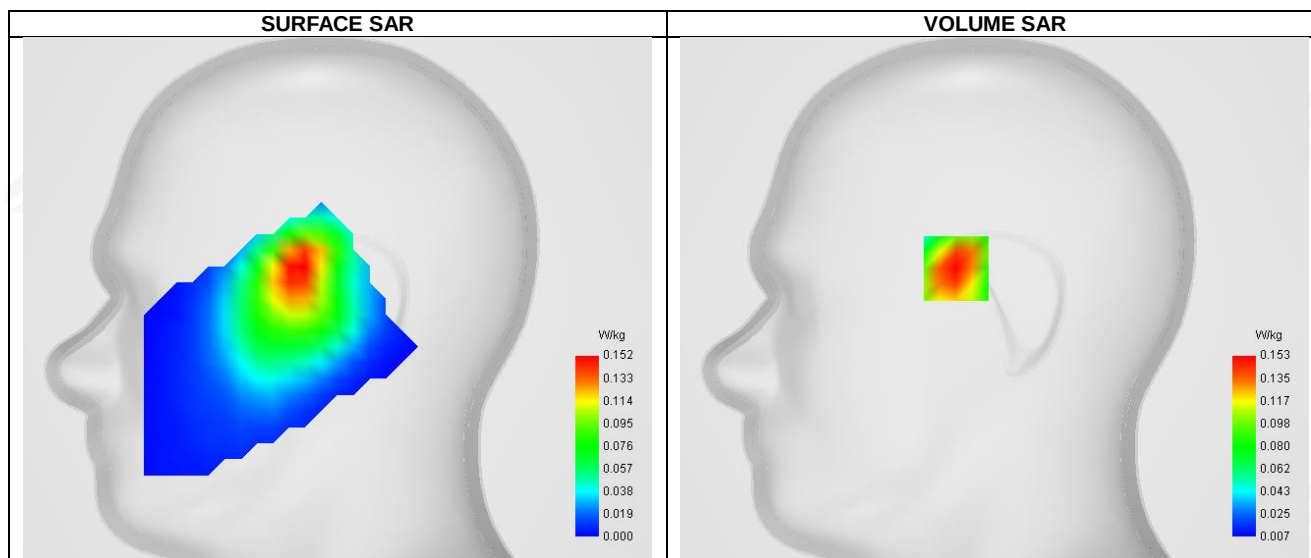
F. 3D Image





Plot 15: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	885

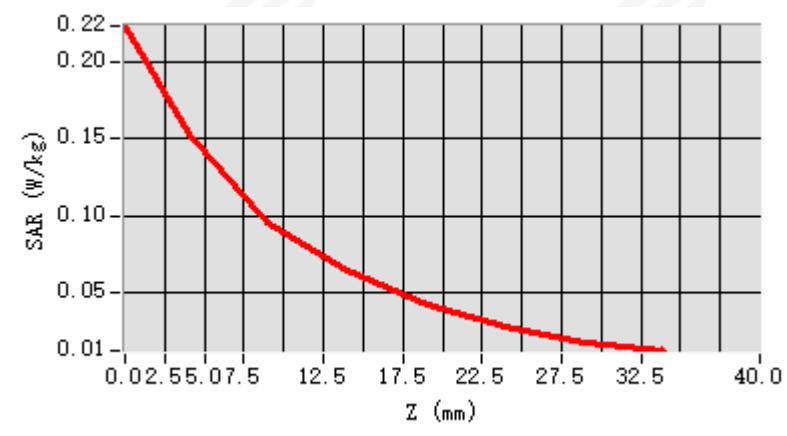


D. SAR 1g & 10g

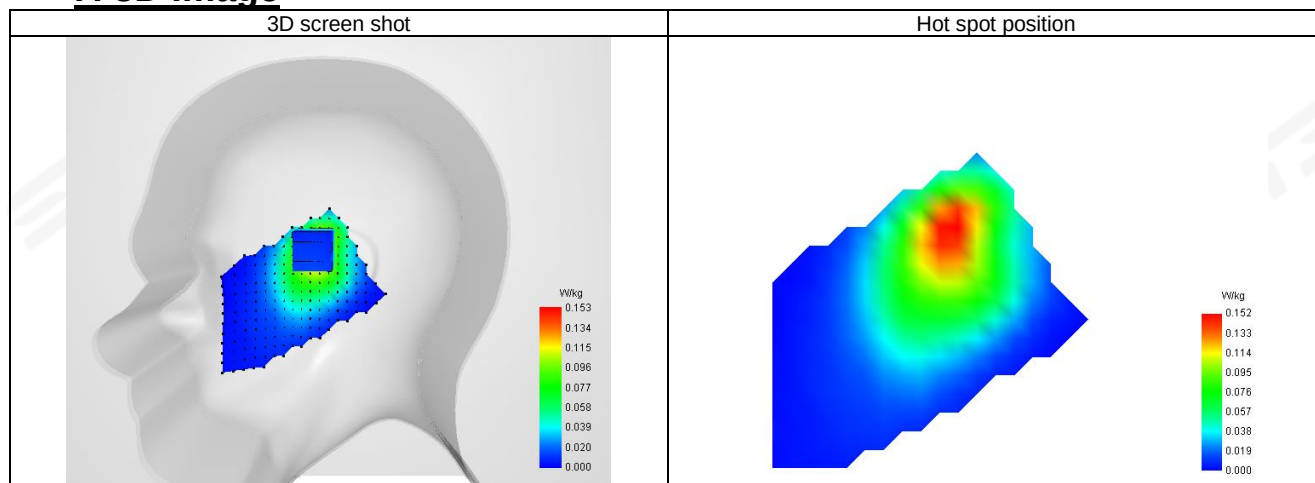
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.147
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	62.439389

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.224	0.153	0.096	0.064	0.041	0.027	0.017



