



SAR Test Report

Report No.: STS2512459H01

Issued for

SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN,
China

Product Name: Smart Phone

Brand Name: OUKITEL

Model Name: C8

Series Model(s): C8 S, C8 Pro, C8 Ultra, C8 E, C8 Plus,
C8 MAX

FCC ID: 2ANMU-C8

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

Max. Report Head: 0.991 W/kg
SAR (1g) Body: 0.532W/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: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address.....: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, China
Manufacturer's Name: SHENZHEN YUNJI INTELLIGENT TECHNOLOGY CO.,LTD
Address.....: A2 2F BUILDING ENET NEW INDUSTRIAL PARK, DAFU
INDUSTRIAL ZONE, GUANLAN, LONGHUA SHENZHEN, China

Product description

Product name: Smart Phone
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Model name: C8
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ANSI/IEEE Std. C95.1
Standards: FCC 47 CFR Part 2 (2.1093)
IEEE Std. 1528-2013

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

Date of Test.....:
Date (s) of performance of tests.....: 24 Jan. 2026 ~ 30 Jan. 2026
Date of Issue.....: 30 Jan. 2026
Test Result.....: **Pass**

Testing Engineer :

(Xin.Liu)

Technical Manager :

(Shifan. Long)

Authorized Signatory :

(Bovey Yang)





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Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	30 Jan. 2026	STS2512459H01	ALL	Initial Issue



1. General Information

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

1.1 EUT Description

Product Name	Smart Phone			
Brand Name	OUKITEL			
Model Name	C8			
Series Model	C8 S, C8 Pro, C8 Ultra, C8 E, C8 Plus, C8 MAX			
Model Difference	N/A			
Sample number	251219032-1			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	N/A			
Software Version	N/A			
Frequency Range	GSM 850: 824 MHz ~ 849 MHz PCS1900: 1850 MHz ~ 1910 MHz WCDMA Band 2: 1850 MHz ~ 1910 MHz WCDMA Band 4: 1710 MHz ~ 1755 MHz WCDMA Band 5: 824 MHz ~ 849 MHz LTE Band 2: 1850 MHz ~ 1910 MHz LTE Band 4: 1710 MHz ~ 1755 MHz LTE Band 5: 824 MHz ~ 849 MHz LTE Band 7: 2500 MHz ~ 2570 MHz LTE Band 12: 699 MHz ~ 716 MHz LTE Band 17 (704-716 MHz) is covered by LTE Band 12 (699-716 MHz) LTE Band 17: 704 MHz ~ 716 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 4 (1710-1755 MHz) is covered by LTE Band 66 (1710-1780 MHz) WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz Bluetooth: 2402 MHz to 2480 MHz			
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	Band	Mode	Head (W/kg)	Body Worn and Hotspot(W/kg)
	PCE	GSM 850	0.368	0.454
	PCE	GSM 1900	0.455	0.243
	PCE	WCDMA Band 2	0.870	0.199
	PCE	WCDMA Band 4	0.407	0.077
	PCE	WCDMA Band 5	0.048	0.037
	PCE	LTE Band 2	0.362	0.219
	PCE	LTE Band 5	0.347	0.379
	PCE	LTE Band 7	0.292	0.167
	PCE	LTE Band 12/17	0.176	0.274
	PCE	LTE Band 66/4	0.581	0.229
	DTS	2.4G WLAN	0.121	0.078
	DSS	BT ^{NOTE}	0.093	0.047
1-g Sum SAR			0.963	0.532
FCC Equipment Class	Licensed Portable Transmitter Held to Ear (PCE) Part 15 Spread Spectrum Transmitter (DSS) Digital Transmission System (DTS)			



	Unlicensed National Information Infrastructure TX(NII)
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 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 Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK
Antenna Specification:	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot transmitting at the same time
Hotspot Mode	Support
DTM Mode	Not Support
Note: 1. The dual SIM card mobile has 2 SIM slots and supports dual SIM dual standby. The WWAN radio transmission will be enabled by either one SIM at a time (Single active) 2. After pre-scan two SIM cards power, we found test result of the SIM1 was the worse, so we chose SIM1 card to perform all tests. 3. The EUT battery must be fully charged and checked periodically during the test to ascertain uniform power	

1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

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

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D01 v06	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
10	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
11	FCC KDB 248227 D01 Wi-Fi SAR v02r02	SAR Considerations for 802.11 Devices

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

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

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

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

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

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE

GENERAL POPULATION/UNCONTROLLED EXPOSURE

PARTIAL BODY LIMIT

1.6 W/kg

3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

$$SAR = \frac{d}{dt} \left(\frac{dW}{dm} \right) = \frac{d}{dt} \left(\frac{dW}{\rho dv} \right)$$

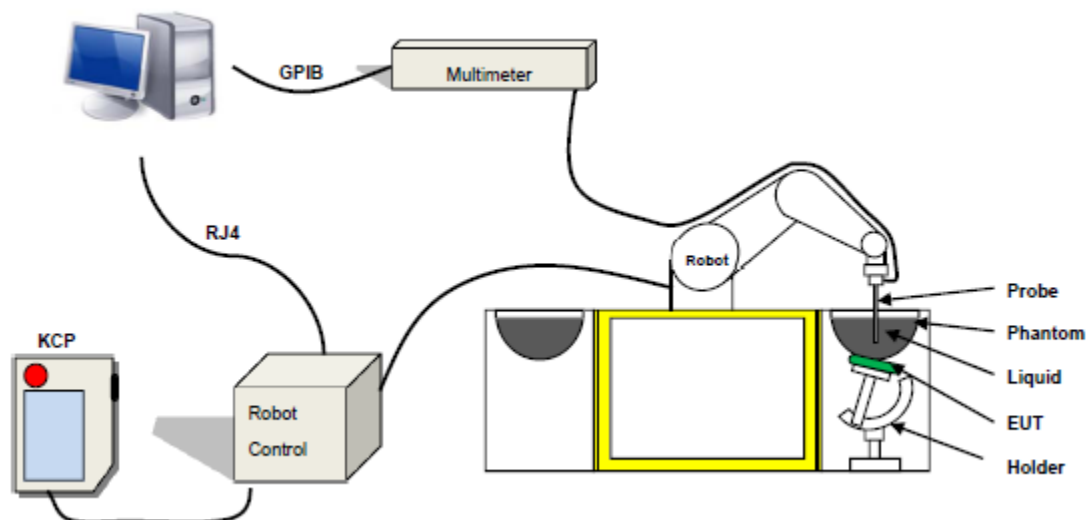
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
 ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

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

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



Figure 1-MVG COMOSAR Dosimetric E field Dipole

3.2.2 Phantom

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

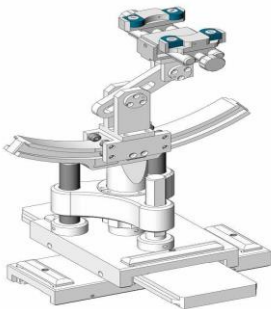
SN 32/14 SAM115



Figure-SN 21/21 ELLI48



3.2.3 Device Holder



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

4. Tissue Simulating Liquids



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

IEEE SCC-34/SC-2 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 have been incorporated in the following table.

