



SAR TEST REPORT

Report No.: STS2509043H01

Issued for

DOKE COMMUNICATION (HK) LIMITED

19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO
KONG KL

Product Name: Mobile Phone

Brand Name: Blackview

Model Name: FORT 2

Series Model(s): FORT 100, MARINE 3

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: 1.689 W/kg

Max. SAR (10g) Body: 1.455 W/kg

Limbs: 2.634 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 : DOKE COMMUNICATION (HK) LIMITED
Address : 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO
KONG KL
Manufacturer's Name : DOKE COMMUNICATION (HK) LIMITED
Address : 19H MAXGRAND PLAZA NO 3 TAI YAU STREET SAN PO
KONG KL

Product Description

Product Name : Mobile Phone
Brand Name : Blackview
Model Name : FORT 2
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Date of Test

Date (s) of performance of tests : 22 Aug. 2025 ~ 30 Aug. 2025
Date of Issue : 28 Sep. 2025
Test Result : **Pass**

Testing Engineer :

(Xin.Liu)

Technical Manager :

(Shifan. Long)

Authorized Signatory :

(Bovey Yang)





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00	28 Sep. 2025	STS2509043H01	ALL	Initial Issue



1. General Information

1.1 EUT Description

Product Name	Mobile Phone			
Brand Name	Blackview			
Model Name	FORT 2			
Series Model	FORT 100, MARINE 3			
Model Difference	The position of the camera ID and the adapter cable are different, while the rest are the same			
Hardware Version	G2508D-MD-V1-1			
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 LTE Band 28: 703MHz to 748 MHz WLAN802.11b/g/n20: 2412 to 2472MHz WLAN 802.11n40: 2422 to 2462MHz WLAN 802.11a/n20/n40/ac20/ac40: 5150 to 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40: 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 NFC: 13.65MHz			
Max. Reported SAR(10g): Body:(Limit: 2.0 W/Kg) Limbs:(Limit: 4.0 W/Kg)	Mode	Maximum Reported SAR(W/kg)		
		Head	Body	Limbs
	GSM900	0.109	0.488	0.982
	GSM1800	0.484	0.284	0.673
	WCDMA Band I	1.689	1.019	1.942
	WCDMA Band VIII	0.071	0.300	1.230
	LTE band 1	1.408	0.898	1.942
	LTE band 3	1.011	0.439	1.694
	LTE band 7	0.164	1.455	2.634
	LTE band 8	0.118	0.339	0.690
	LTE band 20	0.075	0.391	0.607
	LTE band 28	0.059	0.240	0.594
	2.4GHz WLAN	0.057	0.049	0.064
	5.2GHz WLAN	0.034	0.100	0.154
	5.8GHz WLAN	0.043	0.164	0.285



Maximum Simultaneous SAR(W/kg)		1.733	1.619	2.919
Limit		2.0 W/Kg		4.0W/Kg
Battery	Model: LiFHPS496487PFH Rated Voltage: 3.87V Charge Limit Voltage: 4.45V Capacity: 5000mAh			
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		
	NFC	NFC		
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>
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0.4	8.0	20.0
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(B). Limits for General Population/Uncontrolled Exposure (W/kg)

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
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0.08	2.0	4.0
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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 PARTIAL LIMBS LIMIT 4.0 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

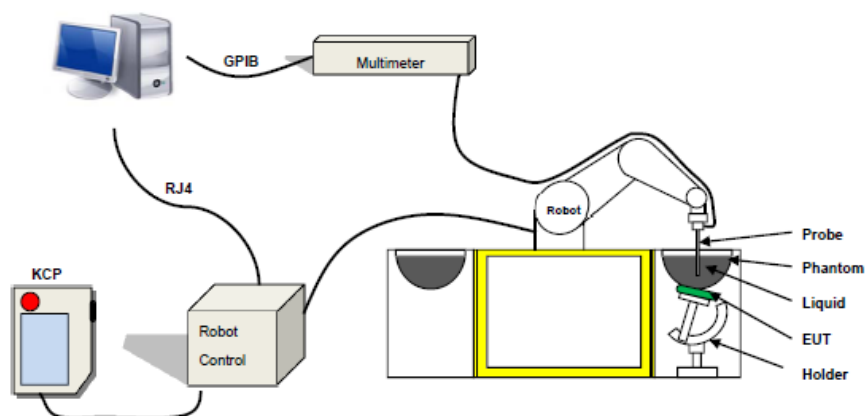
$$SAR = \frac{\sigma E^2}{\rho}$$

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

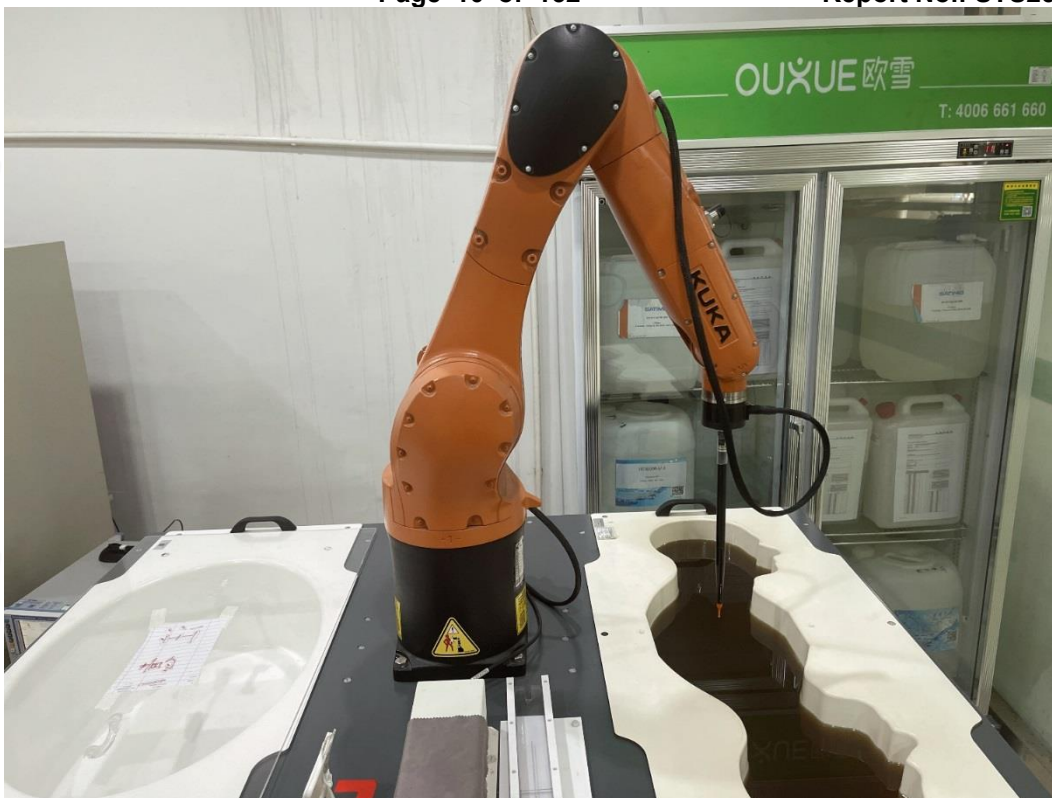
MVG SAR System Diagram:



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.

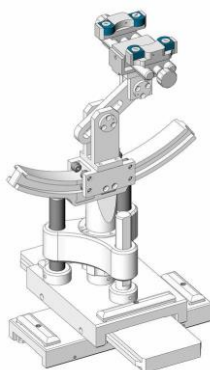


SN 32/14 SAM115



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



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LIQUID MEASUREMENT RESULTS

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Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-08-27	22.6	47	738	22.3	Permittivity	41.96	41.84	-0.30	±10
					Conductivity	0.89	0.90	1.21	±10
2025-08-27	22.6	47	750	22.3	Permittivity	41.90	42.55	1.55	±10
					Conductivity	0.89	0.86	-3.37	±10
2025-08-27	22.6	47	835	22.3	Permittivity	41.50	42.11	1.47	±10
					Conductivity	0.90	0.90	0.00	±10
2025-08-27	22.6	47	842	22.3	Permittivity	41.47	41.43	-0.09	±10
					Conductivity	0.90	0.90	-0.09	±10
2025-08-26	22.4	51	880.2	22.2	Permittivity	41.50	42.09	1.42	±10
					Conductivity	0.95	0.93	-1.97	±10
2025-08-26	22.4	51	882.4	22.2	Permittivity	41.50	41.99	1.18	±10
					Conductivity	0.95	0.95	-0.11	±10
2025-08-26	22.4	51	897.4	22.2	Permittivity	41.50	42.35	2.05	±10
					Conductivity	0.97	1.01	4.43	±10
2025-08-26	22.4	51	900	22.2	Permittivity	41.50	41.80	0.72	±10
					Conductivity	0.97	0.93	-4.12	±10
2025-08-26	22.4	51	910	22.2	Permittivity	41.50	41.86	0.87	±10
					Conductivity	0.98	1.02	4.00	±10
2025-08-26	22.4	51	912.6	22.2	Permittivity	41.50	42.56	2.55	±10
					Conductivity	0.98	0.97	-1.38	±10
2025-08-26	22.4	51	914.8	22.2	Permittivity	41.50	42.67	2.82	±10
					Conductivity	0.99	0.98	-0.60	±10
2025-08-22	23.1	52	1710.2	22.8	Permittivity	40.13	40.45	0.80	±10
					Conductivity	1.35	1.38	2.32	±10
2025-08-22	23.1	52	1720	22.8	Permittivity	40.11	41.51	3.48	±10
					Conductivity	1.35	1.34	-1.05	±10
2025-08-22	23.1	52	1747.5	22.8	Permittivity	40.08	40.35	0.69	±10
					Conductivity	1.37	1.40	2.19	±10
2025-08-22	23.1	52	1747.8	22.8	Permittivity	40.07	41.31	3.08	±10
					Conductivity	1.37	1.39	1.45	±10
2025-08-22	23.1	52	1775	22.8	Permittivity	40.04	40.92	2.21	±10
					Conductivity	1.39	1.35	-2.58	±10
2025-08-22	23.1	52	1784.8	22.8	Permittivity	40.02	40.07	0.12	±10
					Conductivity	1.39	1.35	-2.97	±10
2025-08-22	23.1	52	1800	22.8	Permittivity	40.00	40.29	0.72	±10
					Conductivity	1.40	1.41	0.71	±10
2025-08-28	22.4	48	1900	22.2	Permittivity	40.00	40.99	2.48	±10
					Conductivity	1.40	1.39	-0.71	±10
2025-08-28	22.4	48	1922.4	22.2	Permittivity	40.00	40.28	0.70	±10
					Conductivity	1.40	1.38	-1.43	±10
2025-08-28	22.4	48	1930	22.2	Permittivity	40.00	40.46	1.15	±10
					Conductivity	1.40	1.42	1.43	±10
2025-08-28	22.4	48	1950	22.2	Permittivity	40.00	40.67	1.68	±10
					Conductivity	1.40	1.38	-1.43	±10
2025-08-28	22.4	48	1970	22.2	Permittivity	40.00	40.91	2.27	±10
					Conductivity	1.40	1.45	3.57	±10
2025-08-28	22.4	48	1977.6	22.2	Permittivity	40.00	40.08	0.20	±10
					Conductivity	1.40	1.47	5.00	±10
2025-08-24	23.8	59	2412	23.5	Permittivity	39.27	39.36	0.24	±10
					Conductivity	1.77	1.76	-0.35	±10
2025-08-24	23.8	59	2450	23.5	Permittivity	39.20	40.15	2.42	±10
					Conductivity	1.80	1.81	0.56	±10



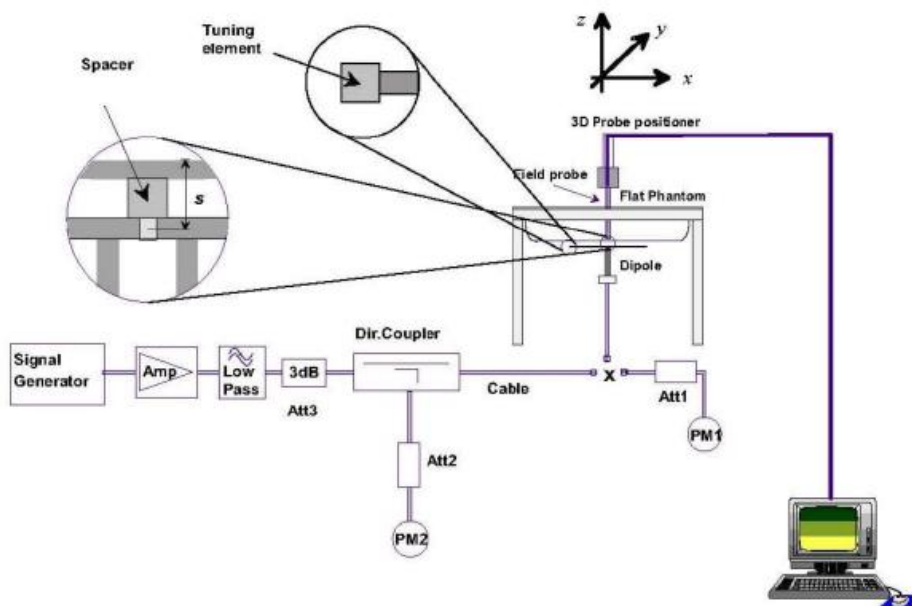
2025-08-24	23.8	59	2510	23.5	Permittivity	39.12	39.87	1.92	±10
					Conductivity	1.86	1.89	1.39	±10
2025-08-24	23.8	59	2535	23.5	Permittivity	39.09	40.20	2.85	±10
					Conductivity	1.89	1.91	1.02	±10
2025-08-24	23.8	59	2560	23.5	Permittivity	39.05	39.44	0.99	±10
					Conductivity	1.92	1.90	-0.90	±10
2025-08-24	23.8	59	2600	23.5	Permittivity	39.00	39.37	0.95	±10
					Conductivity	1.96	1.94	-1.02	±10
2025-08-30	22.5	46	5200	22.2	Permittivity	36.00	36.81	2.25	±10
					Conductivity	4.66	4.60	-1.29	±10
2025-08-30	22.5	46	5240	22.2	Permittivity	35.96	36.09	0.36	±10
					Conductivity	4.70	4.65	-1.11	±10
2025-08-30	22.5	46	5785	22.2	Permittivity	35.32	36.16	2.39	±10
					Conductivity	5.25	5.22	-0.65	±10
2025-08-30	22.5	46	5800	22.2	Permittivity	35.30	35.64	0.96	±10
					Conductivity	5.27	5.28	0.19	±10

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	
2025-08-27	750	100 mW	0.836	0.544	0.66	8.49	5.53	-1.50%	-1.55%	10
		Normalize to 1 Watt	8.36	5.44						
2025-08-27	835	100 mW	0.917	0.597	1.84	9.63	6.15	-4.80%	-2.89%	10
		Normalize to 1 Watt	9.17	5.97						
2025-08-26	900	100 mW	1.040	0.671	-3.74	10.90	6.99	-4.56%	-3.98%	10
		Normalize to 1 Watt	10.40	6.71						
2025-08-22	1800	100 mW	3.723	1.865	-0.90	38.40	20.10	-3.05%	-7.21%	10
		Normalize to 1 Watt	37.23	18.65						
2025-08-28	1900	100 mW	3.936	1.914	-2.60	39.84	20.20	-1.19%	-5.27%	10
		Normalize to 1 Watt	39.36	19.14						



2025-08-24	2450	100 mW	5.300	2.213	3.05	54.70	24.11	-3.11%	-8.23%	10
		Normalize to 1 Watt	53.00	22.13						
2025-08-24	2600	100 mW	5.534	2.277	-0.05	56.19	24.08	-1.51%	-5.43%	10
		Normalize to 1 Watt	55.34	22.77						
2025-08-30	5200	10 mW	1.539	0.548	-2.04	163.88	57.29	-6.06%	-4.37%	10
		Normalize to 1 Watt	153.94	54.78						
2025-08-30	5800	10 mW	1.802	0.618	3.01	188.95	63.45	-4.63%	-2.65%	10
		Normalize to 1 Watt	180.21	61.77						

Note:

(1) We use a CW signal of 20dBm(750,835,900,1800,1900,2450,2600MHz) and 10dBm(5000-6000MHz) for system check, and then all SAR values are normalized to 1W forward power. The result must be within $\pm 10\%$ of target value.



6. SAR Evaluation Procedures

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

- 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;.

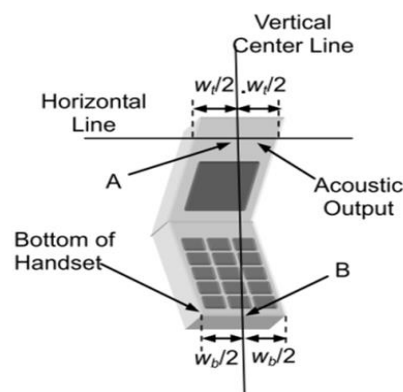
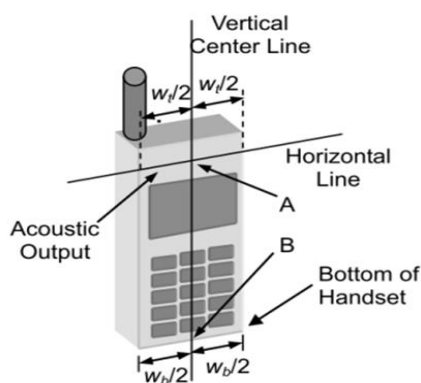
The maximum local SAR is evaluated on an interpolated grid at 1 mm to 2 mm resolution during the zoom scan. A zoom-scan volume of 32 mm x 32 mm x 30 mm, consisting of 5 x 5 x 7 points with the center at the peak SAR location determined during the area scan, can be chosen. Although a scan resolution of 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.

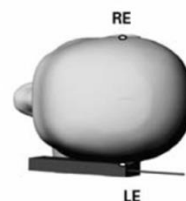
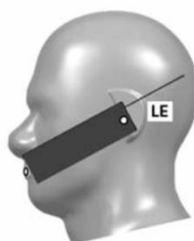
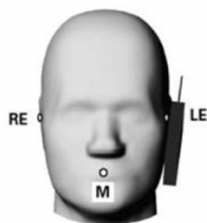
Define Two Imaginary Lines On The Handset:

- 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.



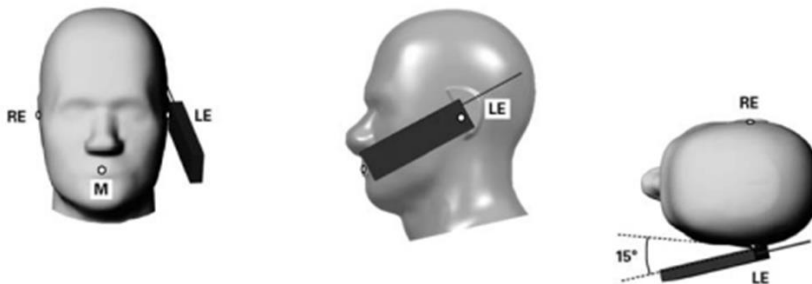
7.1 Cheek Position

- 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



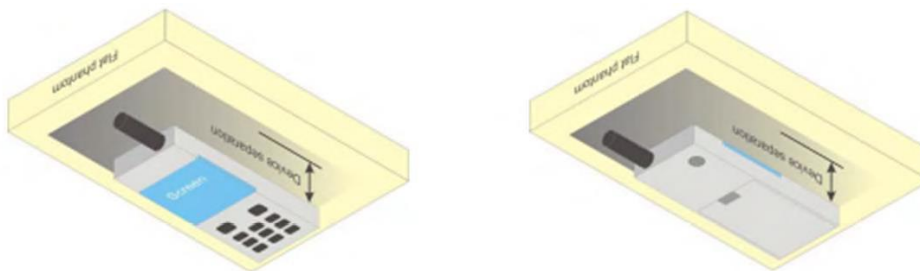
7.2 Tilt Position

- (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)	33.53	34.13	33.97	29.73	29.92	29.43
GPRS (GMSK, 1-Slot)	33.70	34.18	34.12	29.81	29.98	29.51
GPRS (GMSK, 2-Slot)	32.97	33.27	33.11	29.15	29.12	28.57
GPRS (GMSK, 3-Slot)	30.87	31.13	30.95	27.14	27.03	26.47
GPRS (GMSK, 4-Slot)	29.45	29.66	29.44	25.75	25.64	24.99
EGPRS(8PSK, 1-Slot)	28.80	28.95	29.02	25.72	26.28	26.04
EGPRS(8PSK, 2-Slot)	28.00	27.98	28.16	24.85	25.11	24.57
EGPRS(8PSK, 3-Slot)	25.79	25.74	25.76	22.47	22.41	22.59
EGPRS(8PSK, 4-Slot)	24.69	24.78	24.85	20.92	20.57	20.64

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)	24.50	25.10	24.94	20.70	20.89	20.40
GPRS (GMSK, 1-Slot)	24.67	25.15	25.09	20.78	20.95	20.48
GPRS (GMSK, 2-Slot)	26.95	27.25	27.09	23.13	23.10	22.55
GPRS (GMSK, 3-Slot)	26.61	26.87	26.69	22.88	22.77	22.21
GPRS (GMSK, 4-Slot)	26.44	26.65	26.43	22.74	22.63	21.98
EGPRS(8PSK, 1-Slot)	19.77	19.92	19.99	16.69	17.25	17.01
EGPRS(8PSK, 2-Slot)	21.98	21.96	22.14	18.83	19.09	18.55
EGPRS(8PSK, 3-Slot)	21.53	21.48	21.50	18.21	18.15	18.33
EGPRS(8PSK, 4-Slot)	21.68	21.77	21.84	17.91	17.56	17.63

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	23.63	23.64	23.66	23.83	23.88	23.75
HSDPA Subtest-1	22.69	22.70	22.72	22.84	22.88	22.77
HSDPA Subtest-2	22.35	22.35	22.17	22.39	22.41	22.29
HSDPA Subtest-3	21.37	21.01	21.34	21.35	21.02	21.38
HSDPA Subtest-4	20.94	20.91	20.95	21.53	21.15	21.22
HSUPA Subtest-1	22.42	22.45	22.46	21.59	22.68	22.55
HSUPA Subtest-2	22.58	22.56	22.62	22.78	22.75	22.61
HSUPA Subtest-3	21.25	21.45	21.35	20.99	21.57	21.46
HSUPA Subtest-4	22.69	22.68	22.70	22.82	22.84	22.73
HSUPA Subtest-5	21.99	22.15	22.01	21.39	22.23	22.21

**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	12.76	18.88
	7	2442	12.42	17.46
	13	2472	12.42	17.46
802.11g	1	2412	12.00	15.85
	7	2442	11.95	15.67
	13	2472	11.87	15.38
802.11 n-HT20	1	2412	13.97	24.95
	7	2442	13.92	24.66
	13	2472	13.99	25.06
802.11 n-HT40	3	2422	12.80	19.05
	7	2442	12.84	19.23
	11	2462	13.43	22.03

5.2G WIFI

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11a	36	5180	12.59	18.16
	48	5240	12.79	19.01
802.11 n-HT20	36	5180	12.44	17.54
	48	5240	12.22	16.67
802.11 ac-VHT40	38	5190	11.61	14.49
	46	5230	12.41	17.42

5.8G WIFI

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
802.11a	149	5745	9.75	9.44
	157	5785	10.19	10.45
	165	5825	9.66	9.25
802.11 n-HT20	149	5745	9.68	9.29
	157	5785	10.53	11.30
	165	5825	9.57	9.06
802.11 ac-VHT40	151	5755	10.21	10.50
	159	5795	9.88	9.73



Bluetooth

BT		
Mode	Max EIRP (dBm)	Output Power (mW)
GFSK(1Mbps)	3.37	2.17
QPSK(2Mbps)	2.08	1.61
8DPSK(3Mbps)	1.29	1.35

BLE

BLE			
Mode	Frequency (MHz)	Max EIRP (dBm)	Output Power (mW)
GFSK(1Mbps)	2402	2.56	1.80
	2440	1.64	1.46
	2480	1.83	1.52
GFSK(2Mbps)	2402	2.11	1.63
	2440	1.73	1.49
	2480	1.95	1.57

*Note: According to EN50663 and EN 62479, The available antenna power of this EUT BT is **3.37dBm (2.17mW)**, the power is less than the low-power exclusion level defined (P_{max} : **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	23.20	Passed
	18025	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.13	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.23	Passed
	18025	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.21	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.20	Passed
	18300	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.22	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.34	Passed
	18300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.40	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.31	Passed
	18575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.30	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.39	Passed
	18575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.45	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.95	Passed
	18100	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.97	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.06	Passed
	18100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.05	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.14	Passed
	18300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.08	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.15	Passed
	18300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.12	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.03	Passed
	18500	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.04	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.20	Passed
	18500	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.19	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	23.21	Passed
	19207	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.22	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.24	Passed
	19207	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.22	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.88	Passed
	19575	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.84	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.93	Passed
	19575	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.97	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.77	Passed
	19943	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.82	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.78	Passed
	19943	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	22.79	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.08	Passed
	19225	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.03	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.14	Passed
	19225	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.13	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.85	Passed
	19575	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.84	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.93	Passed
	19575	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.88	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.61	Passed
	19925	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.61	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.74	Passed
	19925	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.72	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.83	Passed
	19300	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.63	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.97	Passed
	19300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.82	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.72	Passed
	19575	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.58	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.72	Passed
	19575	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.63	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.49	Passed
	19850	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.38	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.62	Passed
	19850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.49	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	23.47	Passed
	20775	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.56	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.58	Passed
	20775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.63	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.22	Passed
	21100	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.22	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.29	Passed
	21100	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.23	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.66	Passed
	21425	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.94	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.68	Passed
	21425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.11	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.31	Passed
	20850	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.48	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.43	Passed
	20850	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.62	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.88	Passed
	21100	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.58	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.97	Passed
	21100	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.45	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.59	Passed
	21350	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.02	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.71	Passed
	21350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.31	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	23.90	Passed
	21457	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.86	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.92	Passed
	21457	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.91	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.71	Passed
	21625	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.67	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.82	Passed
	21625	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.80	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	21793	BW:1.4;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.66	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	21793	BW:1.4;QPSK	5(RB-Pos:HIGH)	20.3	25.7	23.75	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.70	Passed
	21475	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.67	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.82	Passed
	21475	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.78	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.75	Passed
	21625	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.70	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.72	Passed
	21625	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.78	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.66	Passed
	21775	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.48	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	21775	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	21500	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.74	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.80	Passed
	21500	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.74	Passed
	21625	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.64	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.84	Passed
	21625	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.70	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.86	Passed
	21750	BW:10.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.69	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.76	Passed
	21750	BW:10.0;QPSK	12(RB-Pos:LOW)	20.3	25.7	23.61	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	24.25	Passed
	24175	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.21	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.36	Passed
	24175	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.30	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.09	Passed
	24300	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.10	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.23	Passed
	24300	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.31	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.19	Passed
	24425	BW:5.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.17	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.28	Passed
	24425	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	24.26	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	24250	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.91	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.19	Passed
	24250	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.96	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	24.00	Passed
	24300	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	24.01	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	24.04	Passed
	24300	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.99	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.54	Passed
	24350	BW:20.0;QPSK	1(RB-Pos:HIGh)	20.3	25.7	23.43	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.47	Passed
	24350	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.47	Passed



LTE Band	Channel Number	Bandwidth (MHz) and modulation	RB Set	Limit low (dBm)	Limit high (dBm)	Result (dBm)	verdict
28	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.41	Passed
	27225	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.28	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.47	Passed
	27225	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.39	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.08	Passed
	27375	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.10	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.12	Passed
	27375	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.10	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.61	Passed
	27645	BW:3;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.50	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.66	Passed
	27645	BW:3;QPSK	4(RB-Pos:LOW)	20.3	25.7	23.54	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.27	Passed
	27235	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.17	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.36	Passed
	27235	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.28	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.95	Passed
	27385	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.91	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.00	Passed
	27385	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	22.98	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	23.20	Passed
	27635	BW:5.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.11	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.48	Passed
	27635	BW:5.0;QPSK	8(RB-Pos:LOW)	20.3	25.7	23.38	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.98	Passed
	27310	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.71	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.05	Passed
	27310	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.80	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.72	Passed
	27460	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	22.94	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.78	Passed
	27460	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.99	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:LOW)	20.3	25.7	22.68	Passed
	27560	BW:20.0;QPSK	1(RB-Pos:HIGH)	20.3	25.7	23.13	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	22.84	Passed
	27560	BW:20.0;QPSK	18(RB-Pos:LOW)	20.3	25.7	23.14	Passed



9.1 Tune up power

Mode	GSM900	GSM1800
GSM/PCS	33.5±1dBm	29±1dBm
GPRS (1 Slot)	33.5±1dBm	29±1dBm
GPRS (2 Slot)	32.5±1dBm	28.5±1dBm
GPRS (3 Slot)	30.5±1dBm	26.5±1dBm
GPRS (4 Slot)	29±1dBm	25±1dBm
EDGE (1 Slot)	28.5±1dBm	25.5±1dBm
EDGE (2 Slot)	27.5±1dBm	24±1dBm
EDGE (3 Slot)	25±1dBm	22±1dBm
EDGE (4 Slot)	24±1dBm	20±1dBm

Mode	WCDMA Band 1	WCDMA Band 8
RMC	23±1dBm	23±1dBm
HSDPA Subtest-1	22±1dBm	22±1dBm
HSDPA Subtest-2	21.5±1dBm	21.5±1dBm
HSDPA Subtest-3	20.5±1dBm	20.5±1dBm
HSDPA Subtest-4	20±1dBm	21±1dBm
HSUPA Subtest-1	21.5±1dBm	22±1dBm
HSUPA Subtest-2	22±1dBm	22±1dBm
HSUPA Subtest-3	20.5±1dBm	21±1dBm
HSUPA Subtest-4	22±1dBm	22±1dBm
HSUPA Subtest-5	21.5±1dBm	21.5±1dBm

BW[MHz]	Mode	Band 1	Band 3	Band 7
1.4	QPSK	/	22.5±1dBm	/
3	QPSK	/	/	/
5	QPSK	22.5±1dBm	22.5±1dBm	24±1dBm
10	QPSK	/	/	/
20	QPSK	22.5±1dBm	22±1dBm	24±1dBm

BW[MHz]	Mode	Band 8	Band 20	Band 28
1.4	QPSK	23±1dBm	/	/
3	QPSK	/	/	23±1dBm
5	QPSK	23±1dBm	23.5±1dBm	22.5±1dBm
10	QPSK	23±1dBm	/	/
20	QPSK	/	23.5±1dBm	22.5±1dBm



Mode	2.4G WLAN
802.11b	12±1dBm
802.11g	11.5±1dBm
802.11n(HT 20)	13.5±1dBm
802.11n(HT 40)	12.5±1dBm