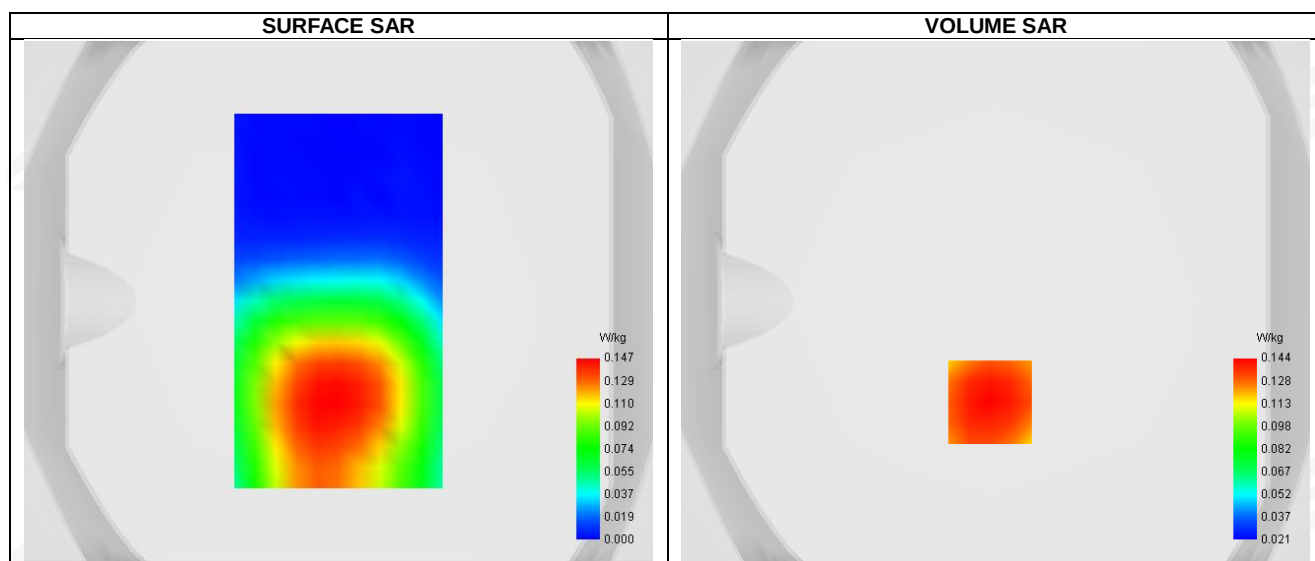
F. 3D Image





Plot 16: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	885



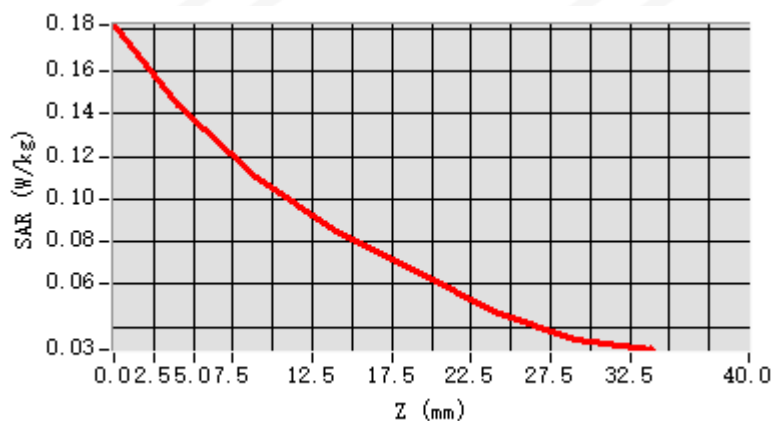
Maximum location: X=-2.00, Y=-39.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

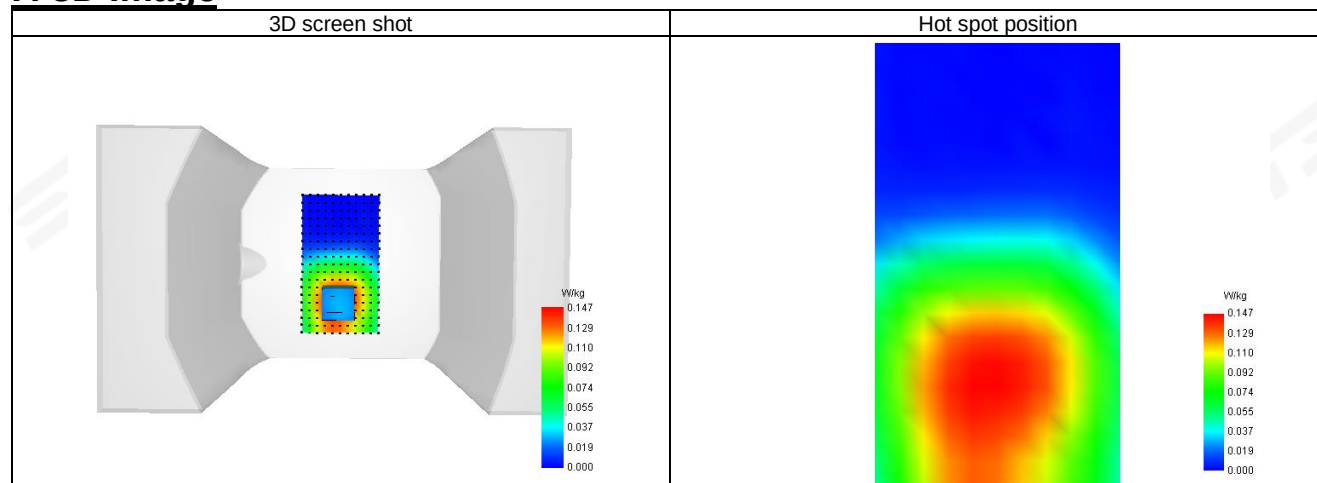
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.140
Horizontal validation criteria: minimum distance (mm)	11.556319
Vertical validation criteria: SAR ratio M2/M1 (%)	79.120879

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.182	0.144	0.110	0.085	0.066	0.047	0.034



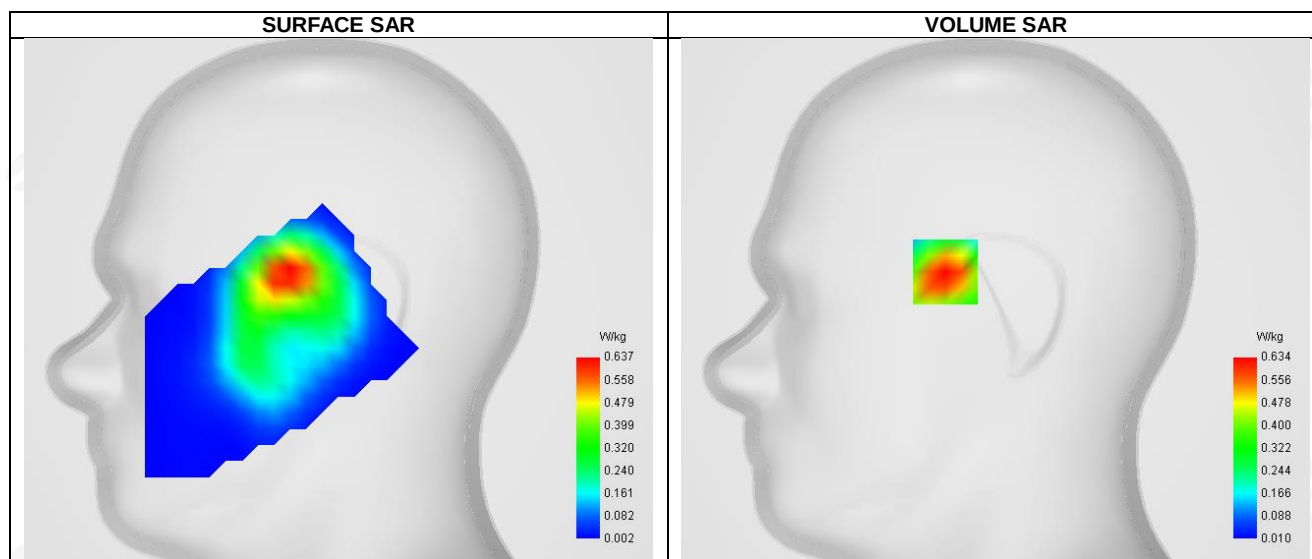
F. 3D Image





Plot 17: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	847



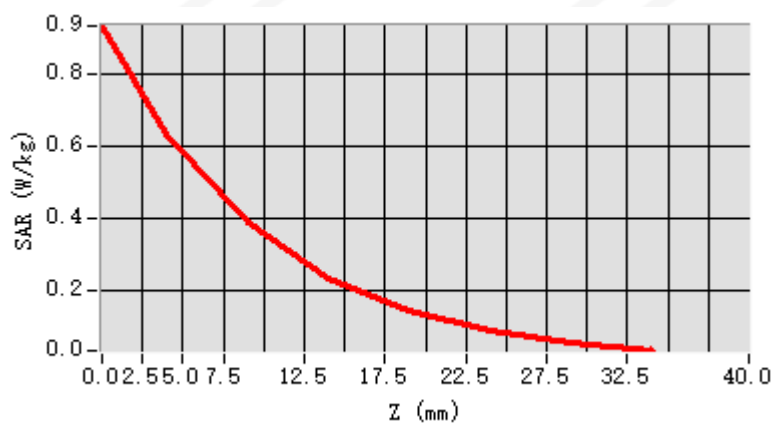
Maximum location: X=-25.00, Y=14.00 ; SAR Peak: 0.94 W/kg