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



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

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

**LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2026-01-28	23.1	45	704	22.8	Permittivity	42.15	42.42	0.64	±5
					Conductivity	0.89	0.87	-2.25	±5
2026-01-28	23.1	45	711	22.8	Permittivity	42.11	42.58	1.12	±5
					Conductivity	0.89	0.89	0.00	±5
2026-01-28	23.2	45	750	22.9	Permittivity	41.90	42.50	1.43	±5
					Conductivity	0.89	0.90	1.12	±5
2026-01-28	23.2	45	814.2	22.9	Permittivity	41.60	41.03	-1.37	±5
					Conductivity	0.90	0.88	-2.22	±5
2026-01-28	23.3	45	826.4	23.1	Permittivity	41.54	42.31	1.85	±5
					Conductivity	0.90	0.90	0.00	±5
2026-01-28	23.3	46	829	23.0	Permittivity	41.53	41.57	0.10	±5
					Conductivity	0.90	0.90	0.00	±5
2026-01-28	23.4	46	835	23.0	Permittivity	41.50	42.75	3.01	±5
					Conductivity	0.90	0.88	-2.22	±5
2026-01-28	23.2	46	826.5	22.9	Permittivity	41.54	41.78	0.58	±5
					Conductivity	0.90	0.90	0.00	±5
2026-01-28	23.2	46	836.6	22.9	Permittivity	41.49	42.19	1.69	±5
					Conductivity	0.90	0.89	-1.11	±5
2026-01-28	23.2	46	848.8	22.9	Permittivity	41.44	41.54	0.24	±5
					Conductivity	0.90	0.90	0.00	±5
2026-01-29	24.0	52	1752.4	23.7	Permittivity	40.07	39.51	-1.40	±5
					Conductivity	1.37	1.36	-0.73	±5
2026-01-29	24.1	52	1755	23.9	Permittivity	40.06	41.03	2.42	±5
					Conductivity	1.37	1.37	0.00	±5
2026-01-29	24.1	52	1800	23.8	Permittivity	40.00	40.76	1.90	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-01-30	23.4	57	1852.4	23.1	Permittivity	40.00	39.53	-1.18	±5
					Conductivity	1.40	1.40	0.00	±5
2026-01-30	23.4	57	1880	23.2	Permittivity	40.00	39.96	-0.10	±5
					Conductivity	1.40	1.39	-0.71	±5
2026-01-30	23.4	57	1900	23.1	Permittivity	40.00	40.06	0.15	±5
					Conductivity	1.40	1.41	0.71	±5
2026-01-30	23.4	57	1907.6	23.1	Permittivity	40.00	39.81	-0.47	±5
					Conductivity	1.40	1.41	0.71	±5



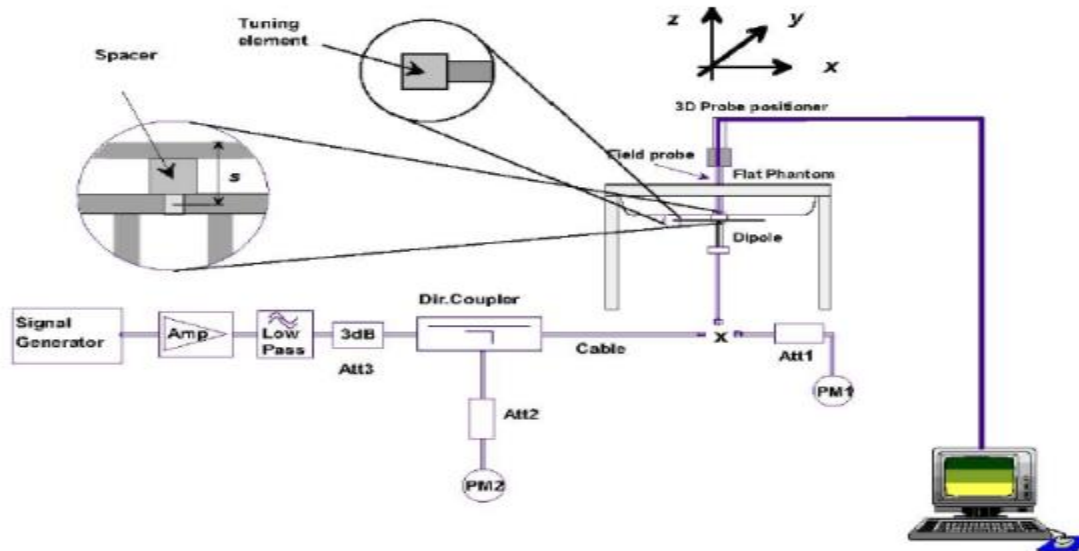
2026-01-24	22.7	43	2412	22.3	Permittivity	39.27	39.48	0.53	±5
					Conductivity	1.77	1.78	0.56	±5
2026-01-24	22.7	43	2450	22.3	Permittivity	39.20	39.07	-0.33	±5
					Conductivity	1.80	1.80	0.00	±5
2026-01-24	22.7	43	2510	22.3	Permittivity	39.12	39.29	0.43	±5
					Conductivity	1.86	1.85	-0.54	±5
2026-01-24	22.7	43	2600	22.3	Permittivity	39.00	38.98	-0.05	±5
					Conductivity	1.96	1.99	1.53	±5