Mode	5.2G WLAN
802.11a	12±1dBm
802.11 n-HT20	11.5±1dBm
802.11 ac-VHT40	11.5±1dBm

Mode	5.8G WLAN
802.11a	9.5±1dBm
802.11 n-HT20	10±1dBm
802.11 ac-VHT40	9.5±1dBm

Mode	BT
GFSK	2.5±1dBm
$\pi/4$ -DQPSK	1.5±1dBm
8DPSK	0.5±1dBm

Mode	BLE
GFSK(1Mbps)	2±1dBm
GFSK(2Mbps)	1.5±1dBm

10. Test Photos and Results

10.1 EUT Photos

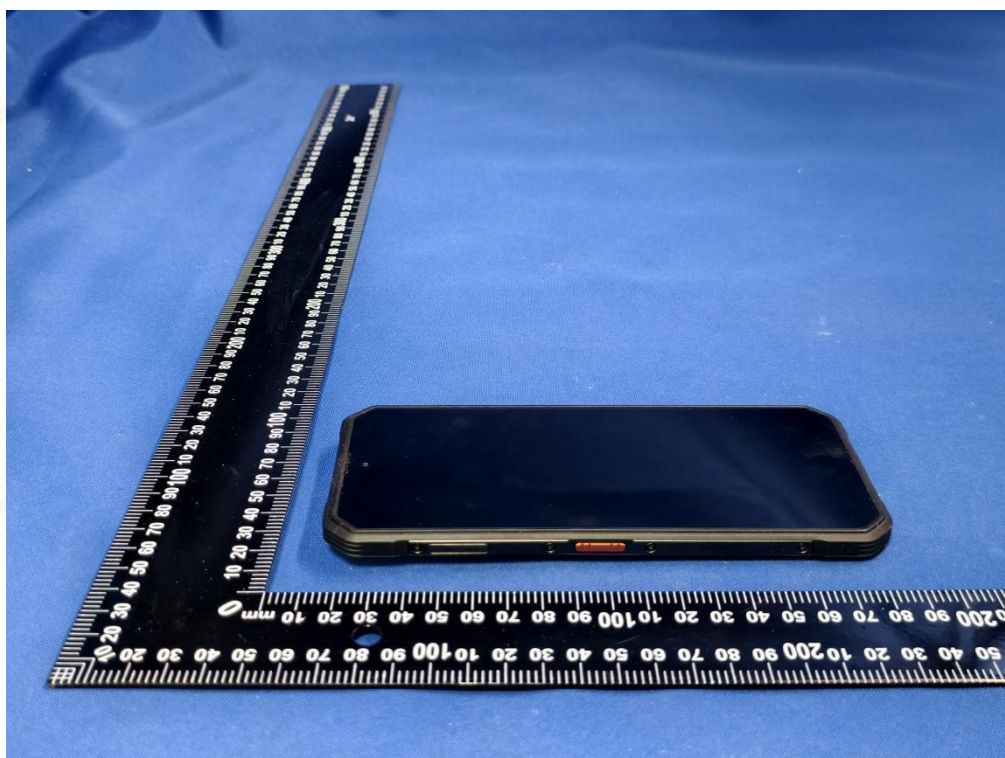
Front side



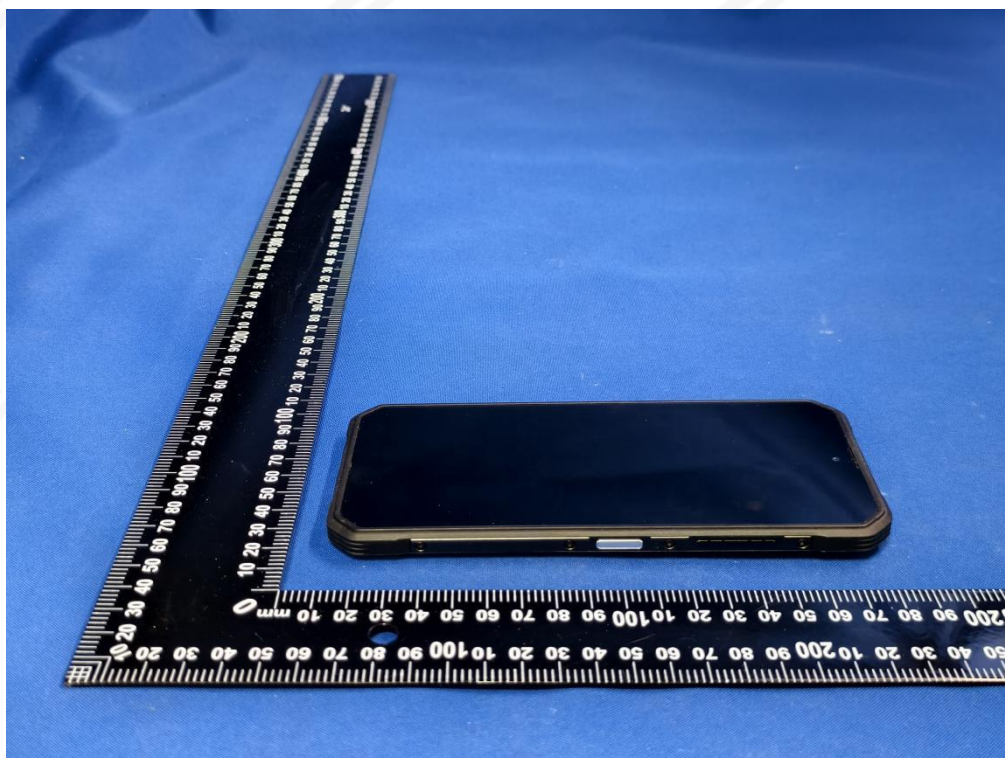
Back side



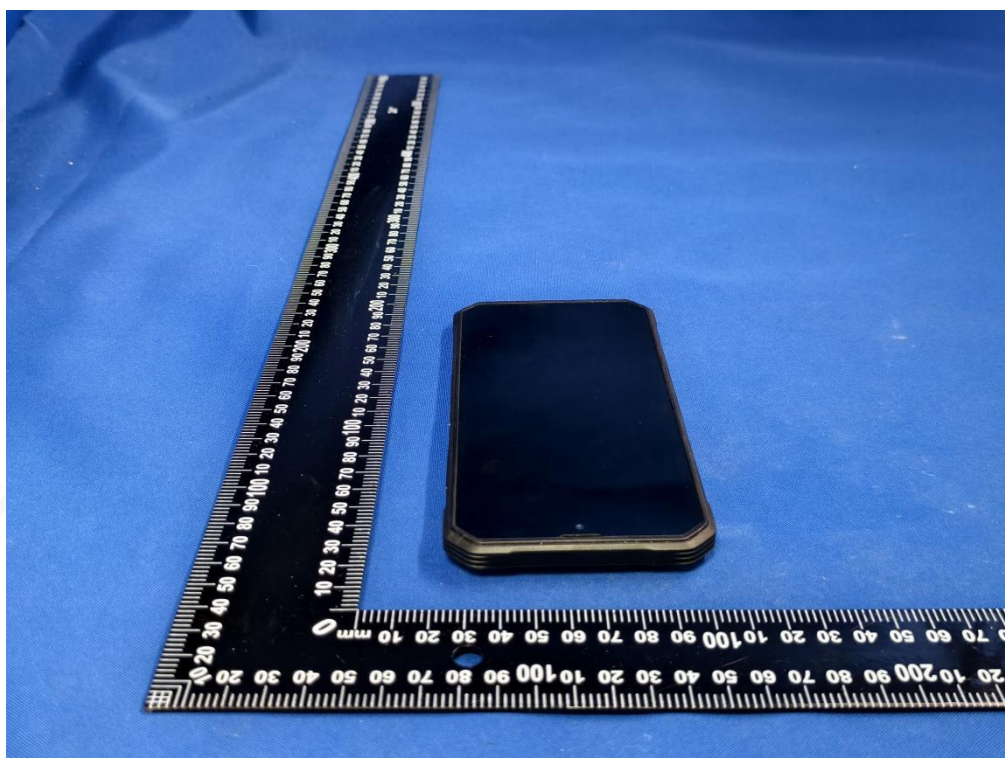
Left Edge



Right Edge



Top Edge



Bottom Edge





10.2 Setup Photos

Right Cheek



Right Tilt

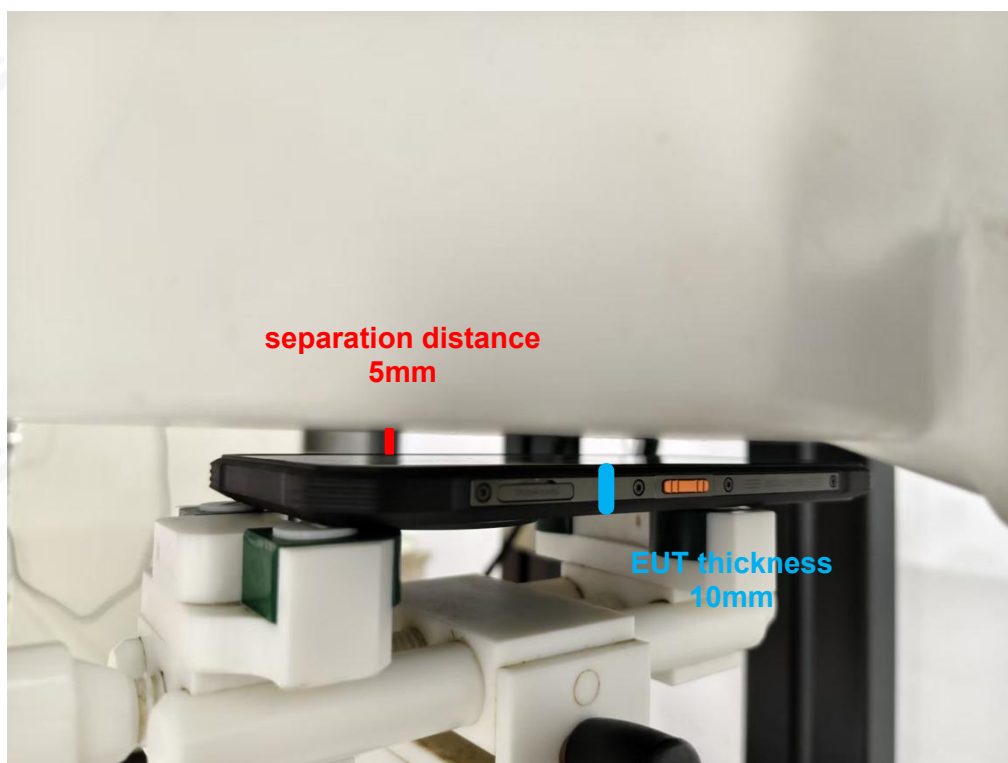


Left Cheek



Left Tilt





Back Side



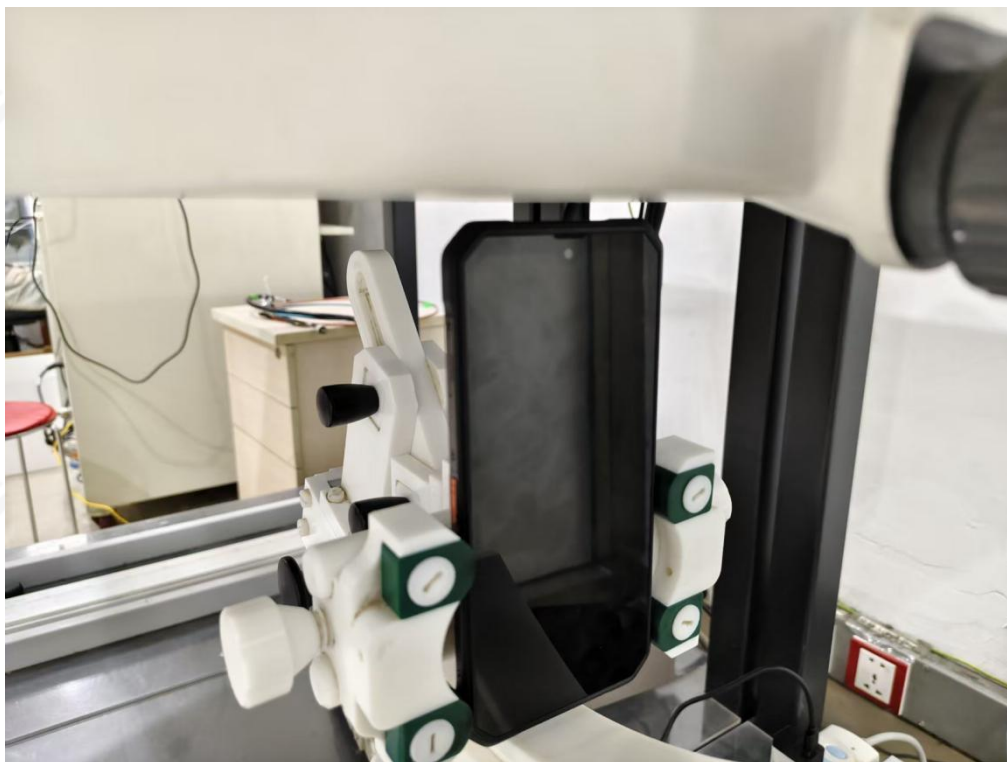
Left Edge



Right Edge

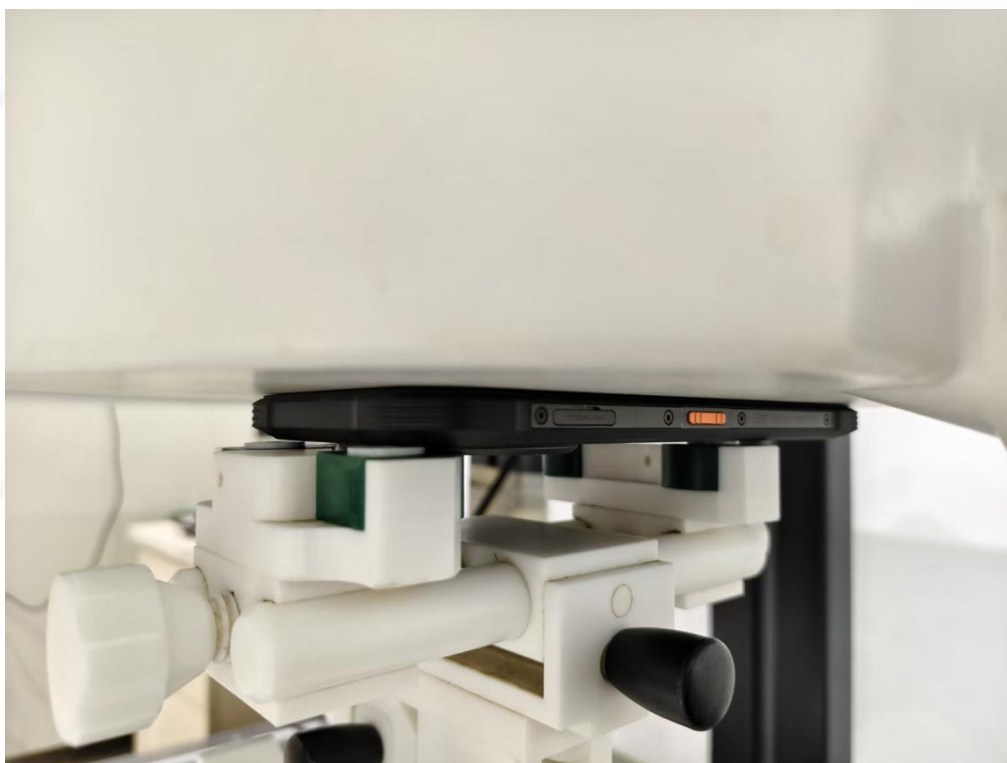


Top Edge

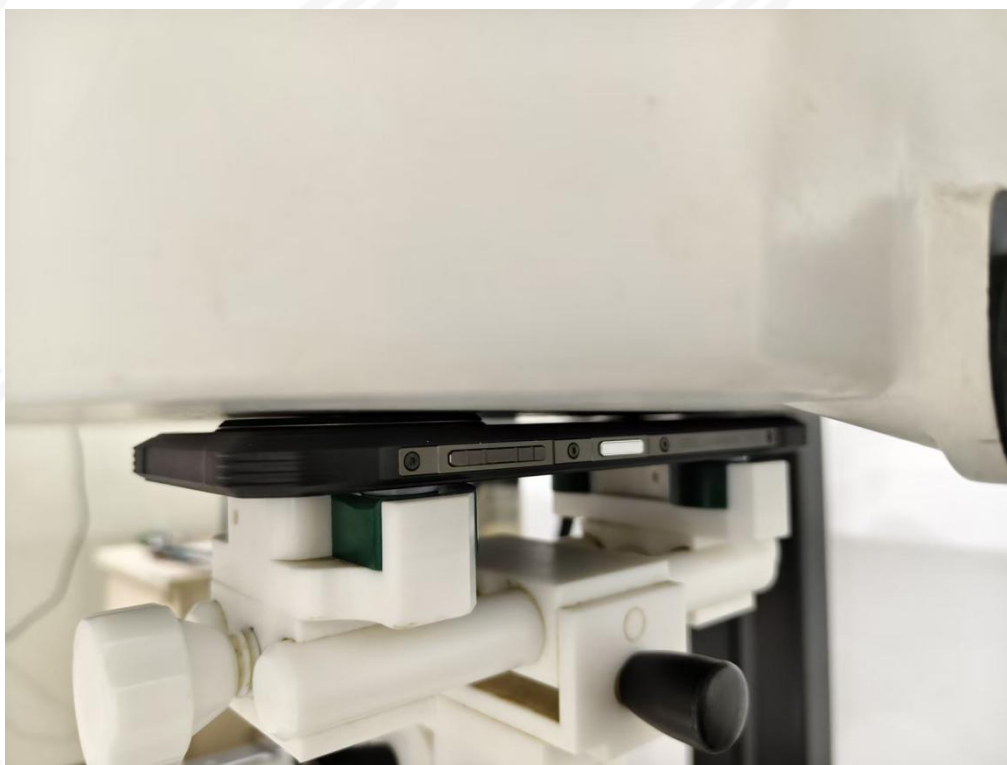


Bottom Edge





Back Side



Left Edge



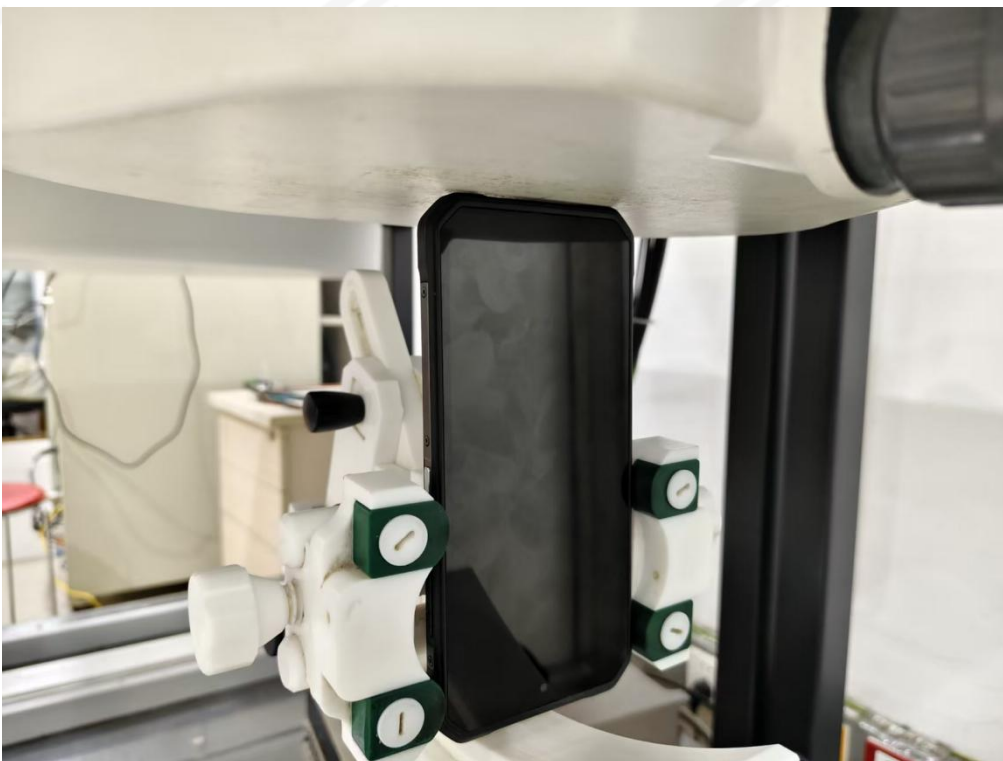
Right Edge



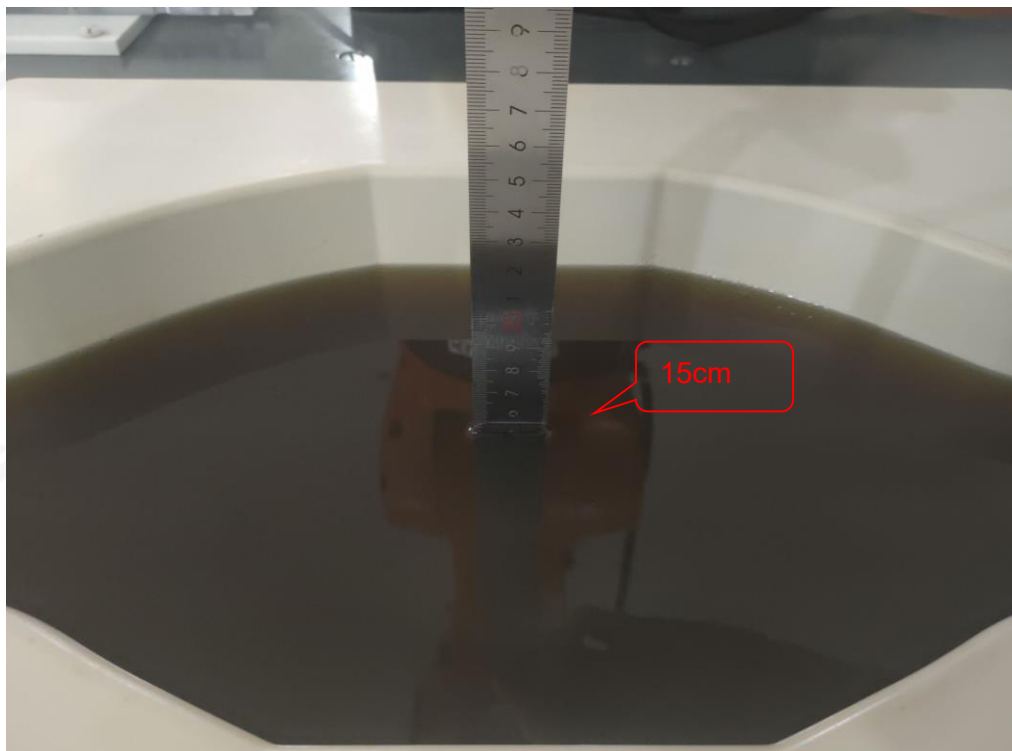
Top Edge



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	0.100	3.20	34.50	34.13	0.109	1
		Right Tilt	897.4	0.056	-2.03	34.50	34.13	0.061	/
		Left Cheek	897.4	0.088	-0.72	34.50	34.13	0.096	/
		Left Tilt	897.4	0.036	-0.27	34.50	34.13	0.039	/
GSM1800	Voice	Right Cheek	1747.8	0.475	2.67	30.00	29.92	0.484	4
		Right Tilt	1747.8	0.252	2.23	30.00	29.92	0.257	/
		Left Cheek	1747.8	0.421	2.52	30.00	29.92	0.429	/
		Left Tilt	1747.8	0.230	2.51	30.00	29.92	0.234	/
WCDMA Band I	RMC	Right Cheek	1922.4	1.456	-2.01	24.00	23.63	1.585	/
		Right Cheek	1950	1.471	-3.79	24.00	23.64	1.598	/
		Right Cheek	1977.6	1.562	-2.87	24.00	23.66	1.689	7
		Right Tilt	1977.6	0.559	-3.87	24.00	23.66	0.605	/
		Left Cheek	1977.6	1.208	-2.54	24.00	23.66	1.306	/
		Left Tilt	1977.6	0.561	3.96	24.00	23.66	0.607	/
WCDMA Band VIII	RMC	Right Cheek	897.4	0.069	-1.50	24.00	23.88	0.071	10
		Right Tilt	897.4	0.028	1.24	24.00	23.88	0.029	/
		Left Cheek	897.4	0.066	3.14	24.00	23.88	0.068	/
		Left Tilt	897.4	0.019	2.75	24.00	23.88	0.020	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1930	1.019	-0.40	23.50	23.06	1.128	/
		Right Cheek	1950	1.205	0.41	23.50	23.15	1.306	/
		Right Cheek	1970	1.314	-0.96	23.50	23.20	1.408	13
		Right Tilt	1970	0.559	-3.02	23.50	23.20	0.599	/
		Left Cheek	1970	0.927	-3.75	23.50	23.20	0.993	/
		Left Tilt	1970	0.486	2.60	23.50	23.20	0.521	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1720	1.004	-0.56	23.00	22.97	1.011	16
		Right Cheek	1747.5	0.938	0.27	23.00	22.72	1.000	/
		Right Cheek	1775	0.903	0.95	23.00	22.62	0.986	/
		Right Tilt	1720	0.445	-0.31	23.00	22.97	0.448	/
		Left Cheek	1720	0.837	0.33	23.00	22.97	0.843	/
		Left Tilt	1720	0.396	2.69	23.00	22.97	0.399	/
LTE Band 7	20MHz BW, 1RB Offset 0	Right Cheek	2560	0.153	-3.68	25.00	24.71	0.164	19
		Right Tilt	2560	0.088	1.90	25.00	24.71	0.094	/
		Left Cheek	2560	0.131	-3.01	25.00	24.71	0.140	/
		Left Tilt	2560	0.076	-2.96	25.00	24.71	0.081	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	910	0.114	3.74	24.00	23.86	0.118	22
		Right Tilt	910	0.077	2.89	24.00	23.86	0.080	/
		Left Cheek	910	0.102	-1.81	24.00	23.86	0.105	/
		Left Tilt	910	0.055	-0.02	24.00	23.86	0.057	/
LTE Band 20	20MHz BW, 1RB Offset 0	Right Cheek	842	0.070	-0.12	24.50	24.19	0.075	25
		Right Tilt	842	0.022	2.02	24.50	24.19	0.024	/
		Left Cheek	842	0.059	-2.88	24.50	24.19	0.063	/
		Left Tilt	842	0.017	1.57	24.50	24.19	0.018	/



LTE Band 28	20MHz BW, 1RB Offset 0	Right Cheek	738	0.054	-1.42	23.50	23.14	0.059	28
		Right Tilt	738	0.026	-0.73	23.50	23.14	0.028	/
		Left Cheek	738	0.051	0.38	23.50	23.14	0.055	/
		Left Tilt	738	0.021	1.84	23.50	23.14	0.023	/
2.4GHz WLAN	802.11b	Right Cheek	2412	0.054	2.08	13.00	12.76	0.057	31
		Right Tilt	2412	0.011	-0.86	13.00	12.76	0.012	/
		Left Cheek	2412	0.022	0.35	13.00	12.76	0.023	/
		Left Tilt	2412	0.008	2.82	13.00	12.76	0.008	/
5.2GHz WLAN	802.11a	Right Cheek	5240	0.032	3.27	13.00	12.79	0.034	34
		Right Tilt	5240	0.018	-1.04	13.00	12.79	0.019	/
		Left Cheek	5240	0.023	-0.85	13.00	12.79	0.024	/
		Left Tilt	5240	0.012	-3.23	13.00	12.79	0.013	/
5.8GHz WLAN	802.11 n-HT20	Right Cheek	5785	0.039	2.09	11.00	10.53	0.043	37
		Right Tilt	5785	0.017	2.06	11.00	10.53	0.019	/
		Left Cheek	5785	0.029	2.69	11.00	10.53	0.032	/
		Left Tilt	5785	0.011	0.05	11.00	10.53	0.012	/

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.



11.2 Body 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, 2-Slot)	Front Side	897.4	0.442	0.90	33.50	33.27	0.466	/
		Back Side	897.4	0.463	-0.59	33.50	33.27	0.488	2
		Left Edge	897.4	0.239	3.32	33.50	33.27	0.252	/
		Right Edge	897.4	0.268	-2.38	33.50	33.27	0.283	/
		Top Edge	897.4	0.384	-1.69	33.50	33.27	0.405	/
		Bottom Edge	897.4	0.191	2.72	33.50	33.27	0.201	/
GSM1800	GPRS (GMSK, 4-Slot)	Front Side	1710.2	0.231	3.74	29.50	29.15	0.250	/
		Back Side	1710.2	0.262	1.33	29.50	29.15	0.284	5
		Left Edge	1710.2	0.132	-3.34	29.50	29.15	0.143	/
		Right Edge	1710.2	0.109	3.25	29.50	29.15	0.118	/
		Top Edge	1710.2	0.156	0.89	29.50	29.15	0.169	/
		Bottom Edge	1710.2	0.088	-1.41	29.50	29.15	0.095	/
WCDMA Band I	RMC	Front Side	1977.6	0.864	-2.18	24.00	23.66	0.934	/
		Back Side	1977.6	0.942	-3.09	24.00	23.66	1.019	8
		Left Edge	1977.6	0.439	-2.54	24.00	23.66	0.475	/
		Right Edge	1977.6	0.464	-0.96	24.00	23.66	0.502	/
		Top Edge	1977.6	0.737	-3.68	24.00	23.66	0.797	/
		Bottom Edge	1977.6	0.339	-2.75	24.00	23.66	0.367	/
WCDMA Band VIII	RMC	Front Side	897.4	0.225	-1.49	24.00	23.88	0.231	/
		Back Side	897.4	0.292	3.20	24.00	23.88	0.300	11
		Left Edge	897.4	0.115	-1.88	24.00	23.88	0.118	/
		Right Edge	897.4	0.121	-0.94	24.00	23.88	0.124	/
		Top Edge	897.4	0.155	1.67	24.00	23.88	0.159	/
		Bottom Edge	897.4	0.087	-0.56	24.00	23.88	0.089	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1970	0.796	-2.94	23.50	23.20	0.853	/
		Back Side	1970	0.838	-2.89	23.50	23.20	0.898	14
		Left Edge	1970	0.502	-3.50	23.50	23.20	0.538	/
		Right Edge	1970	0.469	1.08	23.50	23.20	0.503	/
		Top Edge	1970	0.636	3.75	23.50	23.20	0.681	/
		Bottom Edge	1970	0.381	-0.19	23.50	23.20	0.408	/
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1720	0.405	0.76	23.00	22.97	0.408	/
		Back Side	1720	0.436	1.24	23.00	22.97	0.439	17
		Left Edge	1720	0.196	2.66	23.00	22.97	0.197	/
		Right Edge	1720	0.187	-1.69	23.00	22.97	0.188	/
		Top Edge	1720	0.305	2.42	23.00	22.97	0.307	/
		Bottom Edge	1720	0.223	-3.78	23.00	22.97	0.225	/
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2560	0.898	3.19	25.00	24.71	0.960	/
		Back Side	2510	1.239	-3.30	23.50	23.43	1.259	/
		Back Side	2535	1.156	1.12	24.00	23.97	1.164	/
		Back Side	2560	1.361	0.06	25.00	24.71	1.455	20
		Left Edge	2560	0.619	0.39	25.00	24.71	0.662	/
		Right Edge	2560	0.657	2.32	25.00	24.71	0.702	/
		Top Edge	2560	0.773	3.32	25.00	24.71	0.826	/
		Bottom Edge	2560	0.329	-1.60	25.00	24.71	0.352	/



LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	910	0.261	2.99	24.00	23.86	0.270	/
		Back Side	910	0.328	0.56	24.00	23.86	0.339	23
		Left Edge	910	0.167	1.02	24.00	23.86	0.172	/
		Right Edge	910	0.128	-0.88	24.00	23.86	0.132	/
		Top Edge	910	0.281	-1.25	24.00	23.86	0.290	/
		Bottom Edge	910	0.137	2.87	24.00	23.86	0.141	/
LTE Band 20	20MHz BW, 1RB Offset 0	Front Side	842	0.308	-3.49	24.50	24.19	0.331	/
		Back Side	842	0.364	-3.87	24.50	24.19	0.391	25
		Left Edge	842	0.221	2.24	24.50	24.19	0.237	/
		Right Edge	842	0.210	-1.16	24.50	24.19	0.226	/
		Top Edge	842	0.263	-1.50	24.50	24.19	0.282	/
		Bottom Edge	842	0.115	-0.20	24.50	24.19	0.124	/
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	738	0.205	0.69	23.50	23.14	0.223	/
		Back Side	738	0.221	1.28	23.50	23.14	0.240	28
		Left Edge	738	0.169	0.31	23.50	23.14	0.184	/
		Right Edge	738	0.154	0.14	23.50	23.14	0.167	/
		Top Edge	738	0.173	-0.12	23.50	23.14	0.188	/
		Bottom Edge	738	0.105	1.37	23.50	23.14	0.114	/
2.4GHz WLAN	802.11b	Front Side	2412	0.038	0.14	13.00	12.76	0.040	/
		Back Side	2412	0.046	-2.28	13.00	12.76	0.049	31
		Left Edge	2412	0.022	-2.76	13.00	12.76	0.023	/
		Right Edge	2412	0.016	3.09	13.00	12.76	0.017	/
		Top Edge	2412	0.035	-1.53	13.00	12.76	0.037	/
		Bottom Edge	2412	0.011	-1.75	13.00	12.76	0.012	/
5.2GHz WLAN	802.11a	Front Side	5240	0.089	-2.23	13.00	12.79	0.093	/
		Back Side	5240	0.095	3.32	13.00	12.79	0.100	34
		Left Edge	5240	0.055	2.49	13.00	12.79	0.058	/
		Right Edge	5240	0.049	3.13	13.00	12.79	0.051	/
		Top Edge	5240	0.063	2.50	13.00	12.79	0.066	/
		Bottom Edge	5240	0.032	-2.51	13.00	12.79	0.034	/
5.8GHz WLAN	802.11a	Front Side	5785	0.115	3.95	11.00	10.53	0.128	/
		Back Side	5785	0.147	-1.84	11.00	10.53	0.164	37
		Left Edge	5785	0.077	-1.96	11.00	10.53	0.086	/
		Right Edge	5785	0.085	1.55	11.00	10.53	0.095	/
		Top Edge	5785	0.106	0.55	11.00	10.53	0.118	/
		Bottom Edge	5785	0.046	0.52	11.00	10.53	0.051	/

Note:

1. The test separation of all above table is 5mm.
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 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, 2-Slot)	Front Side	897.4	0.811	1.33	33.50	33.27	0.855	/
		Back Side	880.2	0.911	-0.97	33.00	32.97	0.917	/
		Back Side	897.4	0.931	2.55	33.50	33.27	0.982	3
		Back Side	914.8	0.879	-3.38	33.50	33.11	0.962	/
		Left Edge	897.4	0.551	-2.74	33.50	33.27	0.581	/
		Right Edge	897.4	0.521	1.01	33.50	33.27	0.549	/
		Top Edge	897.4	0.689	-0.48	33.50	33.27	0.726	/
		Bottom Edge	897.4	0.417	3.91	33.50	33.27	0.440	/
GSM1800	GPRS (GMSK, 4-Slot)	Front Side	1710.2	0.565	1.12	29.50	29.15	0.612	/
		Back Side	1710.2	0.621	1.73	29.50	29.15	0.673	6
		Left Edge	1710.2	0.451	3.05	29.50	29.15	0.489	/
		Right Edge	1710.2	0.446	-1.31	29.50	29.15	0.483	/
		Top Edge	1710.2	0.532	0.74	29.50	29.15	0.577	/
		Bottom Edge	1710.2	0.391	3.57	29.50	29.15	0.424	/
WCDMA Band I	RMC	Front Side	1977.6	1.316	-1.48	24.00	23.66	1.423	/
		Back Side	1922.4	1.678	-2.35	24.00	23.63	1.827	/
		Back Side	1950	1.751	1.59	24.00	23.64	1.902	/
		Back Side	1977.6	1.796	3.24	24.00	23.66	1.942	9
		Left Edge	1977.6	0.754	-0.53	24.00	23.66	0.815	/
		Right Edge	1977.6	0.721	1.74	24.00	23.66	0.780	/
		Top Edge	1977.6	0.885	-3.50	24.00	23.66	0.957	/
		Bottom Edge	1977.6	0.651	-1.77	24.00	23.66	0.704	/
WCDMA Band VIII	RMC	Front Side	897.4	0.951	0.34	24.00	23.88	0.978	/
		Back Side	882.4	1.088	-1.67	24.00	23.83	1.131	/
		Back Side	897.4	1.196	-2.60	24.00	23.88	1.230	12
		Back Side	912.6	1.105	-3.15	24.00	23.75	1.170	/
		Left Edge	897.4	0.732	1.72	24.00	23.88	0.753	/
		Right Edge	897.4	0.714	3.82	24.00	23.88	0.734	/
		Top Edge	897.4	0.779	-1.41	24.00	23.88	0.801	/
		Bottom Edge	897.4	0.615	-0.32	24.00	23.88	0.632	/
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1970	1.326	0.28	23.50	23.20	1.421	/
		Back Side	1930	1.569	-3.58	23.50	23.06	1.736	/
		Back Side	1950	1.676	-1.95	23.50	23.15	1.817	/
		Back Side	1970	1.812	3.34	23.50	23.20	1.942	15
		Left Edge	1970	0.936	-1.28	23.50	23.20	1.003	/
		Right Edge	1970	0.924	0.36	23.50	23.20	0.990	/
		Top Edge	1970	0.868	3.71	23.50	23.20	0.930	/
		Bottom Edge	1970	0.648	1.92	23.50	23.20	0.694	/
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1720	1.158	-2.27	23.00	22.97	1.166	/
		Back Side	1720	1.682	1.59	23.00	22.97	1.694	18
		Back Side	1747.5	1.471	1.95	23.00	22.72	1.569	/
		Back Side	1775	1.396	-1.70	23.00	22.62	1.524	/
		Left Edge	1720	0.858	1.36	23.00	22.97	0.864	/
		Right Edge	1720	0.841	2.60	23.00	22.97	0.847	/
		Top Edge	1720	1.051	-3.02	23.00	22.97	1.058	/



		Bottom Edge	1720	0.654	-1.84	23.00	22.97	0.659	/
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2560	1.851	0.25	25.00	24.71	1.979	/
		Back Side	2510	2.251	-0.66	23.50	23.43	2.288	/
		Back Side	2535	2.187	-1.60	24.00	23.97	2.202	/
		Back Side	2560	2.464	1.12	25.00	24.71	2.634	21
		Left Edge	2560	1.115	2.42	25.00	24.71	1.192	/
		Right Edge	2560	1.087	0.23	25.00	24.71	1.162	/
		Top Edge	2560	1.261	-2.72	25.00	24.71	1.348	/
		Bottom Edge	2560	0.887	0.37	25.00	24.71	0.948	/
LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	910	0.631	-1.73	24.00	23.86	0.652	/
		Back Side	910	0.668	-3.16	24.00	23.86	0.690	24
		Left Edge	910	0.421	3.36	24.00	23.86	0.435	/
		Right Edge	910	0.454	3.95	24.00	23.86	0.469	/
		Top Edge	910	0.552	3.70	24.00	23.86	0.570	/
		Bottom Edge	910	0.391	-0.15	24.00	23.86	0.404	/
LTE Band 20	20MHz BW, 1RB Offset 0	Front Side	842	0.516	-3.44	24.50	24.19	0.554	/
		Back Side	842	0.565	-2.85	24.50	24.19	0.607	27
		Left Edge	842	0.451	1.70	24.50	24.19	0.484	/
		Right Edge	842	0.436	1.83	24.50	24.19	0.468	/
		Top Edge	842	0.468	0.87	24.50	24.19	0.503	/
		Bottom Edge	842	0.237	-0.88	24.50	24.19	0.255	/
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	738	0.508	0.25	23.50	23.14	0.552	/
		Back Side	738	0.547	-1.75	23.50	23.14	0.594	30
		Left Edge	738	0.335	-0.20	23.50	23.14	0.364	/
		Right Edge	738	0.309	3.56	23.50	23.14	0.336	/
		Top Edge	738	0.469	-2.02	23.50	23.14	0.510	/
		Bottom Edge	738	0.287	-2.66	23.50	23.14	0.312	/
2.4GHz WLAN	802.11b	Front Side	2412	0.048	0.22	13.00	12.76	0.051	/
		Back Side	2412	0.061	-0.84	13.00	12.76	0.064	33
		Left Edge	2412	0.036	-3.38	13.00	12.76	0.038	/
		Right Edge	2412	0.033	1.47	13.00	12.76	0.035	/
		Top Edge	2412	0.044	3.15	13.00	12.76	0.046	/
		Bottom Edge	2412	0.028	-3.72	13.00	12.76	0.030	/
5.2GHz WLAN	802.11a	Front Side	5240	0.115	-2.48	13.00	12.79	0.121	/
		Back Side	5240	0.147	0.71	13.00	12.79	0.154	36
		Left Edge	5240	0.069	1.60	13.00	12.79	0.072	/
		Right Edge	5240	0.135	-1.21	13.00	12.79	0.142	/
		Top Edge	5240	0.087	1.92	13.00	12.79	0.091	/
		Bottom Edge	5240	0.033	0.52	13.00	12.79	0.035	/
5.8GHz WLAN	802.11 n-HT20	Front Side	5785	0.226	-1.14	11.00	10.53	0.252	/
		Back Side	5785	0.256	-0.80	11.00	10.53	0.285	39
		Left Edge	5785	0.167	-3.73	11.00	10.53	0.186	/
		Right Edge	5785	0.154	-3.66	11.00	10.53	0.172	/
		Top Edge	5785	0.202	-3.16	11.00	10.53	0.225	/
		Bottom Edge	5785	0.103	0.97	11.00	10.53	0.115	/

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.

**11.4 Simultaneous Multi-band Transmission Evaluation:**

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1.GSM+ 2.4G/5G WLAN
	3.WCDMA+ 2.4G/5G WLAN
	5.LTE+ 2.4G/5G WLAN
Body	1.GSM+ 2.4G/5G WLAN
	3.WCDMA+ 2.4G/5G WLAN
	5.LTE+ 2.4G/5G WLAN
Limbs	1.GSM+ 2.4G/5G WLAN
	3.WCDMA+ 2.4G/5G WLAN
	5.LTE+ 2.4G/5G WLAN

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 according to the network signal condition, therefore, 2G/3G/4G 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	0.519	15.00	31.623	≤5	14.812	Yes
	Body	0.537			≤5	14.632	Yes
	Limbs	1.428			≤5	5.715	Yes
WCDMA + 2.4GWLAN	Head	1.724			≤5	2.758	Yes
	Body	1.067			≤5	9.327	Yes
	Limbs	2.007			≤5	-0.067	Yes
LTE + 2.4GWLAN	Head	1.443			≤5	5.570	Yes
	Body	1.504			≤5	4.964	Yes
	Limbs	2.698			≤5	-6.985	Yes
GSM + 5.2GWLAN	Head	0.517	15.50	35.481	≤5	14.826	Yes
	Body	0.588			≤5	14.121	Yes
	Limbs	1.488			≤5	5.122	Yes
WCDMA + 5.2GWLAN	Head	1.723			≤5	2.772	Yes
	Body	1.118			≤5	8.816	Yes
	Limbs	2.066			≤5	-0.661	Yes
LTE + 5.2GWLAN	Head	1.442			≤5	5.584	Yes
	Body	1.555			≤5	4.453	Yes
	Limbs	2.758			≤5	-7.578	Yes
GSM + 5.8GWLAN	Head	0.527	13.50	22.387	≤5	14.727	Yes
	Body	0.652			≤5	13.480	Yes
	Limbs	1.649			≤5	3.507	Yes
WCDMA + 5.8GWLAN	Head	1.733			≤5	2.673	Yes
	Body	1.183			≤5	8.175	Yes
	Limbs	2.228			≤5	-2.275	Yes
LTE + 5.8GWLAN	Head	1.451			≤5	5.485	Yes
	Body	1.619			≤5	3.812	Yes
	Limbs	2.919			≤5	-9.193	Yes

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	0.484	0.519
		2.4GHz WLAN	0.035	
	Body	GSM	0.488	0.537
		2.4GHz WLAN	0.049	
	Limbs	GSM	1.364	1.428
		2.4GHz WLAN	0.064	
WCDMA+ 2.4GWLAN	Head	WCDMA	1.689	1.724
		2.4GHz WLAN	0.035	
	Body	WCDMA	1.019	1.067
		2.4GHz WLAN	0.049	
	Limbs	WCDMA	1.942	2.007
		2.4GHz WLAN	0.064	
LTE + 2.4GWLAN	Head	LTE	1.408	1.443
		2.4GHz WLAN	0.035	
	Body	LTE	1.455	1.504
		2.4GHz WLAN	0.049	
	Limbs	LTE	2.634	2.698
		2.4GHz WLAN	0.064	
GSM + 5.2GWLAN	Head	GSM	0.484	0.517
		5.2GHz WLAN	0.034	
	Body	GSM	0.488	0.588
		5.2GHz WLAN	0.100	
	Limbs	GSM	1.364	1.488
		5.2GHz WLAN	0.124	
WDCMA+ 5.2GWLAN	Head	WCDMA	1.689	1.723
		5.2GHz WLAN	0.034	
	Body	WCDMA	1.019	1.118
		5.2GHz WLAN	0.100	
	Limbs	WCDMA	1.942	2.066
		5.2GHz WLAN	0.124	
LTE+ 5.2GWLAN	Head	LTE	1.408	1.442
		5.2GHz WLAN	0.034	
	Body	LTE	1.455	1.555
		5.2GHz WLAN	0.100	
	Limbs	LTE	2.634	2.758
		5.2GHz WLAN	0.124	
GSM + 5.8GWLAN	Head	GSM	0.484	0.527
		5.8GHz WLAN	0.043	
	Body	GSM	0.488	0.652
		5.8GHz WLAN	0.164	
	Limbs	GSM	1.364	1.649
		5.8GHz WLAN	0.285	
WDCMA+ 5.2GWLAN	Head	WCDMA	1.689	1.733
		5.8GHz WLAN	0.043	
	Body	WCDMA	1.019	1.183
		5.8GHz WLAN	0.164	
	Limbs	WCDMA	1.942	2.228
		5.8GHz WLAN	0.285	
LTE+ 5.2GWLAN	Head	LTE	1.408	1.451
		5.8GHz WLAN	0.043	
	Body	LTE	1.455	1.619
		5.8GHz WLAN	0.164	
	Limbs	LTE	2.634	2.919
		5.8GHz WLAN	0.285	



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
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	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 06/23 DIP1G900-226	2023.09.14	2026.09.13
2450MHzDipole	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
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPOG352	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
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	99899	DC-18GHz	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2024-04-08	2025-04-07
Directional coupler	Narda	4226-20	3305	N/A	N/A
Directional coupler	Xi'an Xingbo	XBOH-OA08- 20dB	211123-4-3	2024-04-15	2025-04-14
Network Analyzer	Agilent	E5071C	MY46520378	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

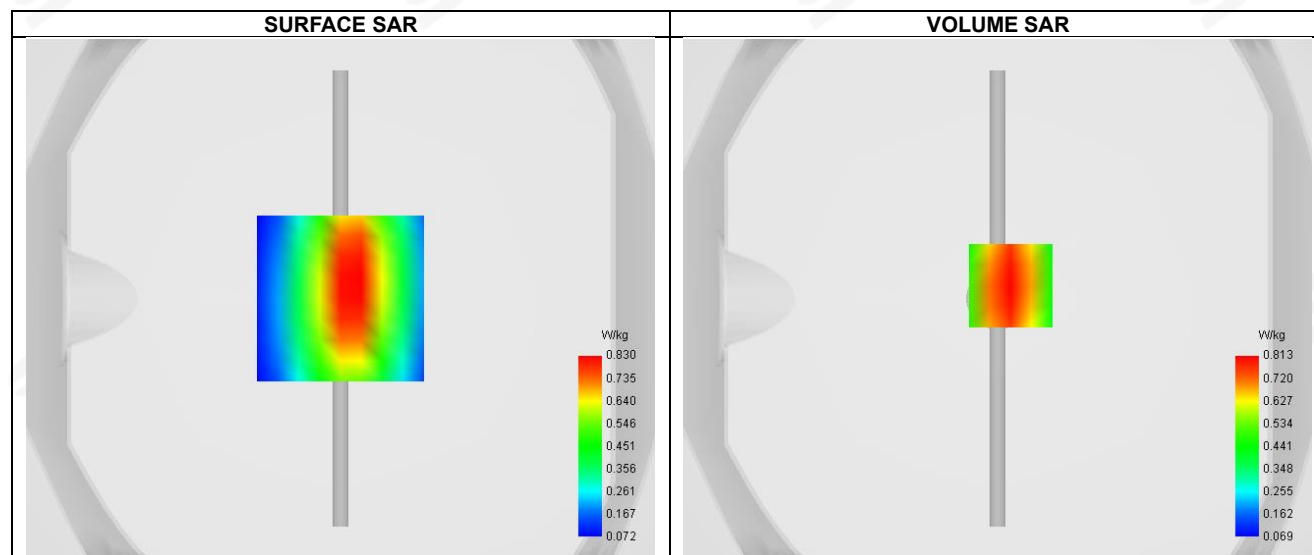
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-27

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	750MHz
Channels	-
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.65
Conductivity (S/m)	0.87
Probe	SN 08/21 EPGO352
ConvF	1.56
Crest factor:	1:1



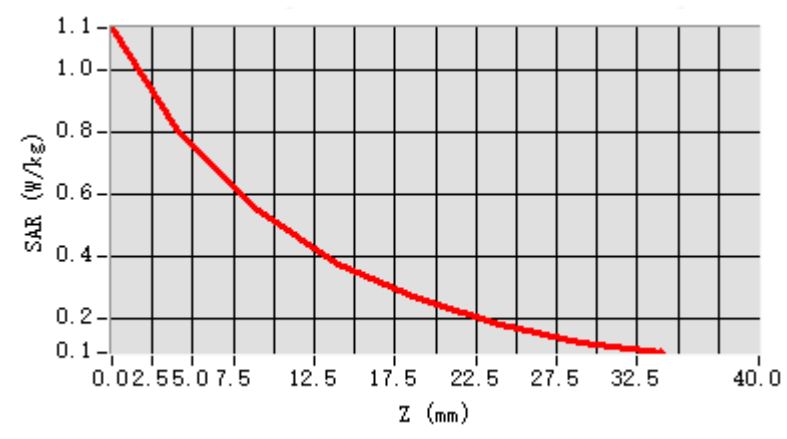
Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.13 W/kg

D. SAR 1g & 10g

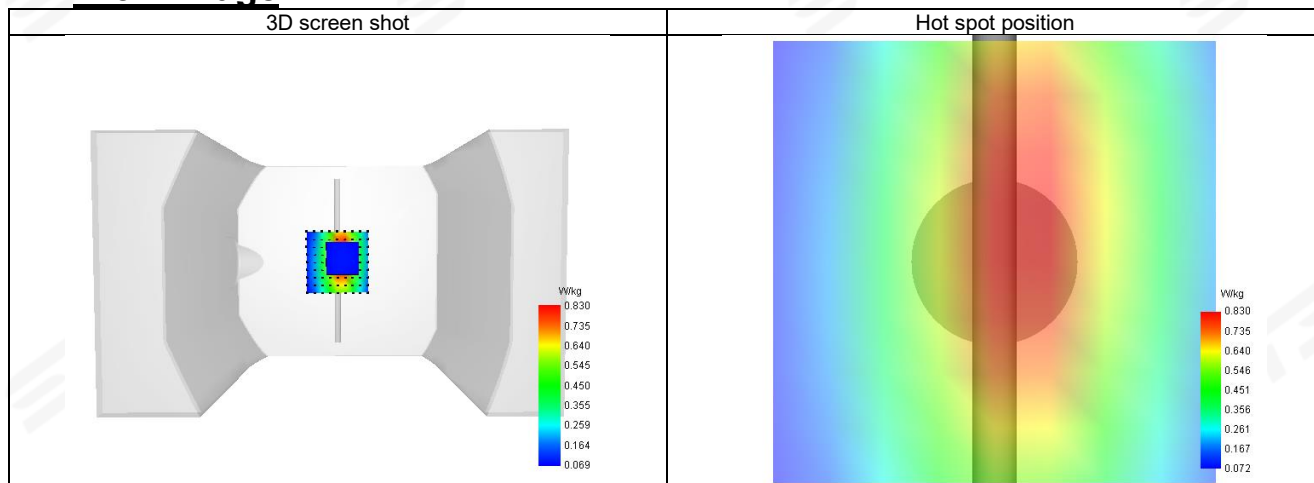
SAR 10g (W/Kg)	0.544
SAR 1g (W/Kg)	0.836
Horizontal validation criteria: minimum distance (mm)	11.332197
Vertical validation criteria: SAR ratio M2/M1 (%)	67.035670

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.133	0.813	0.545	0.371	0.263	0.181	0.125



F. 3D Image



**System Performance Check Data (835MHz)**

Type: Phone measurement (Complete)

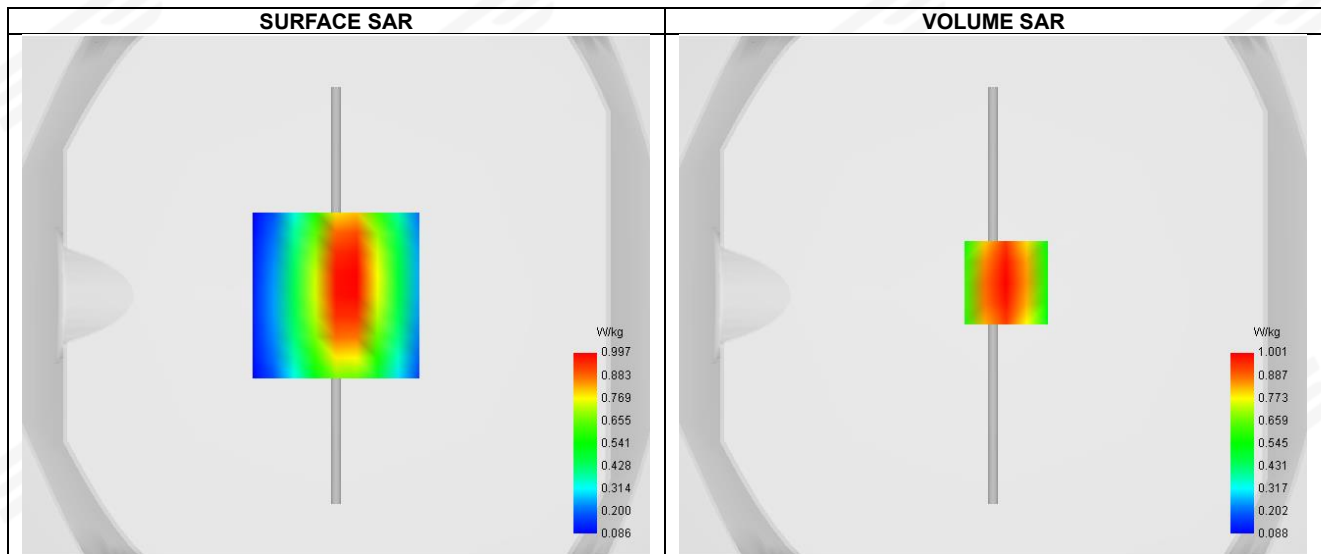
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-27

Experimental conditions.