D. SAR 1g & 10g

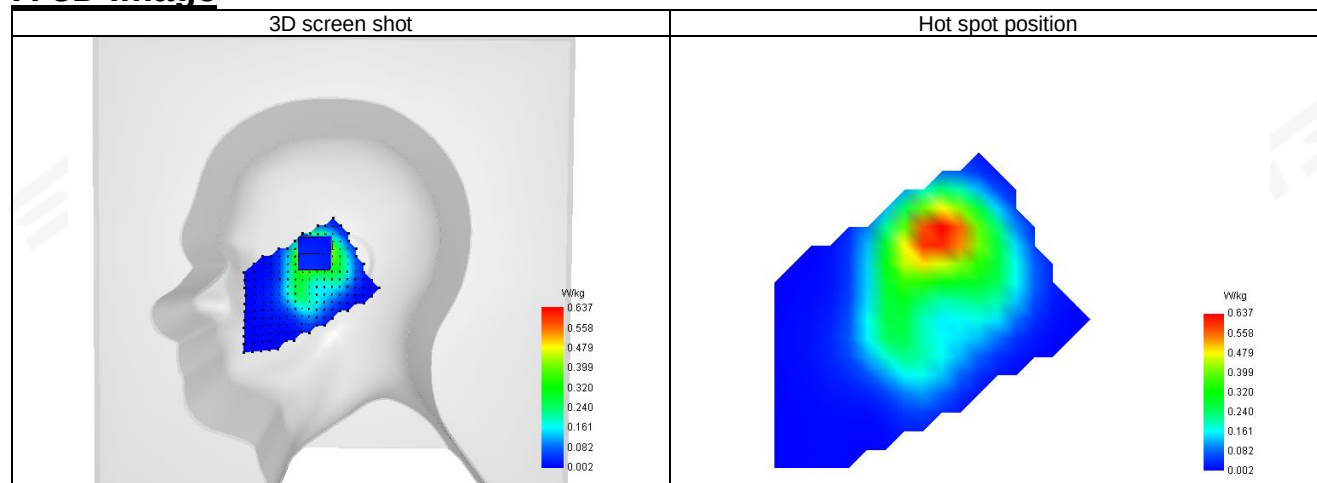
SAR 10g (W/Kg)	0.347
SAR 1g (W/Kg)	0.604
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.206341

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.931	0.634	0.388	0.237	0.148	0.091	0.056



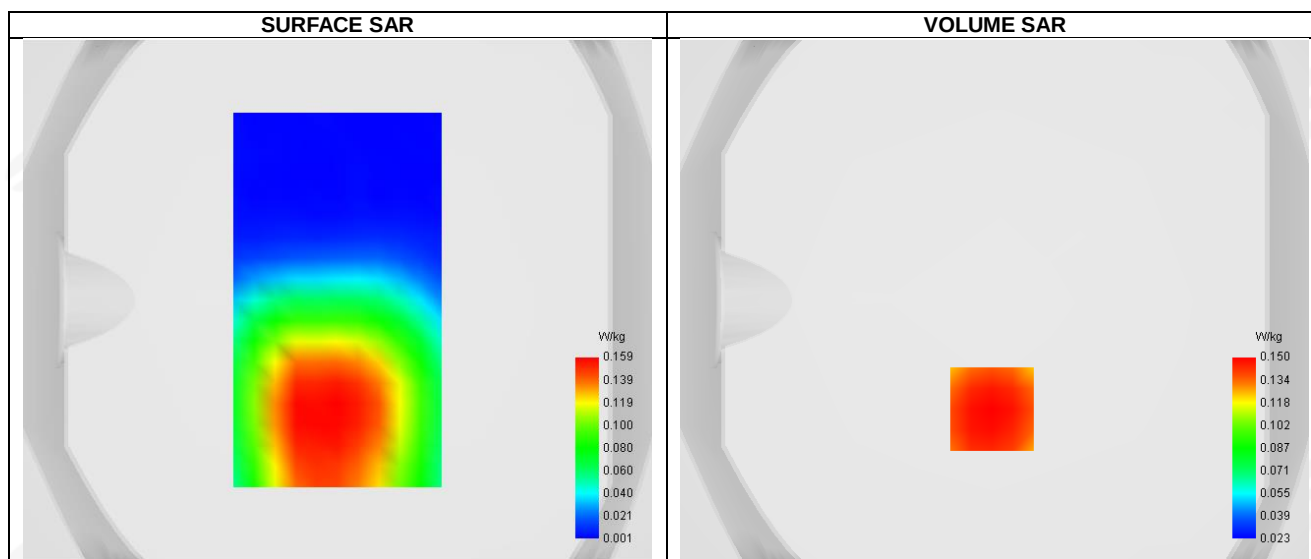
F. 3D Image





Plot 18: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-10
ConvF	1.49
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	847



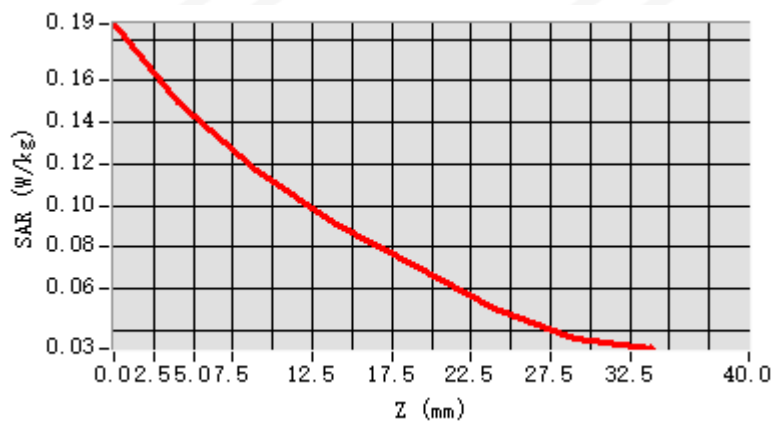
Maximum location: X=-1.00, Y=-42.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