5. SAR System Validation

5.1 Validation System

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

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



5.2 Validation Result

Date	Frequency (MHz)	Power	SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	Drift (%)	1W Target		Difference percentage		Limited %
						SAR _{1g} (W/Kg)	SAR _{10g} (W/Kg)	1g	10g	
2026-01-28	750	100 mW	0.910	0.555	2.27	8.49	5.53	7.18%	0.36%	10
		Normalize to 1 Watt	9.10	5.55						
2026-01-28	835	100 mW	0.999	0.646	3.91	9.63	6.15	3.74%	5.04%	10
		Normalize to 1 Watt	9.99	6.46						
2026-01-29	1800	100 mW	3.726	2.055	-3.84	37.95	20.49	-1.82%	0.29%	10
		Normalize to 1 Watt	37.26	20.55						
2026-01-30	1900	100 mW	3.940	1.983	-2.81	39.84	20.20	-1.10%	-1.83%	10
		Normalize to 1 Watt	39.40	19.83						
2026-01-24	2450	100 mW	5.392	2.398	0.07	54.70	24.11	-1.43%	-0.54%	10
		Normalize to 1 Watt	53.92	23.98						
2026-01-24	2600	100 mW	5.572	2.386	-3.55	56.19	24.08	-0.84%	-0.91%	10
		Normalize to 1 Watt	55.72	23.86						

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

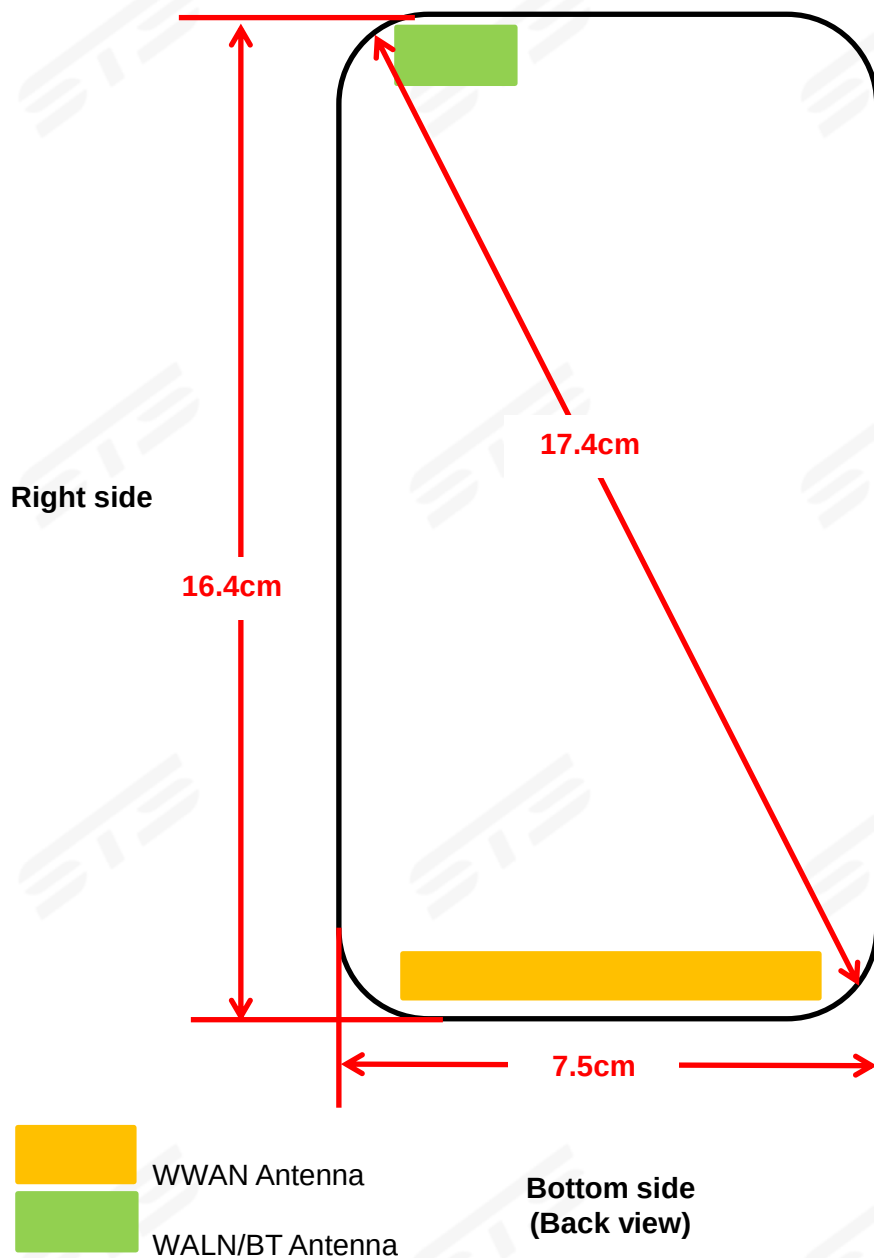
- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible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

➤ Area Scan& Zoom Scan

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

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WWAN	≤0.5	≤0.5	≤0.5	≤0.5	15.3	≤0.5
WLAN	≤0.5	≤0.5	5.8	≤0.5	≤0.5	15

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



7.1 SAR test exclusion consider table

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

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	LTE Band 2	LTE Band 4
	Calculated Frequency(GHz)	0.8488	1.88	1.88	1.7524	0.8264	1.9	1.745
	Maximum Turn-up power (dBm)	34	30.5	23	22.5	23	24.5	24
	Maximum rated power(mW)	2511.89	1122.02	199.53	177.83	199.53	281.84	251.19
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	3.27	6.55	3.36	3.60
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	3.27	6.55	3.36	3.60
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	3.27	6.55	3.36	3.60
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Right Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	3.27	6.55	3.36	3.60
	Testing required?	YES	YES	YES	YES	YES	YES	YES
Top Side	Separation distance (cm)	15.3	15.3	15.3	15.3	15.3	15.3	15.3
	exclusion threshold(mW)	1182.20	1866.89	1866.89	2150.69	1958.31	1865.74	1874.99
	Testing required?	YES	NO	NO	NO	NO	NO	NO
Bottom Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.04	3.39	3.39	3.27	6.55	3.36	3.60
	Testing required?	YES	YES	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 17	LTE Band 66	BT	2.4G WLAN
	Calculated Frequency(GHz)	0.8365	2.51	0.704	0.711	1.755	2.441	2.412
	Maximum Turn-up power (dBm)	24.5	24.5	24	24	24	3.5	13
	Maximum rated power(mW)	281.84	281.84	251.19	251.19	251.19	2.24	19.95
	Maximum rated power(mW)	281.84	281.84	251.19	251.19	251.19	2.24	19.95
Back Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	2.69	11.75	11.59	3.58	2.75	2.78
	Testing required?	YES	YES	YES	YES	YES	NO	YES
Front Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	2.69	11.75	11.59	3.58	2.75	2.78
	Testing required?	YES	YES	YES	YES	YES	NO	YES
Left Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	5.8	5.8
	exclusion threshold(mW)	9.22	2.69	11.75	11.59	3.58	290.77	291.71
	Testing required?	YES	YES	YES	YES	YES	NO	NO
Right Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	exclusion threshold(mW)	9.22	2.69	11.75	11.59	3.58	2.75	2.78
	Testing required?	YES	YES	YES	YES	YES	NO	YES
Top Side	Separation distance (cm)	15.3	15.3	15.3	15.3	15.3	0.5	0.5
	exclusion threshold(mW)	1168.04	1835.76	1013.05	1021.36	1874.37	2.75	2.78
	Testing required?	NO	NO	NO	NO	NO	NO	YES
Bottom Side	Separation distance (cm)	0.5	0.5	0.5	0.5	0.5	16	15
	exclusion threshold(mW)	9.22	2.69	11.75	11.59	3.58	2001.99	1772.12
	Testing required?	YES	YES	YES	YES	YES	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. Per KDB 447498 D01 v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01 v06, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P_{th} (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P_{th} is given by:



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

Where

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

and

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

d = the separation distance (cm);

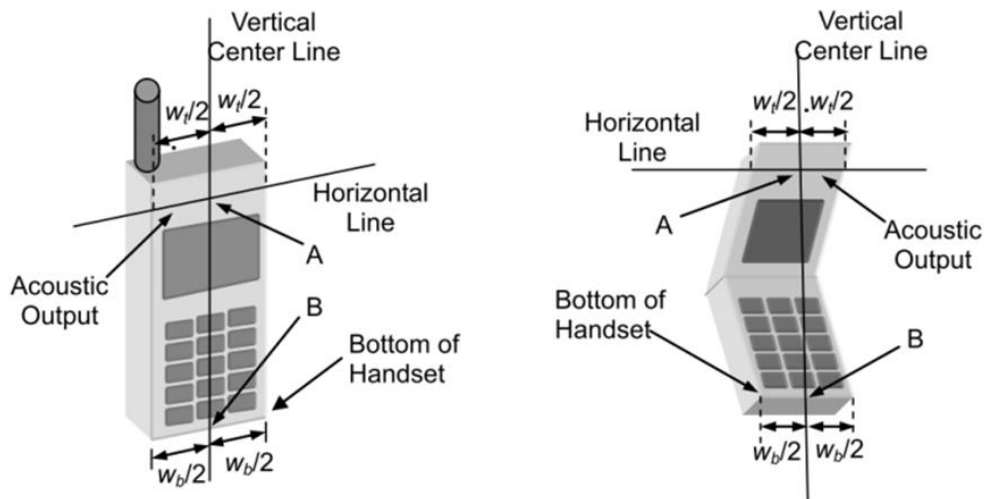
4. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8. for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.

8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

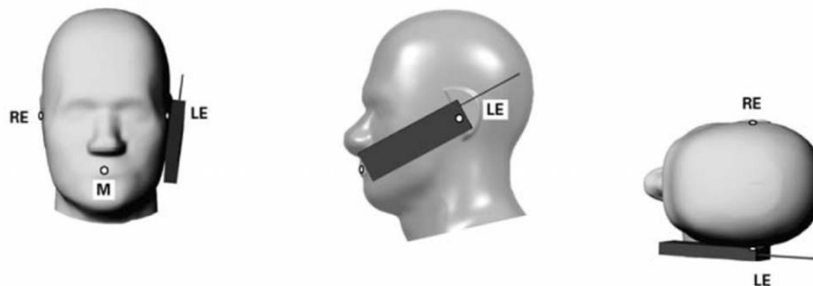
8.1 Define Two Imaginary Lines on the Handset

- (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.



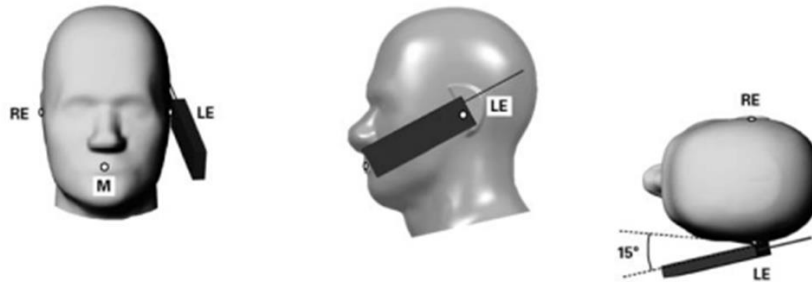
Cheek Position

- 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.



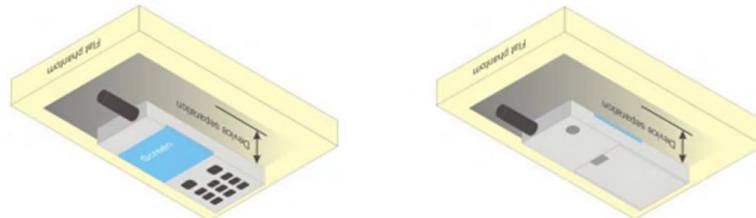
Title Position

- (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.



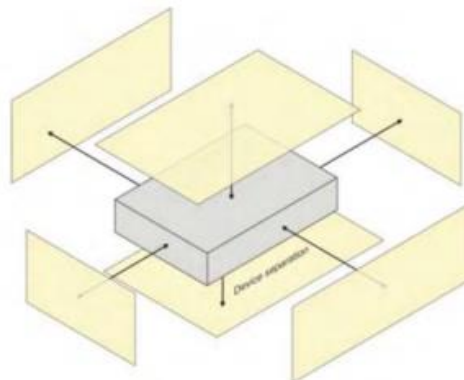
Body-worn Position Conditions:

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is $> 1.2 \text{ W/kg}$, the highest *reported* SAR configuration for that wireless mode and frequency band should be repeated for the body-worn accessory with a headset attached to the handset.



8.2 Hotspot mode exposure position condition

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing function, the relevant hand and body exposure condition are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surface and edges with a transmitting antenna located within 25 mm from that surface or edge. When form factor of a handset is smaller than $9\text{cm} \times 5\text{cm}$, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).