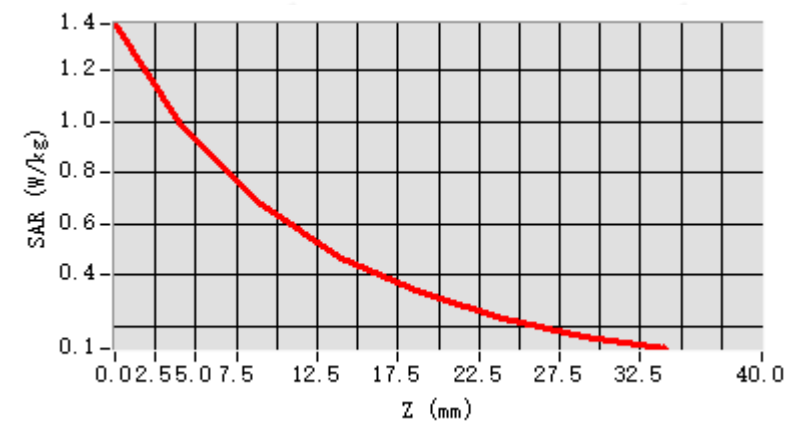
Phantom	Validation plane
Device Position	-
Band	835MHz
Channels	-
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.07
Conductivity (S/m)	0.93
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1

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

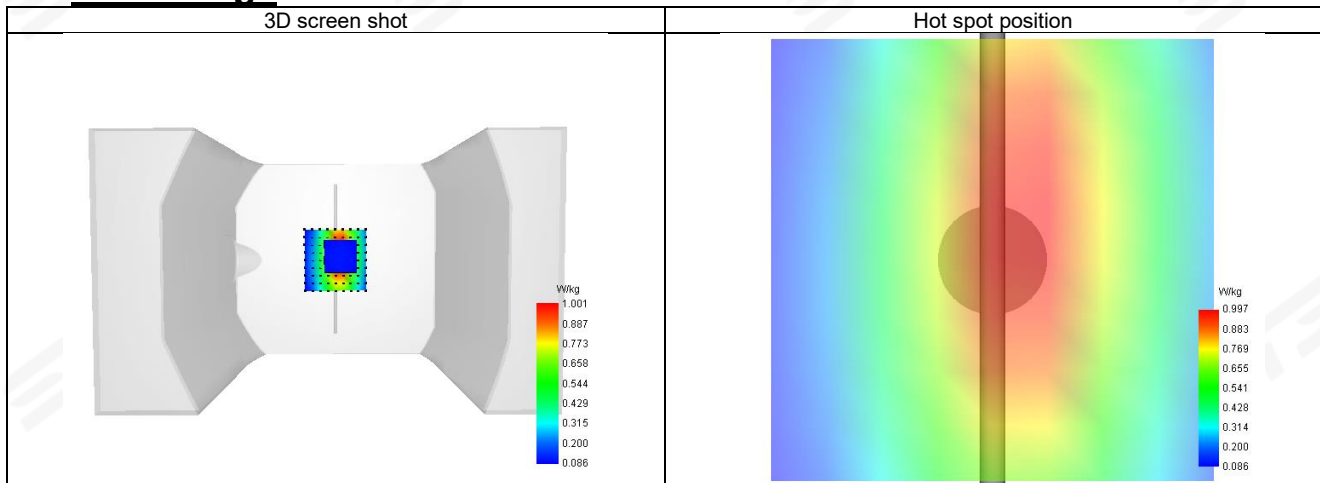
SAR 10g (W/Kg)	0.587
SAR 1g (W/Kg)	0.941
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.832167

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.381	1.001	0.679	0.467	0.331	0.229	0.159



F. 3D Image



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

Type: Phone measurement (Complete)

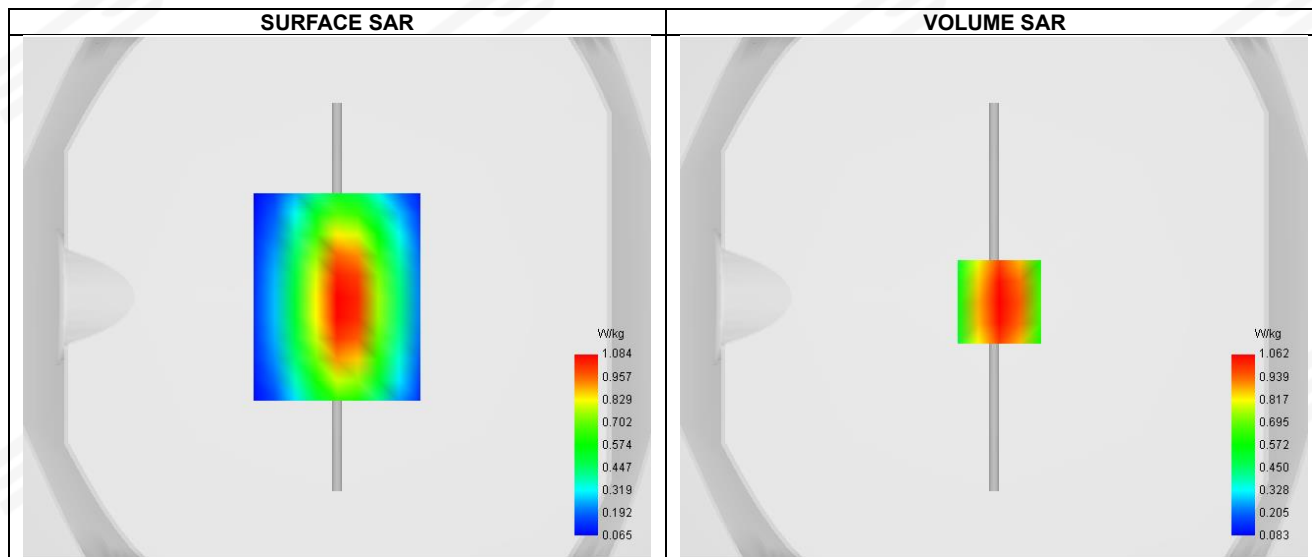
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-26

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	900MHz
Channels	-
Signal	CW
Frequency (MHz)	900MHz
Relative permittivity	41.95
Conductivity (S/m)	1.01
Probe	SN 08/21 EPGO352
ConvF	1.48
Crest factor:	1:1



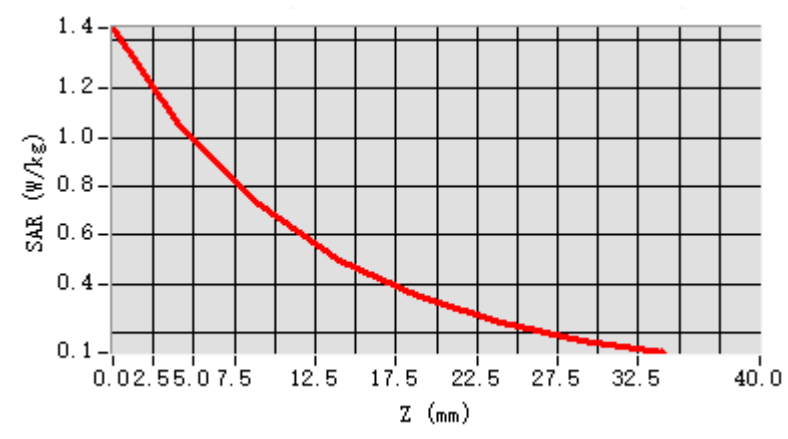
Maximum location: X=2.00, Y=-2.00 ; SAR Peak: 1.45 W/kg

D. SAR 1g & 10g

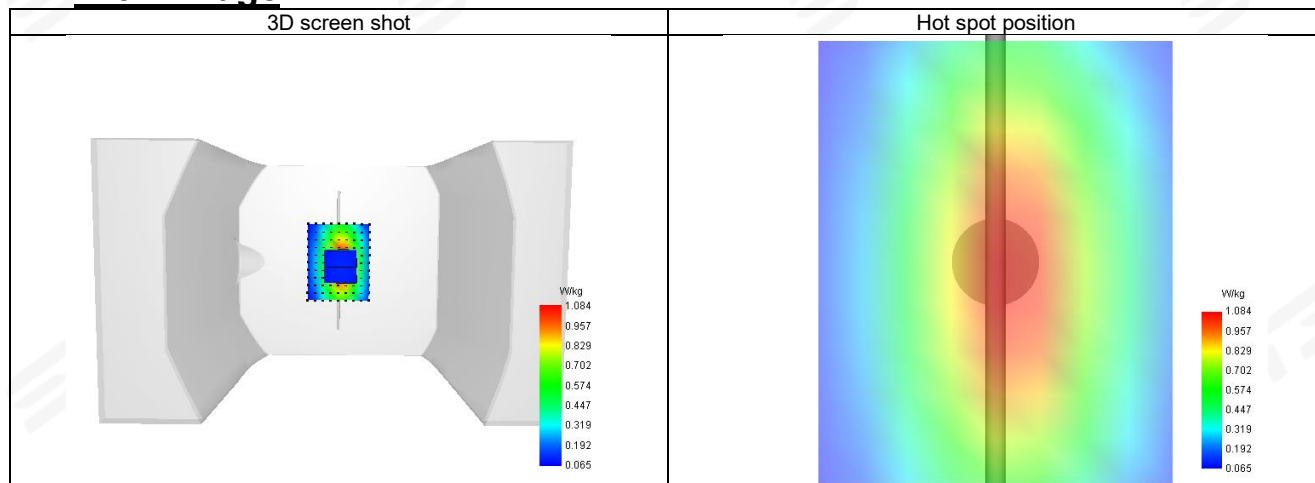
SAR 10g (W/Kg)	0.671
SAR 1g (W/Kg)	1.040
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	68.170028

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.448	1.062	0.724	0.492	0.345	0.238	0.164



F. 3D Image



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

Type: Phone measurement (Complete)

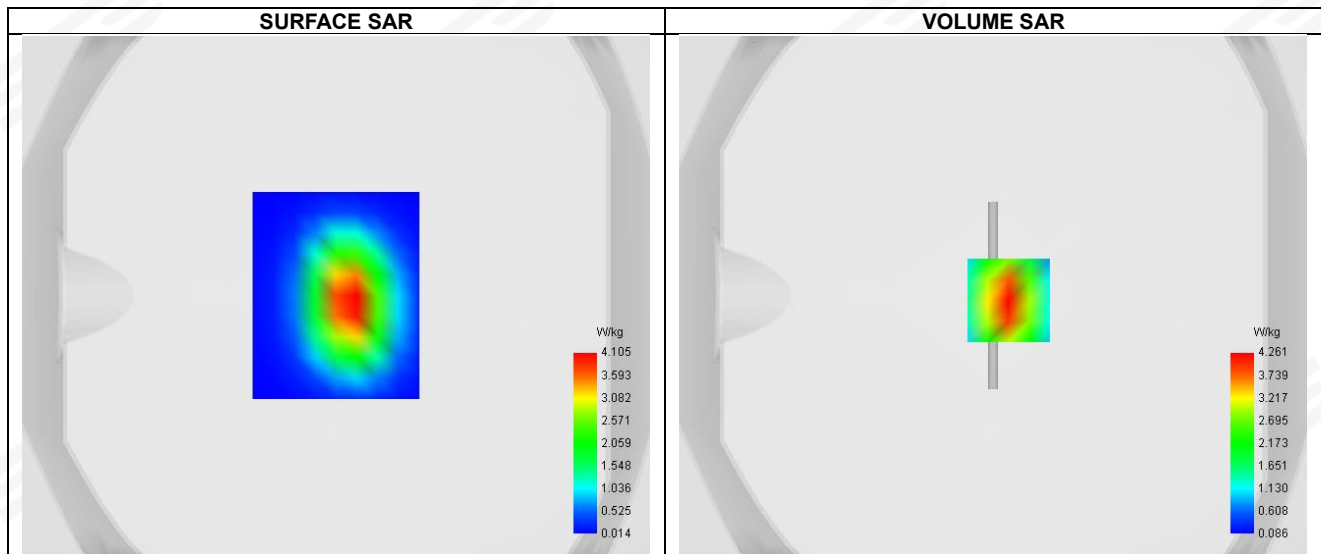
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-22

Experimental conditions.

Phantom	Validation plane
Device Position	-
Band	1800MHz
Channels	-
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	41.31
Conductivity (S/m)	1.35
Probe	SN 08/21 EPG0352
ConvF	1.58
Crest factor:	1:1



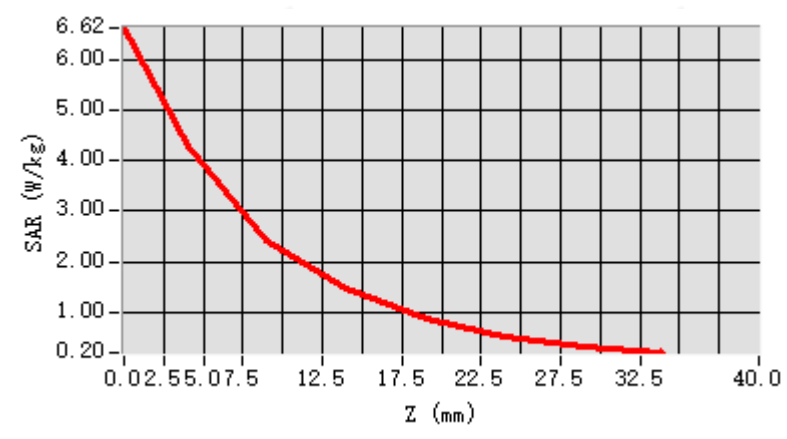
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.58 W/kg

D. SAR 1g & 10g

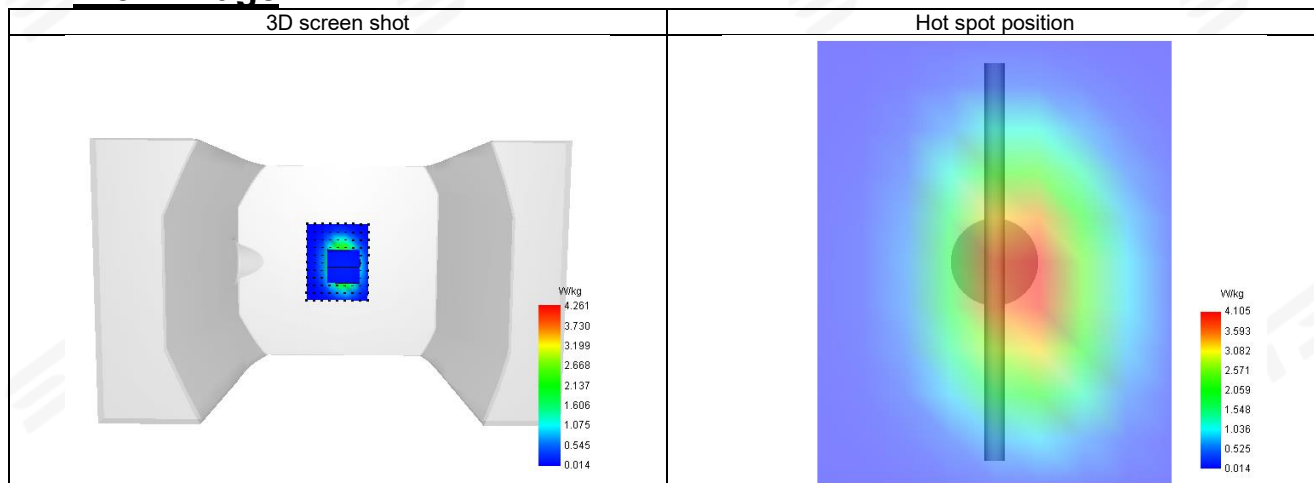
SAR 10g (W/Kg)	1.865
SAR 1g (W/Kg)	3.723
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.058653

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.618	4.261	2.431	1.446	0.872	0.516	0.306



F. 3D Image



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

Type: Phone measurement (Complete)

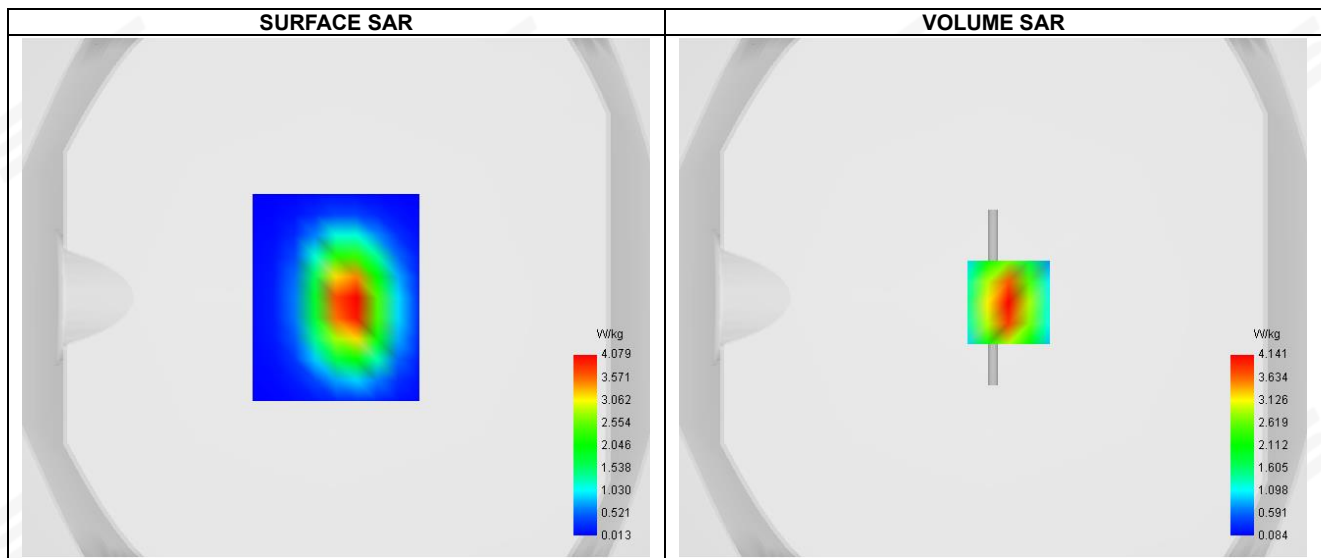
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-28

Experimental conditions.

Device Position	Validation plane
Band	1900MHz
Channels	-
Signal	CW
Frequency (MHz)	1900
Relative permittivity	40.63
Conductivity (S/m)	1.35
Probe	SN 08/21 EPG0352
ConvF	1.72
Crest factor:	1:1



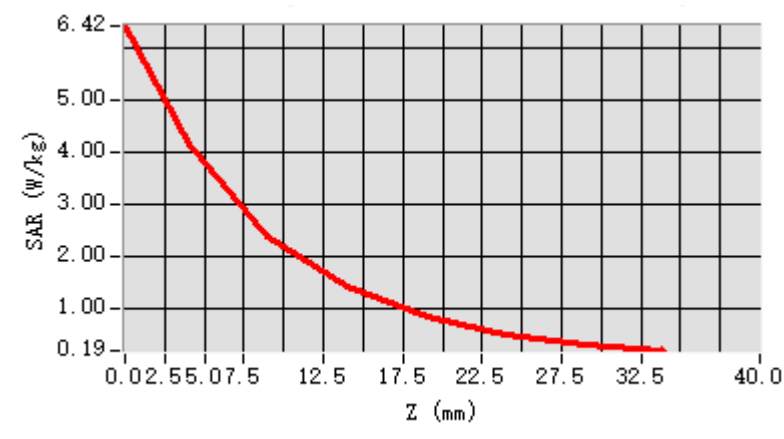
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.38 W/kg

D. SAR 1g & 10g

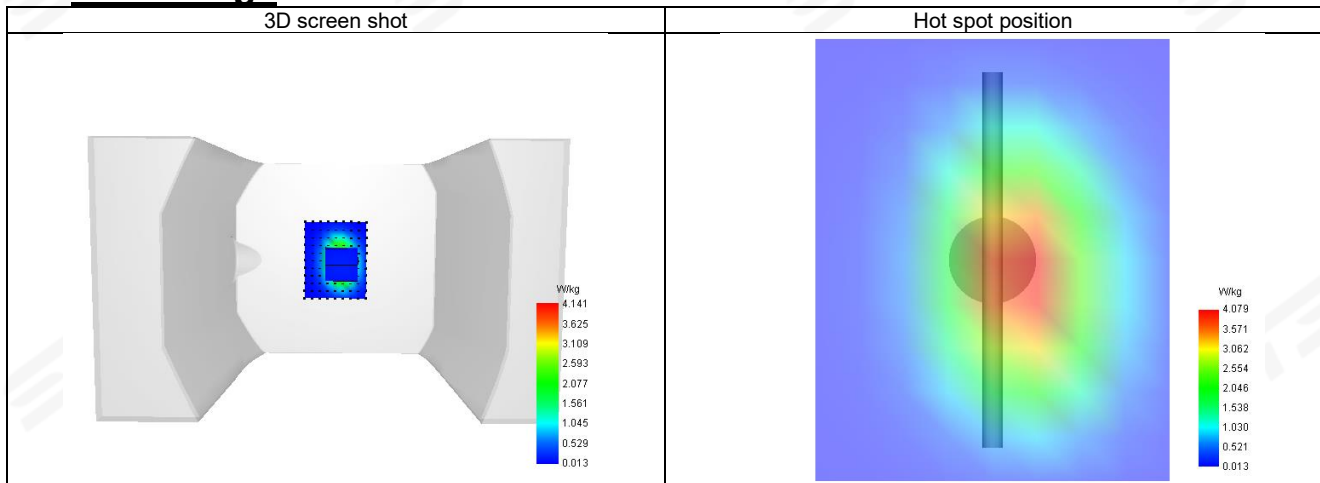
SAR 10g (W/Kg)	1.914
SAR 1g (W/Kg)	3.936
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.139781

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.422	4.141	2.366	1.412	0.850	0.504	0.299



F. 3D Image



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

Type: Phone measurement (Complete)

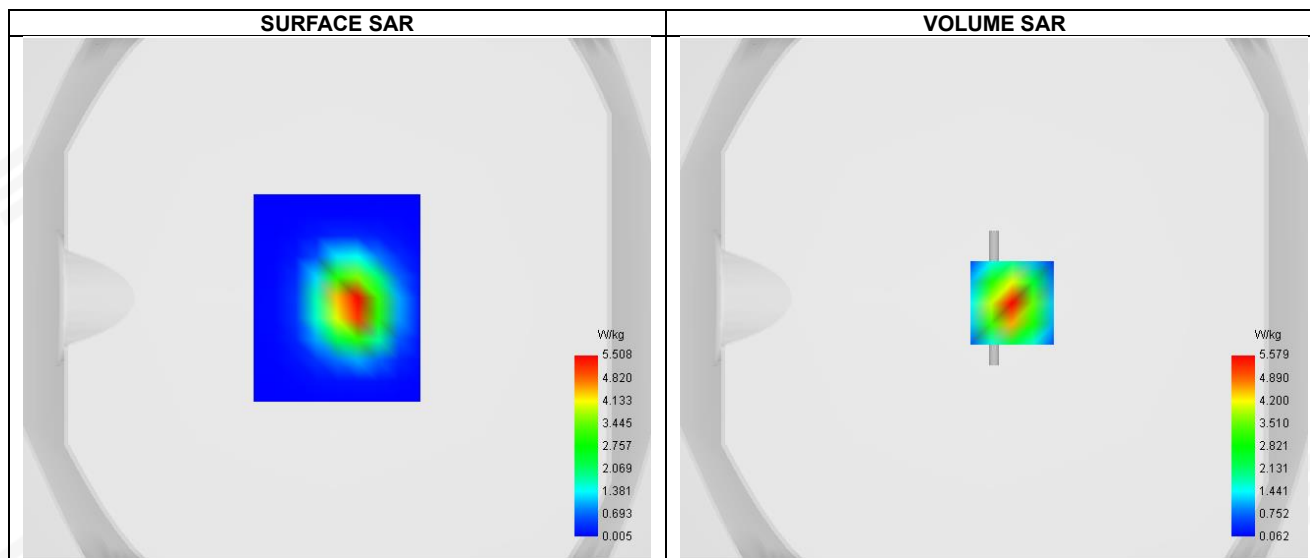
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-24

Experimental conditions.

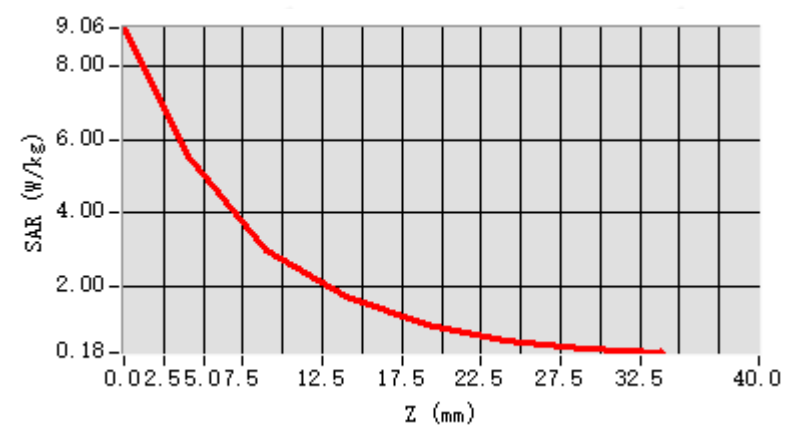
Device Position	Validation plane
Band	2450 MHz
Channels	-
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.54
Conductivity (S/m)	1.82
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1

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

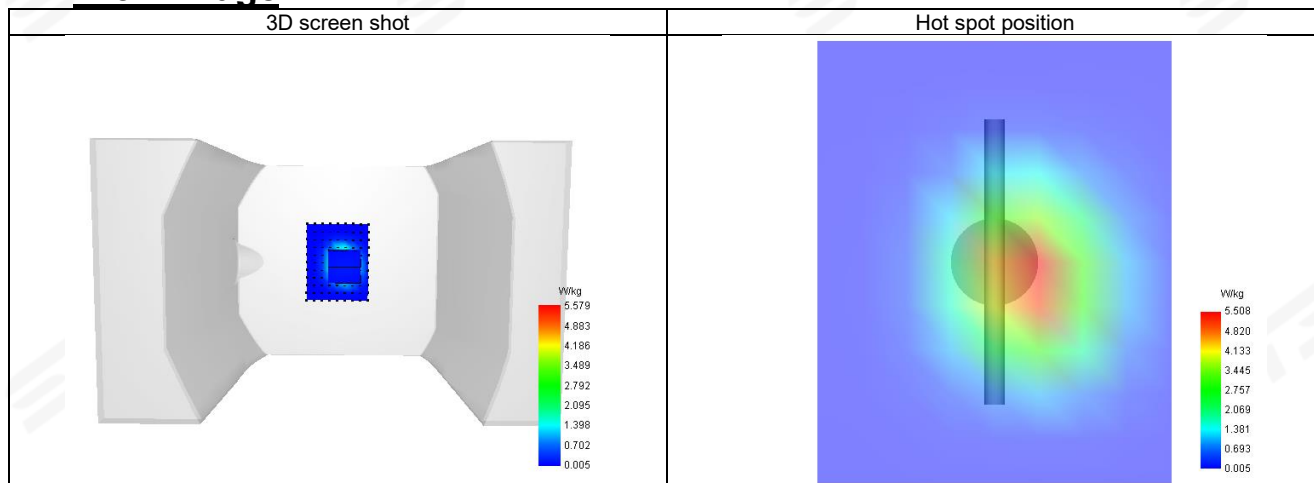
SAR 10g (W/Kg)	2.213
SAR 1g (W/Kg)	5.300
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.058262

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.064	5.579	2.960	1.708	0.952	0.531	0.296



F. 3D Image



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

Type: Phone measurement (Complete)

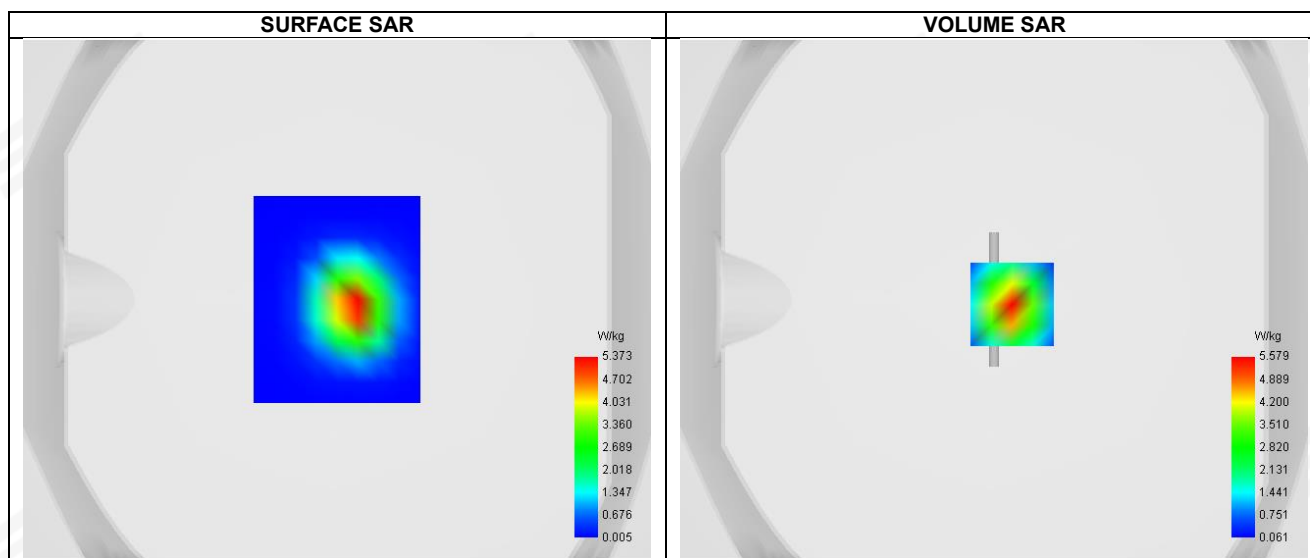
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-24

Experimental conditions.

Device Position	Validation plane
Band	2600 MHz
Channels	-
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.66
Conductivity (S/m)	1.99
Probe	SN 08/21 EPG0352
ConvF	1.74
Crest factor:	1:1



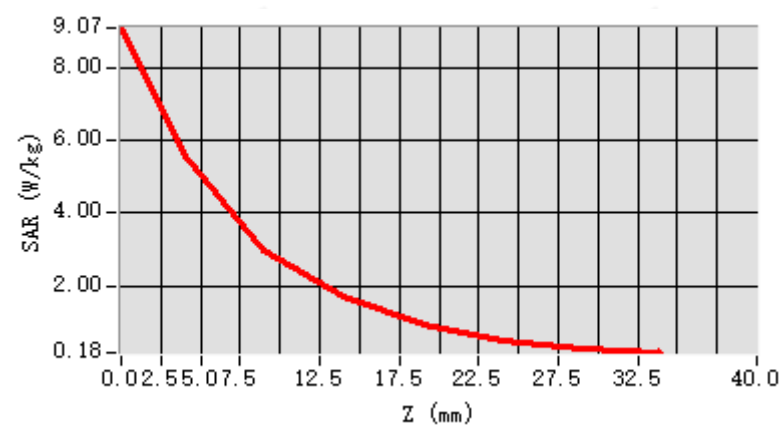
Maximum location: X=7.00, Y=-2.00 ; SAR Peak: 8.99 W/kg

D. SAR 1g & 10g

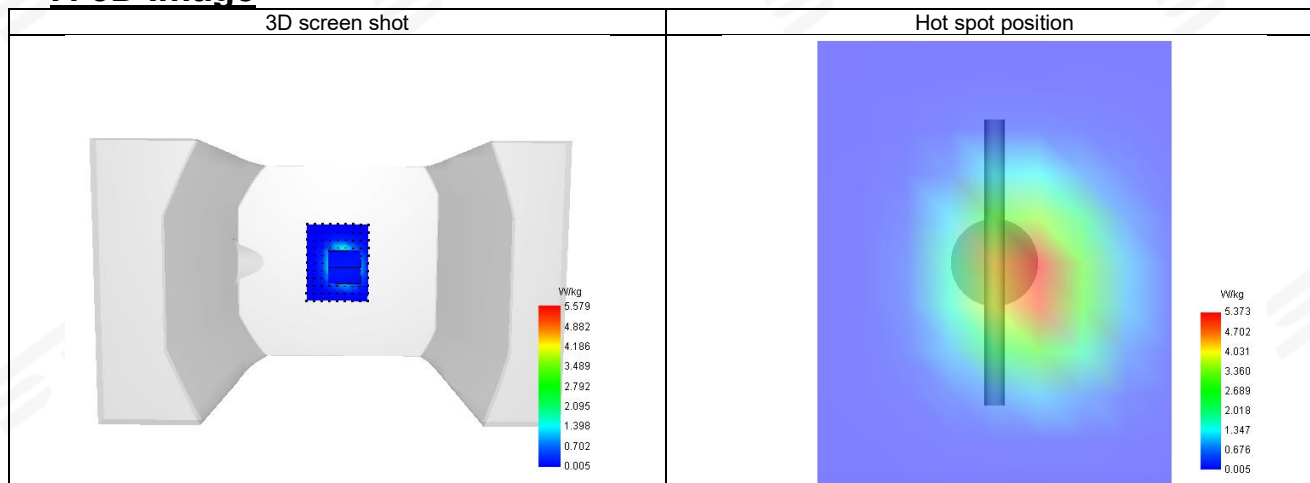
SAR 10g (W/Kg)	2.277
SAR 1g (W/Kg)	5.534
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	53.003633

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.072	5.579	2.957	1.708	0.953	0.531	0.296



F. 3D Image



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

Type: Phone measurement (Complete)

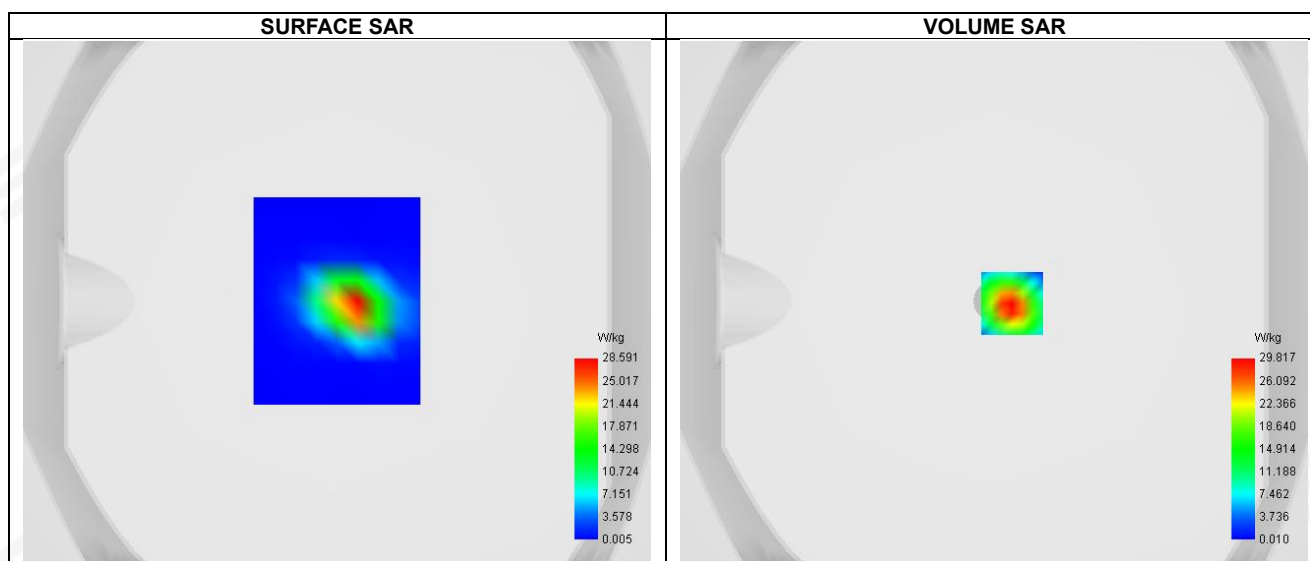
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-30

Experimental conditions.

Device Position	Validation plane
Band	5200 MHz
Channels	-
Signal	CW
Frequency (MHz)	5200
Relative permittivity	36.27
Conductivity (S/m)	4.63
Probe	SN 08/21 EPG0352
ConvF	1.33
Crest factor:	1:1



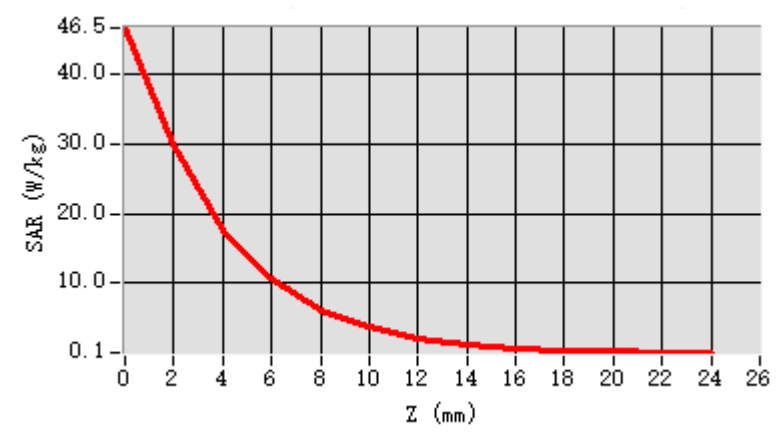
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 48.24 W/kg

D. SAR 1g & 10g

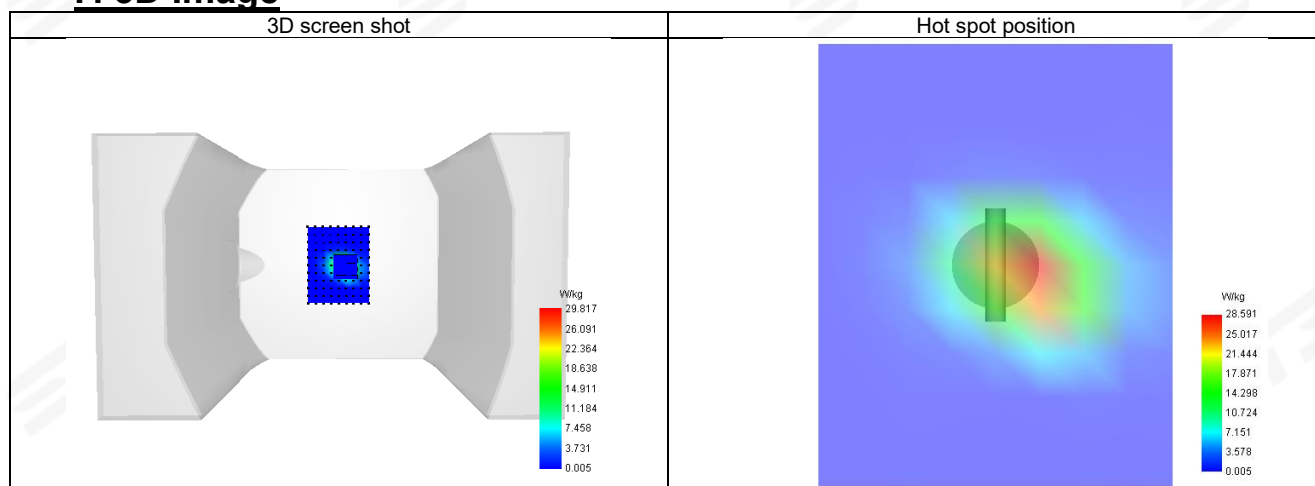
SAR 10g (W/Kg)	0.527
SAR 1g (W/Kg)	1.620
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	59.223767

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)	46.546	29.817	17.659	10.575	6.228	3.694	2.191	1.300	0.771	0.457	0.271	0.161



F. 3D Image



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

Type: Phone measurement (Complete)

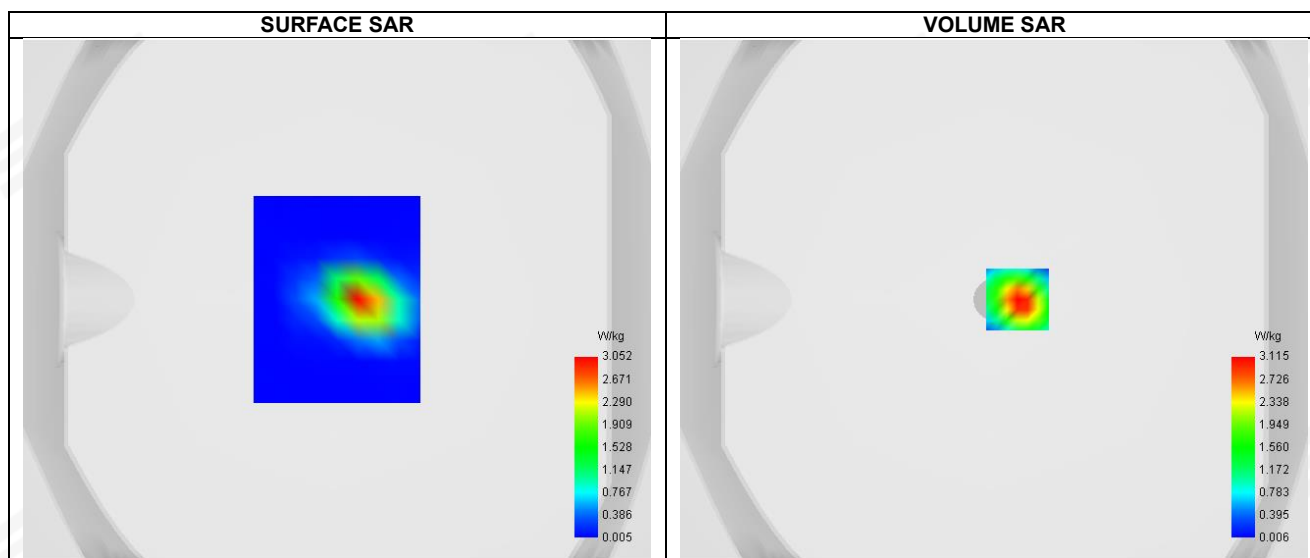
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-08-30

Experimental conditions.