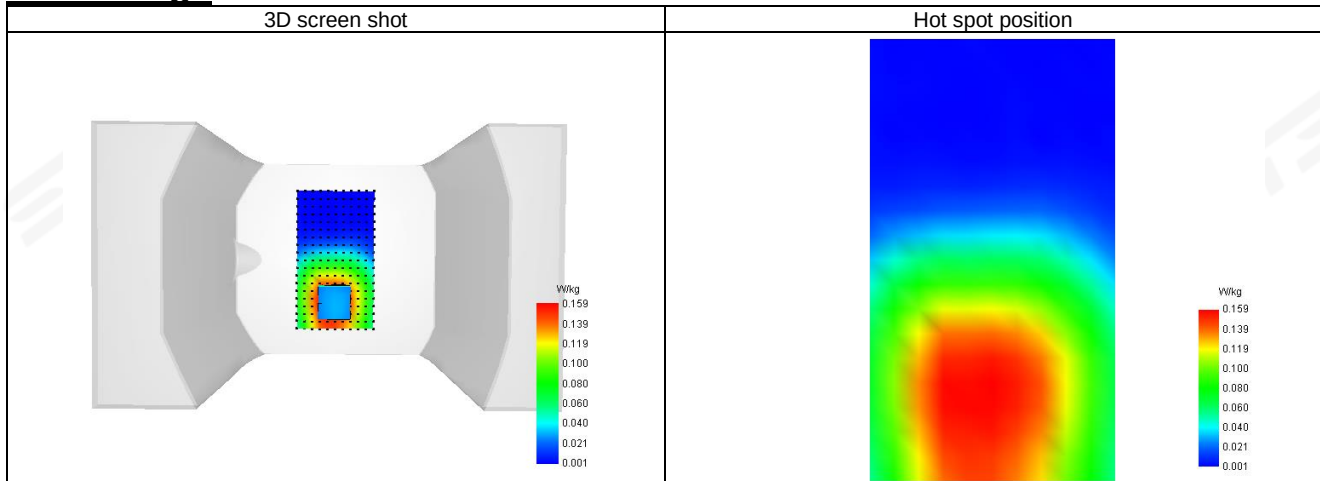
SAR 10g (W/Kg)	0.109
SAR 1g (W/Kg)	0.147
Horizontal validation criteria: minimum distance (mm)	13.742150
Vertical validation criteria: SAR ratio M2/M1 (%)	76.923076

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.188	0.150	0.117	0.091	0.070	0.050	0.036



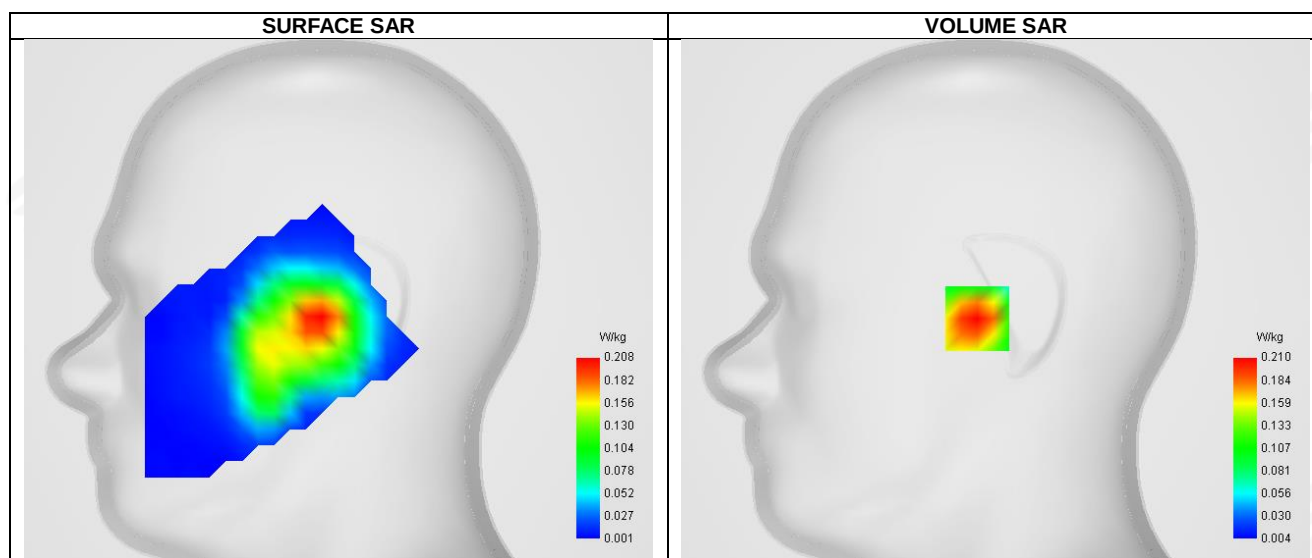
F. 3D Image





Plot 19: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-17
ConvF	1.82
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Head
Device Position	Right Cheek
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2472



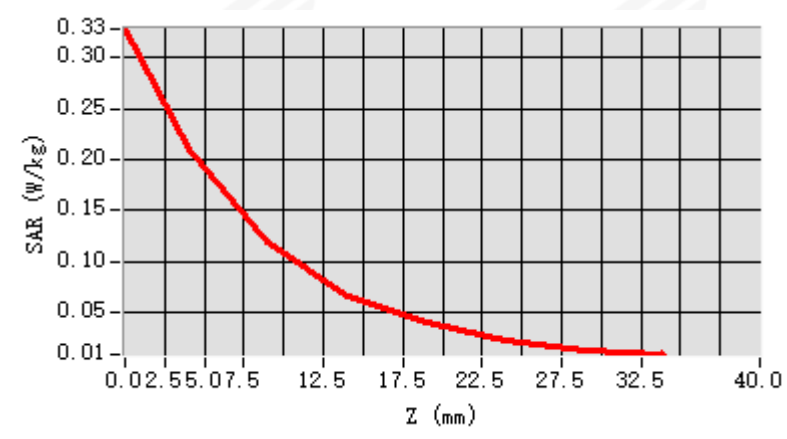
Maximum location: X=-9.00, Y=-9.00 ; SAR Peak: 0.33 W/kg

D. SAR 1g & 10g

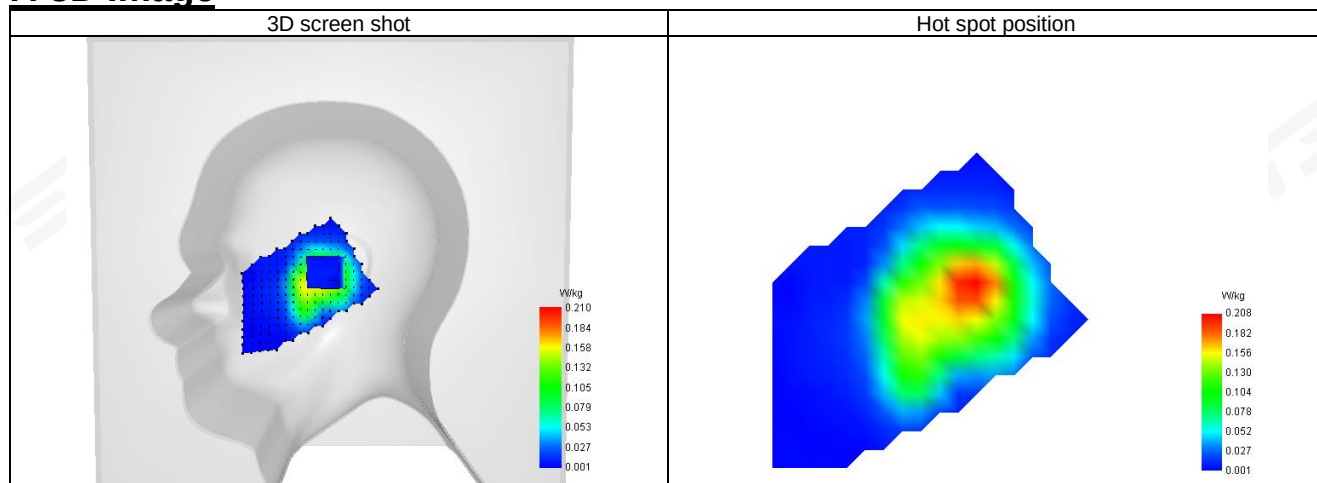
SAR 10g (W/Kg)	0.110
SAR 1g (W/Kg)	0.200
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.775171

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.328	0.210	0.119	0.067	0.041	0.024	0.014