9. Uncertainty

9.1 Measurement Uncertainty

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

SATIMO Uncertainty- SN 08/21 EPG0352									
Measurement uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+- %)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.71	0.71	0.07	0.07	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.71	0.71	0.42	0.42	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	1.00	1.00	1.97	1.97	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	1.00	1.00	0.10	0.10	∞
Integration Time	E.2.8	1.43	R	1.73	1.00	1.00	0.83	0.83	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
Test sample Related									
Test sample positioning	E.4.2	3.10	N	1.00	1.00	1.00	3.10	3.10	∞
Device holder uncertainty	E.4.1	3.80	N	1.00	1.00	1.00	3.80	3.80	∞
Output power variation—SAR drift measurement	E.2.9	4.50	R	1.73	1.00	1.00	2.60	2.60	∞
SAR scaling	E.6.5	1.80	R	1.73	1.00	1.00	1.04	1.04	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	M
Liquid permittivity measurement	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	∞
Combined Standard Uncertainty			RSS				10.08	9.59	
Expanded Uncertainty (95% Confidence interval)			K=2				19.58	19.18	



SATIMO Uncertainty- SN 08/21 EPGO352									
System Validation uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+- %)	10g Ui (+-%)	vi
Measurement System									
Probe calibration	E.2.1	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	1.00	1.00	0.10	0.10	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.80	R	1.73	1.00	1.00	0.46	0.46	∞
Linearity	E.2.4	1.25	R	1.73	1.00	1.00	0.72	0.72	∞
System detection limits	E.2.4	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	1.00	1.00	0.26	0.26	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions- Noise	E.6.1	3.51	R	1.73	1.00	1.00	2.03	2.03	∞
RF ambient conditions- reflections	E.6.1	3.15	R	1.73	1.00	1.00	1.82	1.82	∞
Probe positioner mechanical tolerance	E.6.2	1.20	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.40	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	2.10	R	1.73	1.00	1.00	1.21	1.21	∞
System validation source									
Deviation of experimental dipole from numerical dipole	E.6.4	4.80	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.10	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.40	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and set-up									
Phantom shell uncertainty— shape, thickness, and permittivity	E.3.1	3.70	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.90	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity (temperature uncertainty)	E.3.3	2.40	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid conductivity (measured)	E.3.3	4.10	N	1.00	0.78	0.71	3.20	2.91	M
Liquid permittivity (temperature uncertainty)	E.3.4	2.70	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity (measured)	E.3.4	4.80	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				9.72	9.52	
Expanded Uncertainty (95% Confidence interval)			K=2				19.44	19.03	



SATIMO Uncertainty- SN 08/21 EPG0352									
。 System Check uncertainty for DUT averaged over 1 gram / 10 gram.									
Uncertainty Component	Sec.	Tol	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
		(+-%)							
Measurement System									
Probe calibration drift	E.2.1.3	5.72	N	1.00	1.00	1.00	5.72	5.72	∞
Axial Isotropy	E.2.2	0.18	R	1.73	0.00	0.00	0.00	0.00	∞
Hemispherical Isotropy	E.2.2	1.04	R	1.73	0.00	0.00	0.00	0.00	∞
Boundary effect	E.2.3	0.8	R	1.73	0.00	0.00	0.00	0.00	∞
Linearity	E.2.4	1.25	R	1.73	0.00	0.00	0.00	0.00	∞
System detection limits	E.2.4	1.20	R	1.73	0.00	0.00	0.00	0.00	∞
Modulation response	E.2.5	3.42	R	1.73	0.00	0.00	0.00	0.00	∞
Readout Electronics	E.2.6	0.26	N	1.00	0.00	0.00	0.00	0.00	∞
Response Time	E.2.7	0.17	R	1.73	0.00	0.00	0.00	0.00	∞
Integration Time	E.2.8	1.43	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-Noise	E.6.1	3.51	R	1.73	0.00	0.00	0.00	0.00	∞
RF ambient conditions-reflections	E.6.1	3.15	R	1.73	0.00	0.00	0.00	0.00	∞
Probe positioner mechanical tolerance	E.6.2	1.2	R	1.73	1.00	1.00	0.69	0.69	∞
Probe positioning with respect to phantom shell	E.6.3	1.4	R	1.73	1.00	1.00	0.81	0.81	∞
Extrapolation, interpolation, and integrations algorithms for max. SAR evaluation	E.5	3.9	R	1.73	0.00	0.00	0.00	0.00	∞
System check source (dipole)									
Deviation of experimental dipoles	E.6.4	4.8	N	1.00	1.00	1.00	4.80	4.80	∞
Input power and SAR drift measurement	8,6.6.4	5.1	R	1.73	1.00	1.00	2.94	2.94	∞
Dipole axis to liquid distance	8,E.6.6	2.4	R	1.73	1.00	1.00	1.39	1.39	∞
Phantom and tissue parameters									
Phantom shell uncertainty—shape, thickness, and permittivity	E.3.1	3.7	R	1.73	1.00	1.00	2.14	2.14	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	1.9	N	1.00	1.00	0.84	1.90	1.60	∞
Liquid conductivity measurement	E.3.3	2.4	R	1.73	0.78	0.71	1.08	0.98	∞
Liquid permittivity measurement	E.3.3	4.1	N	1.00	0.78	0.71	3.20	2.91	M
Liquid conductivity—temperature uncertainty	E.3.4	2.7	R	1.73	0.23	0.26	0.36	0.41	∞
Liquid permittivity—temperature uncertainty	E.3.4	4.8	N	1.00	0.23	0.26	1.10	1.25	M
Combined Standard Uncertainty			RSS				5.56	5.20	
Expanded Uncertainty (95% Confidence interval)			K=2				11.12	10.41	



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	33.47	33.46	33.80	30.32	30.63	30.48
GPRS (GMSK, 1-Slot)	33.48	33.44	33.77	29.98	30.34	30.13
GPRS (GMSK, 2-Slot)	30.67	30.55	30.65	26.79	26.91	26.59
GPRS (GMSK, 3-Slot)	28.64	28.52	28.64	25.18	25.34	25.05
GPRS (GMSK, 4-Slot)	26.47	26.29	26.41	23.12	23.23	22.87
EGPRS(8PSK, 1-Slot)	25.61	25.58	25.42	25.75	26.19	25.71
EGPRS(8PSK, 2-Slot)	24.45	24.43	24.39	24.09	24.30	24.32
EGPRS(8PSK, 3-Slot)	21.92	22.47	22.05	21.85	21.70	22.00
EGPRS(8PSK, 4-Slot)	19.50	19.93	19.49	19.69	19.84	19.41
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						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM(GMSK, 1-Slot)	24.44	24.43	24.77	21.29	21.60	21.45
GPRS (GMSK, 1-Slot)	24.45	24.41	24.74	20.95	21.31	21.10
GPRS (GMSK, 2-Slot)	24.65	24.53	24.63	20.77	20.89	20.57
GPRS (GMSK, 3-Slot)	24.38	24.26	24.38	20.92	21.08	20.79
GPRS (GMSK, 4-Slot)	23.46	23.28	23.40	20.11	20.22	19.86
EGPRS(8PSK, 1-Slot)	16.58	16.55	16.39	16.72	17.16	16.68
EGPRS(8PSK, 2-Slot)	18.43	18.41	18.37	18.07	18.28	18.30
EGPRS(8PSK, 3-Slot)	17.66	18.21	17.79	17.59	17.44	17.74
EGPRS(8PSK, 4-Slot)	16.49	16.92	16.48	16.68	16.83	16.40
Remark : 1. SAR testing was performed on the maximum frame-averaged power mode. 2. 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						