Device Position	Validation plane
Band	5800 MHz
Channels	-
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.17
Conductivity (S/m)	5.29
Probe	SN 08/21 EPG0352
ConvF	1.35
Crest factor:	1:1



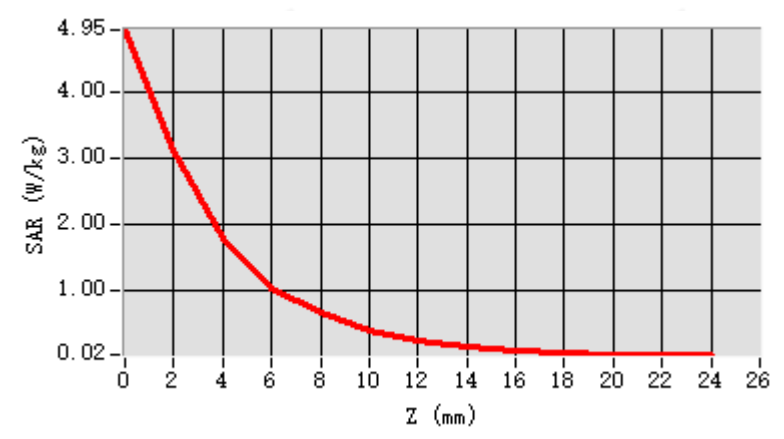
Maximum location: X=9.00, Y=0.00 ; SAR Peak: 5.28 W/kg

D. SAR 1g & 10g

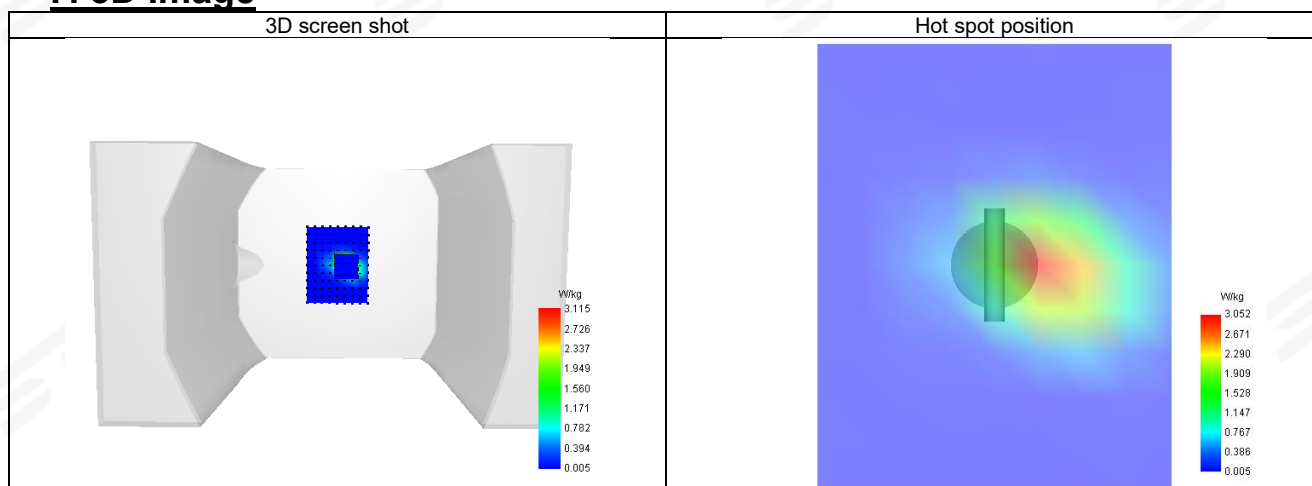
SAR 10g (W/Kg)	0.589
SAR 1g (W/Kg)	1.832
Horizontal validation criteria: minimum distance (mm)	8.944272
Vertical validation criteria: SAR ratio M2/M1 (%)	57.036829

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)	4.954	3.115	1.777	1.024	0.653	0.392	0.235	0.141	0.085	0.051	0.030	0.018



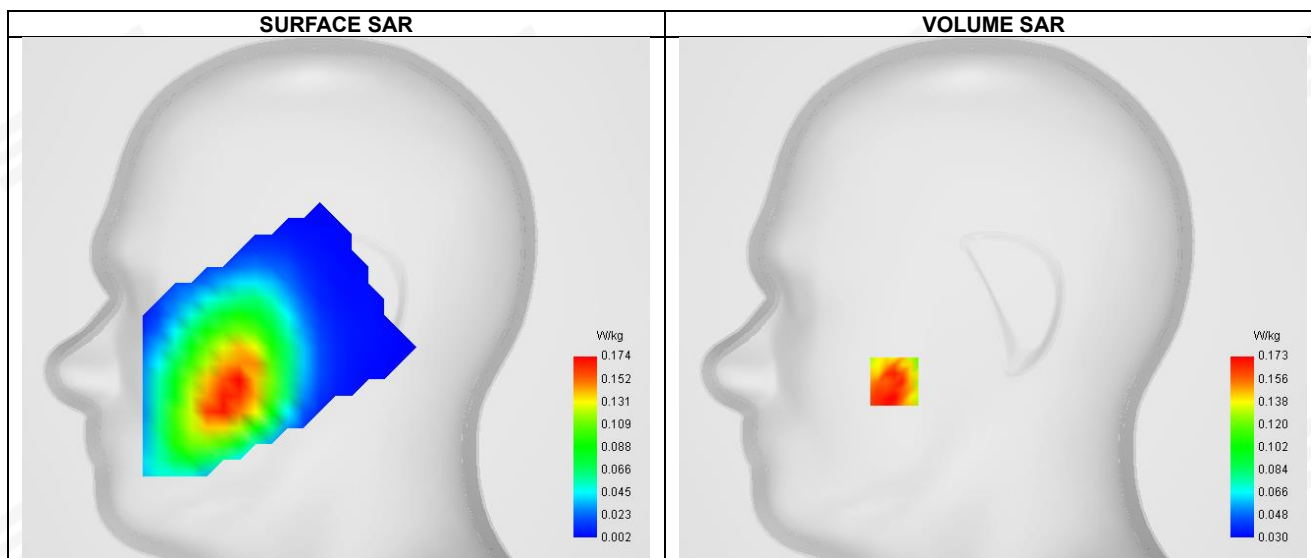
F. 3D Image



Appendix B. SAR Test Plots

Plot 1: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
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



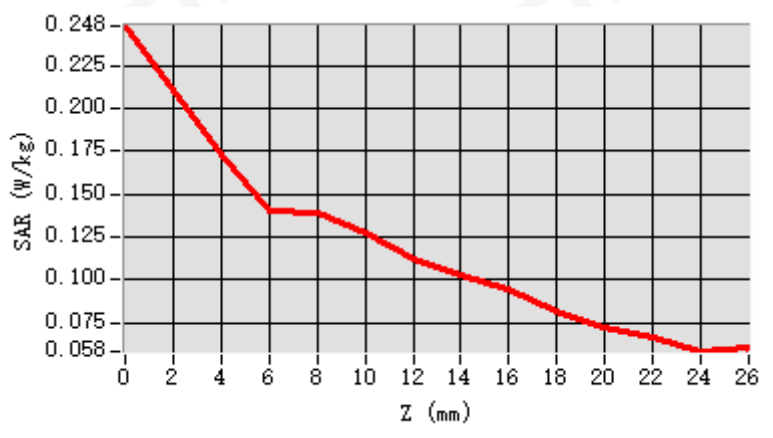
Maximum location: X=-49.00, Y=-41.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

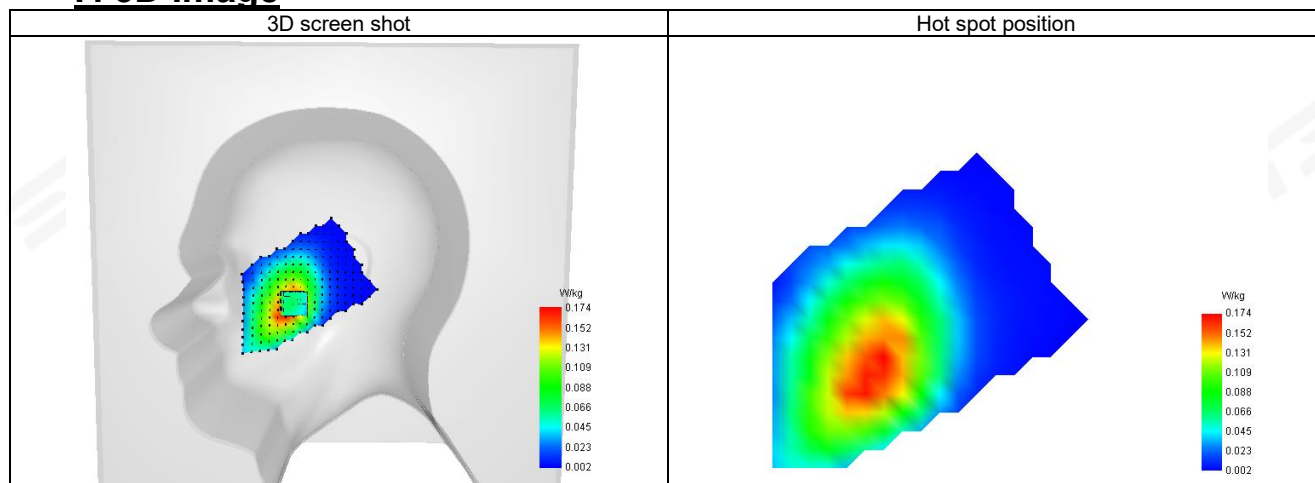
SAR 10g (W/Kg)	0.100
SAR 1g (W/Kg)	0.163
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	98.581560

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.248	0.173	0.141	0.139	0.127	0.112	0.103	0.095	0.082	0.072	0.067	0.058



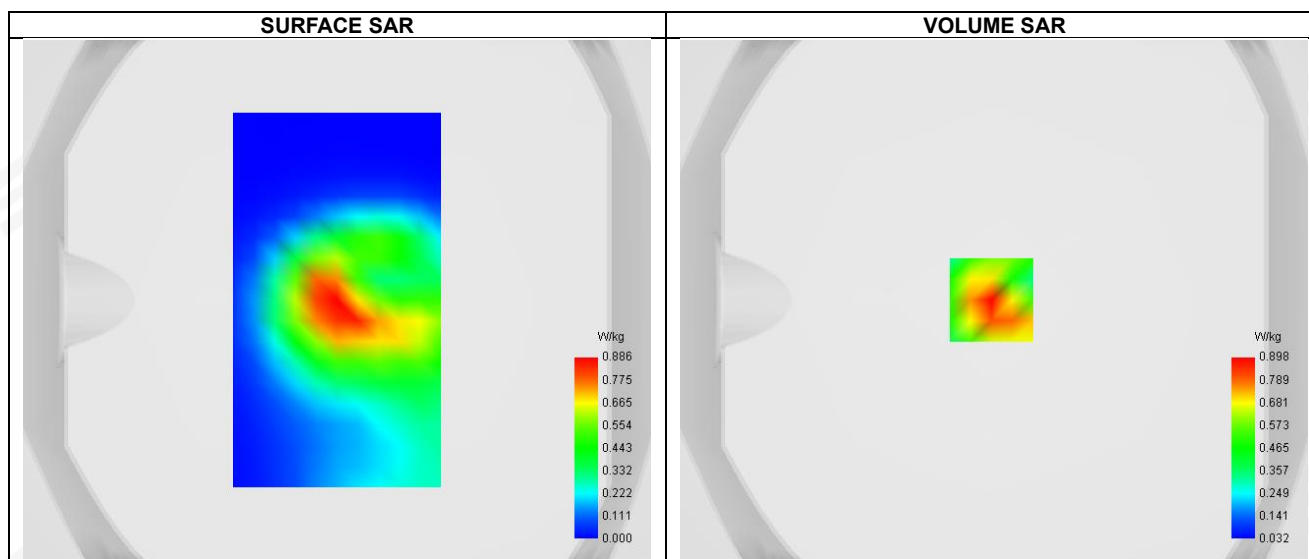
F. 3D Image





Plot 2: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	897.4

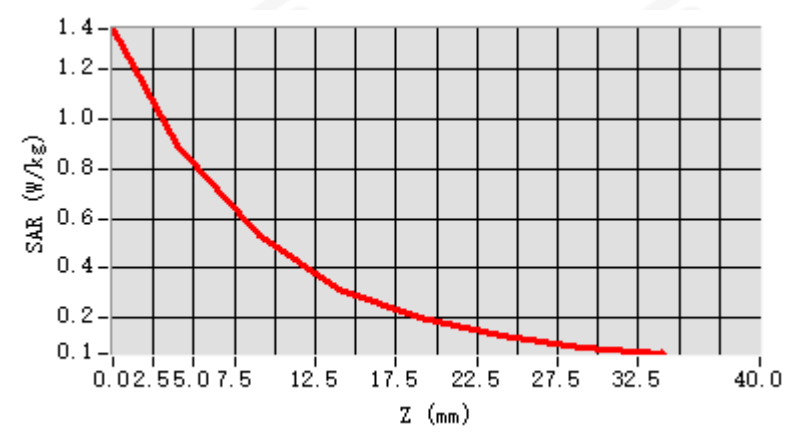


D. SAR 1g & 10g

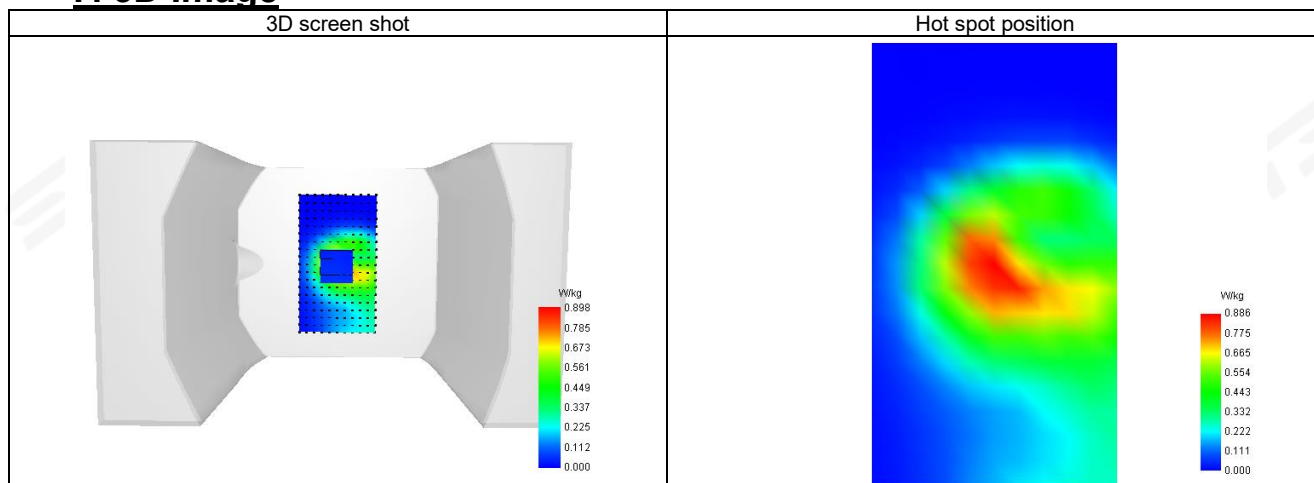
SAR 10g (W/Kg)	0.463
SAR 1g (W/Kg)	0.836
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	60.956304

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.366	0.898	0.533	0.310	0.202	0.124	0.076



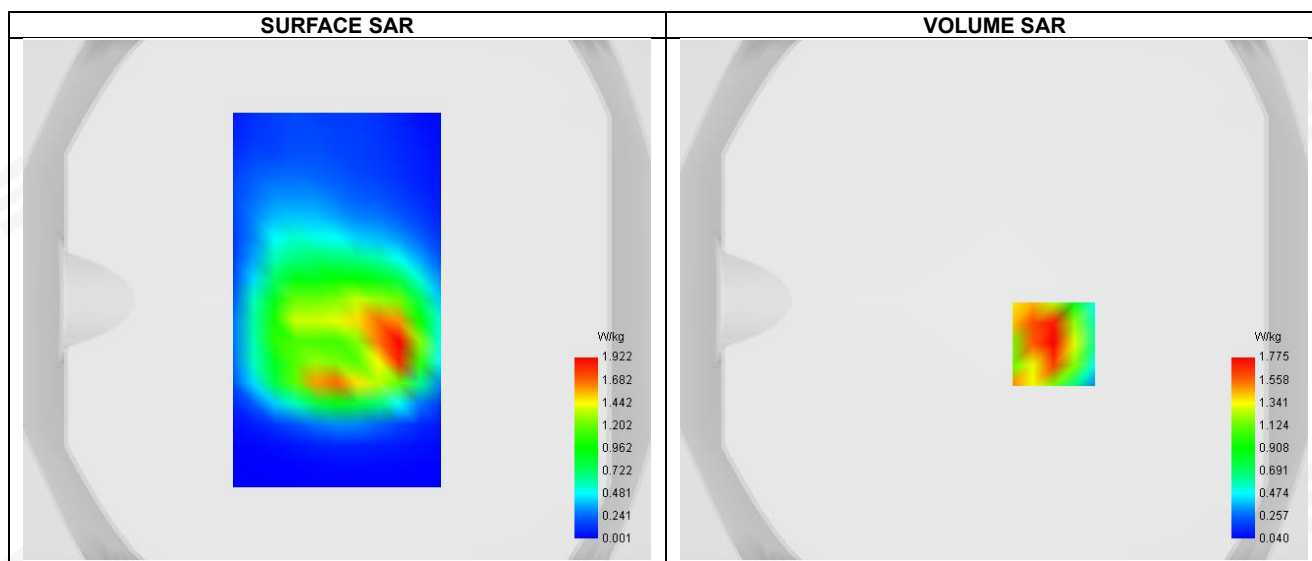
F. 3D Image





Plot 3: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	897.4

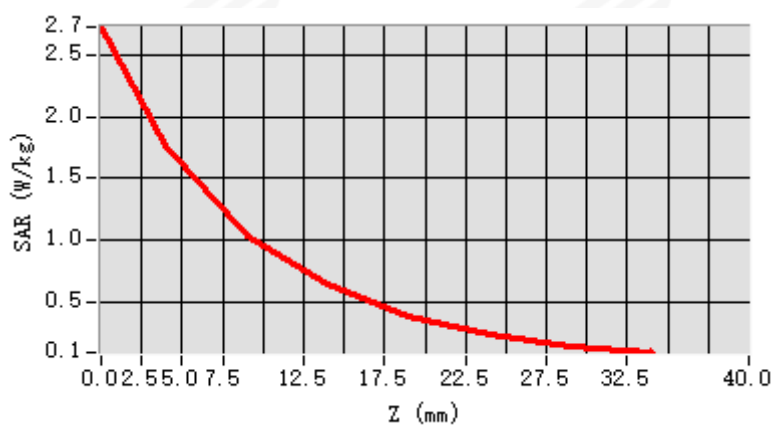


D. SAR 1g & 10g

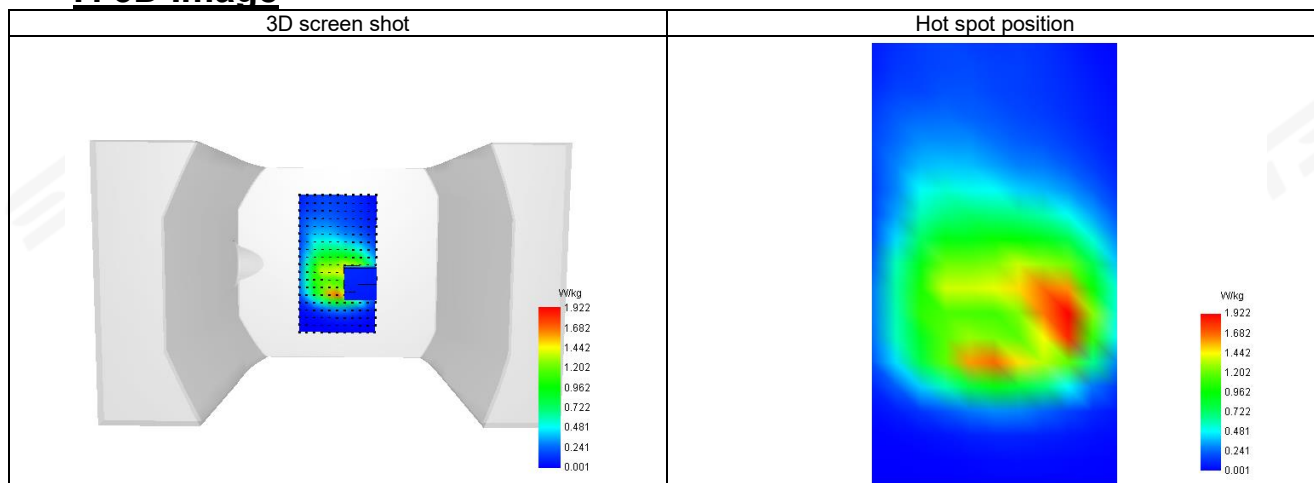
SAR 10g (W/Kg)	0.931
SAR 1g (W/Kg)	1.705
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.856187

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.729	1.775	1.026	0.634	0.382	0.230	0.138

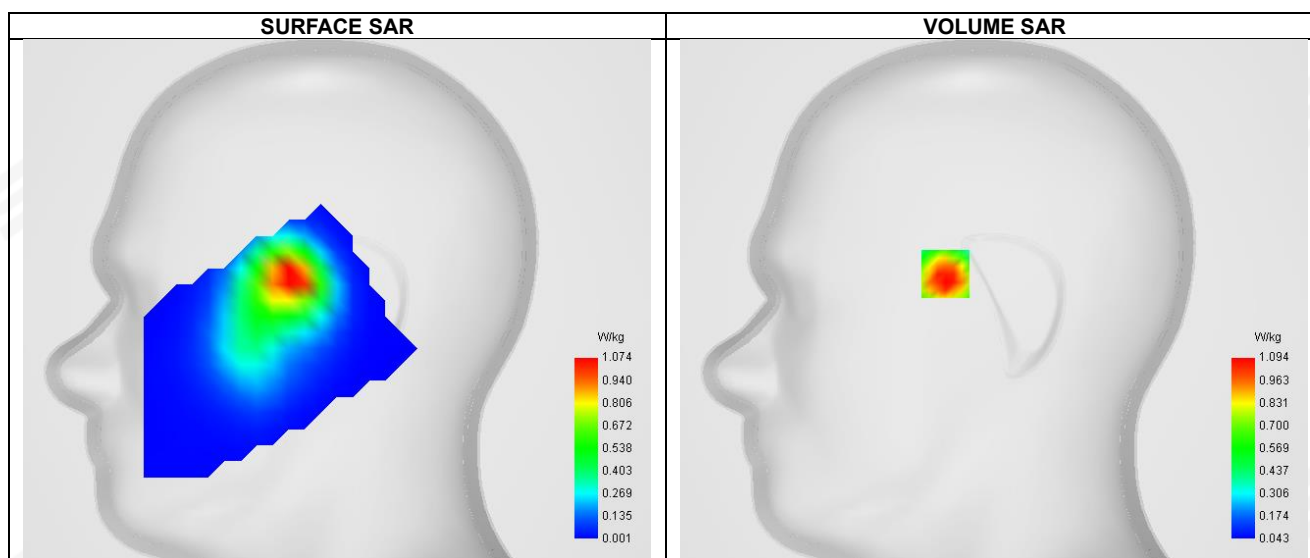


F. 3D Image



Plot 4: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
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	1747.8



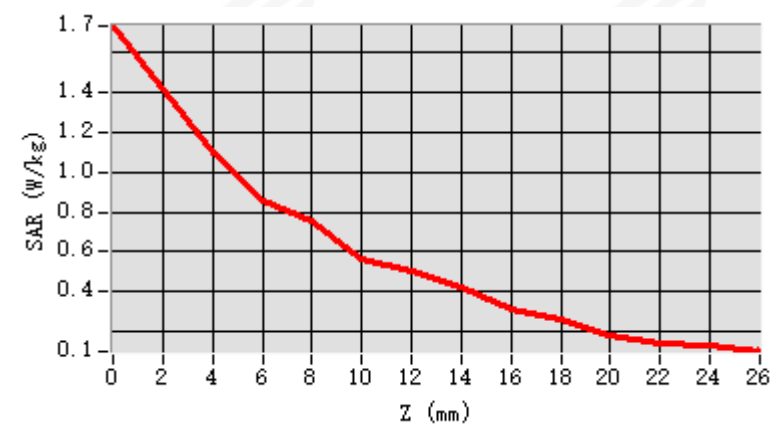
Maximum location: X=-24.00, Y=13.00 ; SAR Peak: 1.59 W/kg

D. SAR 1g & 10g

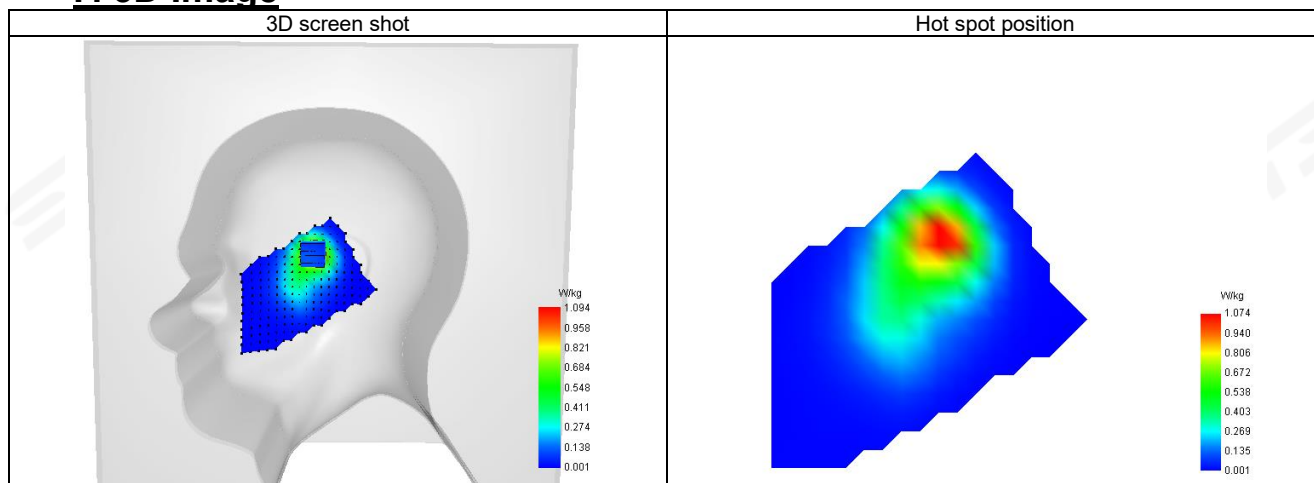
SAR 10g (W/Kg)	0.475
SAR 1g (W/Kg)	0.990
Horizontal validation criteria: minimum distance (mm)	16.970563
Vertical validation criteria: SAR ratio M2/M1 (%)	80.239921

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.730	1.094	0.852	0.751	0.560	0.504	0.428	0.309	0.260	0.186	0.143	0.128



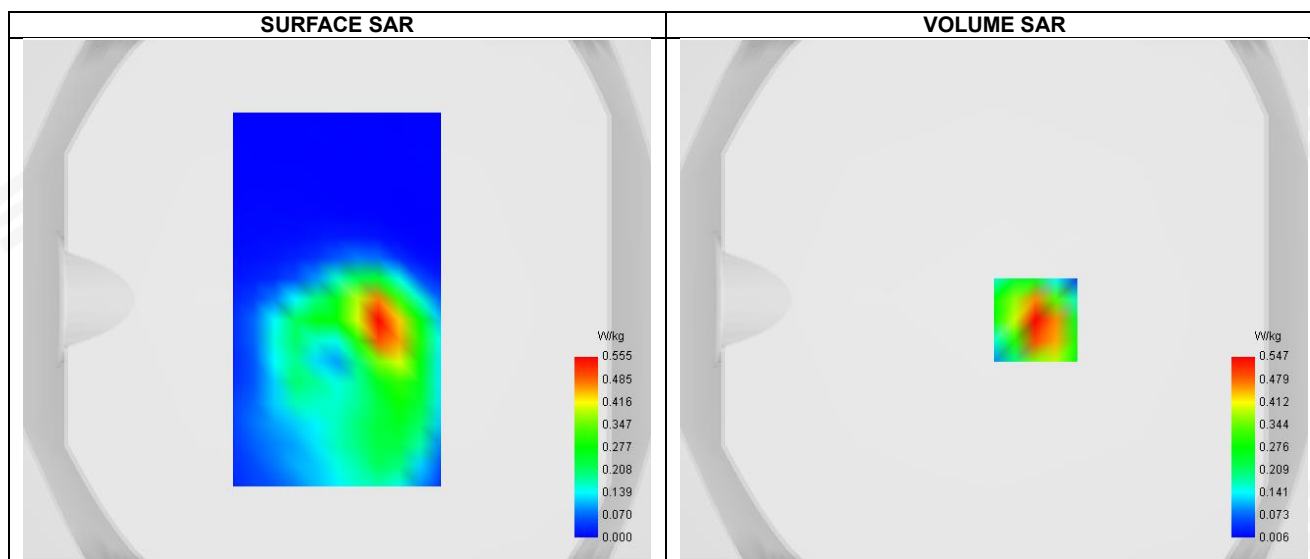
F. 3D Image





Plot 5: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS1800
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	1710.2



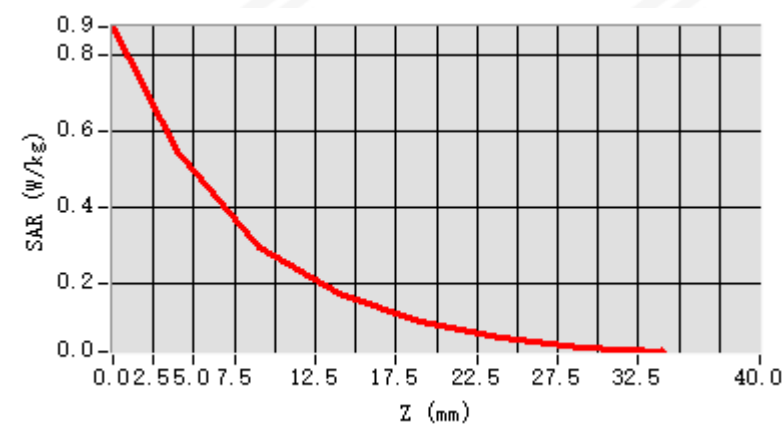
Maximum location: X=16.00, Y=-8.00 ; SAR Peak: 0.89 W/kg

D. SAR 1g & 10g

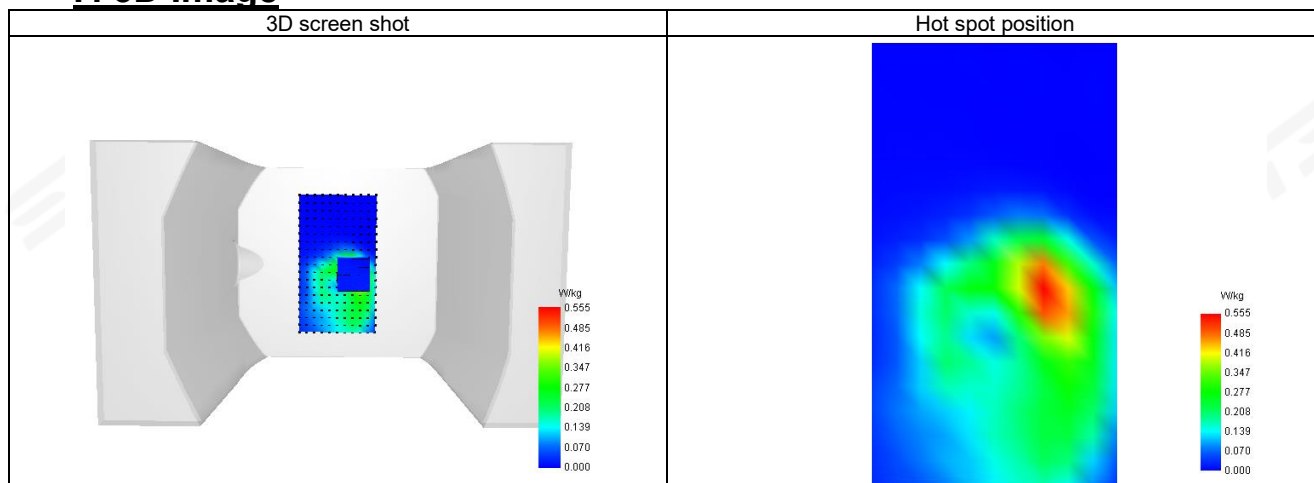
SAR 10g (W/Kg)	0.262
SAR 1g (W/Kg)	0.517
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.820390

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.877	0.547	0.296	0.172	0.097	0.055	0.031



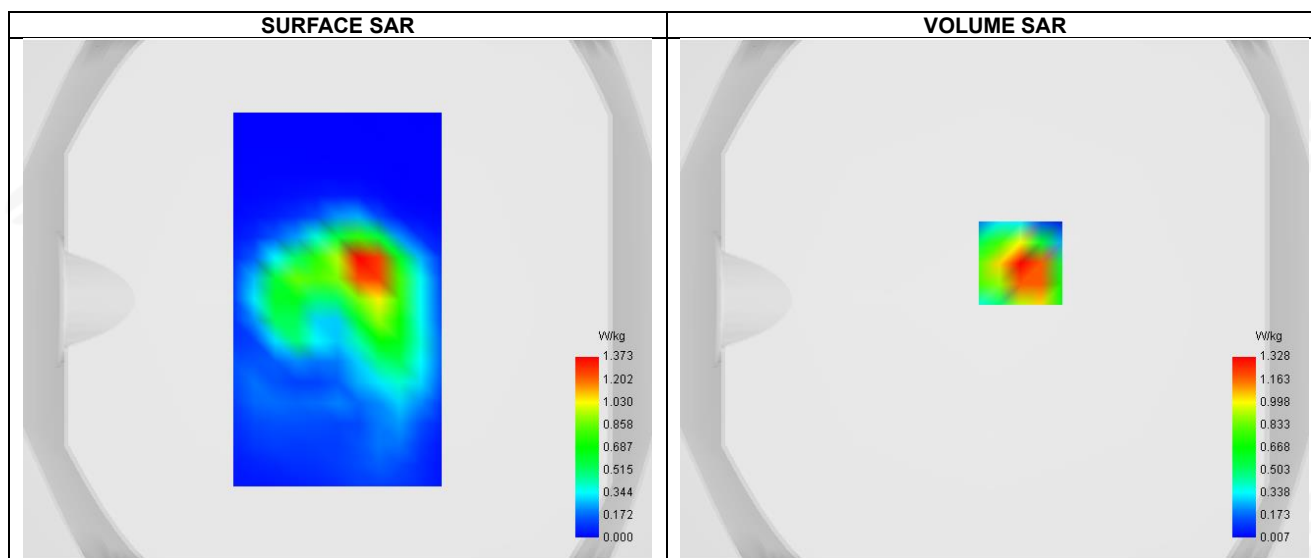
F. 3D Image





Plot 6: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	GPRS1800
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency	1710.2



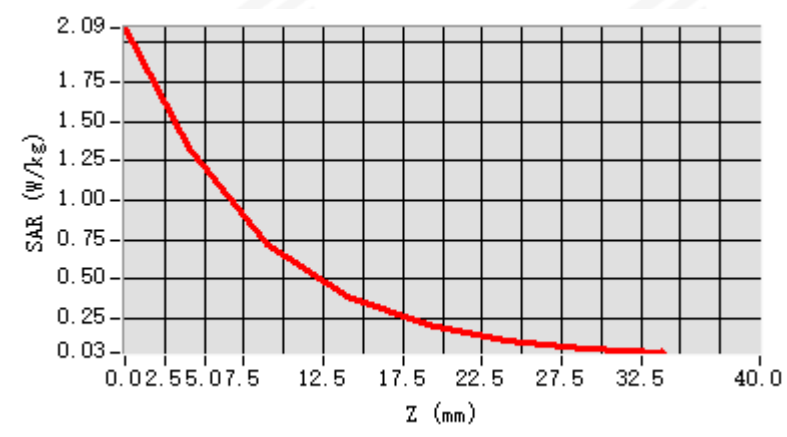
Maximum location: X=10.00, Y=14.00 ; SAR Peak: 2.24 W/kg

D. SAR 1g & 10g

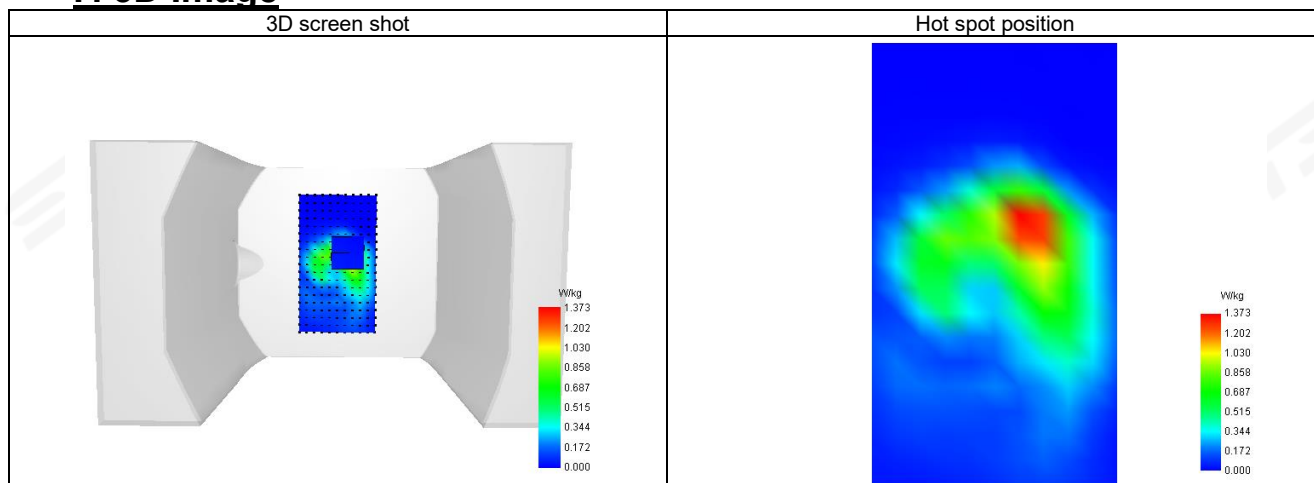
SAR 10g (W/Kg)	0.621
SAR 1g (W/Kg)	1.258
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.656088

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.091	1.328	0.726	0.393	0.213	0.116	0.063

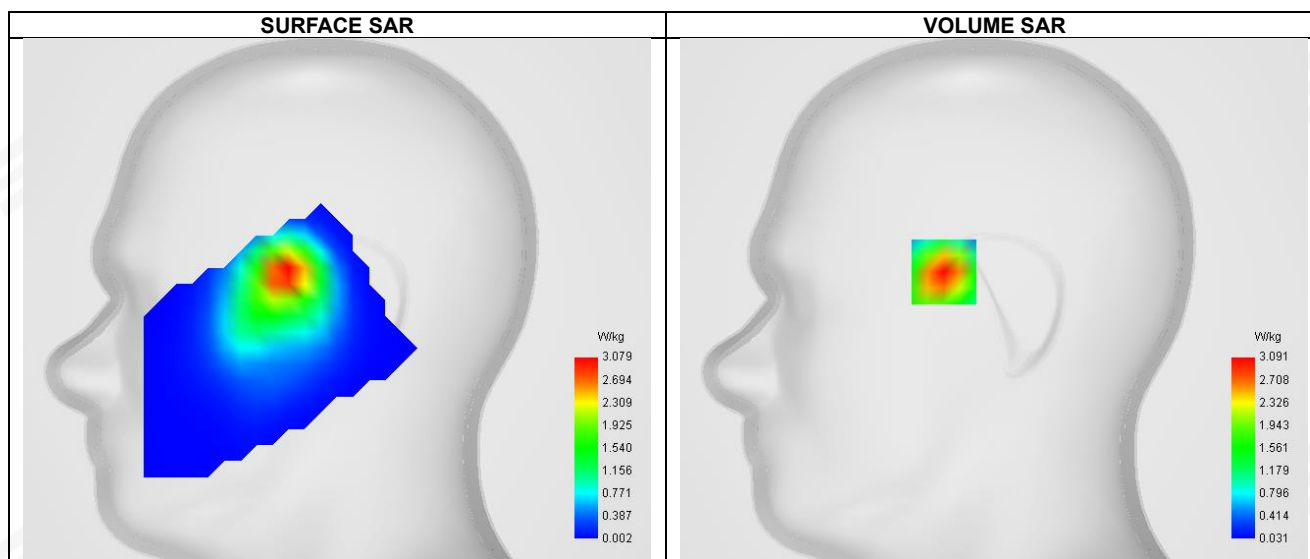


F. 3D Image



Plot 7: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
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	1977.6

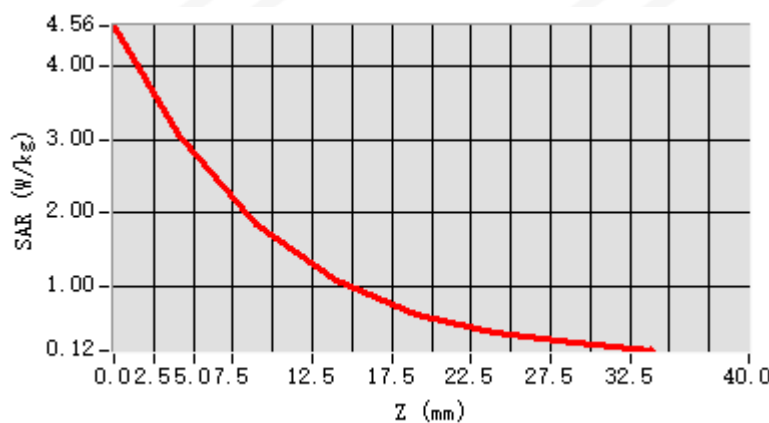


D. SAR 1g & 10g

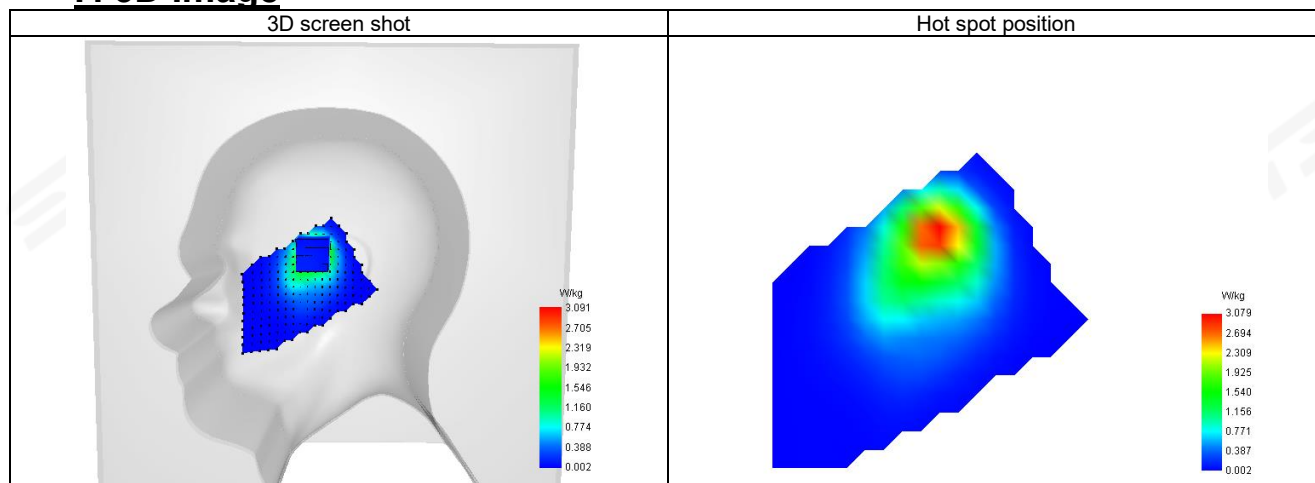
SAR 10g (W/Kg)	1.562
SAR 1g (W/Kg)	2.882
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.611018

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.562	3.091	1.842	1.080	0.622	0.364	0.213



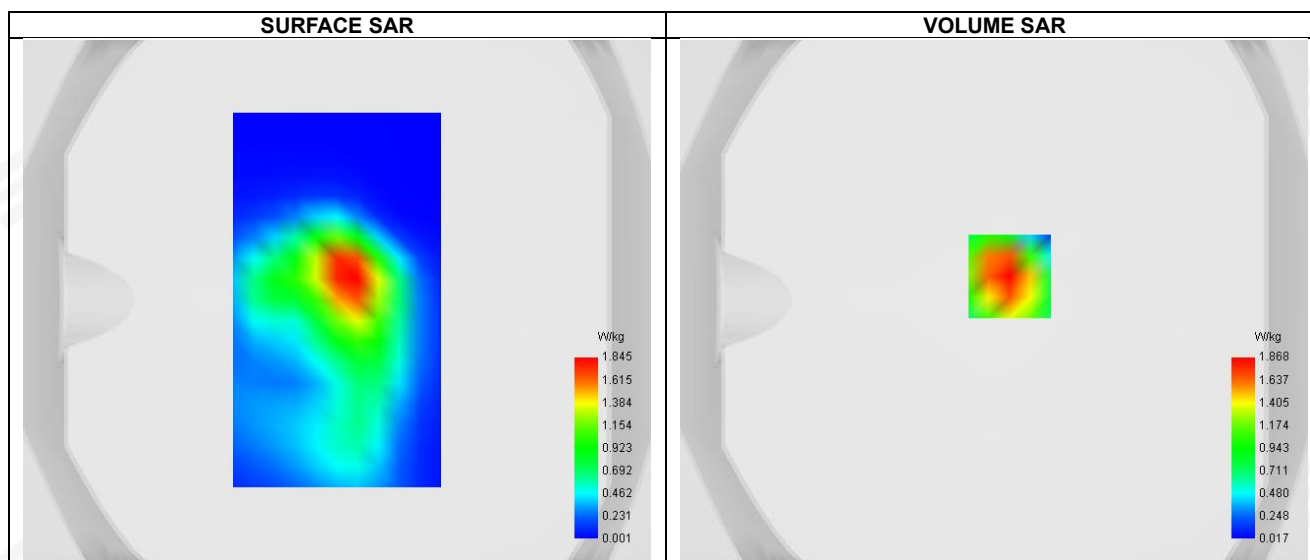
F. 3D Image





Plot 8: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1977.6



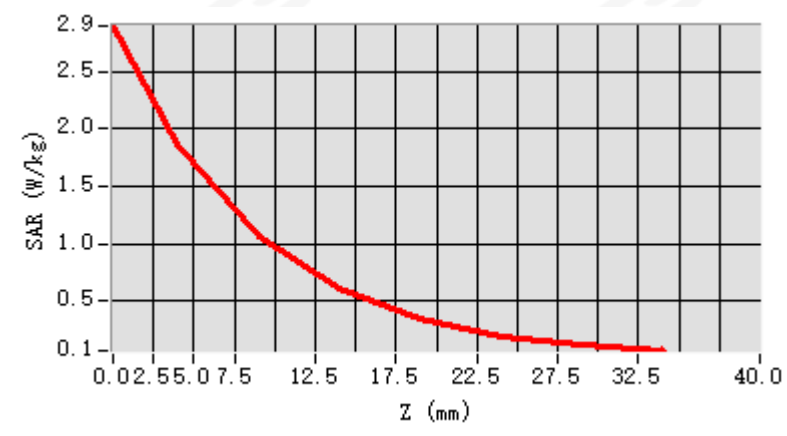
Maximum location: X=6.00, Y=9.00 ; SAR Peak: 2.99 W/kg

D. SAR 1g & 10g

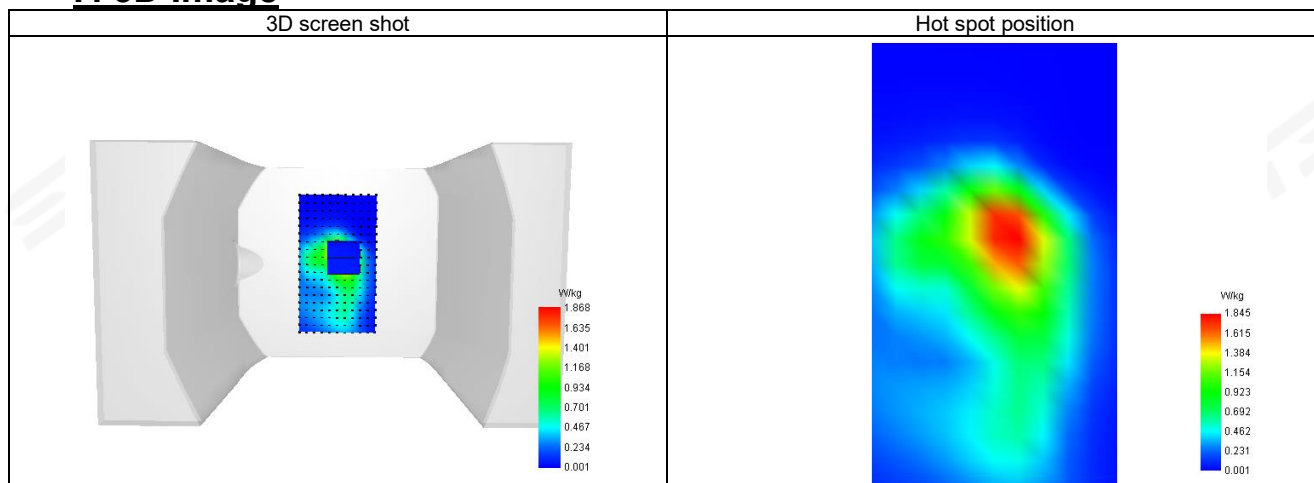
SAR 10g (W/Kg)	0.942
SAR 1g (W/Kg)	1.768
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.420348

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.896	1.868	1.054	0.603	0.345	0.197	0.112