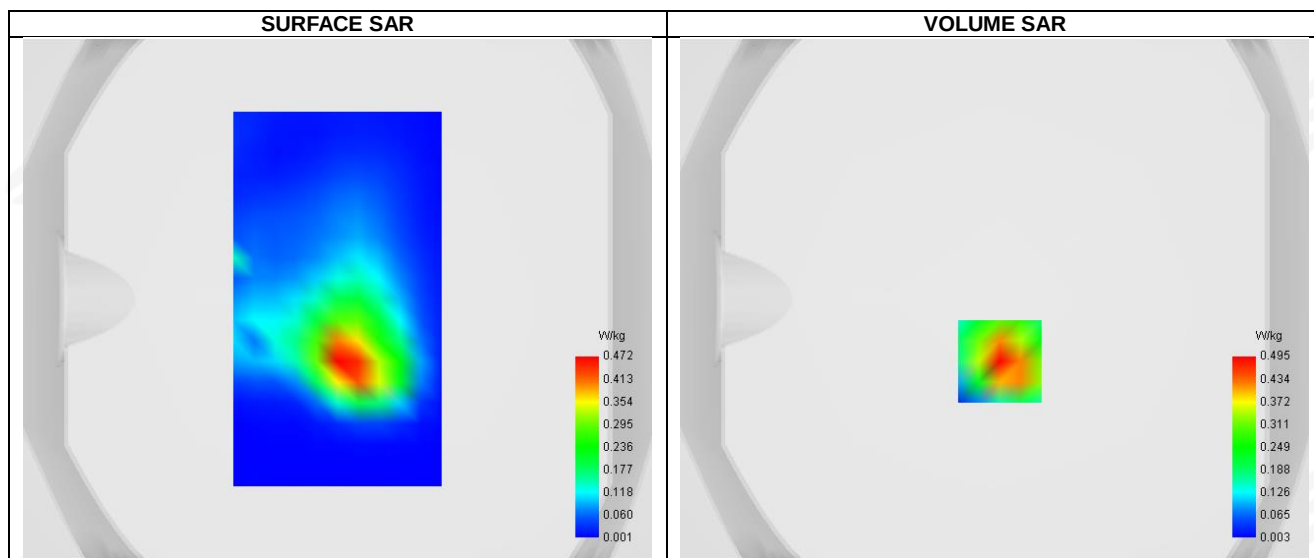
F. 3D Image





Plot 20: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-17
ConvF	1.82
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body&Limbs
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2472



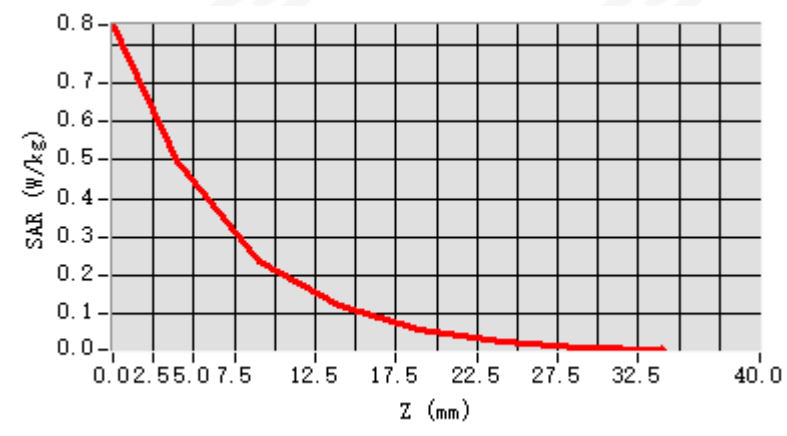
Maximum location: X=2.00, Y=-24.00 ; SAR Peak: 0.86 W/kg

D. SAR 1g & 10g

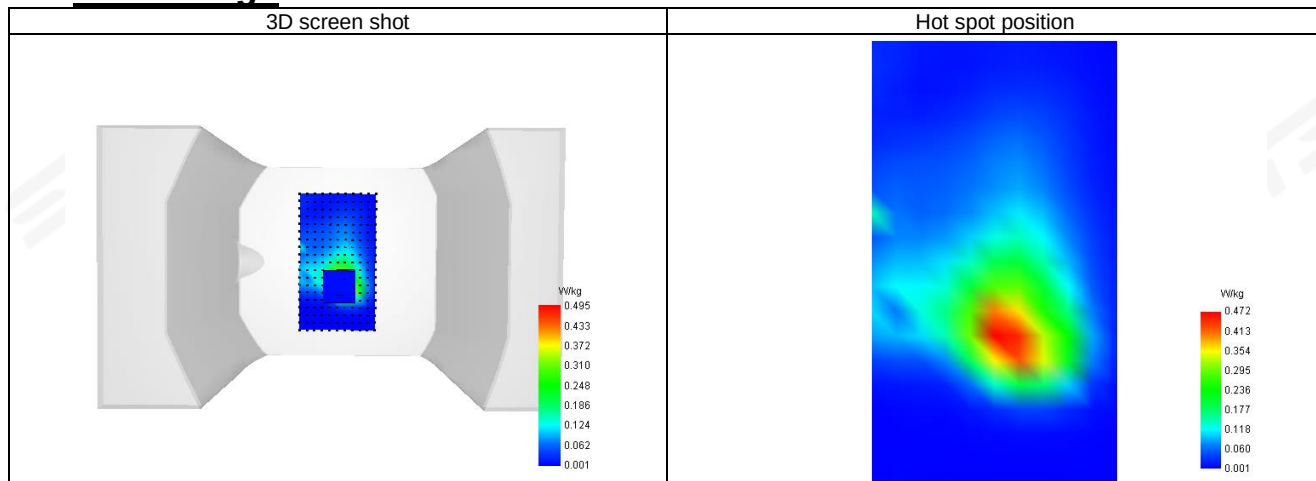
SAR 10g (W/Kg)	0.220
SAR 1g (W/Kg)	0.470
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	47.984390

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.850	0.495	0.238	0.121	0.060	0.030	0.015



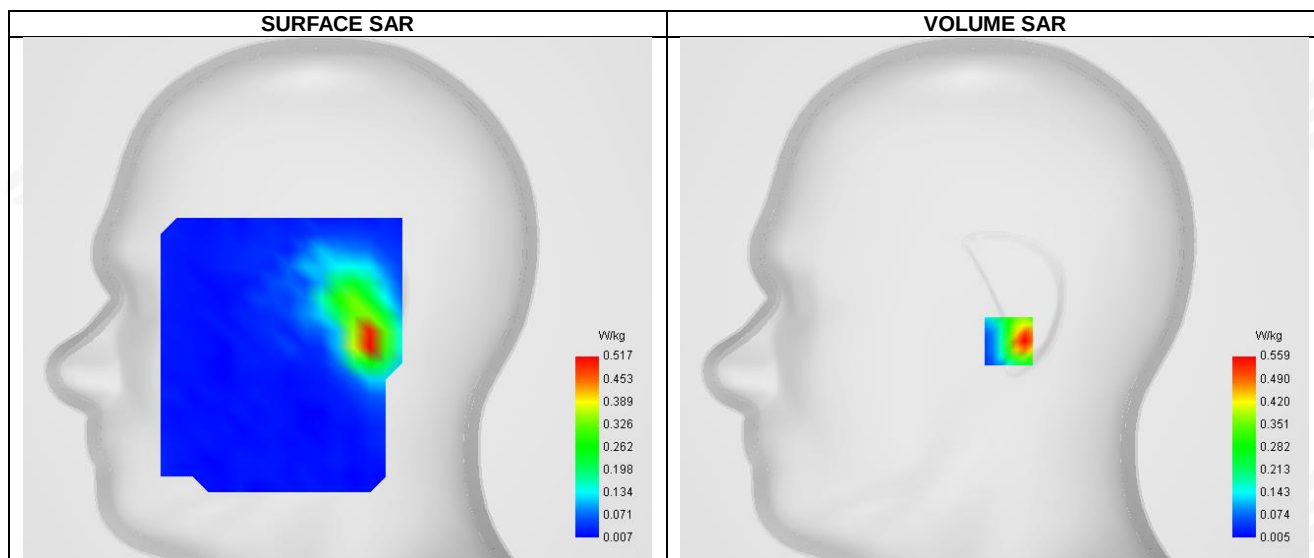
F. 3D Image





Plot 21: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-20
ConvF	1.37
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.2GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency	5240