**WCDMA**

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1413	1513	4132	4183	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.6	846.6
RMC 12.2Kbps	22.26	22.54	22.45	22.08	22.13	22.19	22.95	22.82	22.62
HSDPA Subtest-1	22.19	22.33	22.14	22.14	21.85	22.06	22.75	22.60	22.47
HSDPA Subtest-2	21.78	22.04	21.79	21.98	21.64	21.89	22.59	22.49	22.17
HSDPA Subtest-3	21.60	21.98	21.68	21.67	21.40	21.65	22.27	22.20	21.90
HSDPA Subtest-4	21.45	21.81	21.38	21.43	21.25	21.26	22.20	21.74	21.88
HSUPA Subtest-1	22.06	22.19	22.04	21.83	21.63	21.79	22.77	22.56	22.48
HSUPA Subtest-2	22.15	22.34	22.14	22.03	21.75	21.95	22.76	22.68	22.47
HSUPA Subtest-3	21.70	22.33	21.94	21.86	21.23	21.72	22.28	22.33	22.41
HSUPA Subtest-4	22.15	22.42	22.15	22.00	21.79	21.98	22.71	22.64	22.44
HSUPA Subtest-5	21.85	22.33	21.88	21.88	21.65	21.85	22.51	22.49	22.43

According to 3GPP 25.101 sub-clause 6.2.2, the maximum output power is allowed to be reduced by following the table.

Table 6.1A: UE maximum output power with HS-DPCCH and E-DCH

UE Transmit Channel Configuration	CM(db)	MPR(db)
For all combinations of ,DPDCH,DPCCH HS-DPDCH,E-DPDCH and E-DPCCH	$0 \leq CM \leq 3.5$	$MAX(CM-1,0)$
Note: CM=1 for $\beta_c/\beta_d=12/15$, $\beta_{hs}/\beta_c=24/15$.For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.		

The device supports MPR to solve linearity issues (ACLR or SEM) due to the higher peak-to average ratios (PAR) of the HSUPA signal. This prevents saturating the full range of the TX DAC inside of device and provides a reduced power output to the RF transceiver chip according to the Cubic Metric (a function of the combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH).

When E-DPDCH channels are present the beta gains on those channels are reduced firsts to try to get the power under the allowed limit. If the beta gains are lowered as far as possible, then a hard limiting is applied at the maximum allowed level.

The SW currently recalculates the cubic metric every time the beta gains on the E-DPDCH are reduced. The cubic metric will likely get lower each time this is done .However, there is no reported reduction of maximum output power in the HSUPA mode since the device also provides a compensation for the power back-off by increasing the gain of TX_AGC in the transceiver (PA) device.

The end effect is that the DUT output power is identical to the case where there is no MPR in the device.

**2.4G WLAN**

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
802.11b	1	2412	12.63	18.32
	7	2437	8.67	7.36
	11	2462	11.36	13.68
802.11g	1	2412	11.70	14.79
	7	2437	8.20	6.61
	11	2462	10.89	12.27
802.11 n-HT20	1	2412	10.14	10.33
	7	2437	6.73	4.71
	11	2462	9.23	8.38

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-2.14	0.61
	39	2441	1.09	1.29
	78	2480	0.84	1.21
$\pi/4$ -QPSK(2Mbps)	0	2402	-0.41	0.91
	39	2441	2.85	1.93
	78	2480	2.56	1.80
8DPSK(3Mbps)	0	2402	0.06	1.01
	39	2441	3.35	2.16
	78	2480	3.05	2.02

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Conducted Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-3.84	0.41
	19	2440	-3.03	0.50
	39	2480	-4.15	0.38



LTE Conducted Power

General Note:

1. Anritsu CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
 2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
 3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
 5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
 6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
 7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.
 8. According to April 2015 TCB workshop, SAR test exclusion can be applied for testing overlapping LTE bands as follows:
 - a) The maximum output power, including tolerance, for the smaller band must be $\leq$ the larger band to qualify for the SAR test exclusion.
 - b) The channel bandwidth and other operating parameters for the smaller band must be fully supported by the larger band.
- . LTE Band 2 (1850-1910 MHz) is covered by LTE Band 25(1850-1915 MHz)
 - .LTE Band 4 (1710-1755 MHz) is covered by LTE Band66 (1710-1780MHz)
 - .LTE Band 17 (704-716 MHz) is covered by LTE Band 12(699-716MHz)



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.76	23.86	23.85
1.4	1	2		23.76	23.87	23.86
1.4	1	5		23.71	23.79	23.87
1.4	3	0		23.68	23.94	23.86
1.4	3	1		23.65	23.98	23.84
1.4	3	2		23.67	23.90	23.76
1.4	6	0		22.64	23.01	22.95
1.4	1	0	16-QAM	22.53	21.90	22.13
1.4	1	2		22.49	21.97	22.17
1.4	1	5		22.51	21.91	22.04
1.4	3	0		22.84	22.94	23.25
1.4	3	1		22.81	22.99	23.23
1.4	3	2		22.80	22.91	23.23
1.4	6	0		21.83	22.16	22.01
3	1	0	QPSK	23.56	23.89	23.90
3	1	7		23.59	23.84	23.84
3	1	14		23.56	23.81	23.87
3	8	0		22.63	22.96	22.81
3	8	4		22.66	22.98	22.87
3	8	7		22.65	22.90	22.88
3	15	0		22.62	22.94	22.93
3	1	0	16-QAM	22.52	21.96	22.13
3	1	7		22.55	21.91	22.19
3	1	14		22.55	21.87	22.15
3	8	0		21.60	22.24	21.81
3	8	4		21.66	22.23	21.88
3	8	7		21.66	22.00	21.83
3	15	0		21.79	22.21	21.97