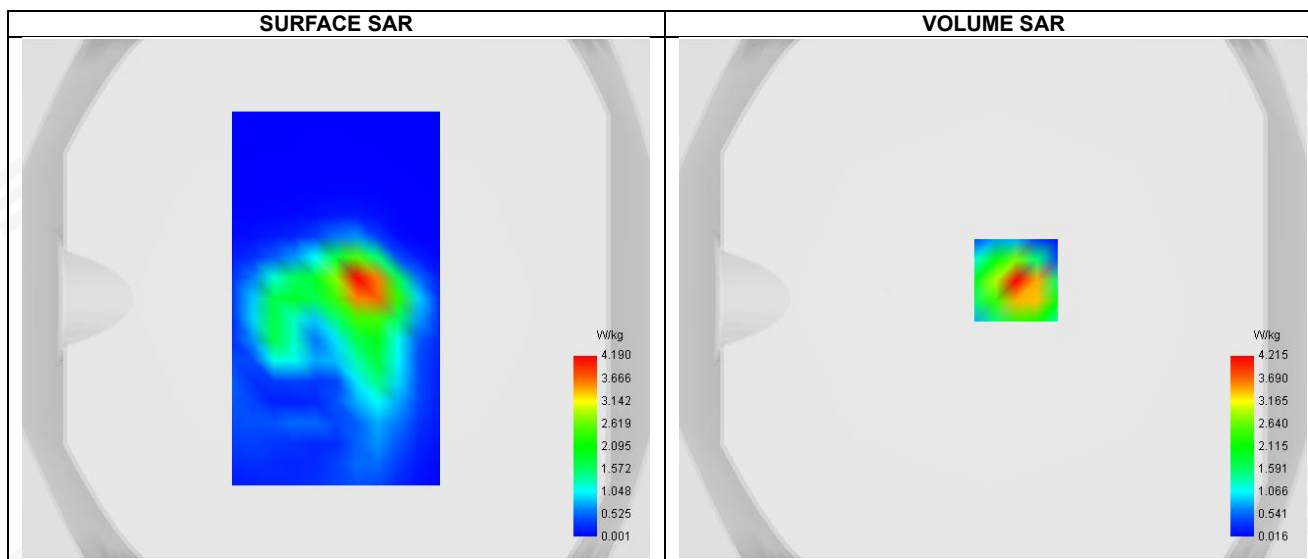
F. 3D Image





Plot 9: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA I
Signal	WCDMA (Crest factor: 1.0)
Frequency	1977.6

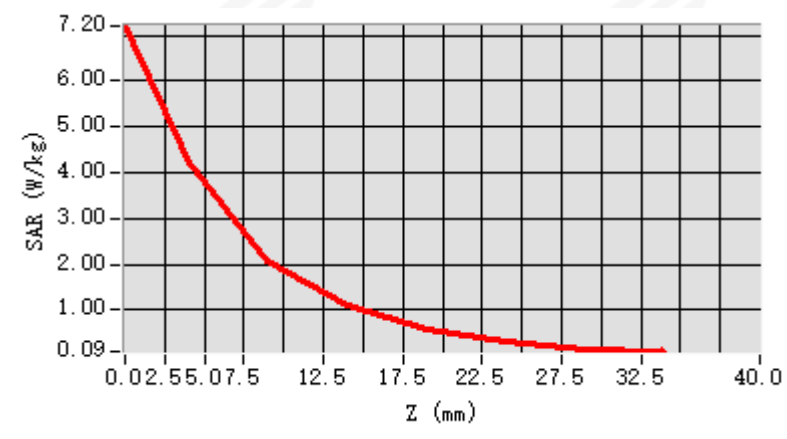


D. SAR 1g & 10g

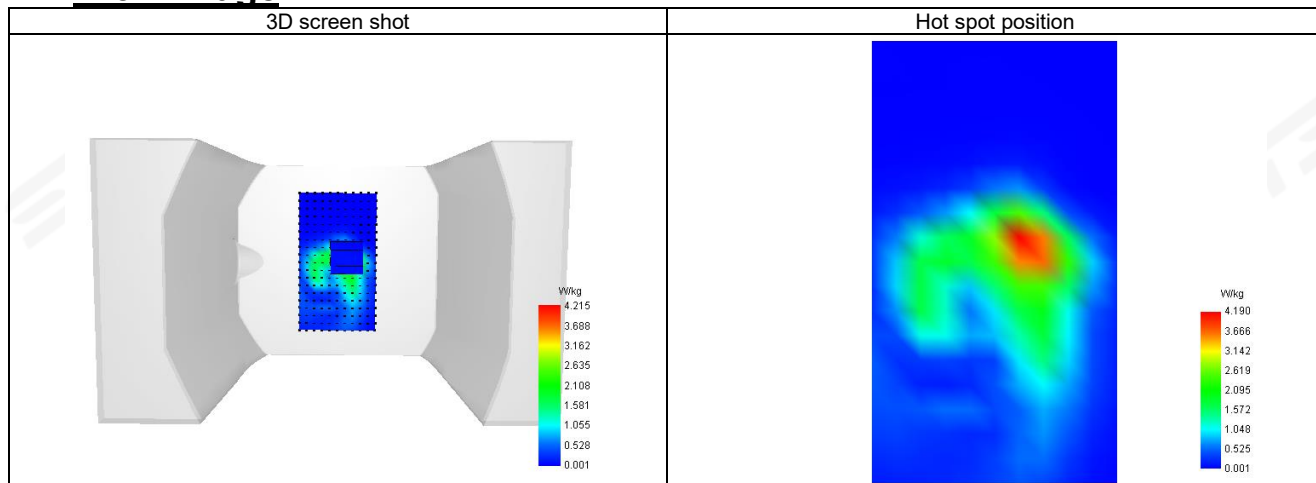
SAR 10g (W/Kg)	1.796
SAR 1g (W/Kg)	3.907
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	48.779705

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	7.198	4.215	2.056	1.114	0.578	0.299	0.155

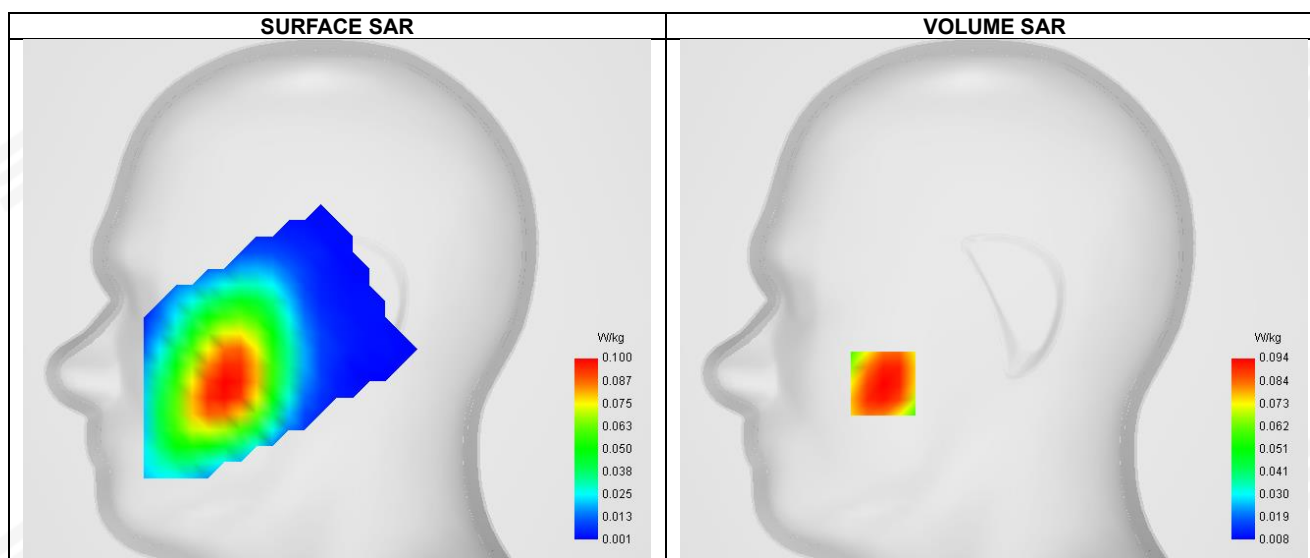


F. 3D Image



Plot 10: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
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	897.4

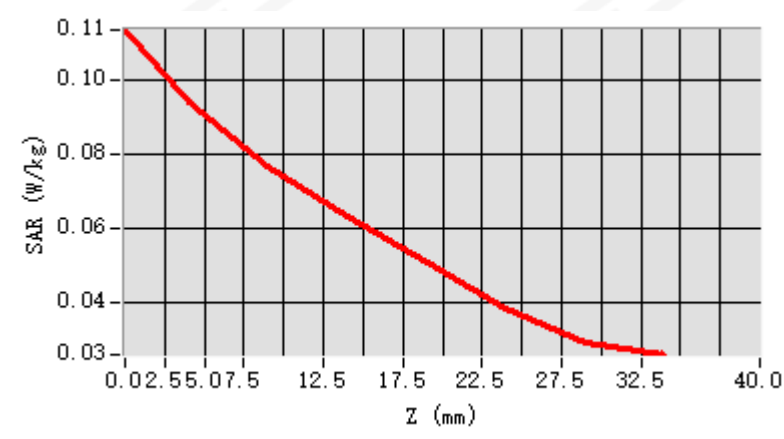


D. SAR 1g & 10g

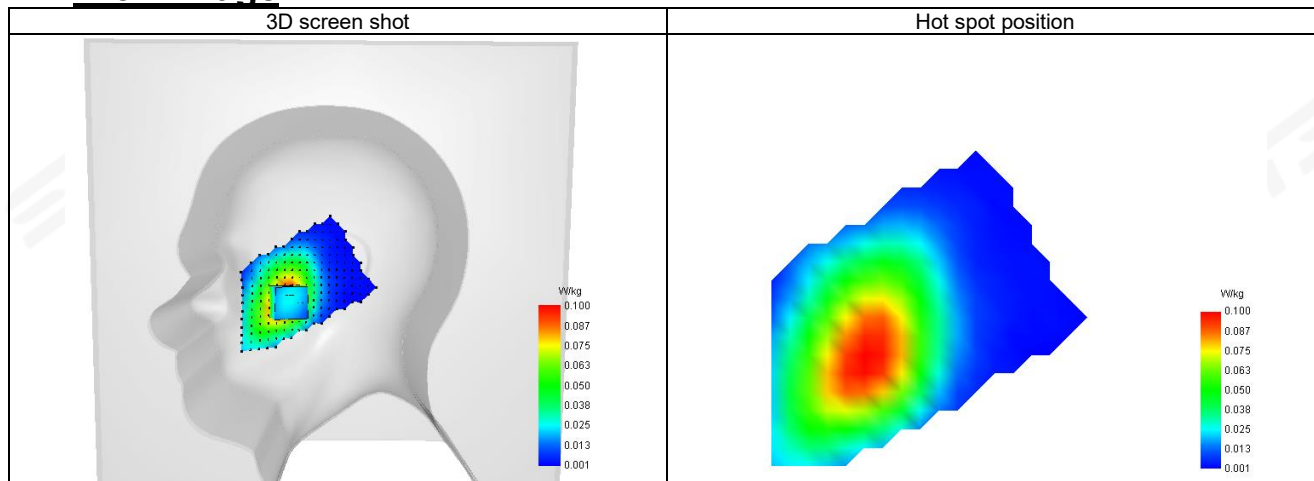
SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.092
Horizontal validation criteria: minimum distance (mm)	12.337981
Vertical validation criteria: SAR ratio M2/M1 (%)	81.914893

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.114	0.094	0.077	0.063	0.051	0.038	0.029



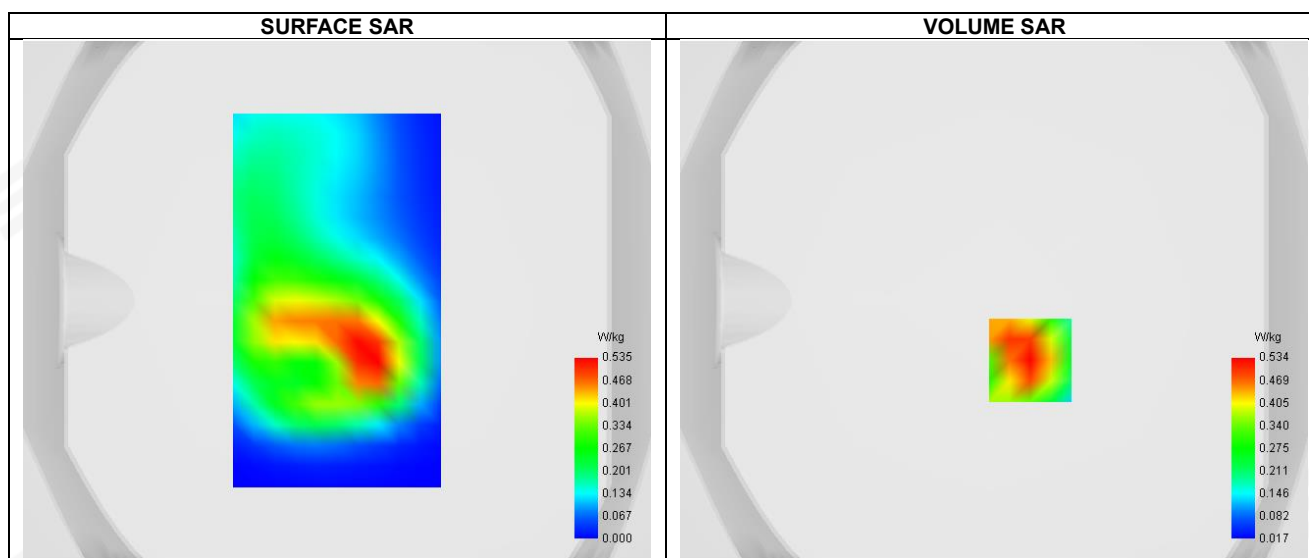
F. 3D Image





Plot 11: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	897.4

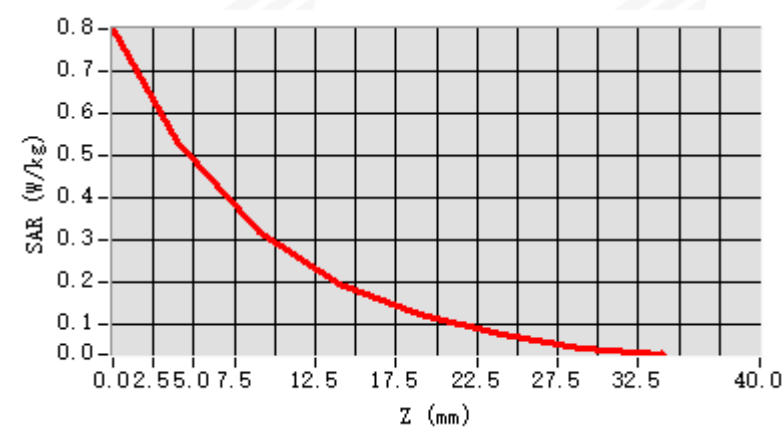


D. SAR 1g & 10g

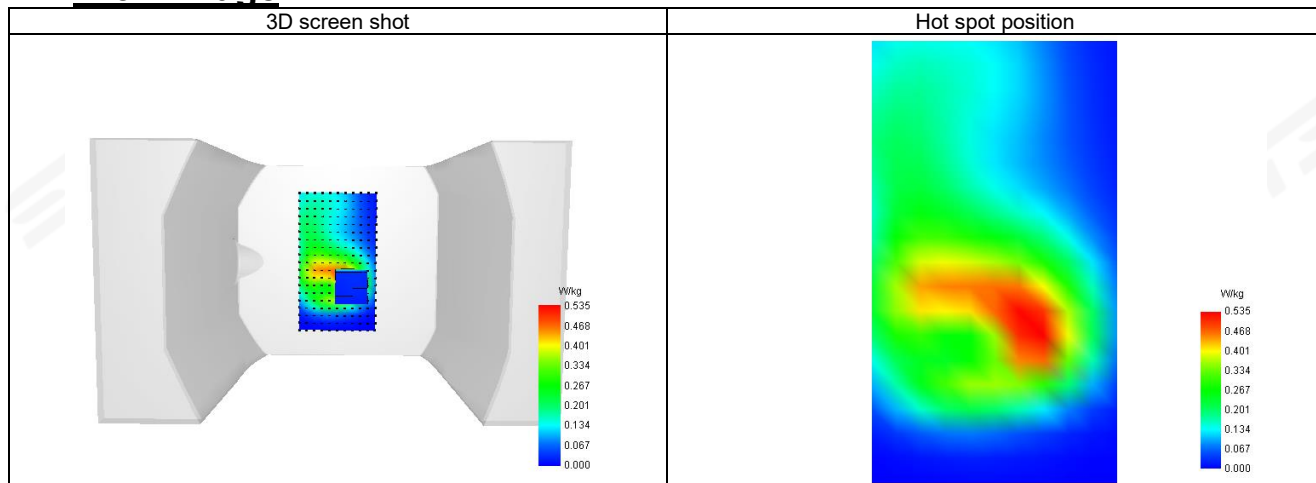
SAR 10g (W/Kg)	0.292
SAR 1g (W/Kg)	0.508
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.107375

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.798	0.534	0.321	0.196	0.122	0.075	0.046



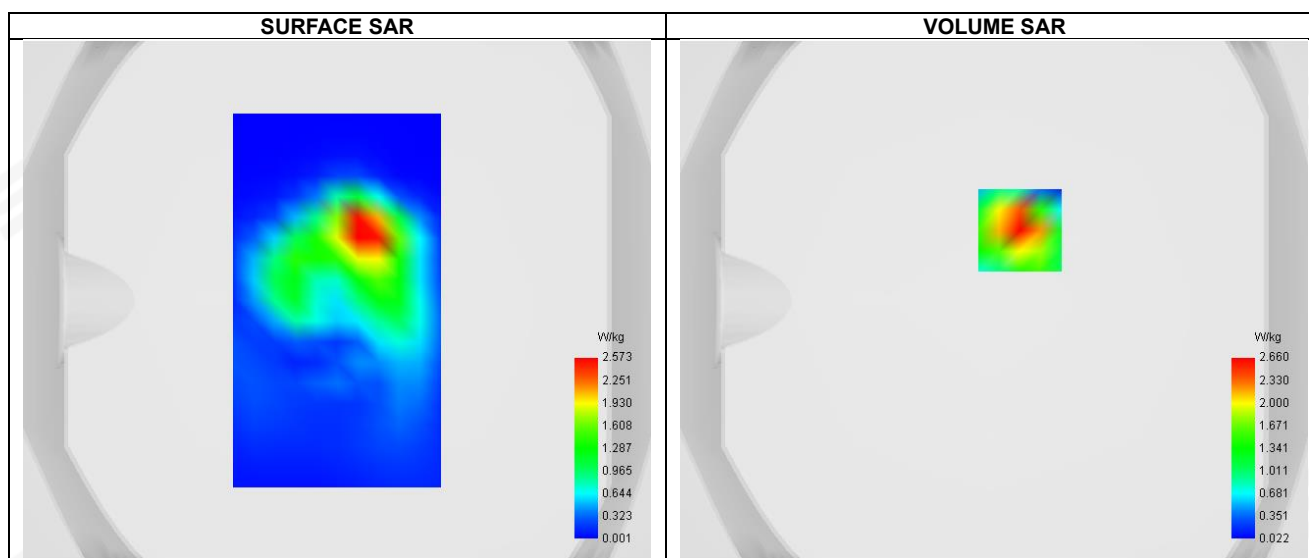
F. 3D Image





Plot 12: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	WCDMA VIII
Signal	WCDMA (Crest factor: 1.0)
Frequency	897.4

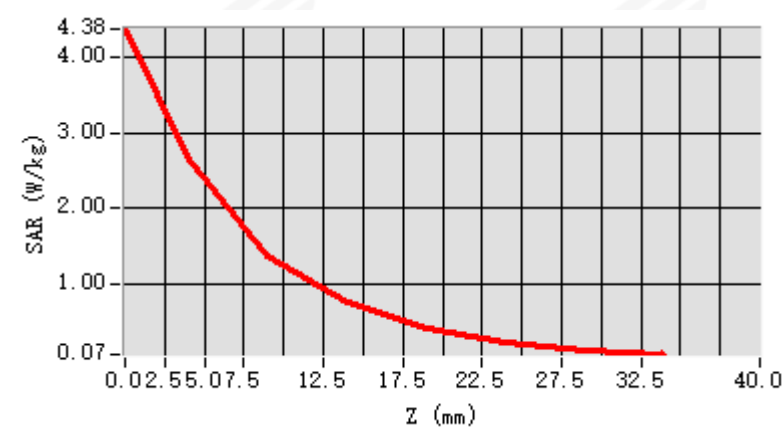


D. SAR 1g & 10g

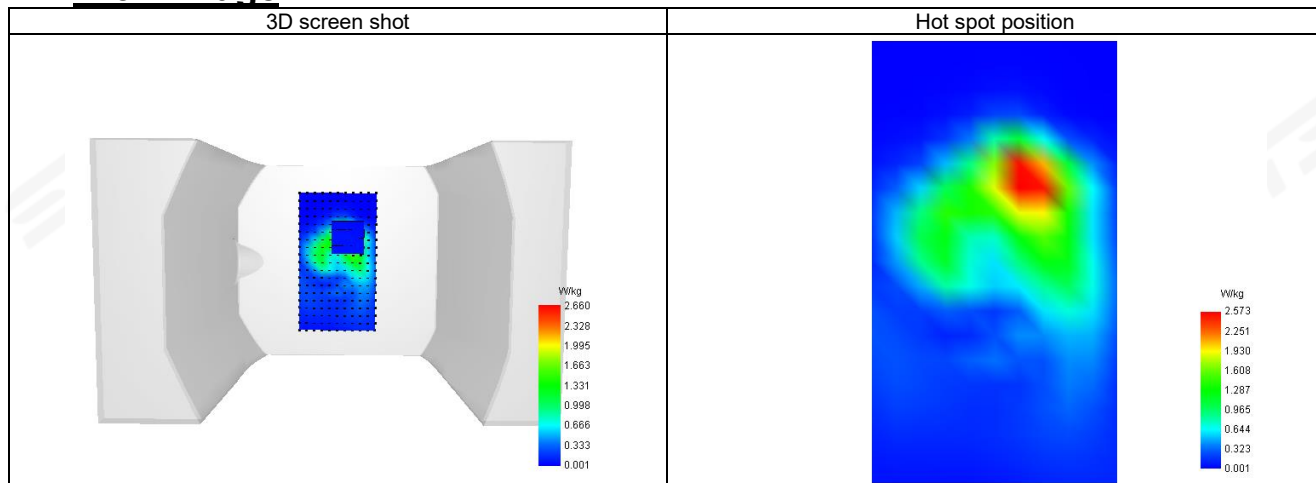
SAR 10g (W/Kg)	1.196
SAR 1g (W/Kg)	2.516
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.540066

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.383	2.660	1.371	0.751	0.401	0.214	0.115

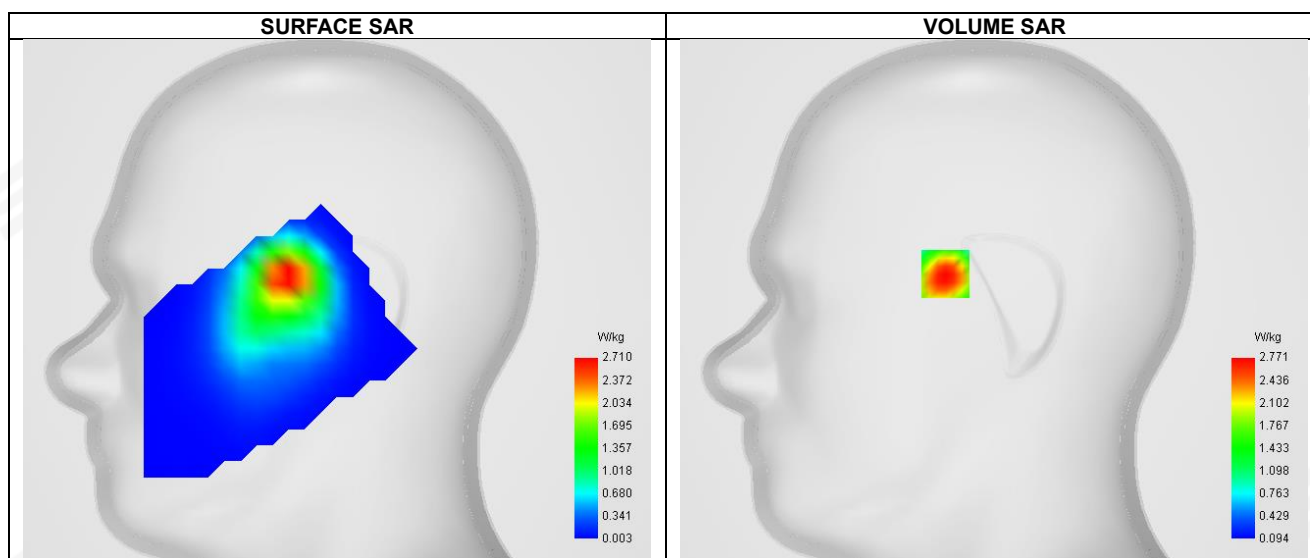


F. 3D Image



Plot 13: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
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	1970



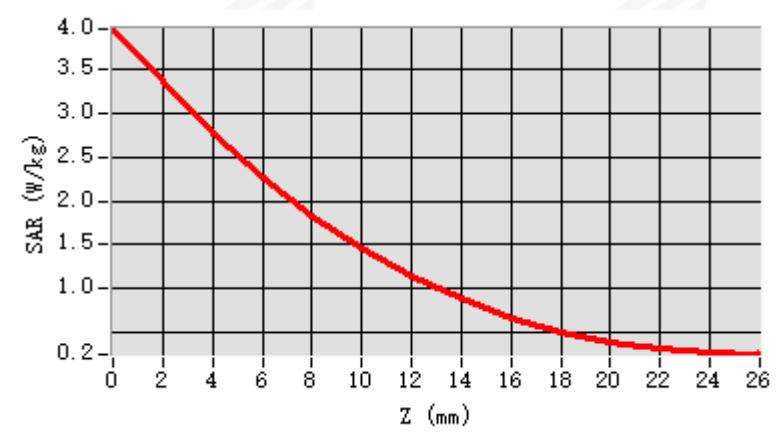
Maximum location: X=-24.00, Y=13.00 ; SAR Peak: 4.01 W/kg

D. SAR 1g & 10g

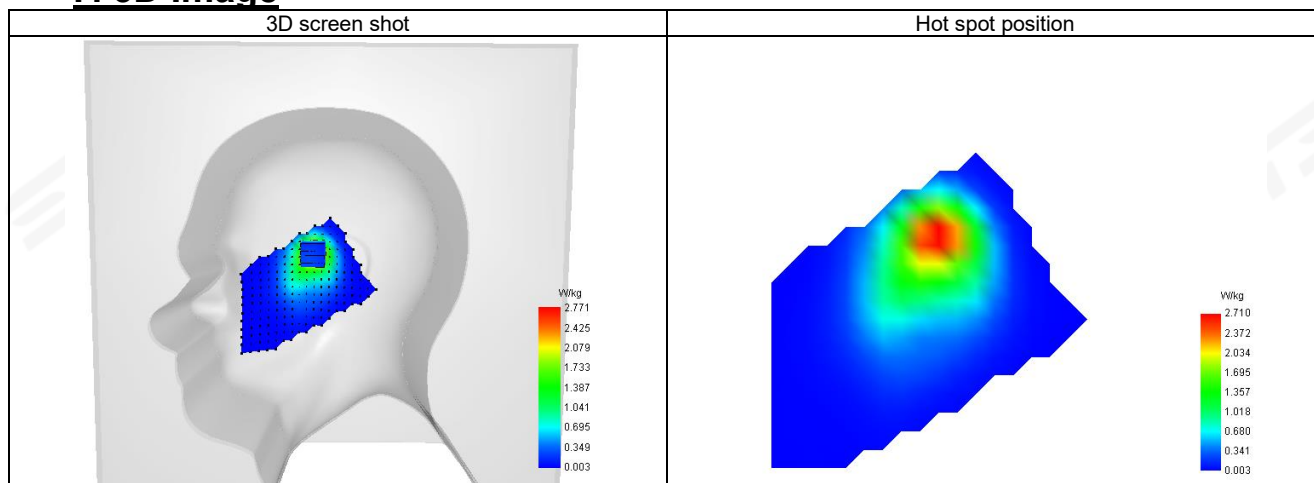
SAR 10g (W/Kg)	1.314
SAR 1g (W/Kg)	2.546
Horizontal validation criteria: minimum distance (mm)	14.422205
Vertical validation criteria: SAR ratio M2/M1 (%)	81.851173

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	3.967	2.771	2.268	1.831	1.469	1.148	0.882	0.669	0.507	0.388	0.309	0.263



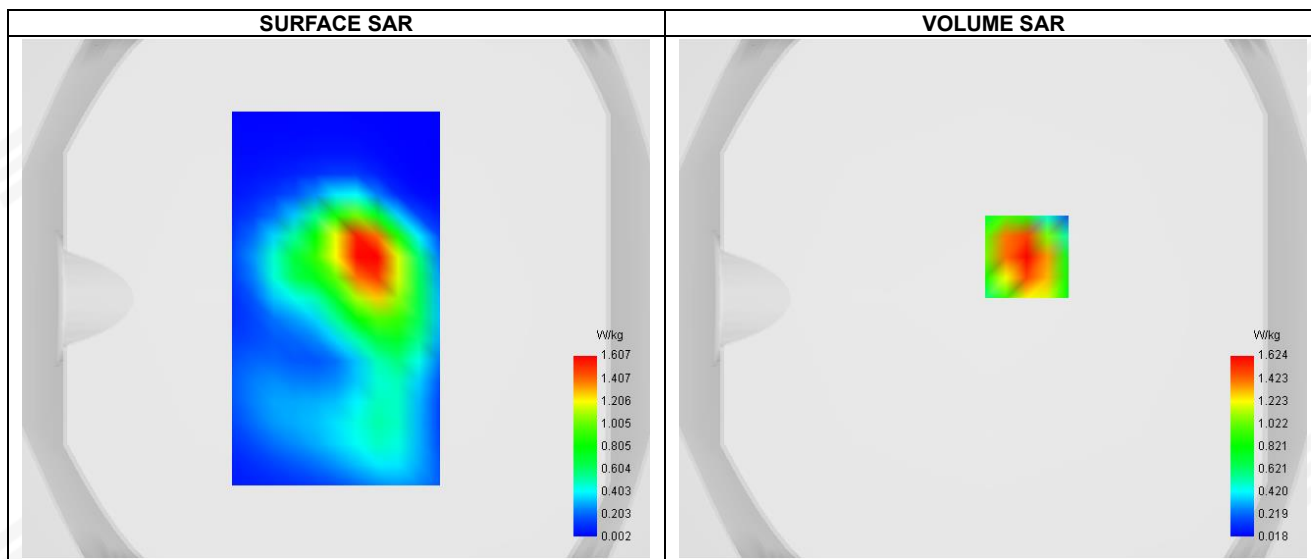
F. 3D Image





Plot 14: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1970

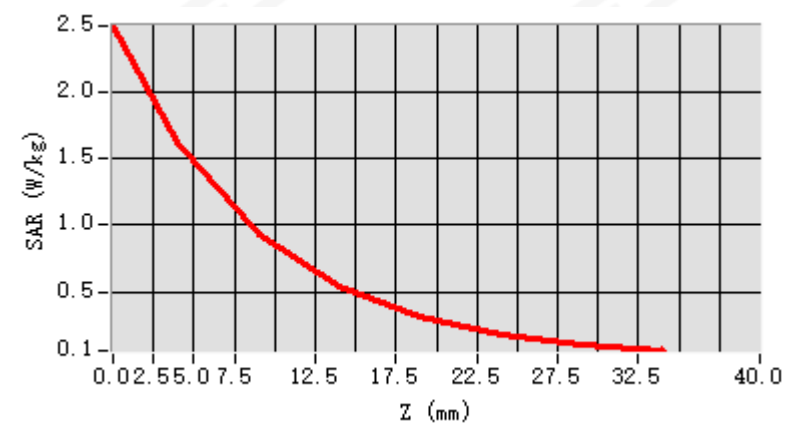


D. SAR 1g & 10g

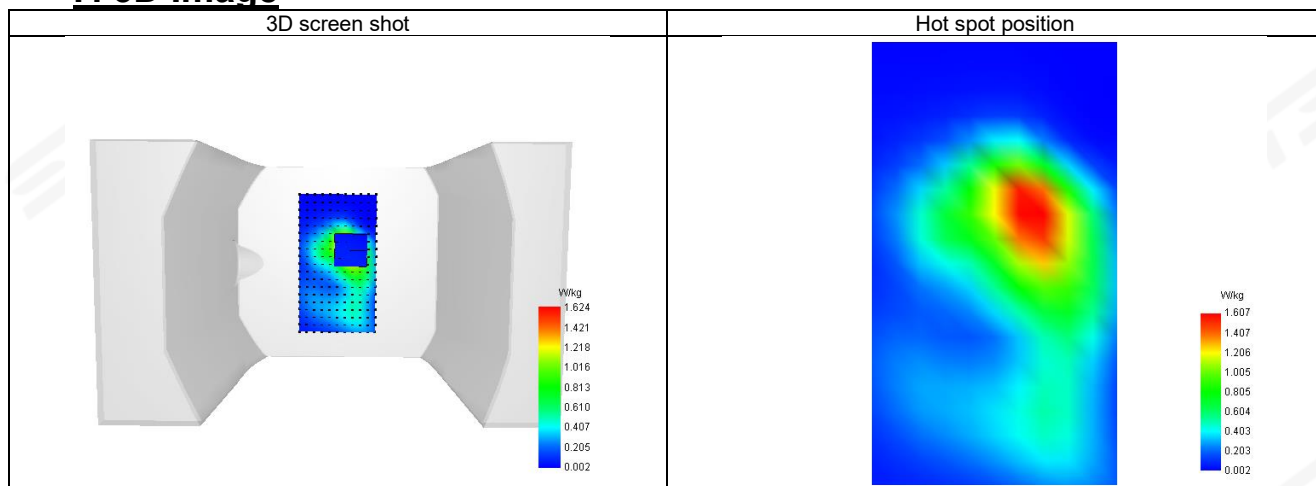
SAR 10g (W/Kg)	0.838
SAR 1g (W/Kg)	1.545
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.523278

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.486	1.624	0.934	0.548	0.320	0.186	0.109



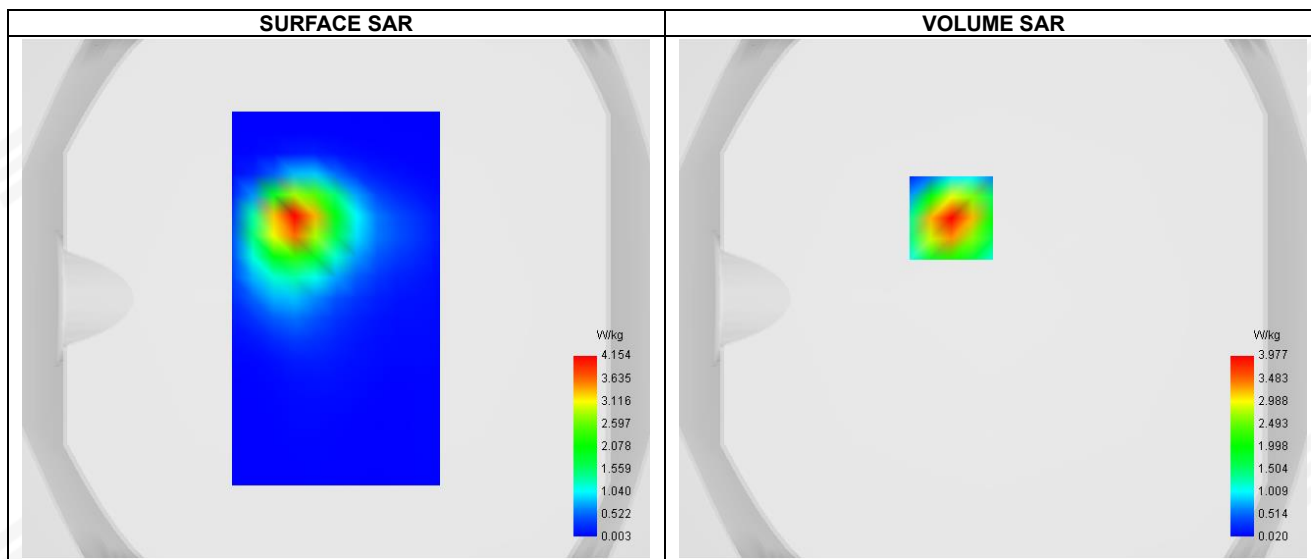
F. 3D Image





Plot 15: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-28
ConvF	1.72
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 1
Signal	LTE (Crest factor: 1.0)
Frequency	1970



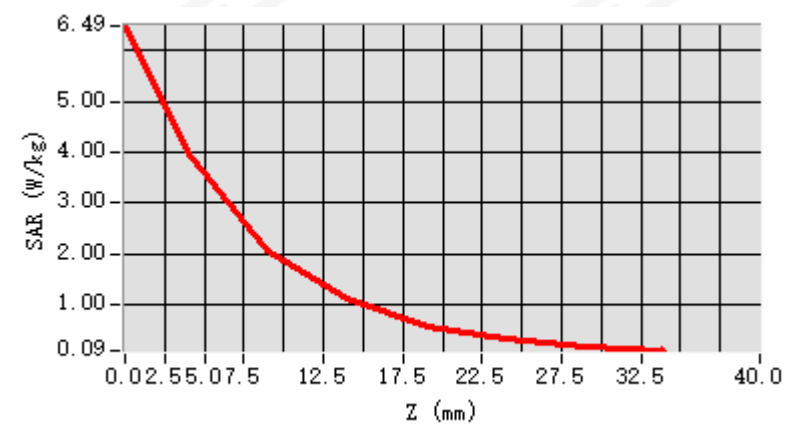
Maximum location: X=-16.00, Y=31.00 ; SAR Peak: 6.47 W/kg

D. SAR 1g & 10g

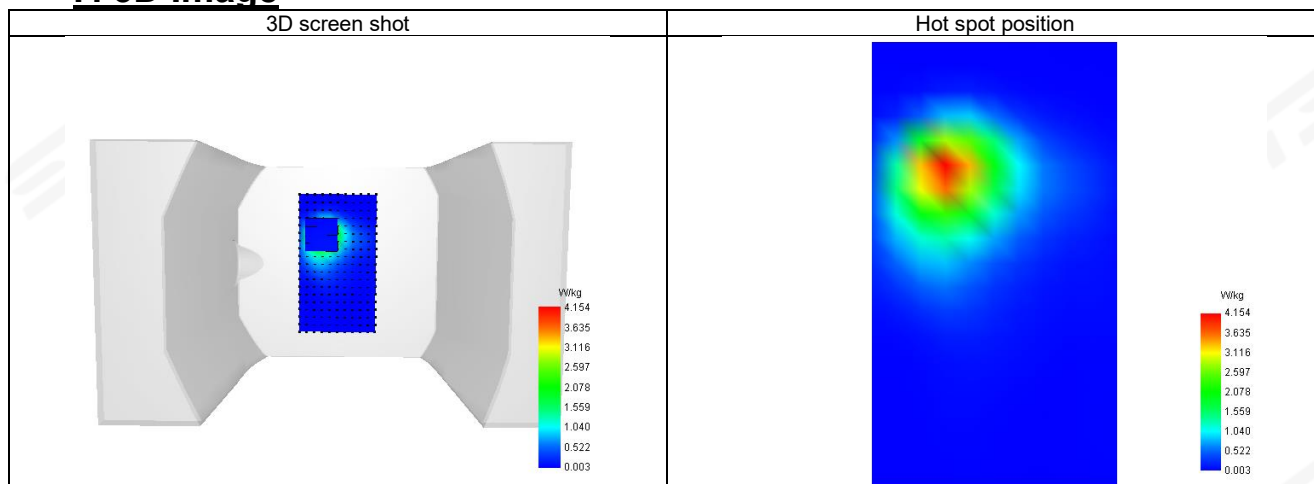
SAR 10g (W/Kg)	1.812
SAR 1g (W/Kg)	3.728
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.042595

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.486	3.977	2.070	1.102	0.581	0.307	0.162



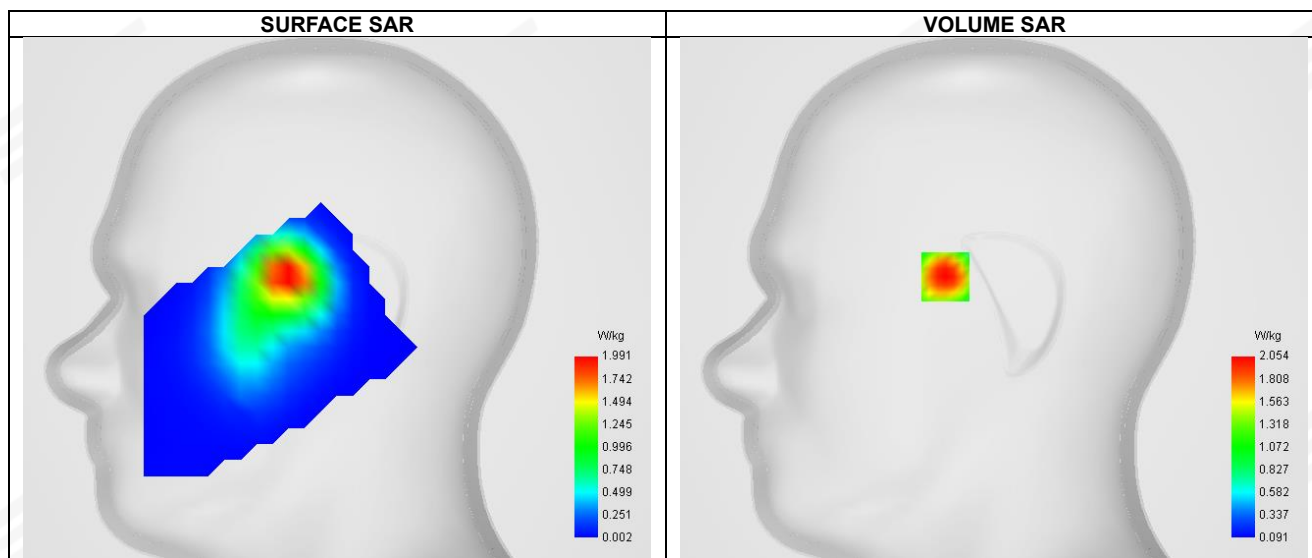
F. 3D Image





Plot 16: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
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	1720

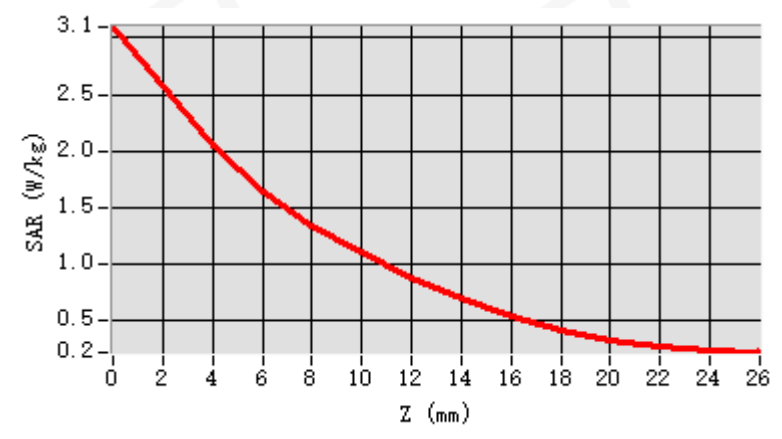


D. SAR 1g & 10g

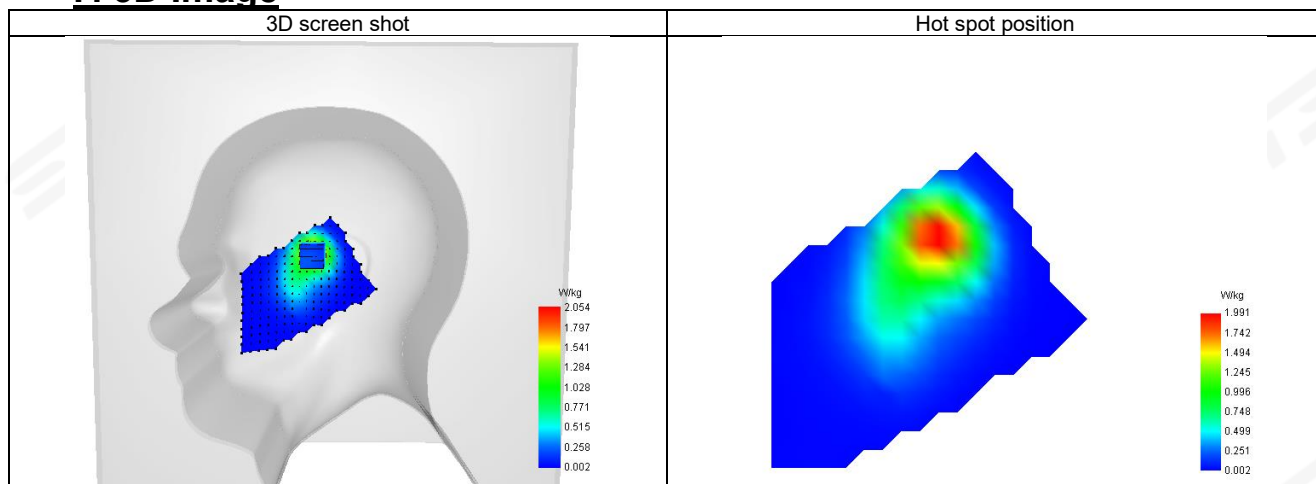
SAR 10g (W/Kg)	1.004
SAR 1g (W/Kg)	1.915
Horizontal validation criteria: minimum distance (mm)	16.970563
Vertical validation criteria: SAR ratio M2/M1 (%)	79.552947