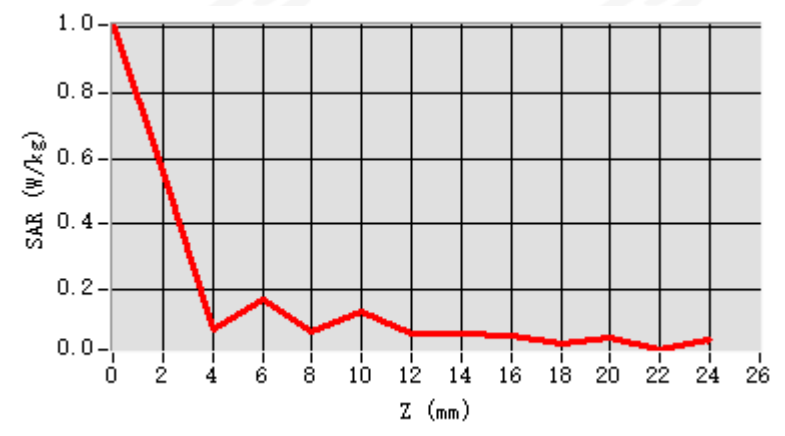


D. SAR 1g & 10g

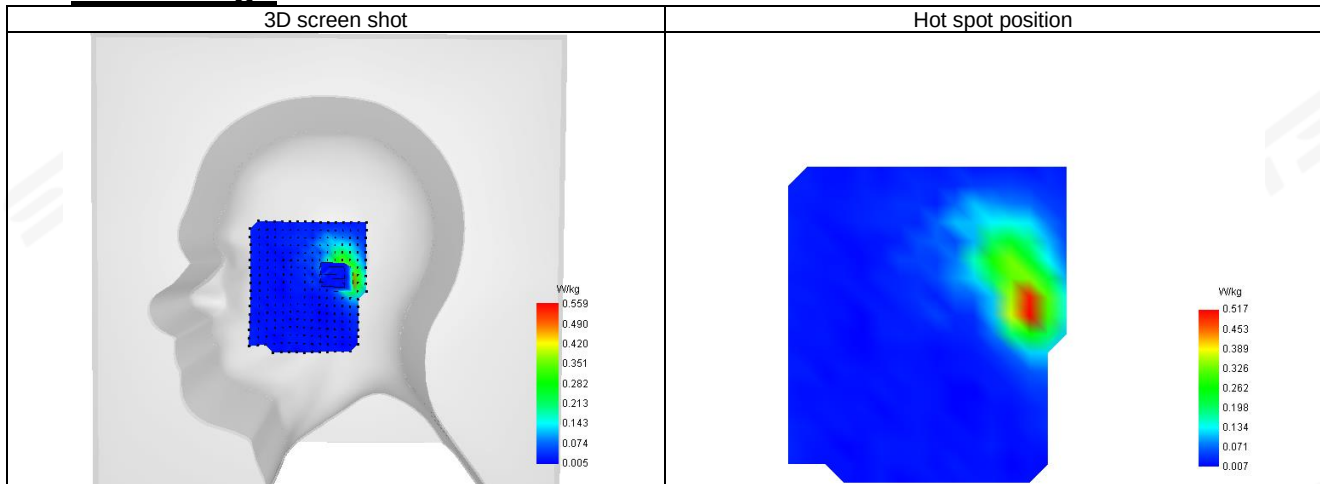
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.592
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	57.287030

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)	1.005	0.559	0.081	0.172	0.073	0.133	0.066	0.070	0.059	0.037	0.053	0.019	0.019



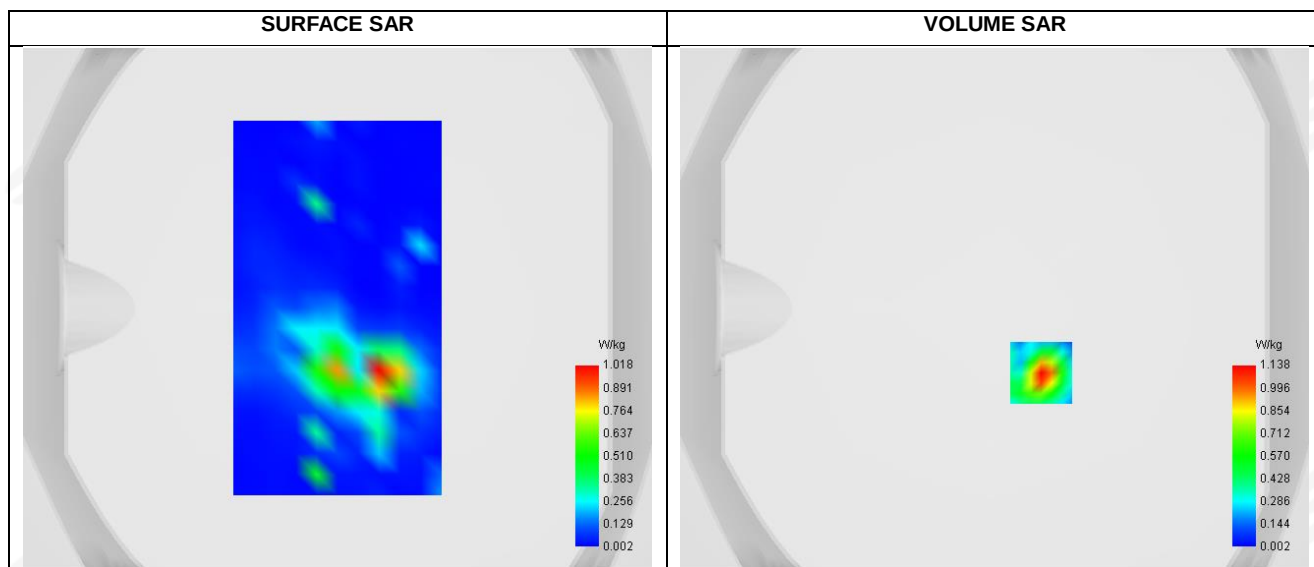
F. 3D Image





Plot 22: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-20
ConvF	1.37
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.2GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency	5240