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.60	23.88	23.86
5	1	12		23.62	23.88	23.80
5	1	24		23.62	23.93	23.76
5	12	0		22.58	22.89	22.82
5	12	6		22.68	22.87	22.85
5	12	11		22.61	22.88	22.90
5	25	0		22.68	22.86	22.90
5	1	0	16-QAM	21.71	21.48	21.79
5	1	12		21.69	21.49	21.74
5	1	24		21.78	21.58	21.74
5	12	0		21.60	22.06	21.83
5	12	6		21.59	22.03	21.79
5	12	11		21.63	21.77	21.77
5	25	0		21.78	22.22	21.73
10	1	0	QPSK	23.66	24.06	24.02
10	1	24		23.69	23.97	23.95
10	1	49		23.77	24.02	23.94
10	25	0		22.70	22.87	22.81
10	25	12		22.76	22.89	22.95
10	25	24		22.80	23.01	22.85
10	50	0		22.80	22.89	22.82
10	1	0	16-QAM	22.66	21.87	21.88
10	1	24		22.70	21.78	21.79
10	1	49		22.87	21.89	21.78
10	25	0		21.66	21.94	21.93
10	25	12		21.92	22.23	22.24
10	25	24		21.74	22.23	21.85
10	50	0		21.95	22.25	22.23



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.66	23.95	23.86
15	1	37		23.72	23.93	23.81
15	1	74		23.85	23.87	23.78
15	36	0		22.73	22.85	22.85
15	36	18		22.71	22.82	22.84
15	36	39		22.78	22.85	22.80
15	75	0		22.81	22.80	22.82
15	1	0	16-QAM	22.71	21.93	22.46
15	1	38		22.76	21.89	22.44
15	1	75		22.92	21.82	22.34
15	36	0		21.98	22.01	22.23
15	36	18		21.80	22.30	21.93
15	36	39		21.85	22.36	21.82
15	75	0		21.88	22.13	22.00
20	1	0	QPSK	23.70	24.05	24.02
20	1	49		23.90	24.06	24.04
20	1	99		23.74	24.19	24.04
20	50	0		22.79	23.03	22.88
20	50	24		22.92	22.93	22.85
20	50	49		22.82	23.07	22.91
20	100	0		22.83	22.88	22.91
20	1	0	16-QAM	21.35	21.37	21.74
20	1	49		21.51	21.49	21.82
20	1	99		21.53	21.46	21.73
20	50	0		22.08	22.00	22.19
20	50	24		21.84	22.23	22.20
20	50	49		22.27	22.17	22.15
20	100	0		21.77	22.20	22.23



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.70	23.32	23.88
1.4	1	2		23.76	23.32	23.91
1.4	1	5		23.70	23.33	23.84
1.4	3	0		23.63	23.39	23.52
1.4	3	1		23.59	23.43	23.58
1.4	3	2		23.64	23.37	23.64
1.4	6	0		22.57	22.41	22.54
1.4	1	0	16-QAM	22.45	21.37	22.03
1.4	1	2		22.43	21.44	22.02
1.4	1	5		22.42	21.45	22.05
1.4	3	0		22.76	22.38	22.96
1.4	3	1		22.87	22.42	22.87
1.4	3	2		22.83	22.48	22.87
1.4	6	0		21.78	21.52	21.67
3	1	0	QPSK	23.64	23.31	23.91
3	1	7		23.59	23.28	23.86
3	1	14		23.43	23.31	23.76
3	8	0		22.60	22.38	22.70
3	8	4		22.51	22.42	22.63
3	8	7		22.37	22.40	22.57
3	15	0		22.59	22.42	22.60
3	1	0	16-QAM	22.60	21.89	22.08
3	1	7		22.59	21.99	21.97
3	1	14		22.43	22.03	21.99
3	8	0		21.49	21.53	21.57
3	8	4		21.40	21.58	21.58
3	8	7		21.58	21.58	21.57
3	15	0		21.67	21.41	21.54



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.63	23.41	23.48
5	1	12		23.39	23.43	23.39
5	1	24		23.42	23.52	23.32
5	12	0		22.64	22.37	22.60
5	12	6		22.43	22.44	22.61
5	12	11		22.38	22.43	22.49
5	25	0		22.42	22.44	22.52
5	1	0	16-QAM	21.66	20.98	21.68
5	1	12		21.55	21.07	21.62
5	1	24		21.49	21.03	21.60
5	12	0		21.49	21.20	21.47
5	12	6		21.66	21.27	21.43
5	12	11		21.65	21.27	21.39
5	25	0		21.85	21.46	21.46
10	1	0	QPSK	23.56	23.35	23.65
10	1	24		23.38	23.39	23.70
10	1	49		23.26	23.40	23.64
10	25	0		22.41	22.37	22.60
10	25	12		22.51	22.38	22.63
10	25	24		22.41	22.40	22.55
10	50	0		22.52	22.43	22.55
10	1	0	16-QAM	22.43	21.33	21.70
10	1	24		22.30	21.39	21.65
10	1	49		22.31	21.42	21.64
10	25	0		21.74	21.38	21.64
10	25	12		21.38	21.41	21.51
10	25	24		21.42	21.41	21.47
10	50	0		21.40	21.45	21.53



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.50	23.32	23.70
15	1	37		23.30	23.45	23.74
15	1	74		23.20	23.54	23.67
15	36	0		22.49	22.42	22.68
15	36	18		22.40	22.42	22.52
15	36	39		22.36	22.39	22.58
15	75	0		22.42	22.40	22.46
15	1	0	16-QAM	22.41	21.28	22.14
15	1	38		22.35	21.37	22.08
15	1	75		22.21	21.49	22.05
15	36	0		21.48	21.42	21.53
15	36	18		21.47	21.48	21.51
15	36	39		21.66	21.55	21.45
15	75	0		21.40	21.38	21.61
20	1	0	QPSK	23.71	23.33	23.52
20	1	49		23.45	23.41	23.77
20	1	99		23.49	23.59	23.67
20	50	0		22.40	22.36	22.52
20	50	24		22.39	22.49	22.71
20	50	49		22.30	22.50	22.61
20	100	0		22.40	22.40	22.59
20	1	0	16-QAM	21.57	21.31	21.63
20	1	49		21.42	21.50	21.84
20	1	99		21.39	21.63	21.82
20	50	0		21.48	21.37	21.74
20	50	24		21.50	21.40	21.63
20	50	49		21.41	21.49	21.55
20	100	0		21.32	21.35	21.63