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	3.098	2.054	1.634	1.338	1.099	0.877	0.688	0.533	0.412	0.322	0.260	0.224



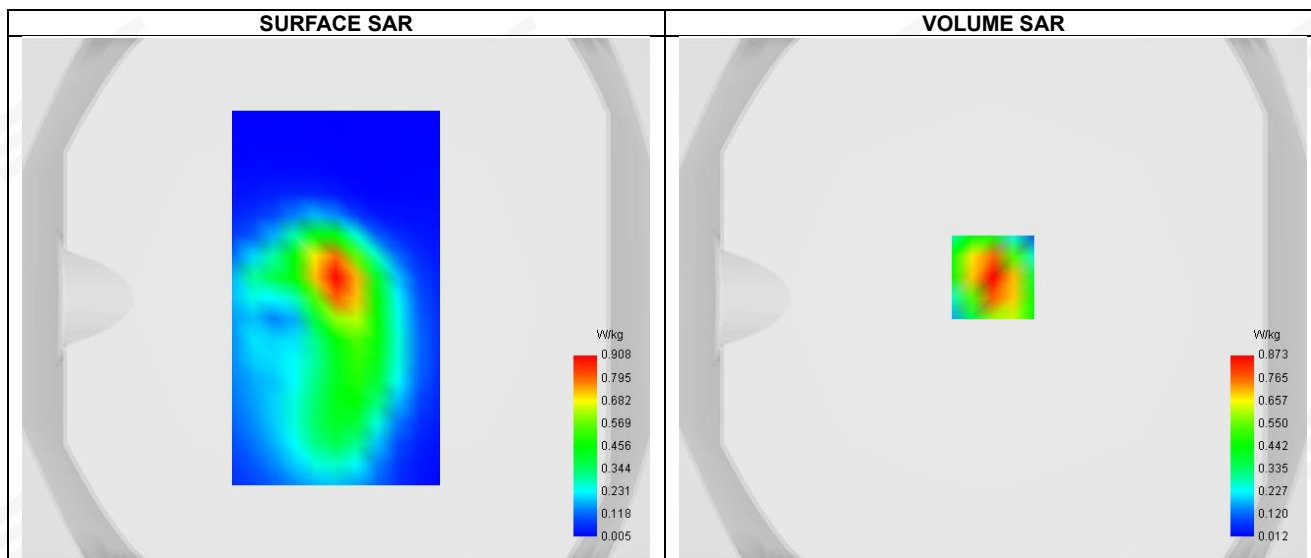
F. 3D Image





Plot 17: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1720



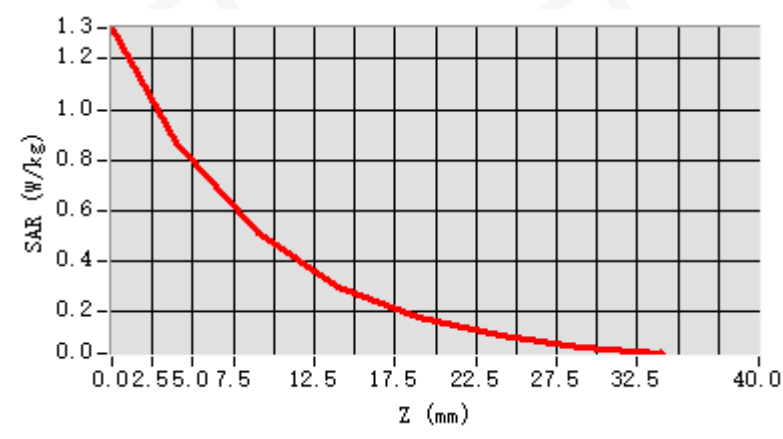
Maximum location: X=0.00, Y=8.00 ; SAR Peak: 1.35 W/kg

D. SAR 1g & 10g

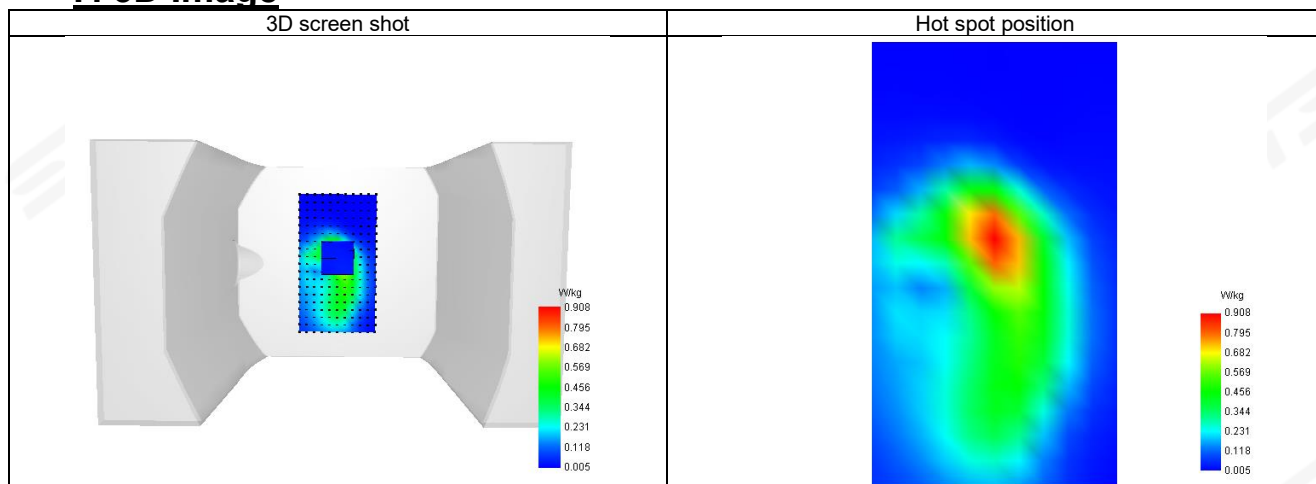
SAR 10g (W/Kg)	0.436
SAR 1g (W/Kg)	0.816
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.308208

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.322	0.873	0.509	0.301	0.177	0.104	0.061



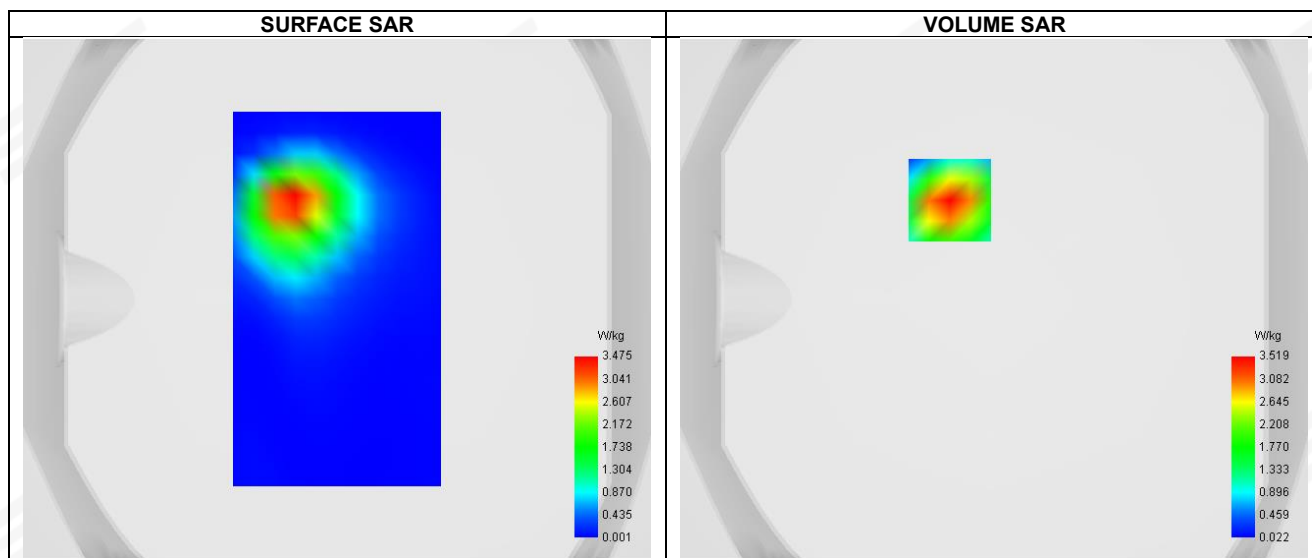
F. 3D Image





Plot 18: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-22
ConvF	1.58
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 3
Signal	LTE (Crest factor: 1.0)
Frequency	1720

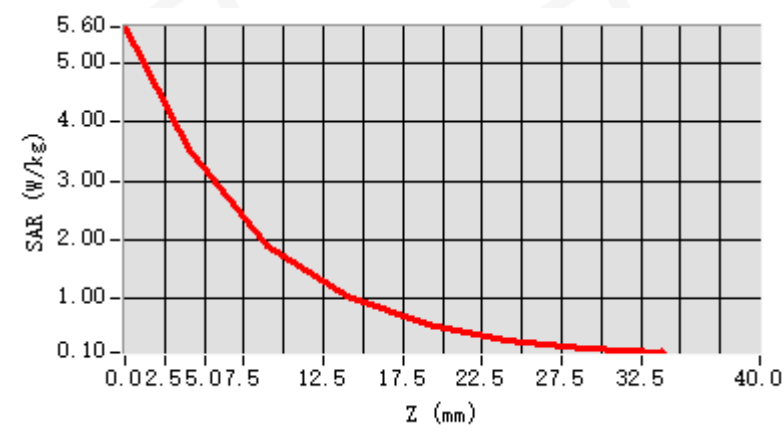


D. SAR 1g & 10g

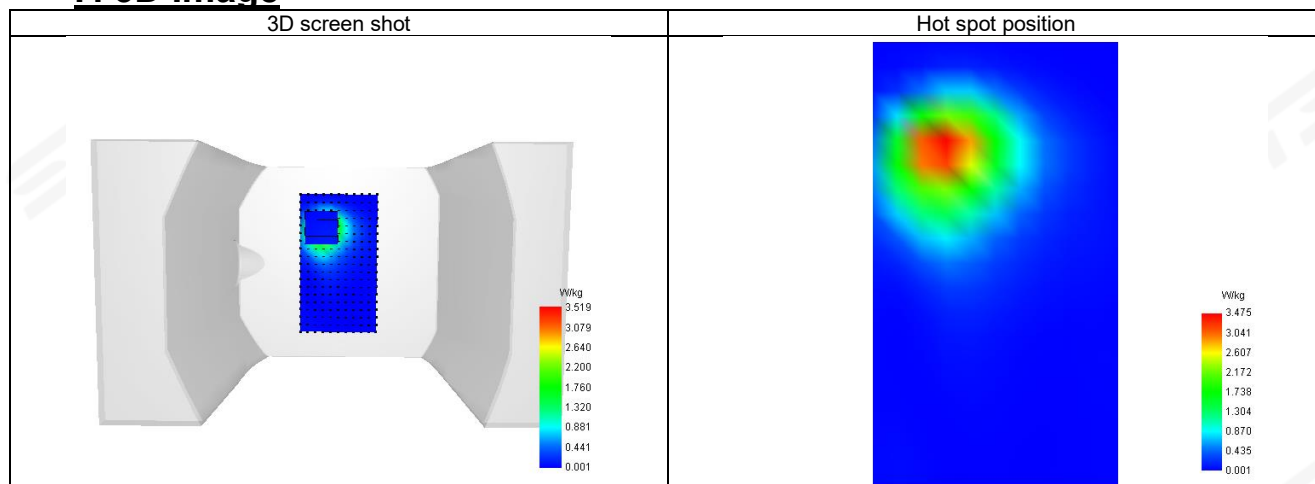
SAR 10g (W/Kg)	1.682
SAR 1g (W/Kg)	3.321
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	54.123310

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.601	3.519	1.905	1.053	0.577	0.316	0.173



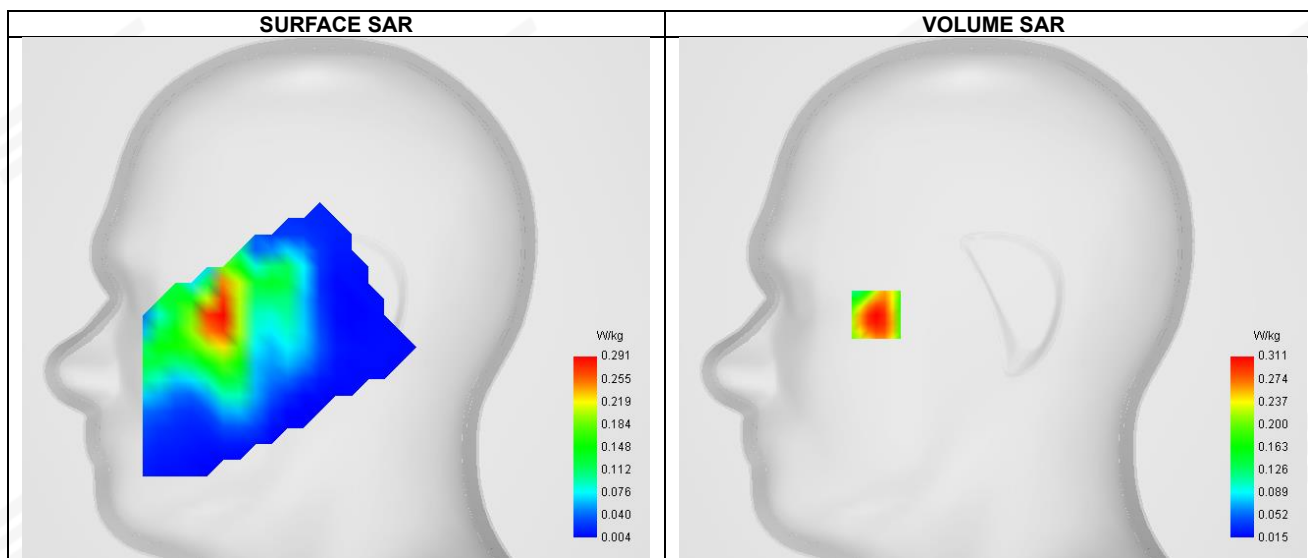
F. 3D Image





Plot 19: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-24
ConvF	1.74
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



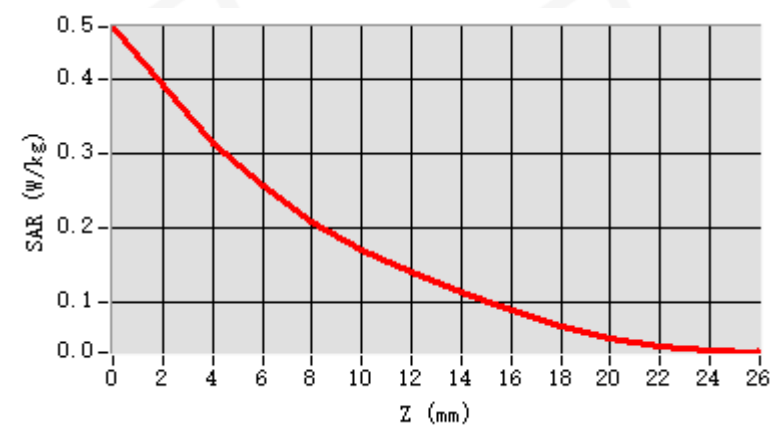
Maximum location: X=-58.00, Y=-8.00 ; SAR Peak: 0.47 W/kg

D. SAR 1g & 10g

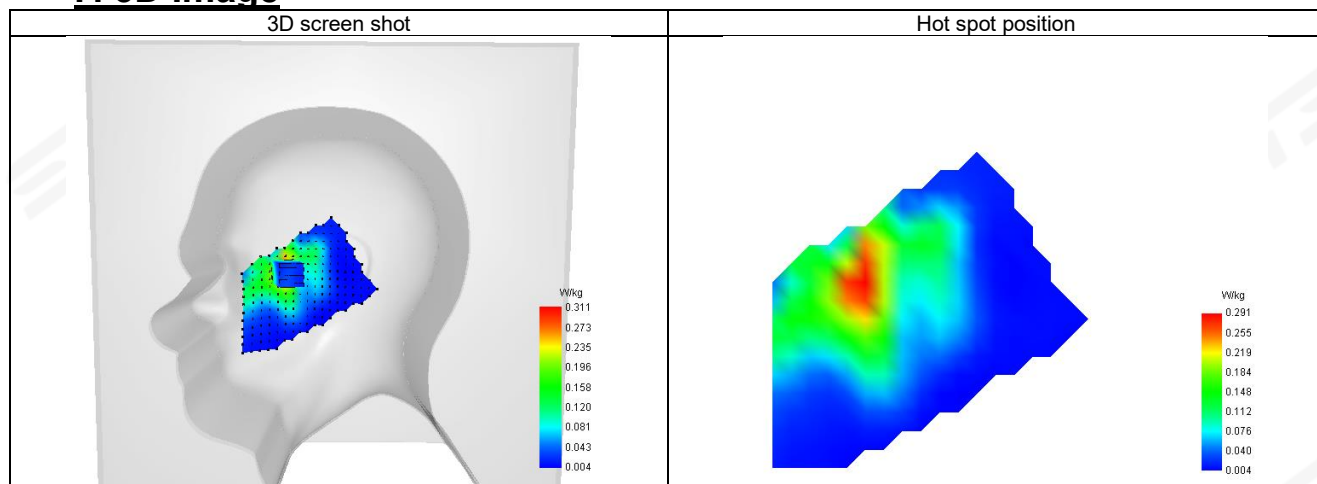
SAR 10g (W/Kg)	0.153
SAR 1g (W/Kg)	0.286
Horizontal validation criteria: minimum distance (mm)	14.422205
Vertical validation criteria: SAR ratio M2/M1 (%)	81.664659

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.469	0.311	0.254	0.208	0.169	0.139	0.112	0.087	0.067	0.051	0.040	0.033



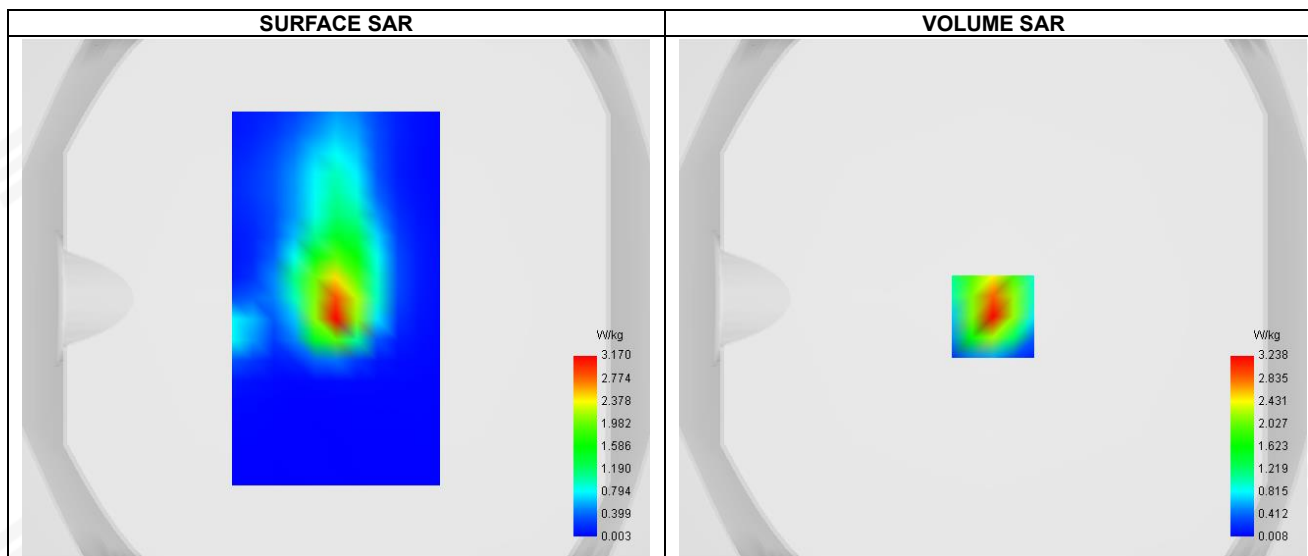
F. 3D Image





Plot 20: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-24
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2560



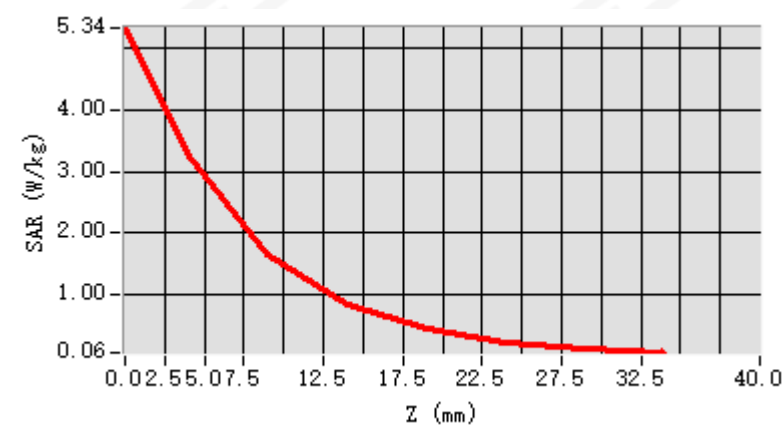
Maximum location: X=0.00, Y=-7.00 ; SAR Peak: 5.28 W/kg

D. SAR 1g & 10g

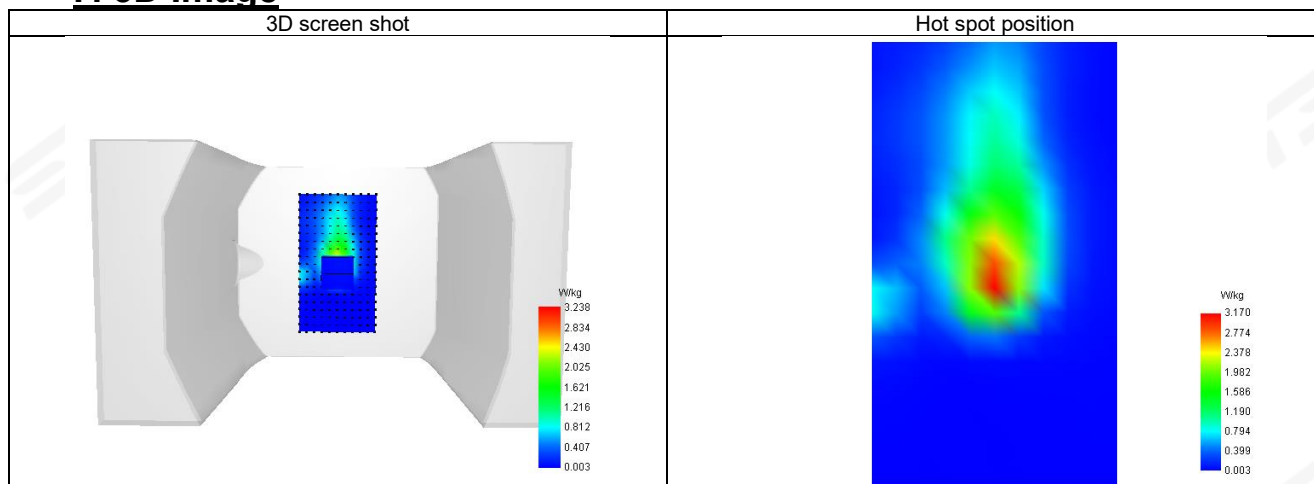
SAR 10g (W/Kg)	1.361
SAR 1g (W/Kg)	2.936
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.017865

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.337	3.238	1.652	0.850	0.436	0.224	0.115



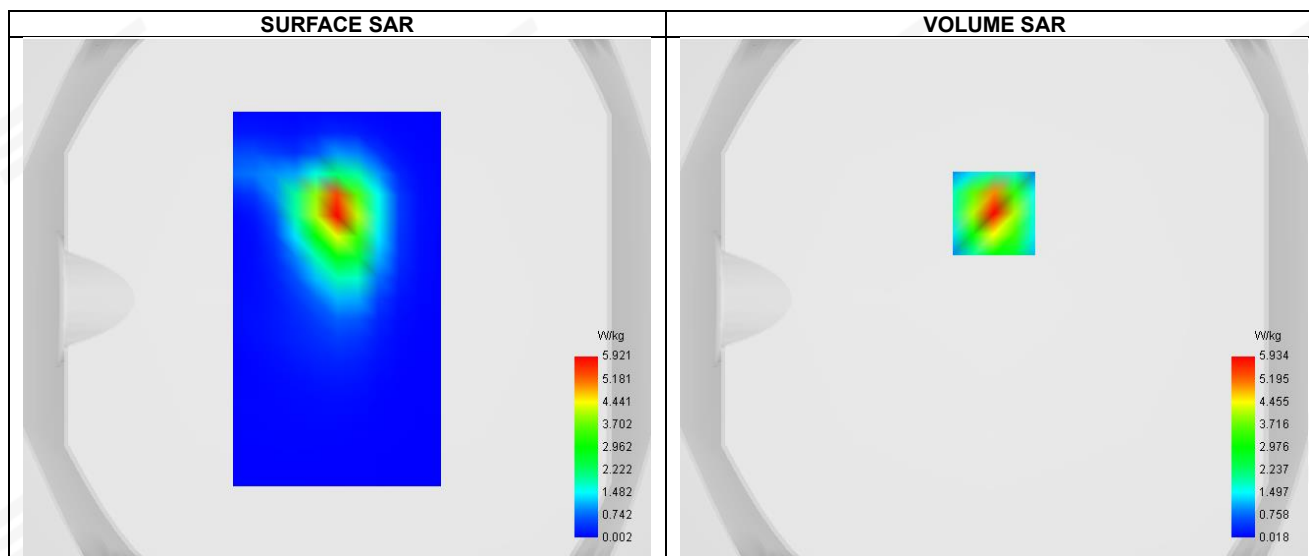
F. 3D Image





Plot 21: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-24
ConvF	1.74
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 7
Signal	LTE (Crest factor: 1.0)
Frequency	2560

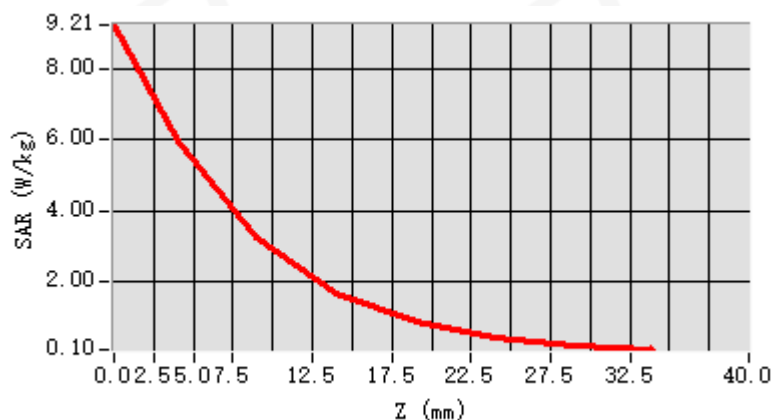


D. SAR 1g & 10g

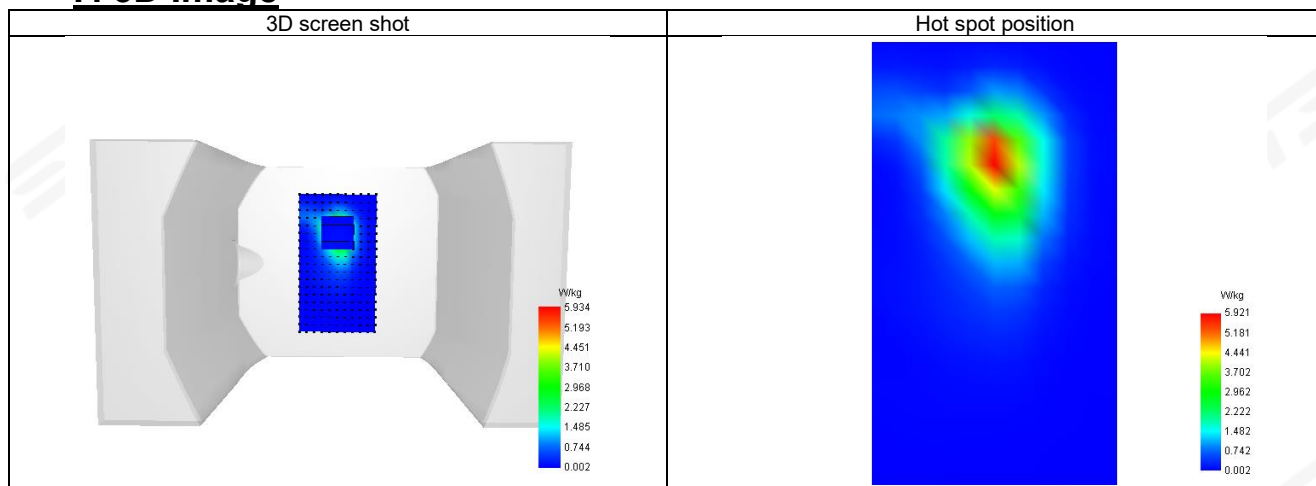
SAR 10g (W/Kg)	2.464
SAR 1g (W/Kg)	5.385
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.051028

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.209	5.934	3.267	1.651	0.864	0.452	0.237



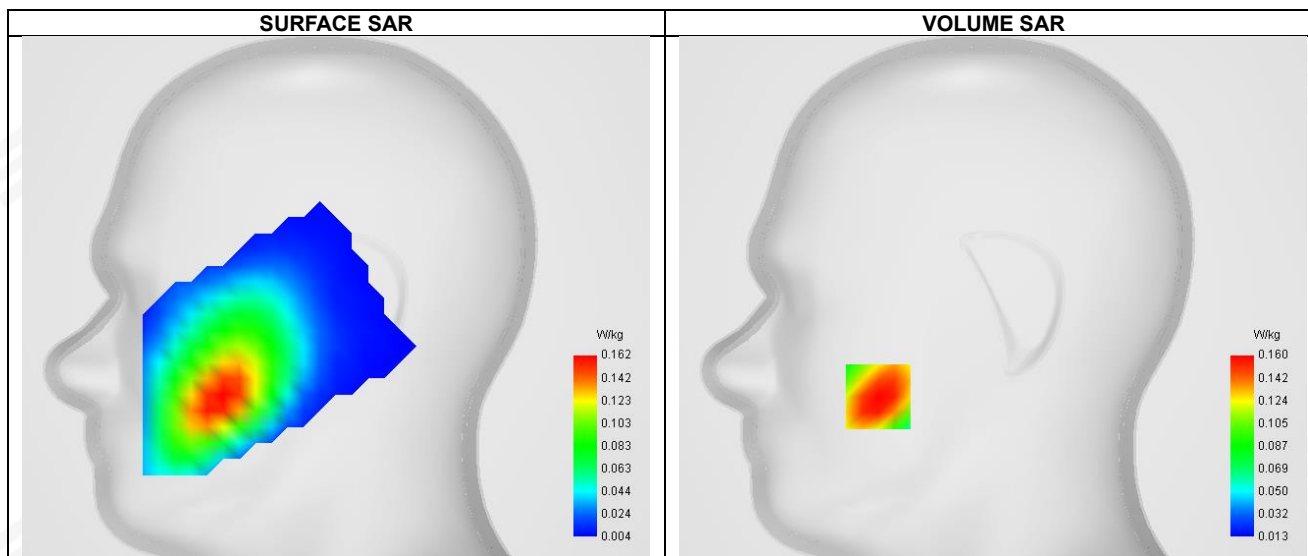
F. 3D Image





Plot 22.: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
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	910



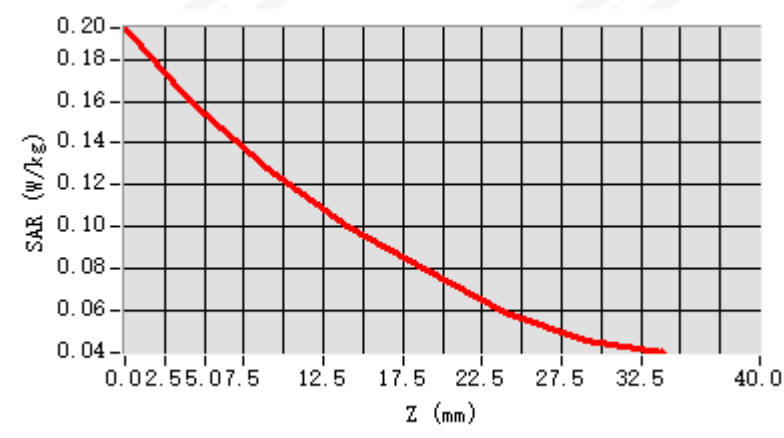
Maximum location: X=-57.00, Y=-49.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

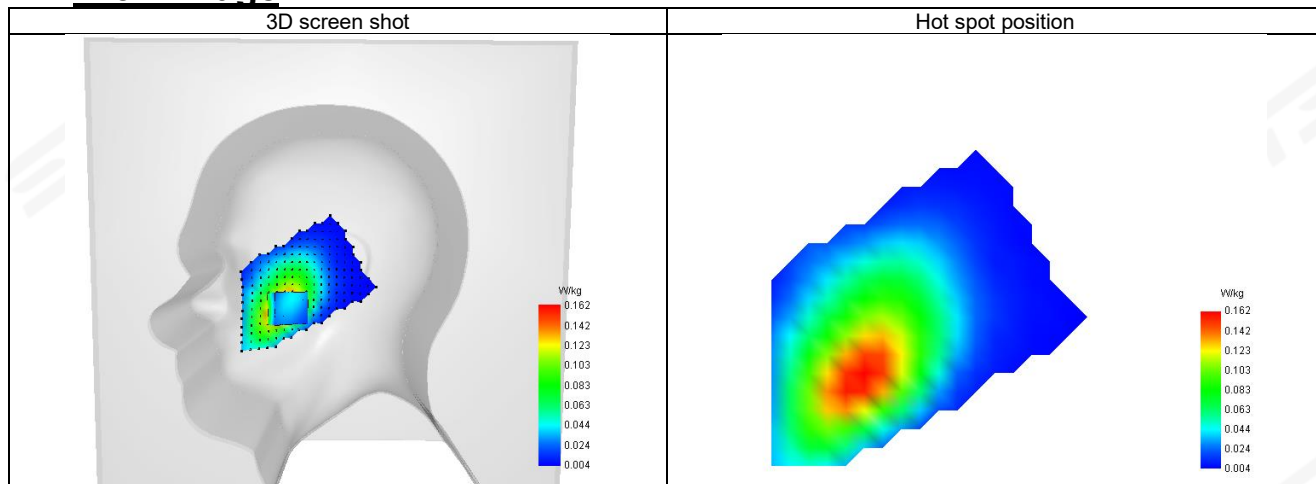
SAR 10g (W/Kg)	0.114
SAR 1g (W/Kg)	0.158
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	79.630701

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.195	0.160	0.128	0.100	0.079	0.059	0.045



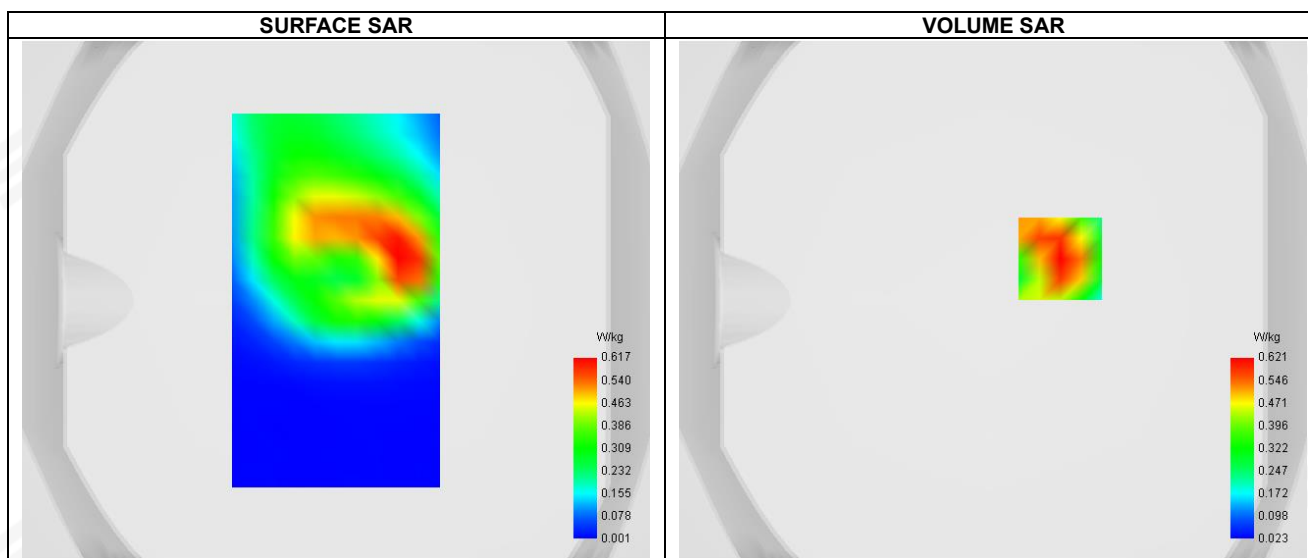
F. 3D Image





Plot 23: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	910



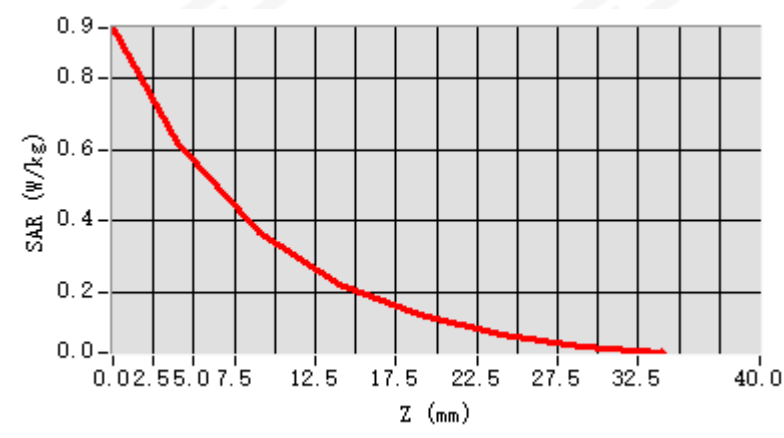
Maximum location: X=26.00, Y=16.00 ; SAR Peak: 0.95 W/kg

D. SAR 1g & 10g

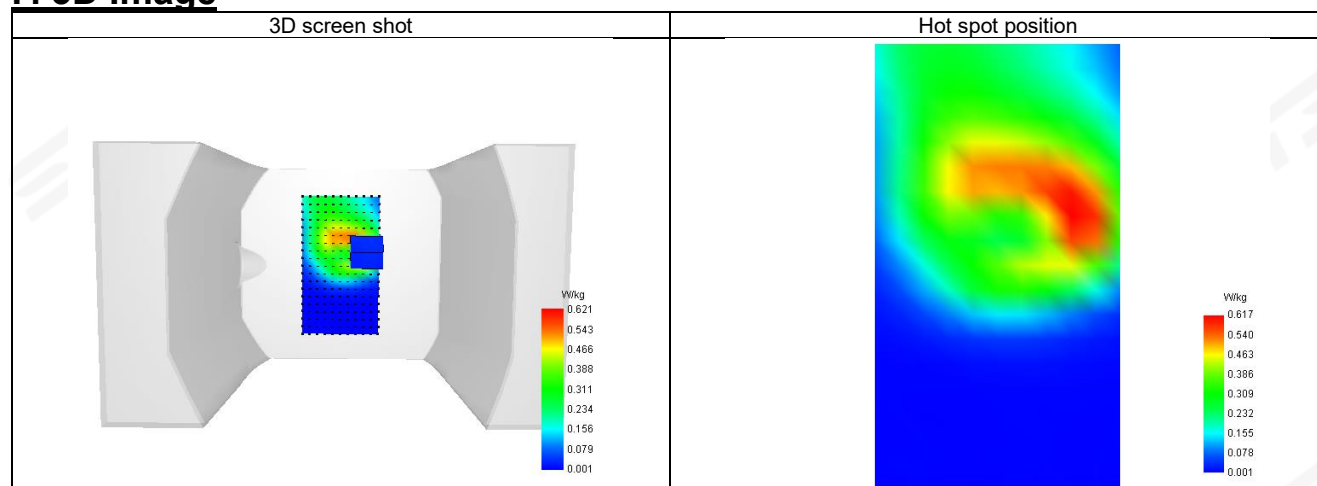
SAR 10g (W/Kg)	0.328
SAR 1g (W/Kg)	0.591
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	59.723145

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.938	0.621	0.369	0.224	0.140	0.086	0.053



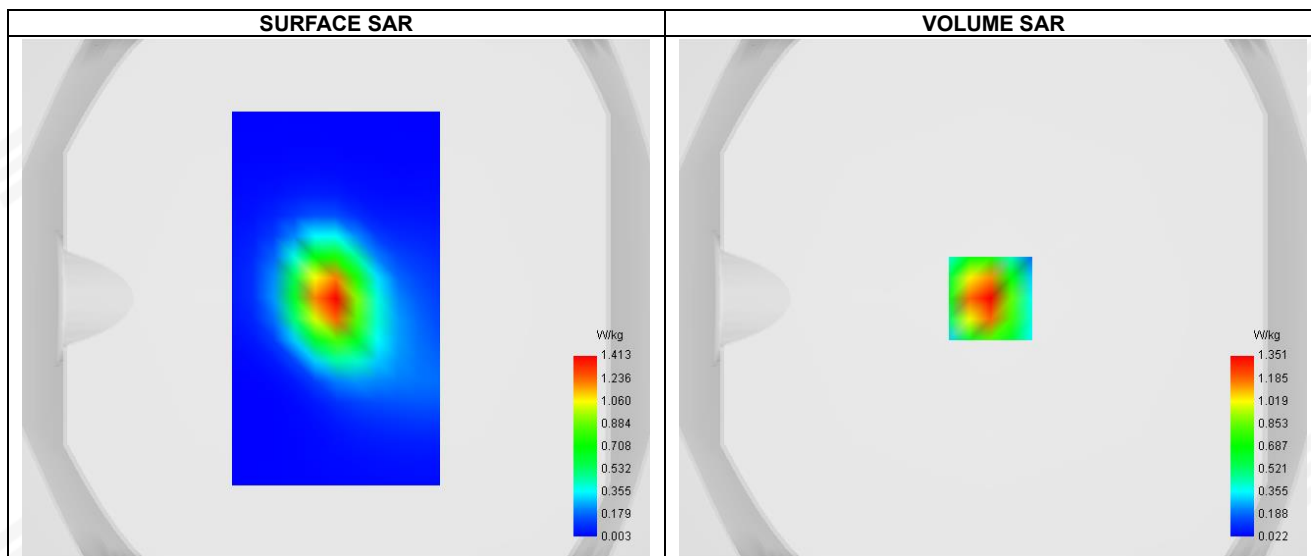
F. 3D Image





Plot 24: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 8
Signal	LTE (Crest factor: 1.0)
Frequency	910



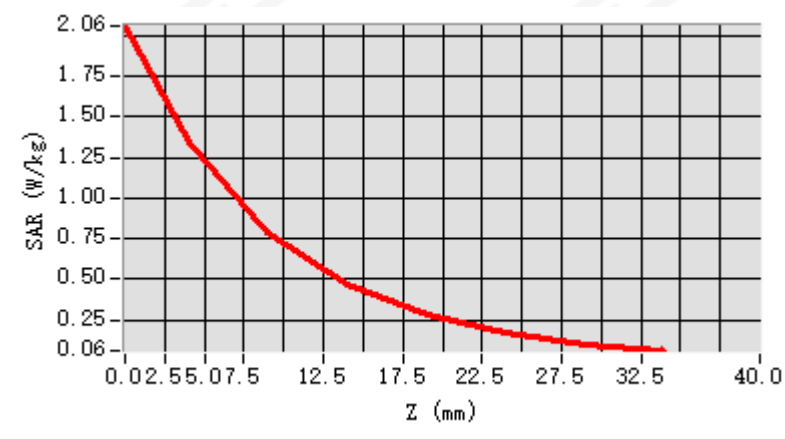
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 2.07 W/kg