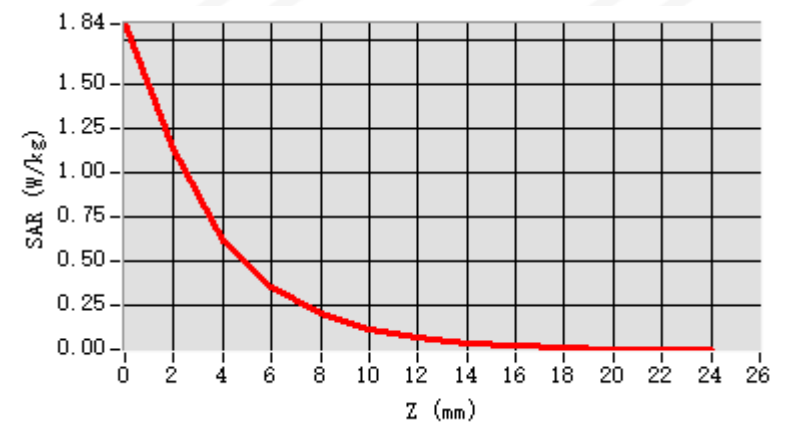


D. SAR 1g & 10g

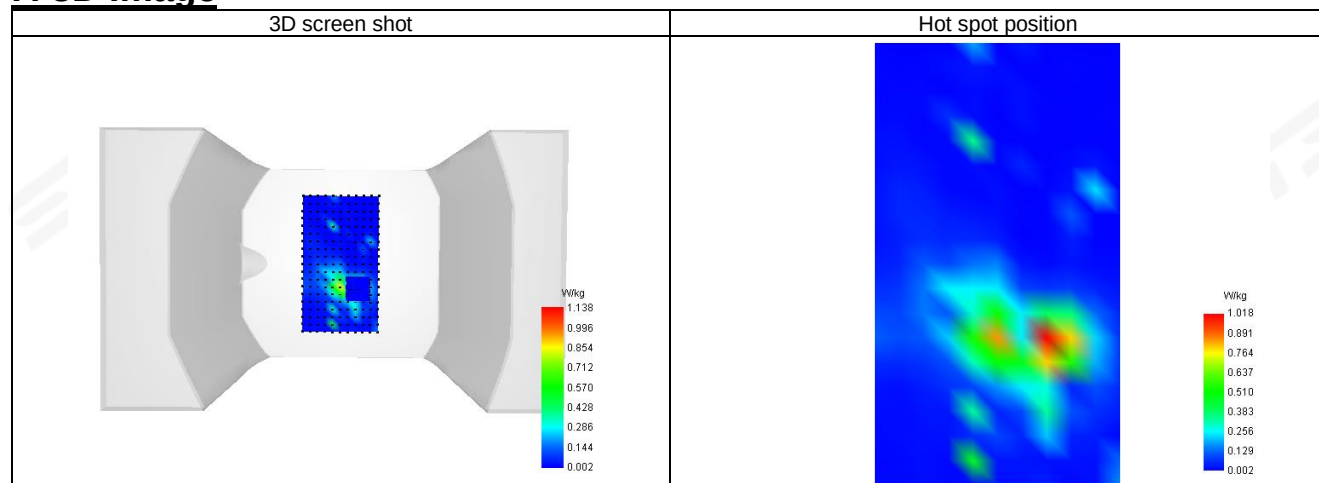
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.637
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.553264

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)	1.840	1.138	0.621	0.354	0.213	0.123	0.071	0.041	0.024	0.014	0.008	0.005



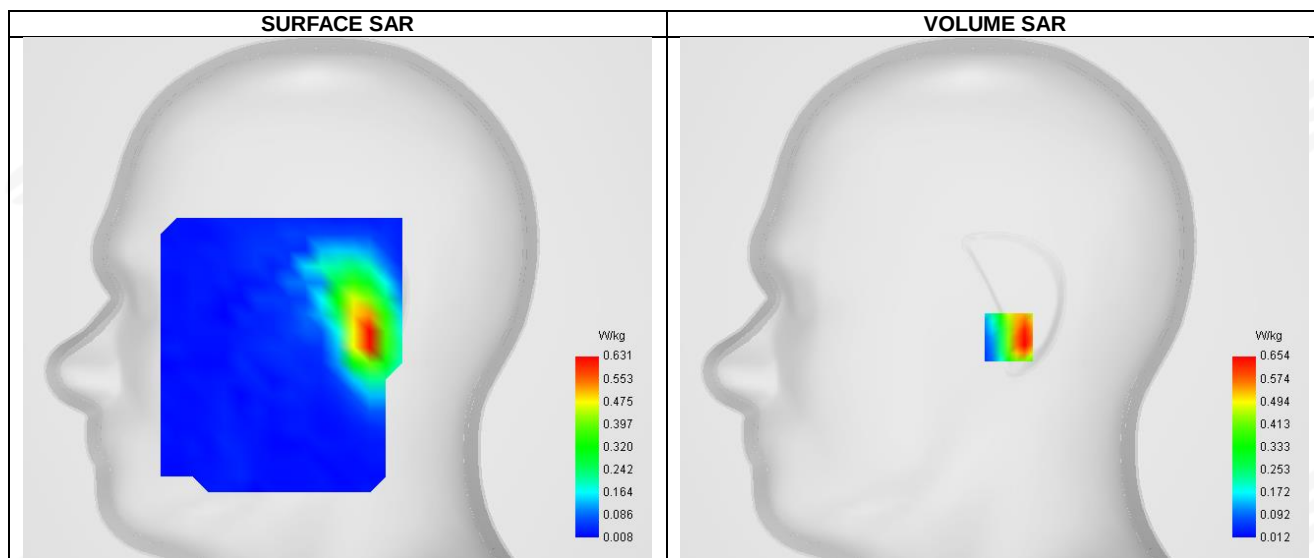
F. 3D Image





Plot 23: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-20
ConvF	1.32
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Right Cheek
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5825

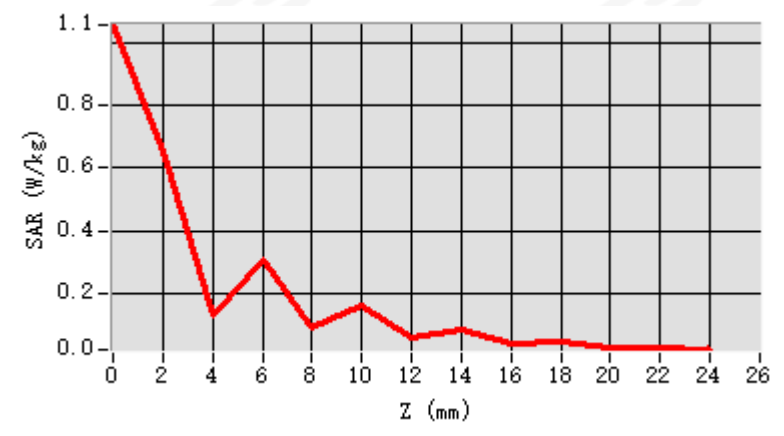


D. SAR 1g & 10g

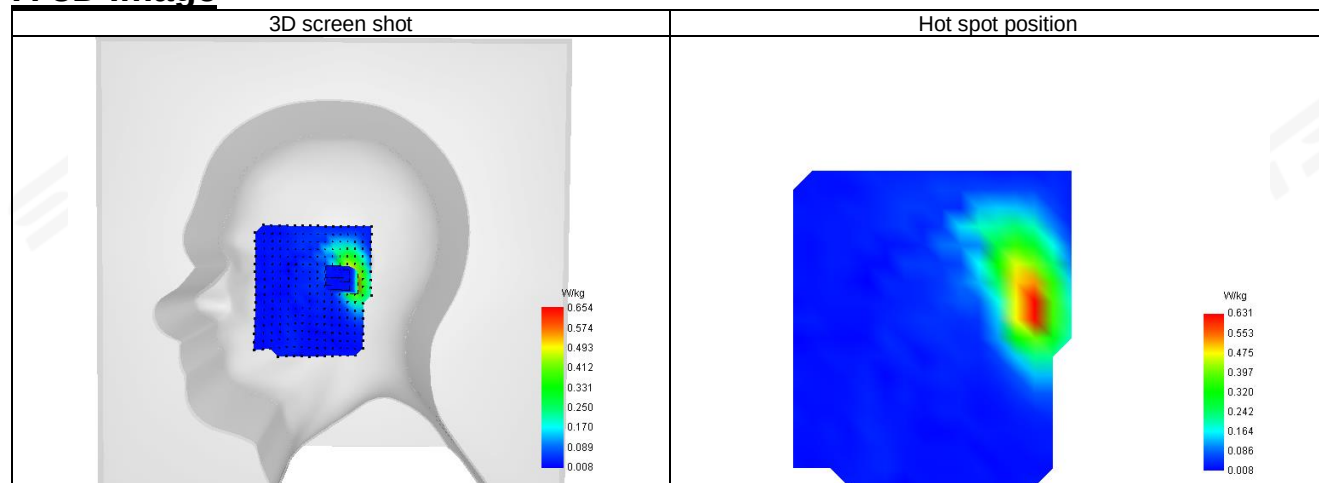
SAR 10g (W/Kg)	0.248
SAR 1g (W/Kg)	0.764
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.835332

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)	1.059	0.654	0.129	0.309	0.088	0.162	0.060	0.085	0.041	0.045	0.028	0.023	0.023



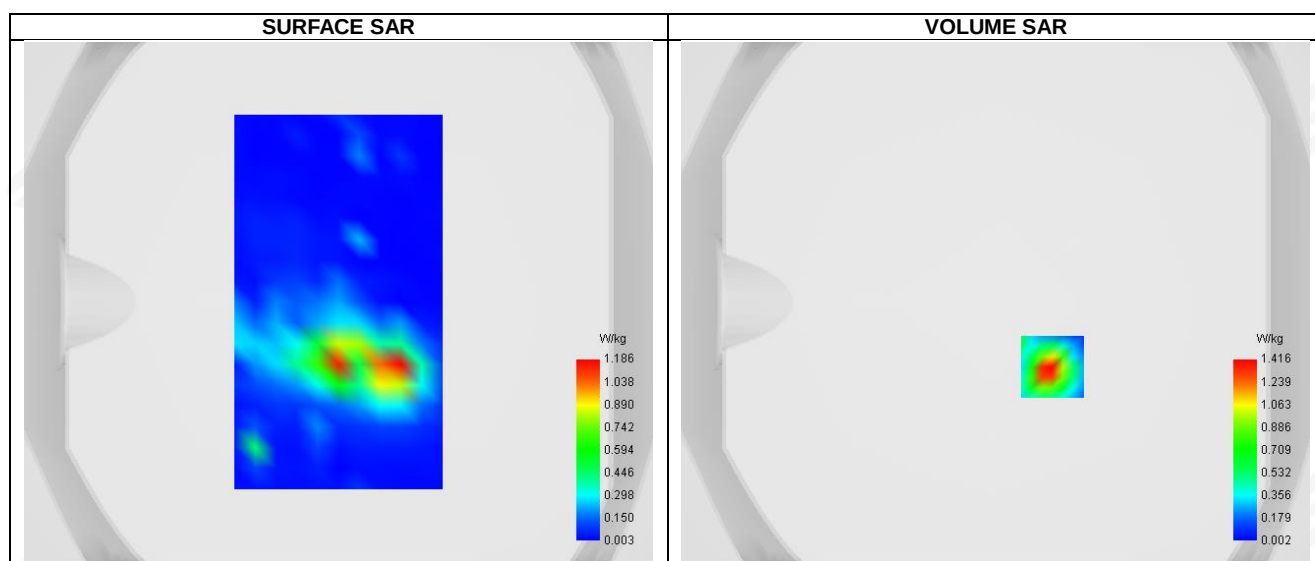
F. 3D Image





Plot 32: DUT: 4G Smart phone; EUT Model: WAVE 10

Test Date	2025-12-20
ConvF	1.32
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Head
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5825



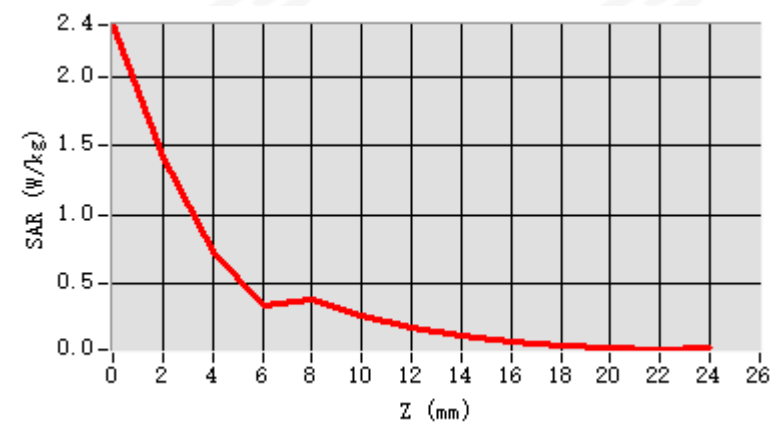
Maximum location: X=22.00, Y=-25.00 ; SAR Peak: 3.13 W/kg

D. SAR 1g & 10g

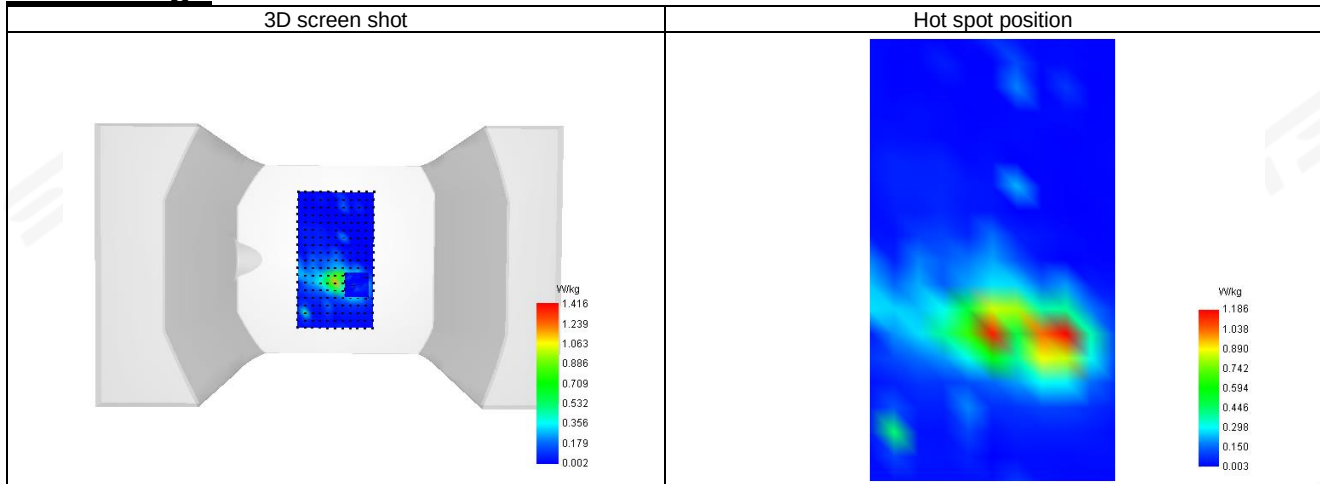
SAR 10g (W/Kg)	0.282
SAR 1g (W/Kg)	0.920
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.912941

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)	2.372	1.416	0.735	0.343	0.397	0.274	0.189	0.131	0.090	0.062	0.043	0.030	0.030



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※