D. SAR 1g & 10g

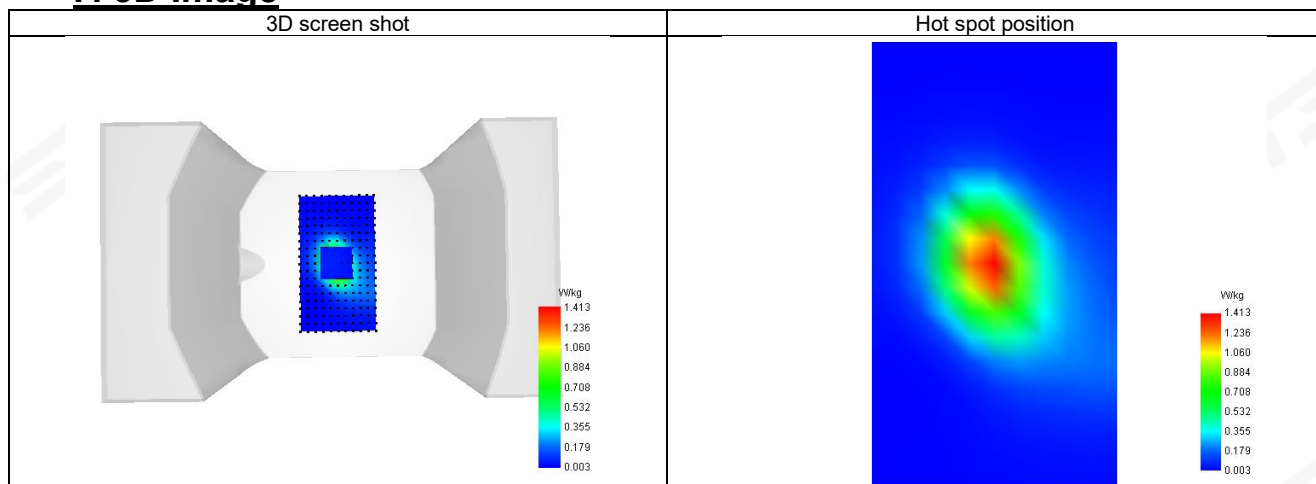
SAR 10g (W/Kg)	0.668
SAR 1g (W/Kg)	1.280
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.065917

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.061	1.351	0.785	0.473	0.281	0.167	0.099



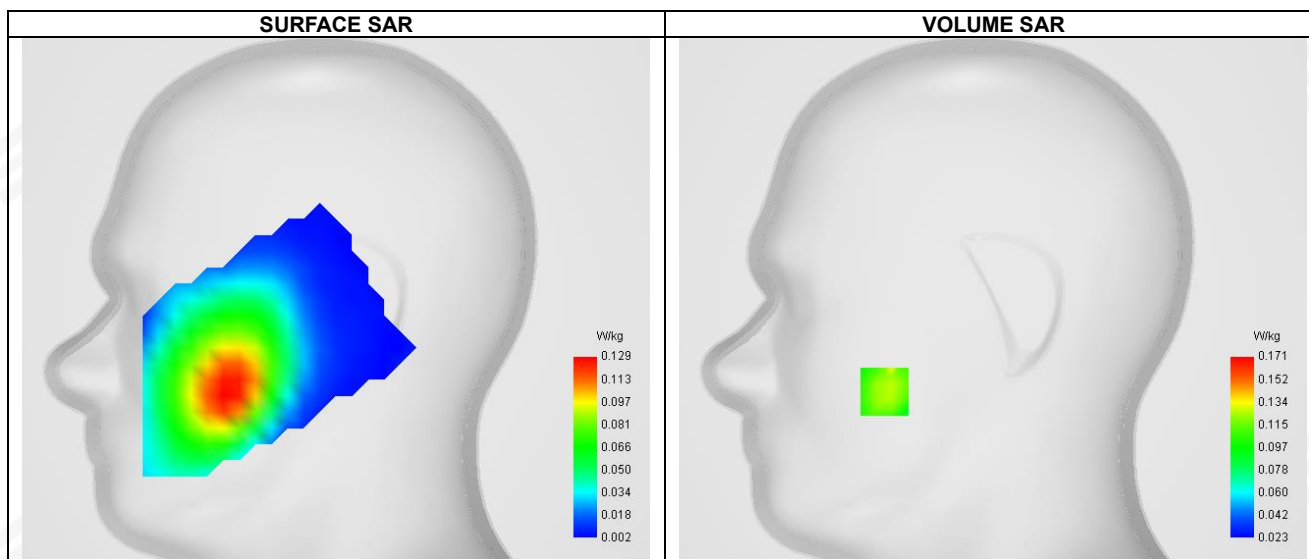
F. 3D Image





Plot 25.: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
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	842

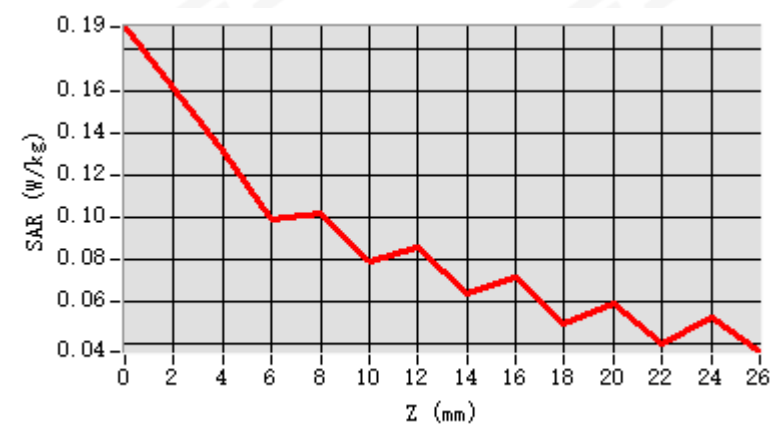


D. SAR 1g & 10g

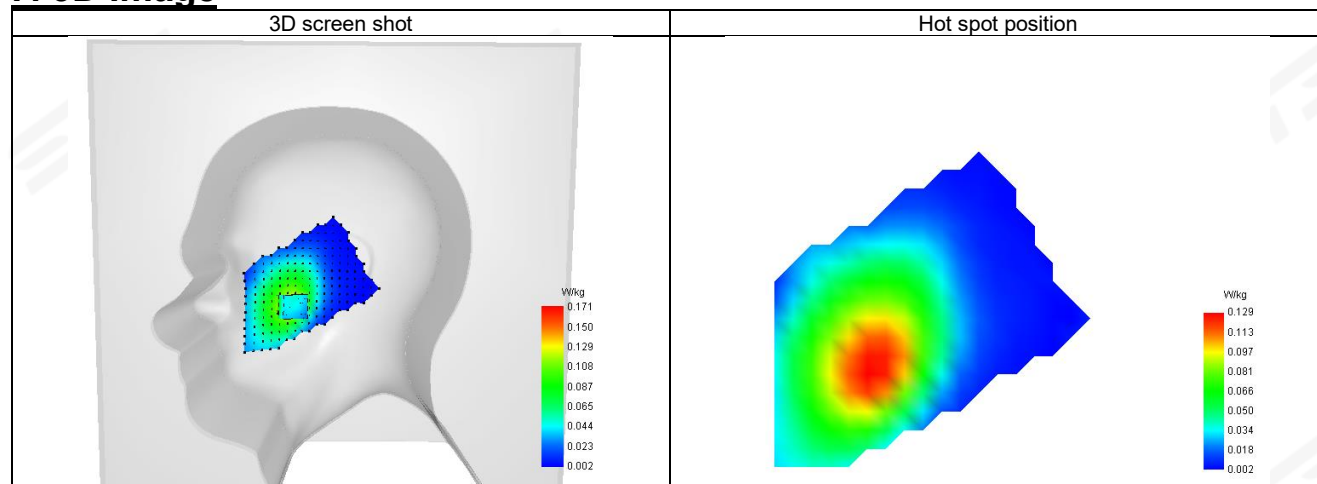
SAR 10g (W/Kg)	0.070
SAR 1g (W/Kg)	0.120
Horizontal validation criteria: minimum distance (mm)	11.339175
Vertical validation criteria: SAR ratio M2/M1 (%)	75.572519

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.191	0.131	0.099	0.103	0.079	0.086	0.064	0.072	0.050	0.060	0.040	0.053



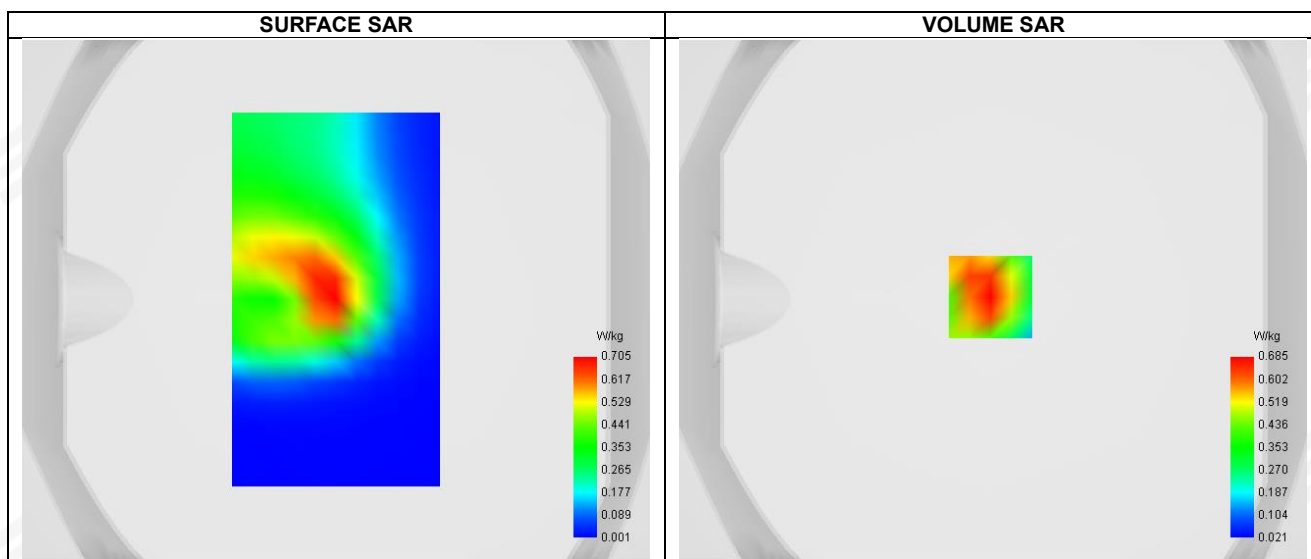
F. 3D Image





Plot 26: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	842



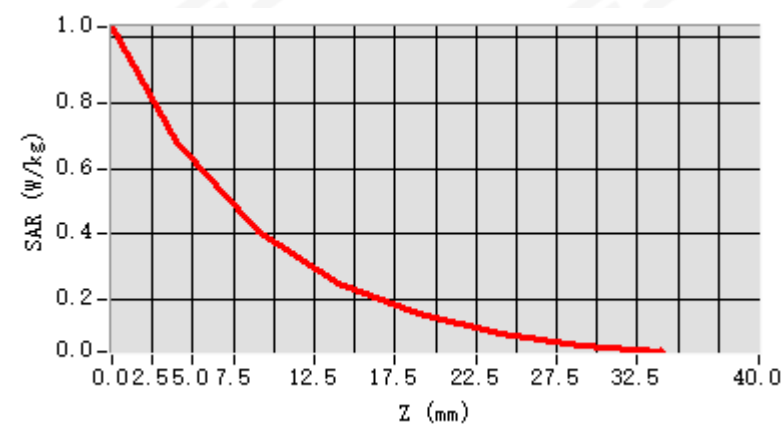
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 1.05 W/kg

D. SAR 1g & 10g

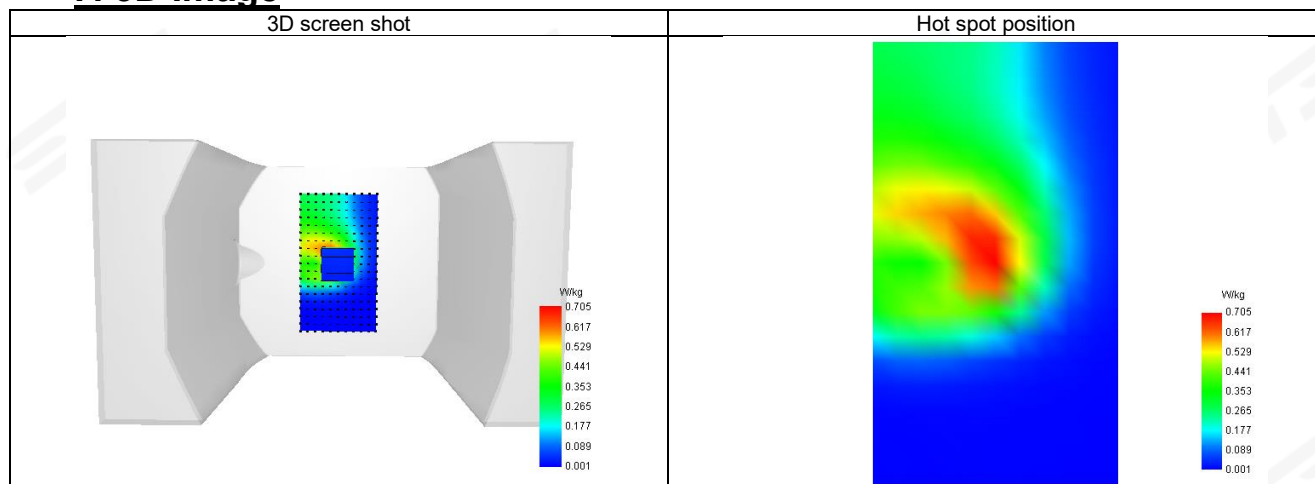
SAR 10g (W/Kg)	0.364
SAR 1g (W/Kg)	0.655
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.464176

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.034	0.685	0.407	0.247	0.154	0.094	0.058



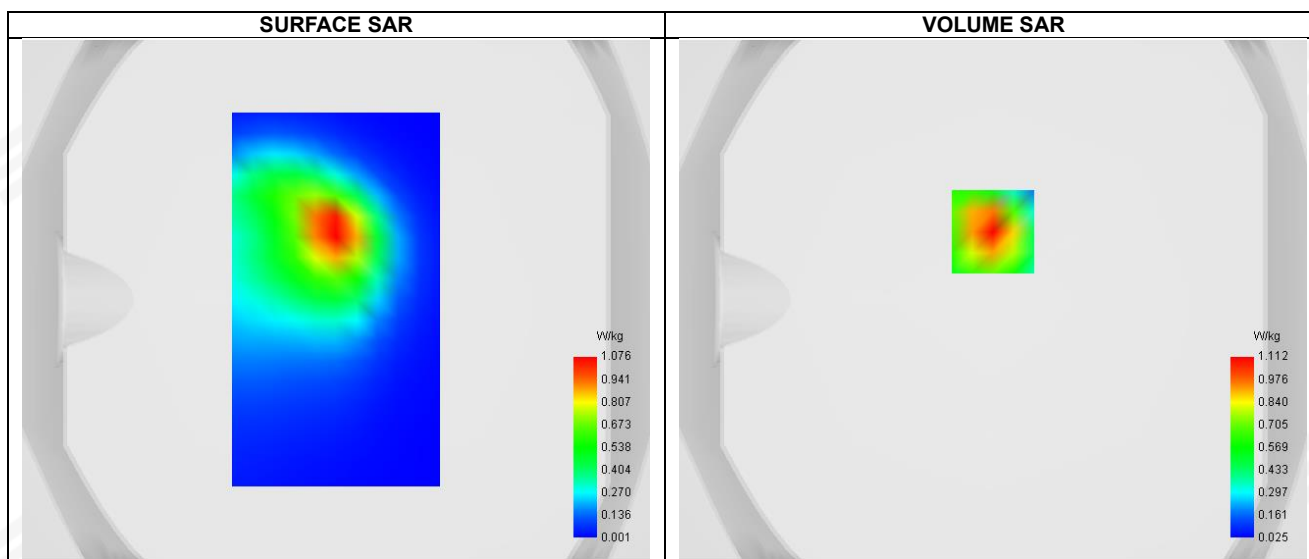
F. 3D Image





Plot 27: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-26
ConvF	1.48
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 20
Signal	LTE (Crest factor: 1.0)
Frequency	842



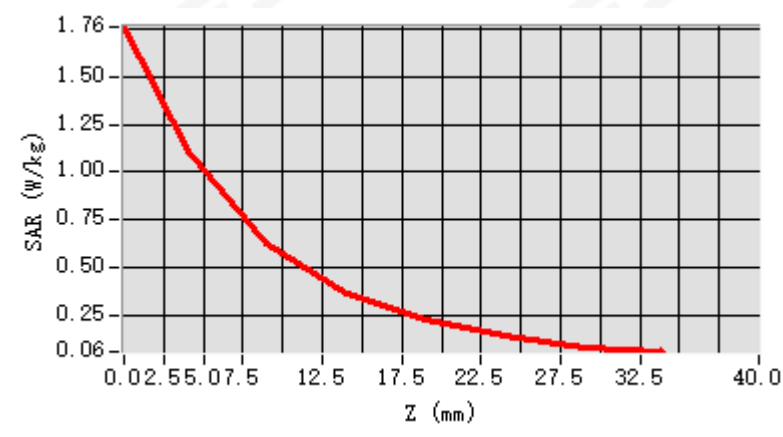
Maximum location: X=0.00, Y=26.00 ; SAR Peak: 1.78 W/kg

D. SAR 1g & 10g

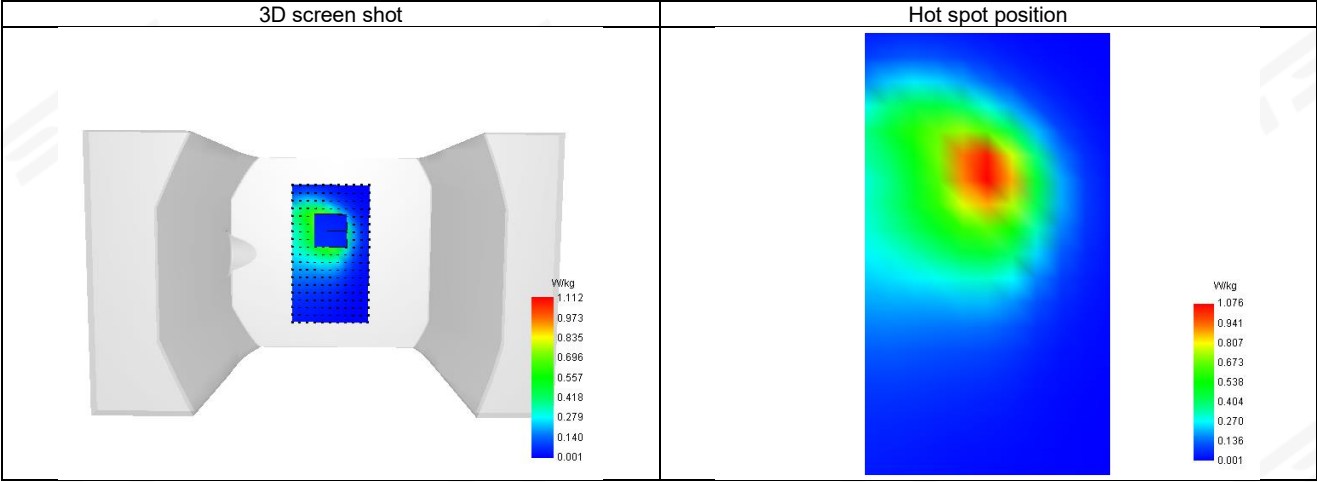
SAR 10g (W/Kg)	0.565
SAR 1g (W/Kg)	1.049
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.172827

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.763	1.112	0.625	0.366	0.229	0.137	0.081



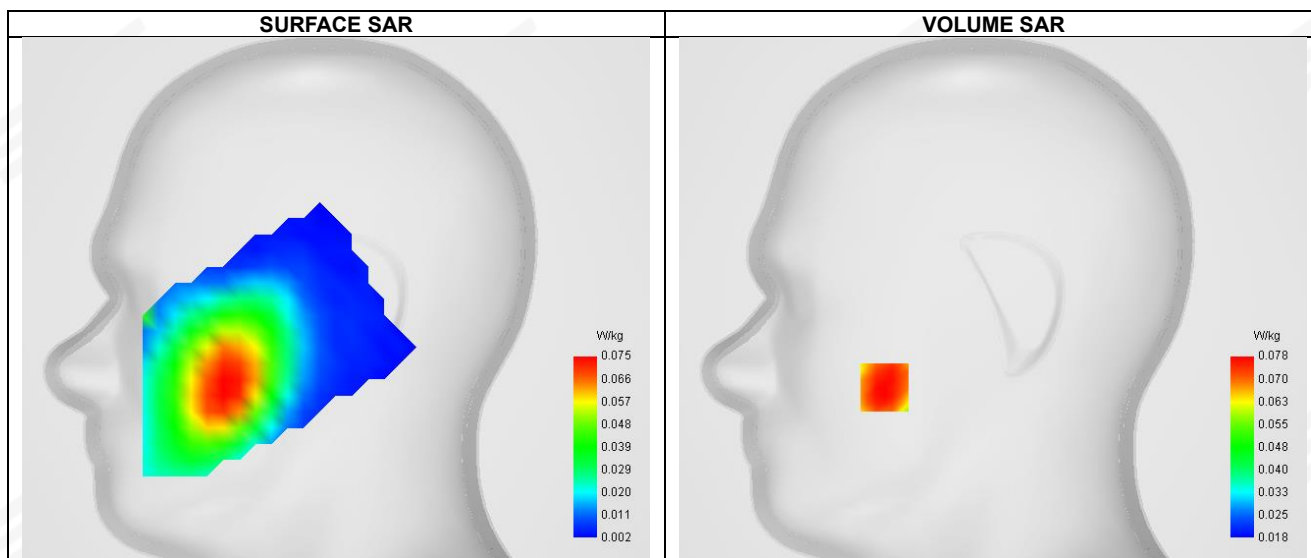
F. 3D Image





Plot 28: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-27
ConvF	1.56
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 28
Signal	LTE (Crest factor: 1.0)
Frequency	738

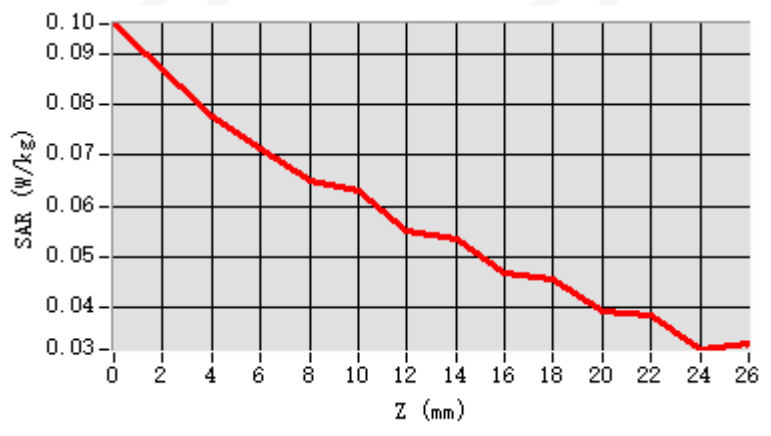


D. SAR 1g & 10g

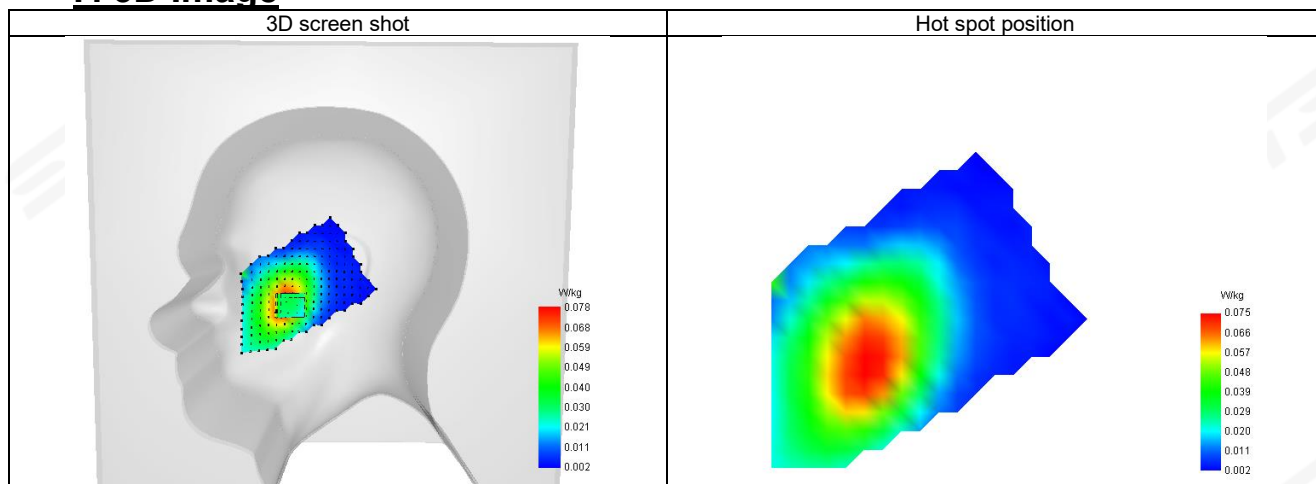
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.076
Horizontal validation criteria: minimum distance (mm)	12.339547
Vertical validation criteria: SAR ratio M2/M1 (%)	92.307692

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.096	0.078	0.072	0.065	0.063	0.055	0.053	0.047	0.045	0.039	0.038	0.032



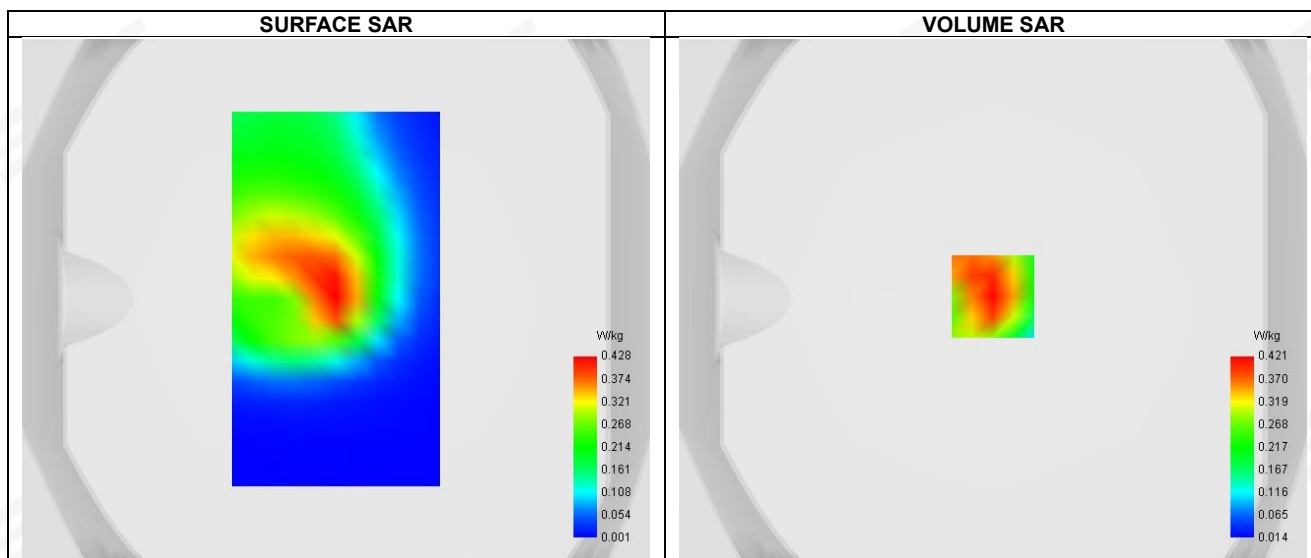
F. 3D Image





Plot 29: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-27
ConvF	1.56
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 28
Signal	LTE (Crest factor: 1.0)
Frequency	738

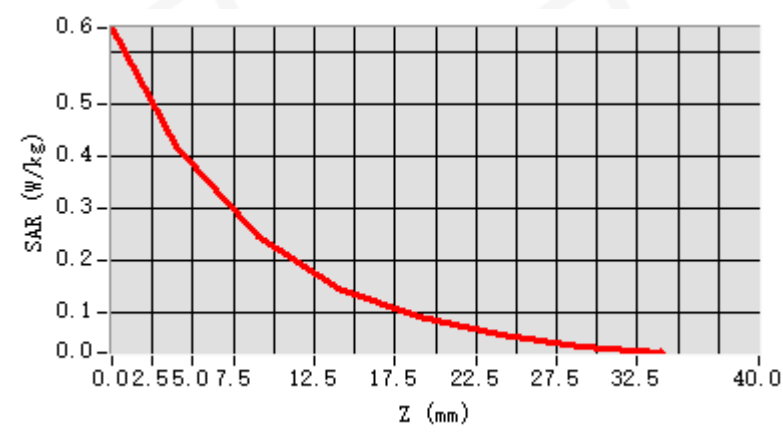


D. SAR 1g & 10g

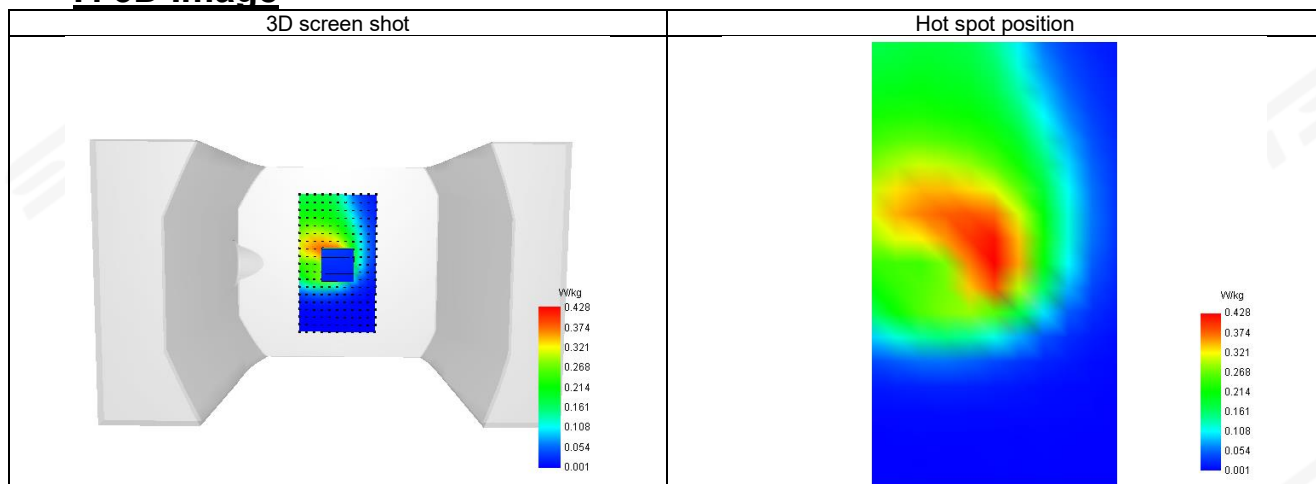
SAR 10g (W/Kg)	0.221
SAR 1g (W/Kg)	0.428
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	60.559915

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.646	0.421	0.246	0.148	0.094	0.057	0.035



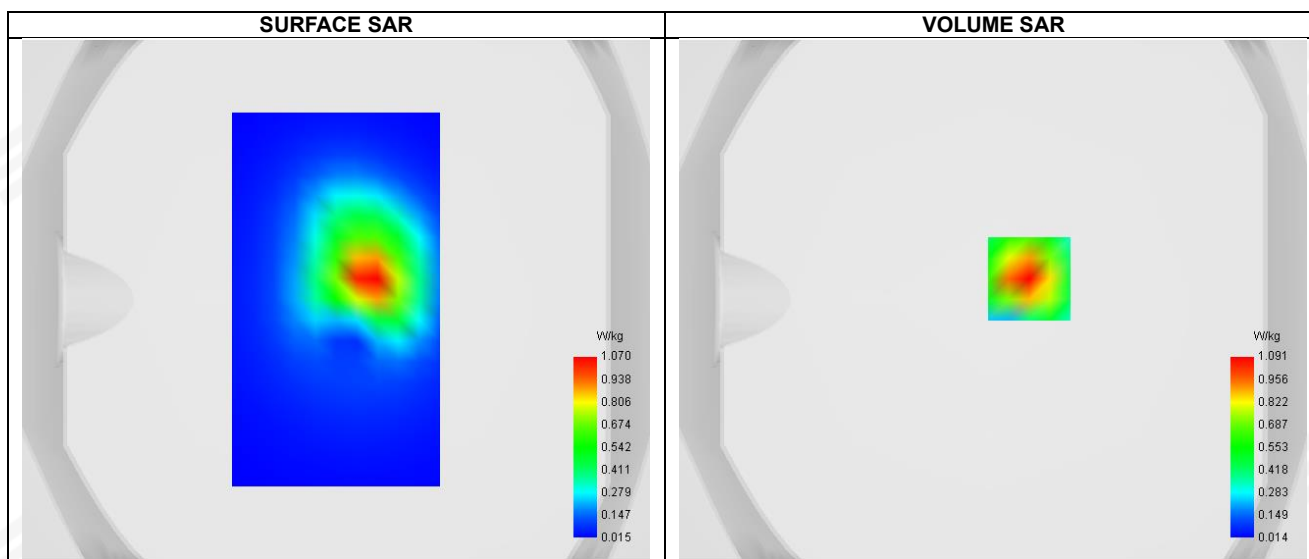
F. 3D Image





Plot 30: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-27
ConvF	1.56
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	LTE band 28
Signal	LTE (Crest factor: 1.0)
Frequency	738

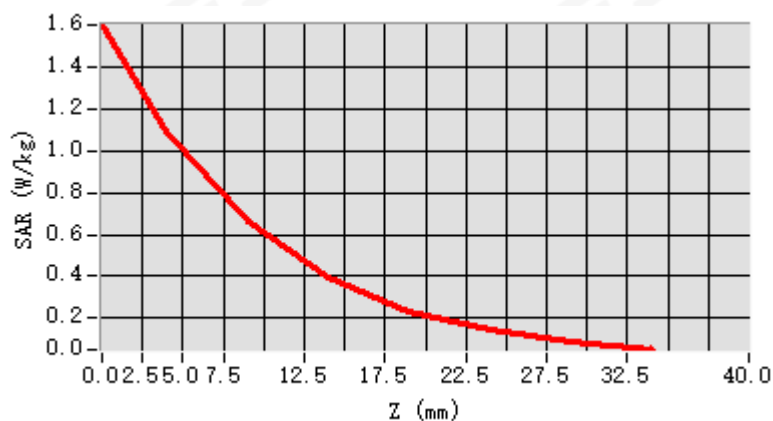


D. SAR 1g & 10g

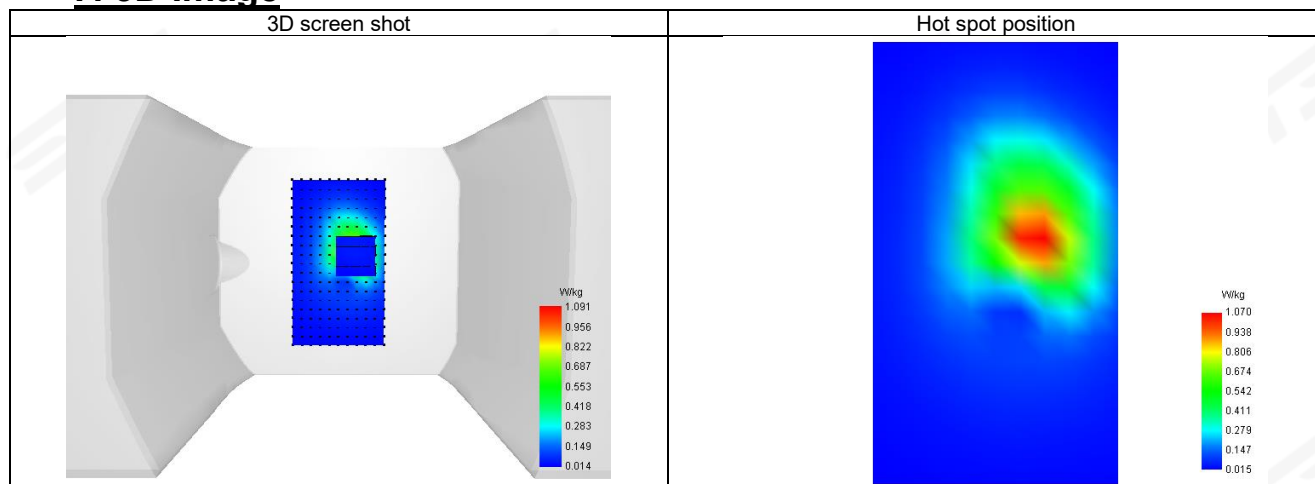
SAR 10g (W/Kg)	0.547
SAR 1g (W/Kg)	1.016
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.579315

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.600	1.091	0.661	0.393	0.236	0.141	0.085



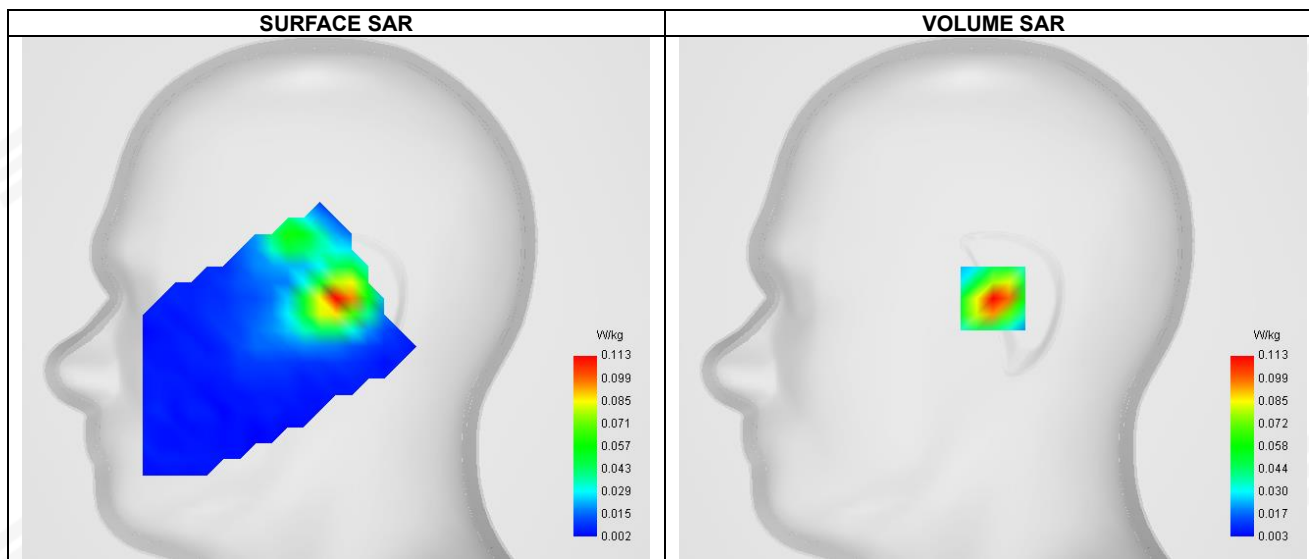
F. 3D Image





Plot 31: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-05-25
ConvF	1.80
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	2412



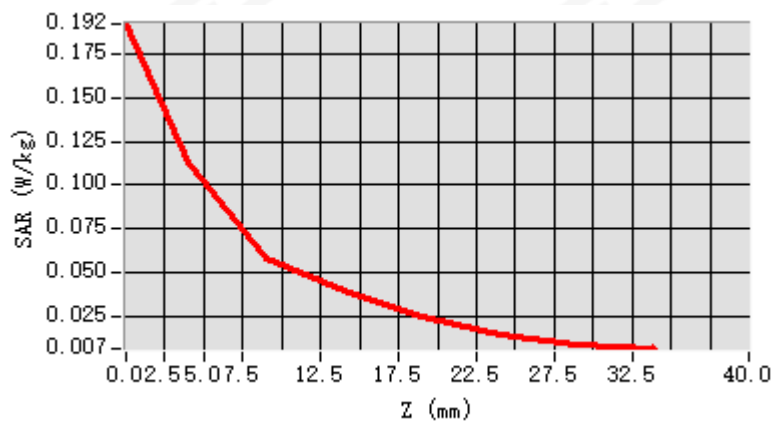
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.19 W/kg

D. SAR 1g & 10g

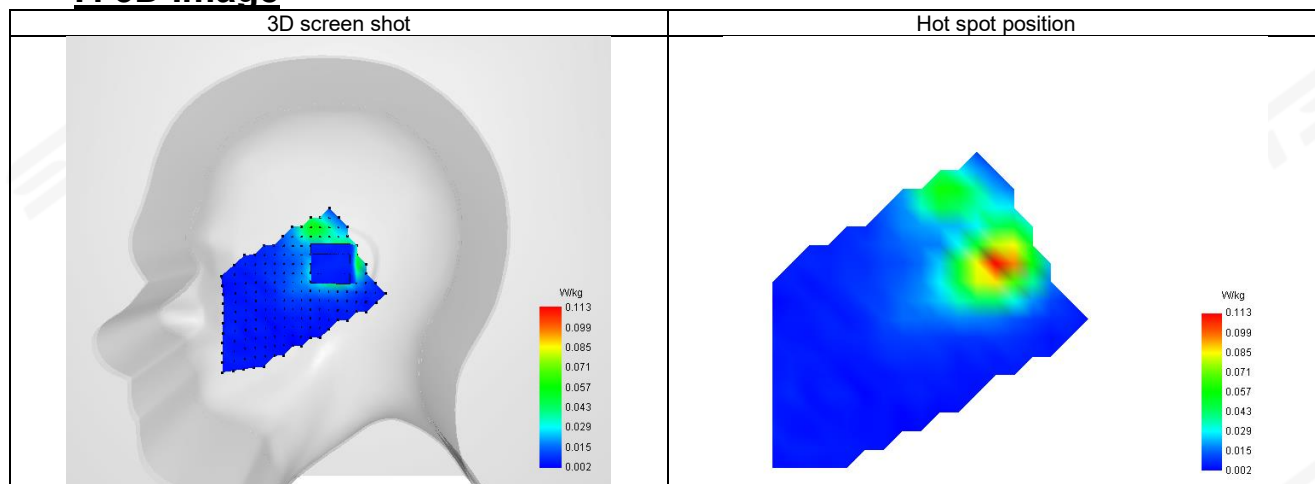
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.109
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.516413

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.192	0.113	0.058	0.040	0.025	0.015	0.009



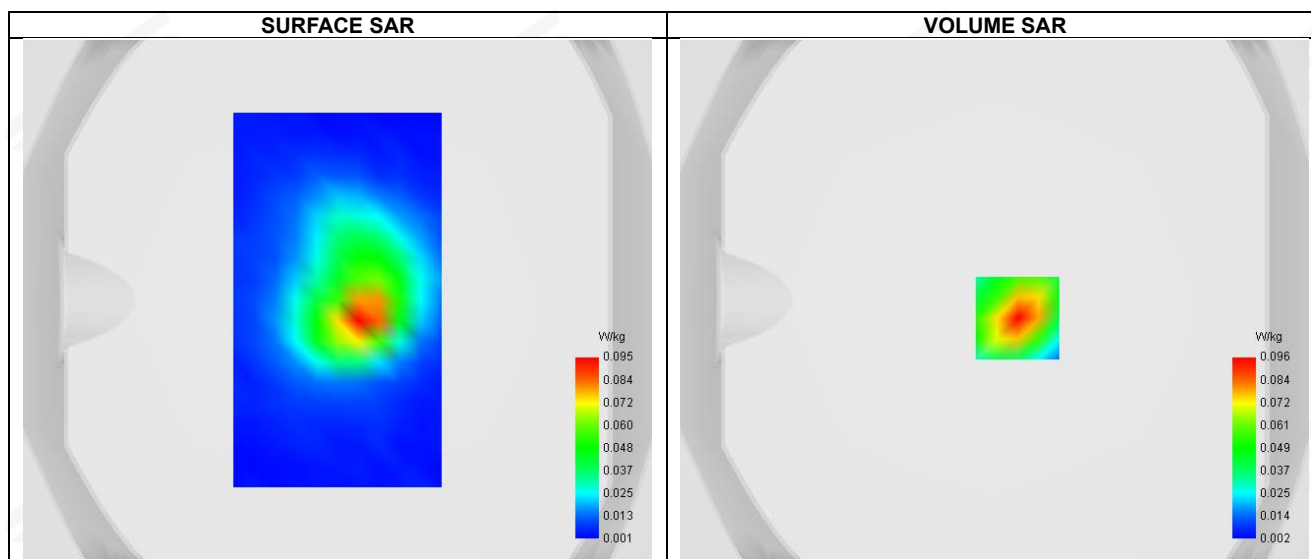
F. 3D Image





Plot 32: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-24
ConvF	1.80
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Body
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2412



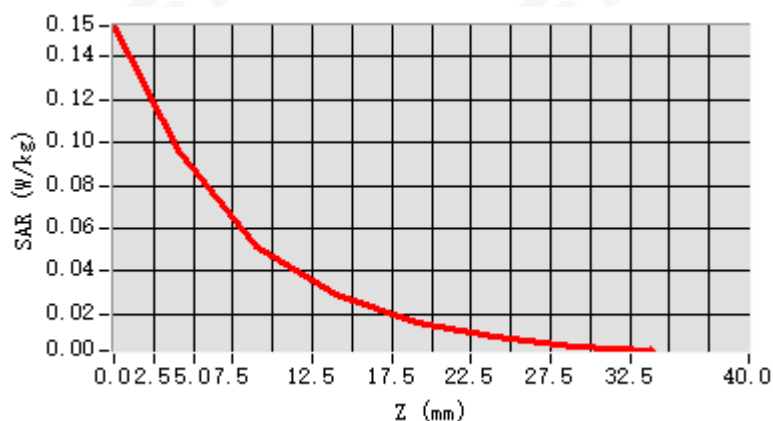
Maximum location: X=9.00, Y=-7.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

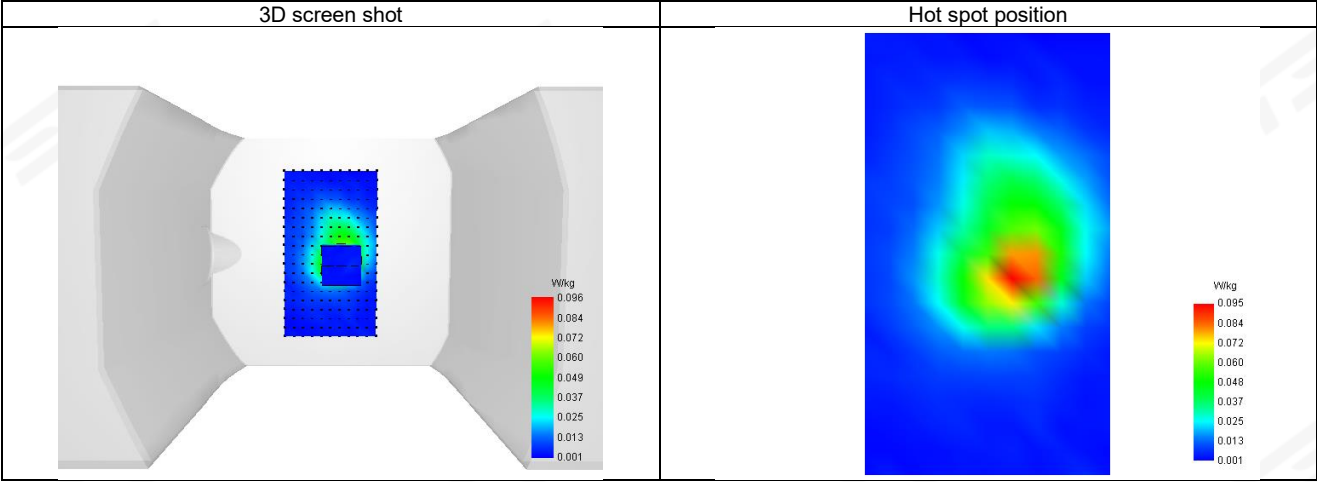
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.090
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	53.796369

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.154	0.096	0.052	0.030	0.017	0.009	0.005



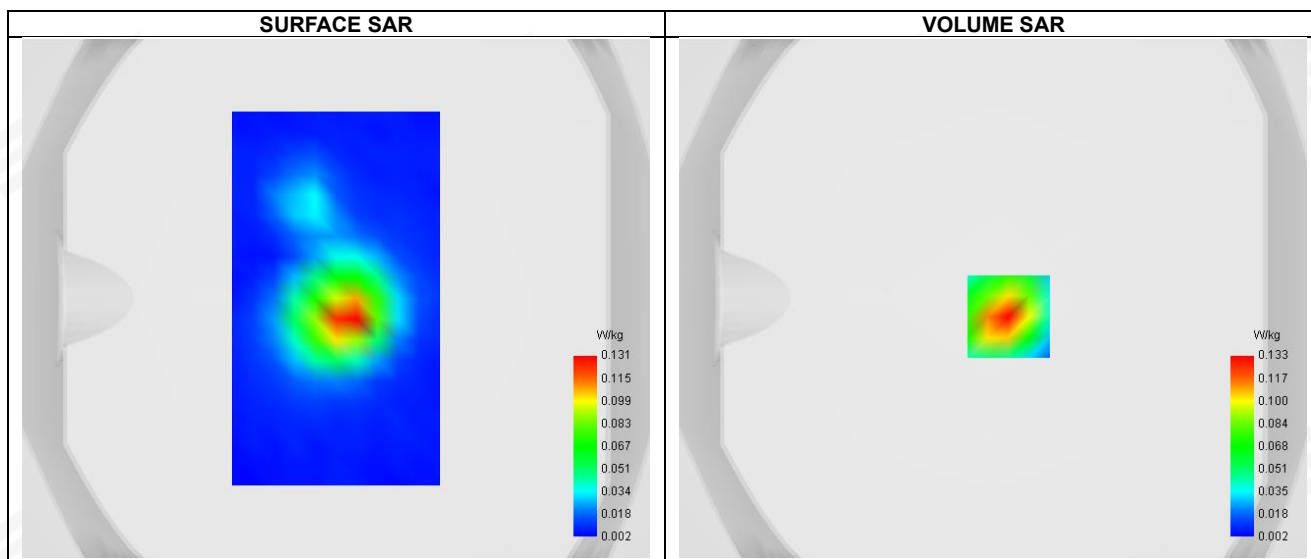
F. 3D Image





Plot 33: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-24
ConvF	1.80
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Body
Device Position	Back Side
Band	2.4GHz WLAN
Signal	IEEE802.b (Crest factor: 1.0)
Frequency	2412



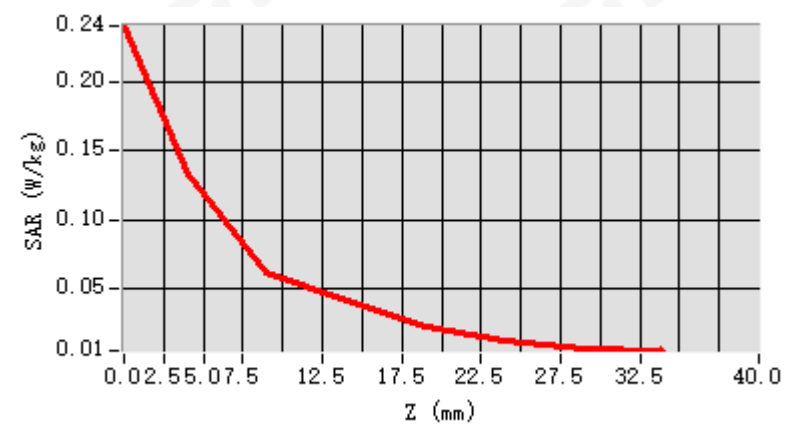
Maximum location: X=6.00, Y=-7.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

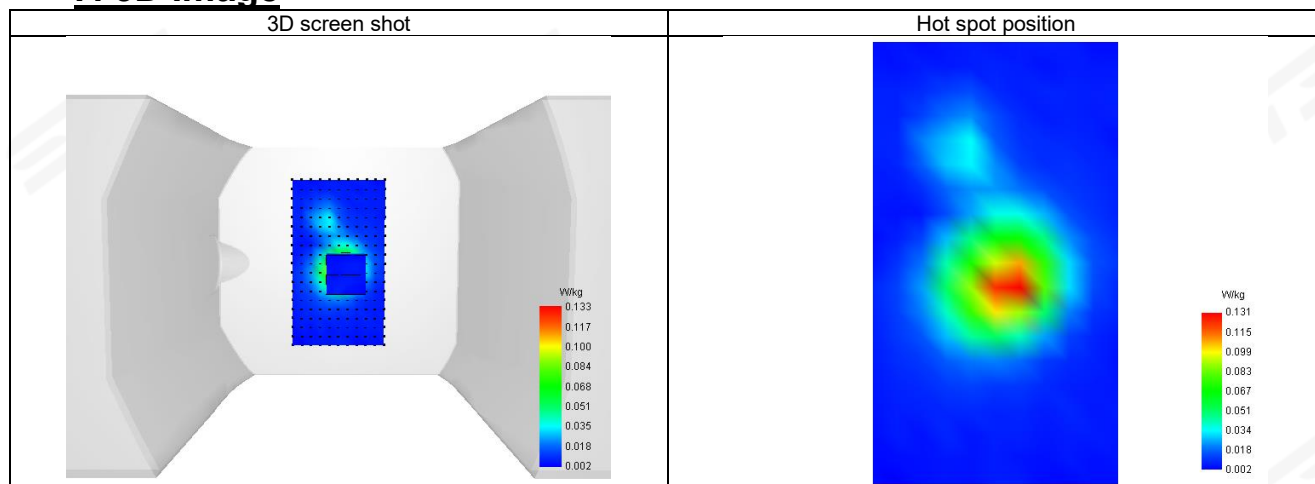
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.128
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	46.478541

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.240	0.133	0.062	0.041	0.024	0.014	0.008



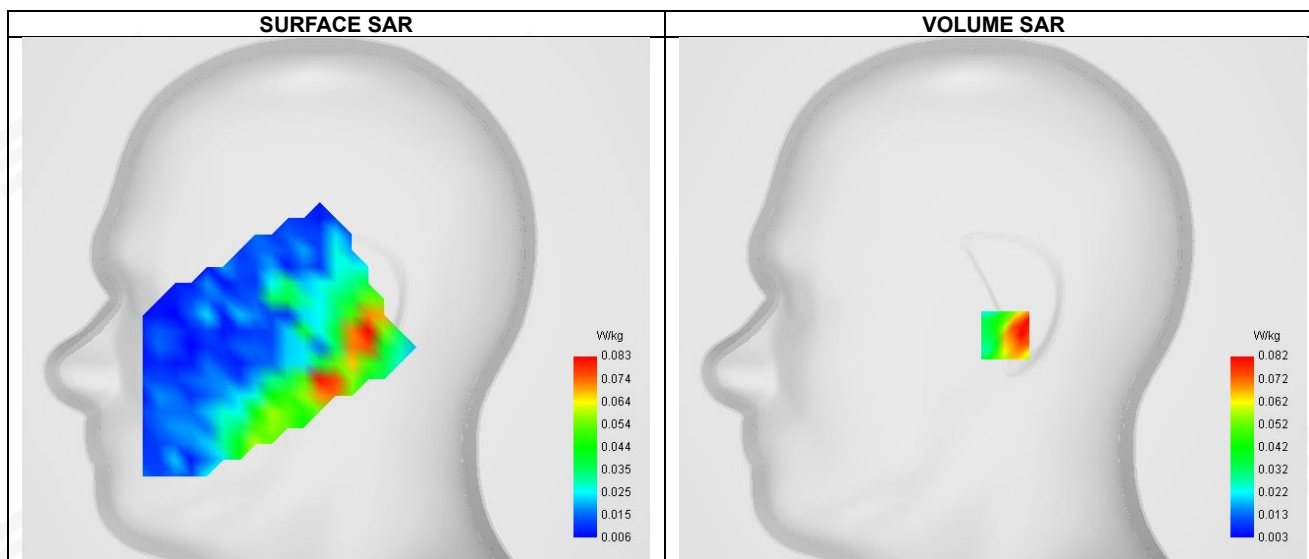
F. 3D Image





Plot 34: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.33
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



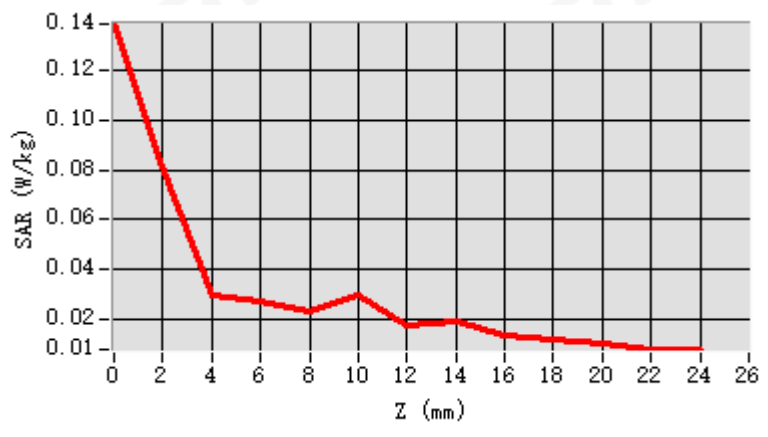
Maximum location: X=6.00, Y=-18.00 ; SAR Peak: 0.23 W/kg

D. SAR 1g & 10g

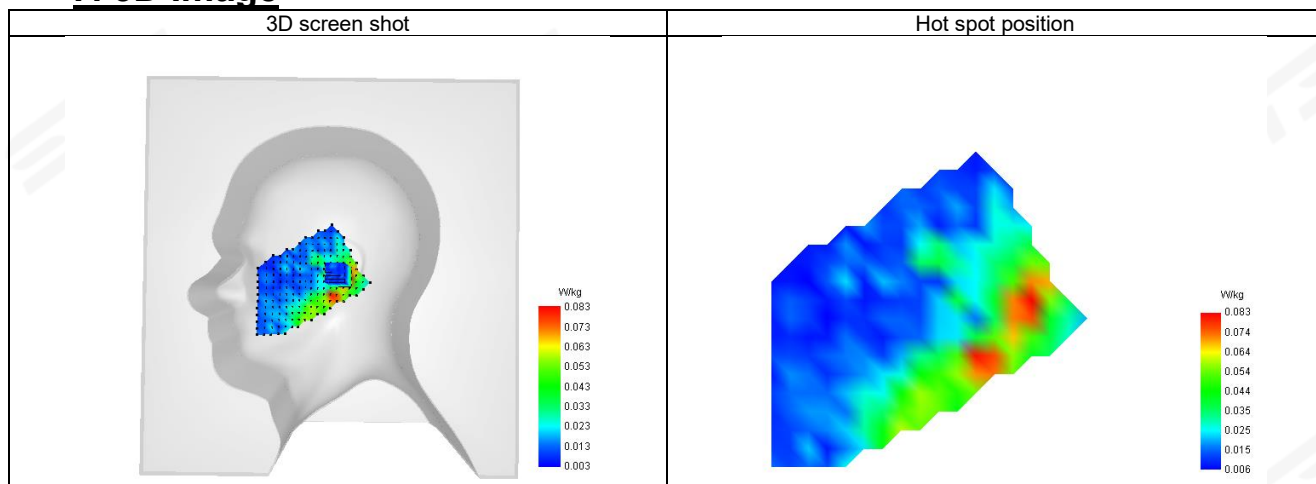
SAR 10g (W/Kg)	0.032
SAR 1g (W/Kg)	0.085
Horizontal validation criteria: minimum distance (mm)	12.649111
Vertical validation criteria: SAR ratio M2/M1 (%)	68.935743

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.138	0.082	0.030	0.027	0.023	0.030	0.018	0.019	0.014	0.013	0.011	0.008	0.008



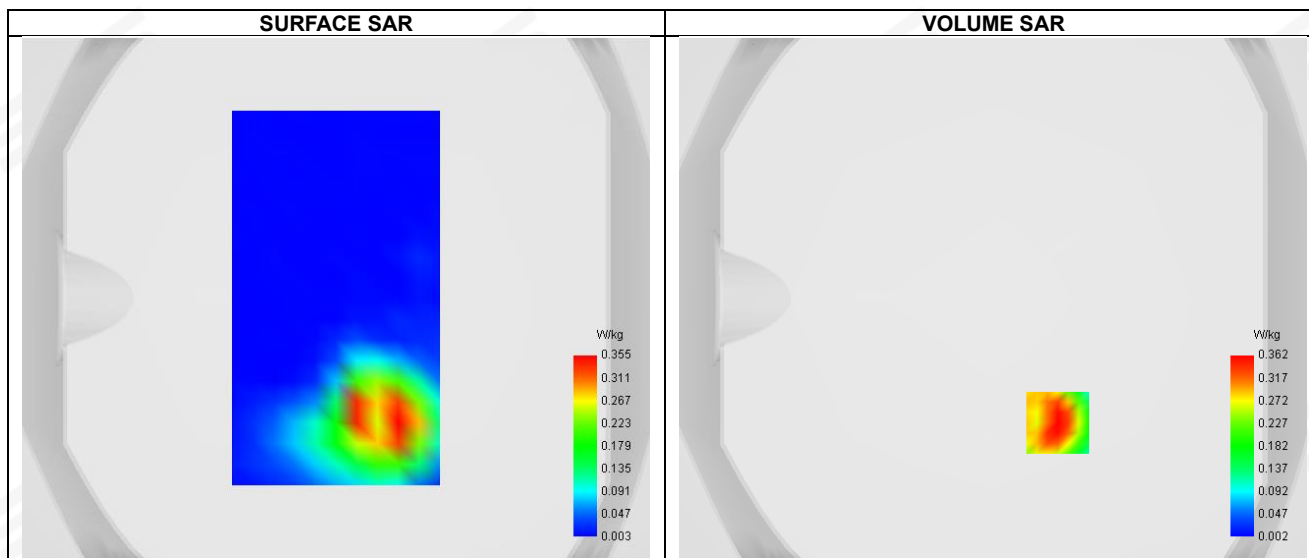
F. 3D Image





Plot 35: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.2GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency	5240



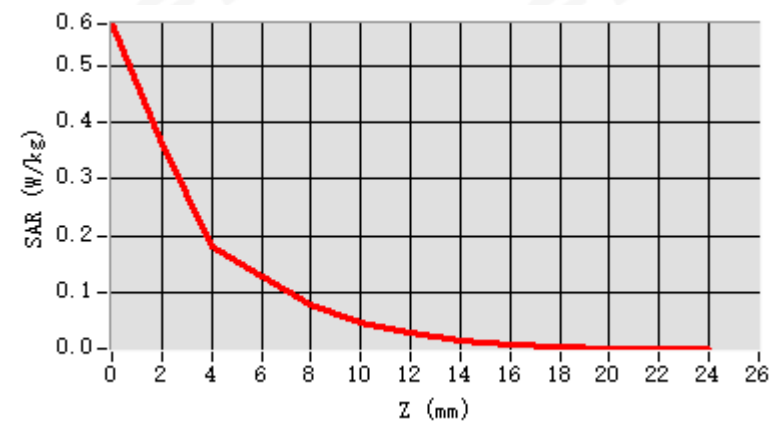
Maximum location: X=25.00, Y=-48.00 ; SAR Peak: 0.72 W/kg

D. SAR 1g & 10g

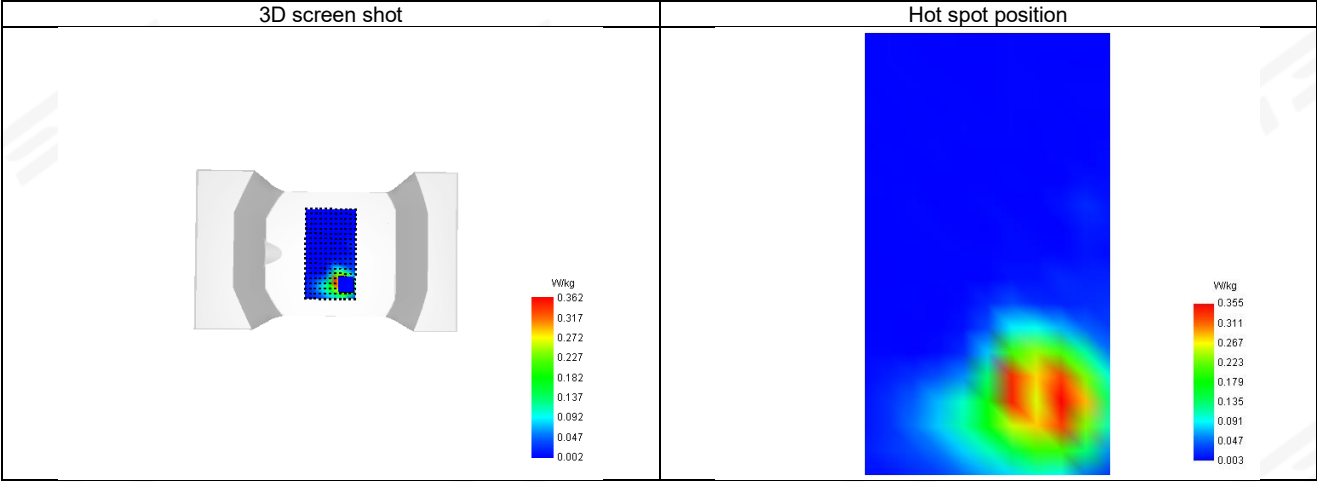
SAR 10g (W/Kg)	0.095
SAR 1g (W/Kg)	0.242
Horizontal validation criteria: minimum distance (mm)	12.649111
Vertical validation criteria: SAR ratio M2/M1 (%)	50.388875

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)	0.572	0.362	0.182	0.128	0.078	0.048	0.030	0.018	0.011	0.007	0.004	0.003



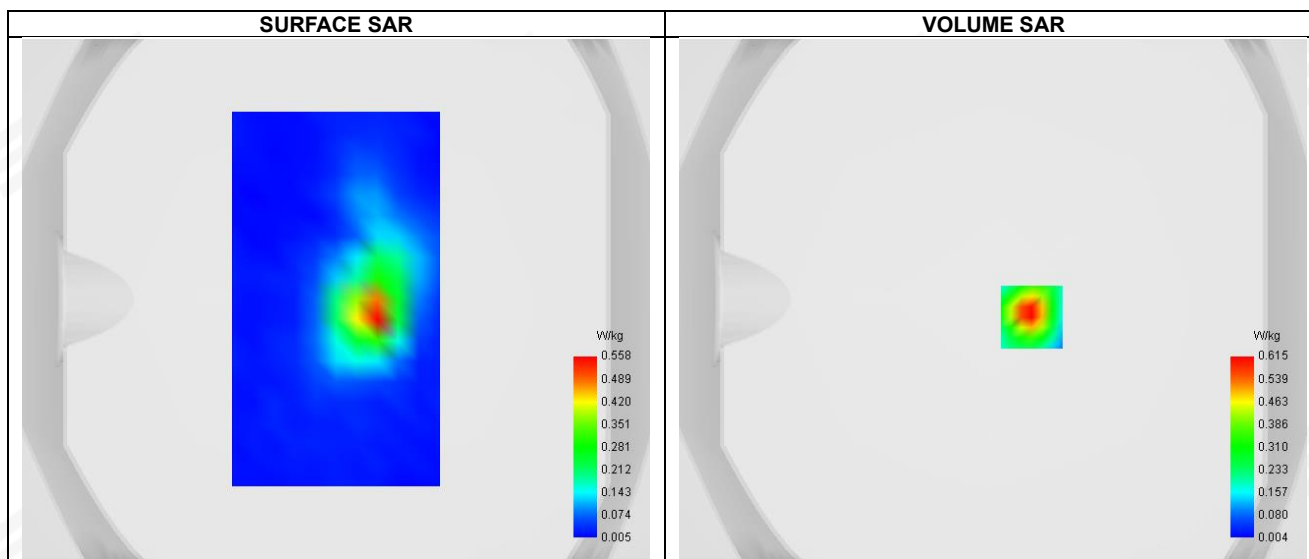
F. 3D Image





Plot 36: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.33
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.2GHz WLAN
Signal	802.11a (Crest factor: 1.0)
Frequency	5240

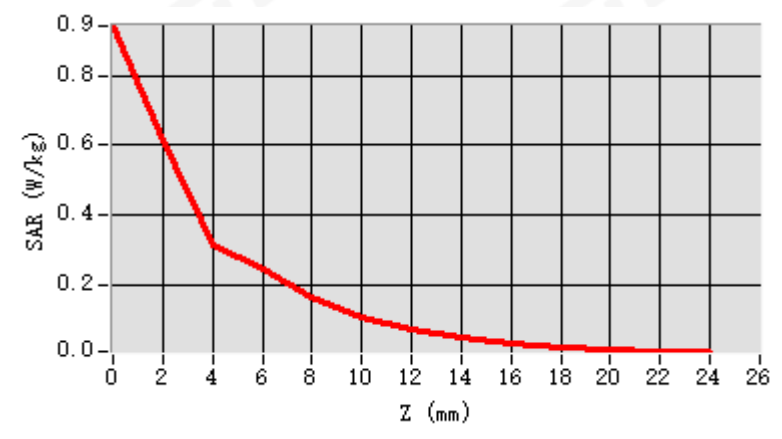


D. SAR 1g & 10g

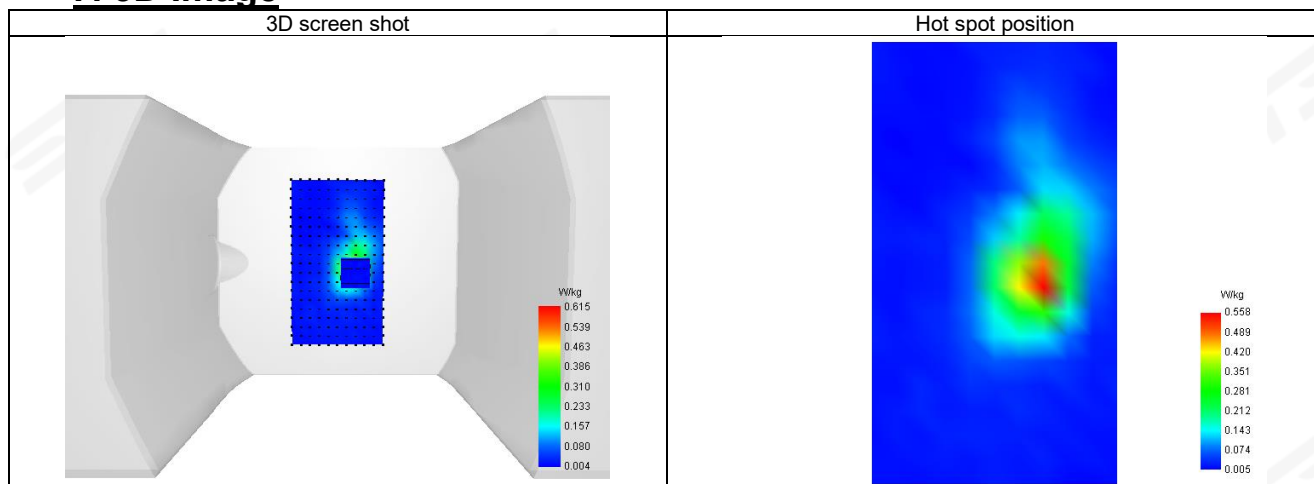
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.406
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.029223

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.942	0.615	0.314	0.247	0.163	0.107	0.071	0.047	0.031	0.020	0.013	0.009	0.009



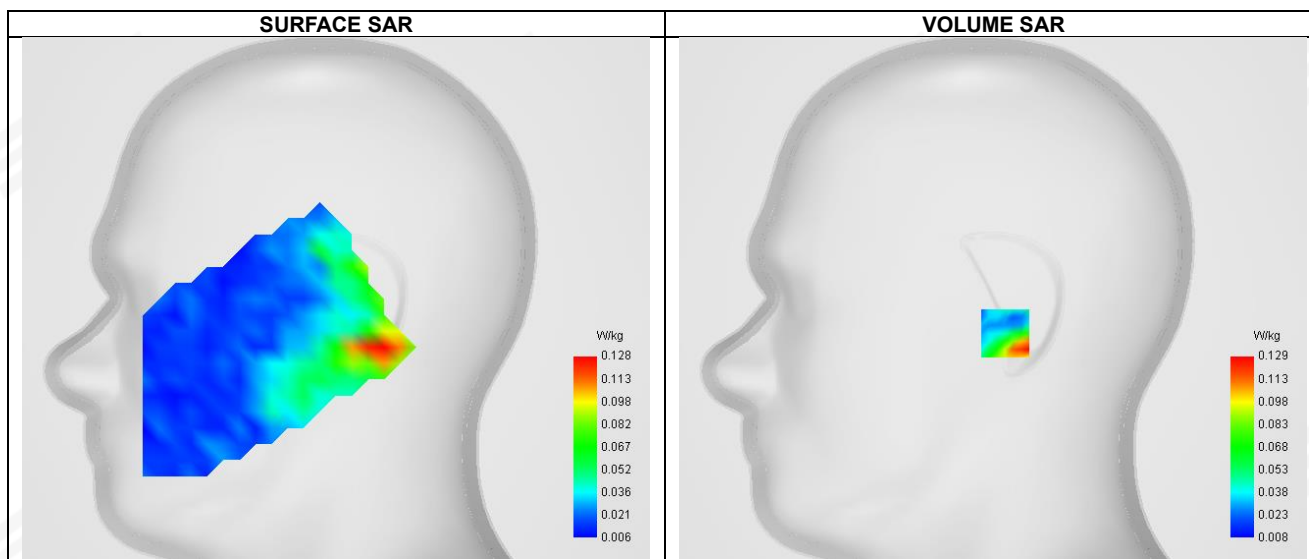
F. 3D Image





Plot 37: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.35
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	5785



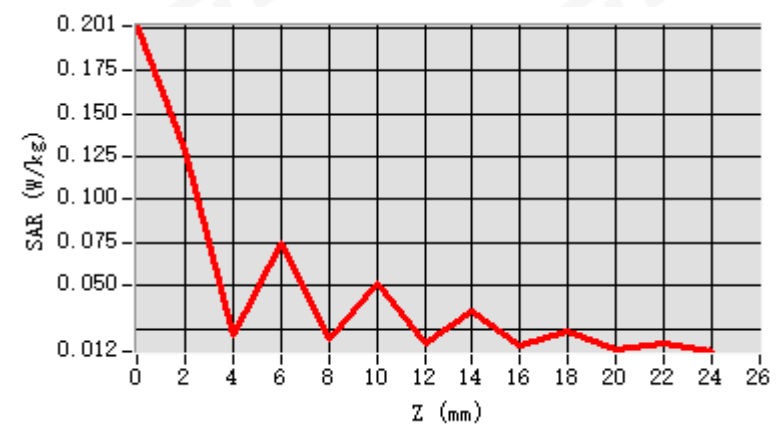
Maximum location: X=6.00, Y=-17.00 ; SAR Peak: 0.43 W/kg

D. SAR 1g & 10g

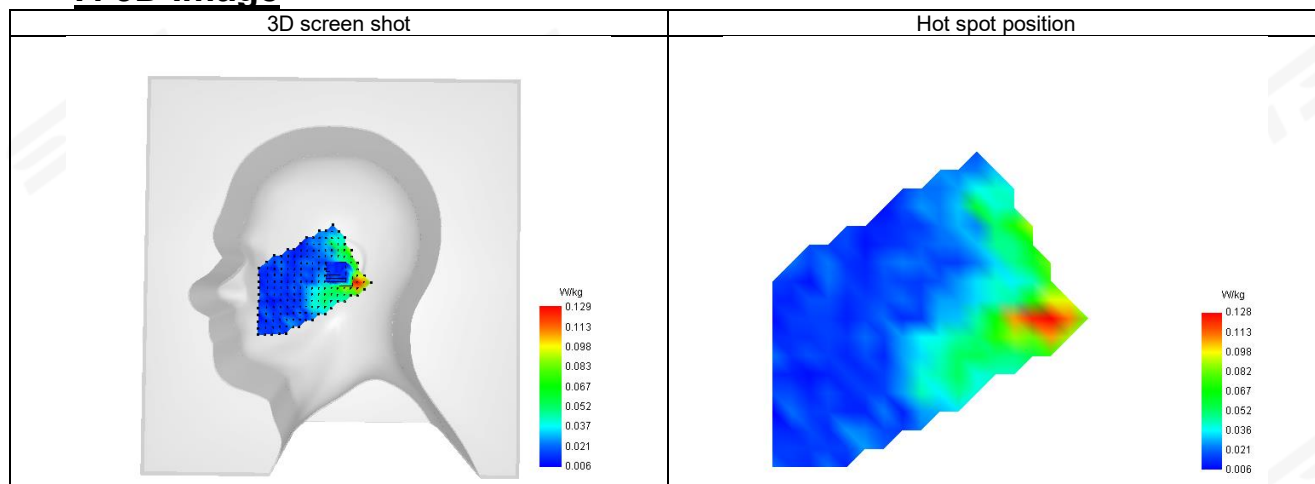
SAR 10g (W/Kg)	0.039
SAR 1g (W/Kg)	0.146
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	54.316568

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.201	0.129	0.021	0.075	0.019	0.051	0.017	0.035	0.015	0.024	0.013	0.016	0.016



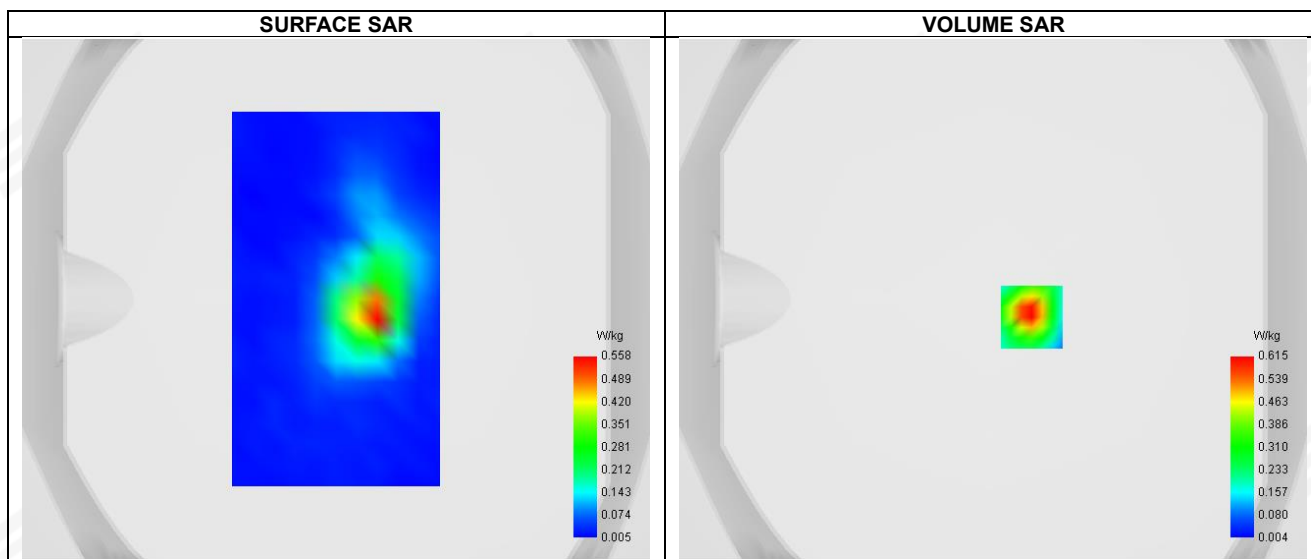
F. 3D Image





Plot 38: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.35
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5785

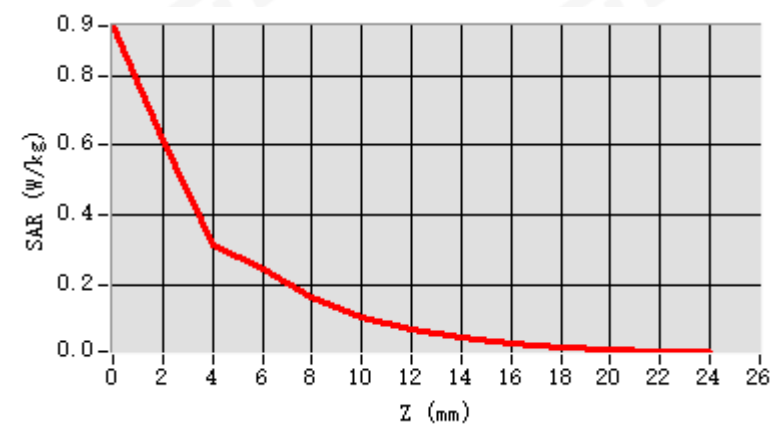


D. SAR 1g & 10g

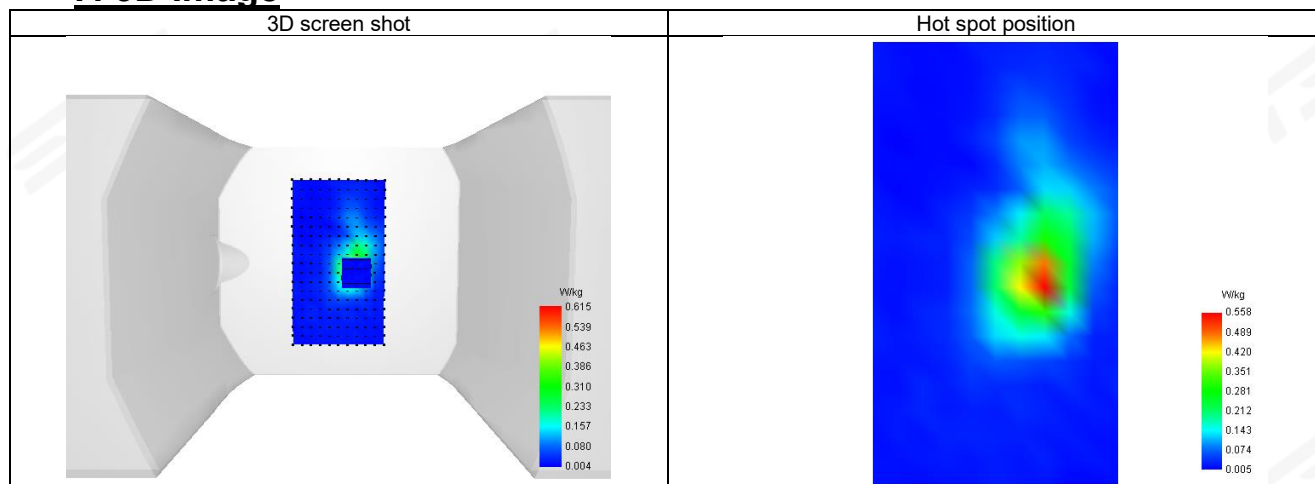
SAR 10g (W/Kg)	0.147
SAR 1g (W/Kg)	0.406
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.029223

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.942	0.615	0.314	0.247	0.163	0.107	0.071	0.047	0.031	0.020	0.013	0.009	0.009



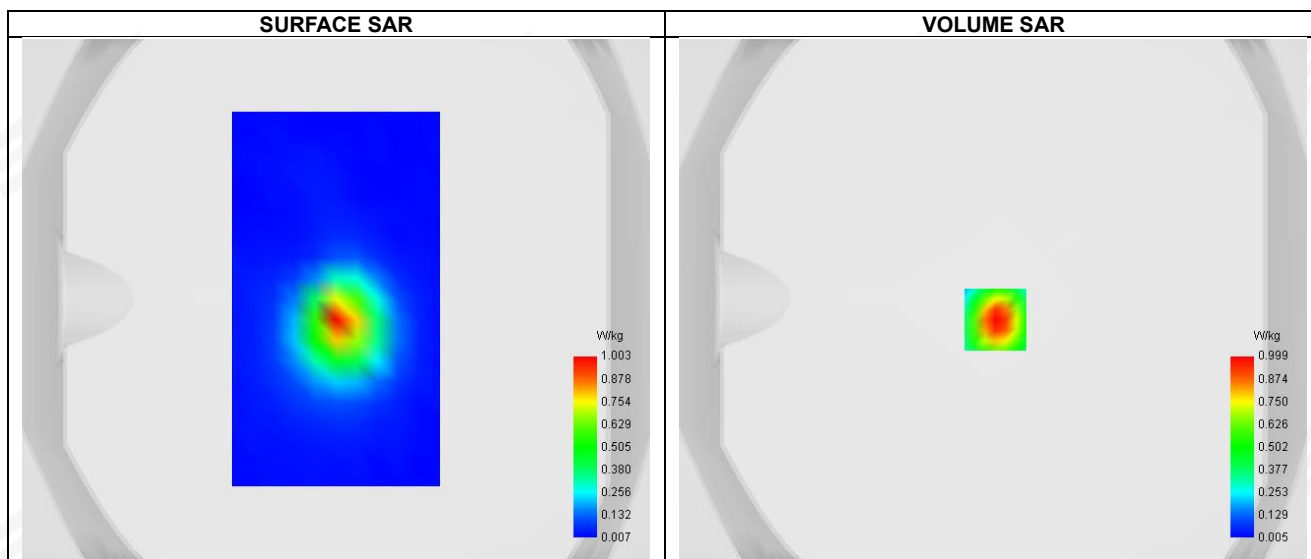
F. 3D Image





Plot 39: DUT: Mobile Phone; EUT Model: FORT 2

Test Date	2025-08-30
ConvF	1.35
Area Scan	dx=8mm dy=8mm,Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm, Complete
Phantom	Body
Device Position	Back Side
Band	5.8GHz WLAN
Signal	802.11 n-HT20 (Crest factor: 1.0)
Frequency	5785



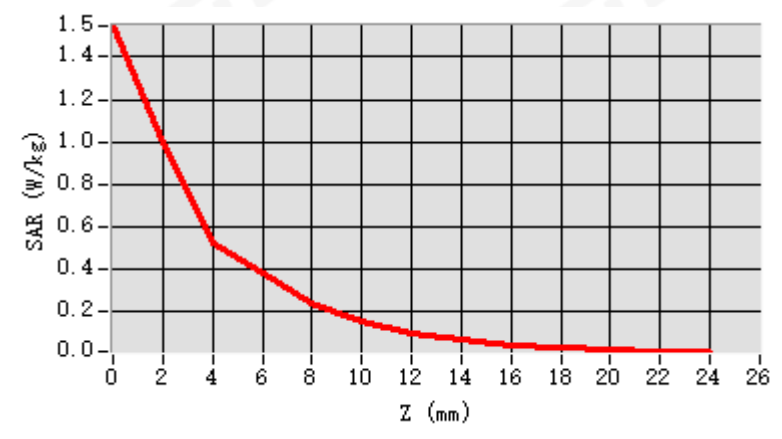
Maximum location: X=1.00, Y=-8.00 ; SAR Peak: 1.89 W/kg

D. SAR 1g & 10g

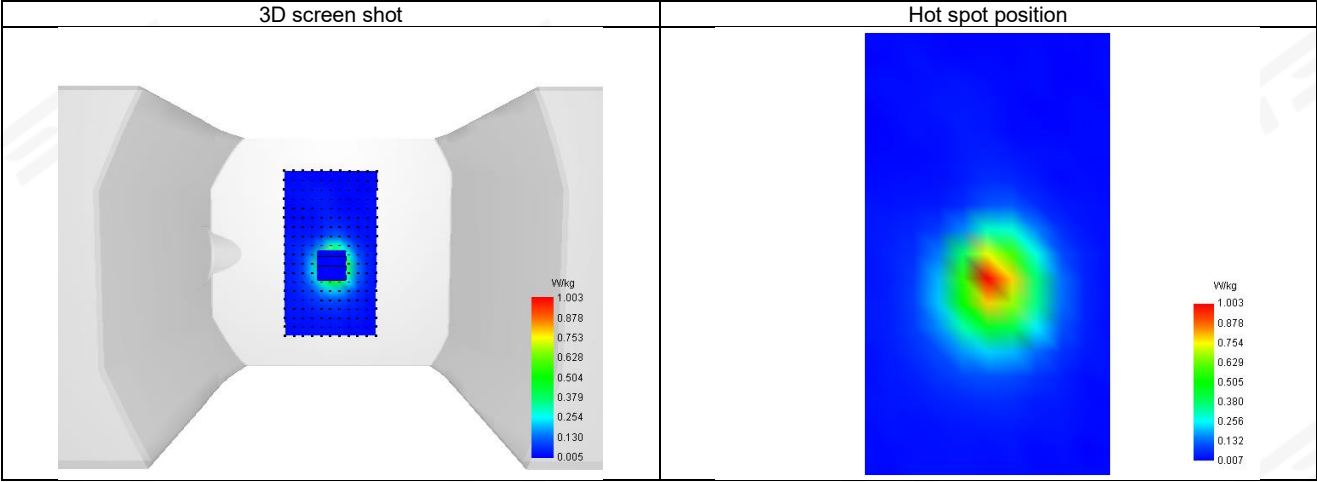
SAR 10g (W/Kg)	0.256
SAR 1g (W/Kg)	0.665
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	51.934219

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)	1.546	0.999	0.519	0.380	0.242	0.155	0.099	0.063	0.040	0.026	0.016	0.010	0.010



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※