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.46	24.28	24.06
1.4	1	2		24.43	24.36	24.26
1.4	1	5		24.46	24.22	24.18
1.4	3	0		24.41	24.32	23.96
1.4	3	1		24.39	24.37	24.14
1.4	3	2		24.36	24.37	24.13
1.4	6	0		23.38	23.20	23.01
1.4	1	0	16-QAM	23.57	22.86	23.58
1.4	1	2		23.46	22.91	22.88
1.4	1	5		23.50	22.96	22.95
1.4	3	0		23.66	23.31	23.87
1.4	3	1		23.72	23.29	23.36
1.4	3	2		23.71	23.27	23.35
1.4	6	0		22.90	22.19	22.64
3	1	0	QPSK	24.32	24.29	24.01
3	1	7		24.28	24.26	24.01
3	1	14		24.23	24.29	24.18
3	8	0		23.41	23.25	23.41
3	8	4		23.45	23.28	23.39
3	8	7		23.39	23.19	22.94
3	15	0		23.38	23.22	23.36
3	1	0	16-QAM	23.41	22.95	23.42
3	1	7		23.37	22.79	23.41
3	1	14		23.36	22.87	22.71
3	8	0		22.63	22.47	22.42
3	8	4		22.68	22.37	22.40
3	8	7		22.62	22.39	22.33
3	15	0		22.81	22.25	22.47



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.38	24.38	23.88
5	1	12		24.31	24.35	23.70
5	1	24		24.39	24.22	23.91
5	12	0		23.45	23.32	22.97
5	12	6		23.38	23.27	23.47
5	12	11		23.48	23.13	23.44
5	25	0		23.42	23.30	23.39
5	1	0	16-QAM	22.51	22.24	22.67
5	1	12		22.50	22.13	22.98
5	1	24		22.49	22.16	22.40
5	12	0		22.72	22.16	22.45
5	12	6		22.77	22.06	22.30
5	12	11		22.78	21.94	22.33
5	25	0		22.93	22.20	22.56
10	1	0	QPSK	24.24	24.37	24.18
10	1	24		24.33	24.41	23.98
10	1	49		24.27	24.16	24.15
10	25	0		23.36	23.27	23.04
10	25	12		23.45	23.27	23.12
10	25	24		23.43	23.25	23.39
10	50	0		23.36	23.27	23.06
10	1	0	16-QAM	23.28	22.19	22.10
10	1	24		23.16	22.16	22.03
10	1	49		23.26	22.08	21.80
10	25	0		22.82	22.30	22.09
10	25	12		22.48	22.29	22.11
10	25	24		22.34	22.67	22.44
10	50	0		22.37	22.26	22.05



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.47	23.49	23.99
5	1	12		23.97	23.74	24.04
5	1	24		23.65	23.20	23.85
5	12	0		23.30	23.06	23.00
5	12	6		23.34	23.11	22.93
5	12	11		23.26	23.03	23.07
5	25	0		23.26	23.09	22.97
5	1	0	16-QAM	22.34	21.73	22.08
5	1	12		22.27	21.85	22.01
5	1	24		22.28	21.75	22.11
5	12	0		22.20	21.98	22.04
5	12	6		22.17	21.98	22.00
5	12	11		22.10	21.82	22.40
5	25	0		22.38	22.10	21.95
10	1	0	QPSK	23.50	23.69	24.09
10	1	24		24.02	23.59	24.06
10	1	49		24.24	23.61	24.08
10	25	0		23.23	23.07	23.06
10	25	12		23.26	23.14	23.05
10	25	24		23.29	23.15	22.97
10	50	0		23.34	23.16	22.93
10	1	0	16-QAM	23.28	22.69	21.94
10	1	24		23.28	22.70	21.88
10	1	49		23.22	22.68	21.97
10	25	0		22.30	22.15	22.01
10	25	12		22.30	22.12	22.52
10	25	24		22.36	22.05	22.08
10	50	0		22.32	22.11	22.43



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.73	23.99	24.09
15	1	37		24.10	23.55	24.09
15	1	74		24.07	23.40	24.11
15	36	0		23.20	22.95	23.02
15	36	18		23.25	23.08	23.08
15	36	39		23.21	22.96	22.97
15	75	0		23.29	23.03	23.04
15	1	0	16-QAM	23.27	22.01	22.76
15	1	37		23.30	22.02	22.70
15	1	74		23.16	22.03	22.84
15	36	0		22.35	22.54	22.01
15	36	18		22.34	22.23	21.92
15	36	39		22.28	22.15	21.95
15	75	0		22.23	22.14	22.00
20	1	0	QPSK	23.92	24.11	24.00
20	1	49		24.35	23.72	24.27
20	1	99		24.22	24.17	24.31
20	50	0		23.19	23.07	23.07
20	50	24		23.26	23.17	23.12
20	50	49		23.17	23.07	22.98
20	100	0		23.26	23.08	22.96
20	1	0	16-QAM	22.46	22.31	21.89
20	1	49		22.44	22.30	21.89
20	1	99		22.34	22.27	21.97
20	50	0		22.34	22.42	22.10
20	50	24		22.38	22.09	22.08
20	50	49		22.65	22.14	22.48
20	100	0		22.26	22.11	22.05



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.76	23.52	23.86
1.4	1	2		23.78	23.68	23.90
1.4	1	5		23.74	23.62	23.85
1.4	3	0		23.74	23.94	23.73
1.4	3	1		23.67	24.04	23.73
1.4	3	2		23.75	23.95	23.77
1.4	6	0		22.81	22.69	22.84
1.4	1	0	16-QAM	22.66	22.22	22.33
1.4	1	2		22.67	22.24	22.49
1.4	1	5		22.68	22.21	22.41
1.4	3	0		23.05	22.86	23.01
1.4	3	1		22.93	22.93	23.10
1.4	3	2		22.95	22.91	23.06
1.4	6	0		22.00	21.77	21.95
3	1	0	QPSK	23.56	23.62	23.91
3	1	7		23.54	23.65	23.92
3	1	14		23.79	23.66	23.90
3	8	0		22.72	22.82	22.80
3	8	4		22.70	22.78	22.77
3	8	7		22.77	22.76	22.80
3	15	0		22.77	22.78	22.83
3	1	0	16-QAM	22.61	22.21	22.45
3	1	7		22.60	22.21	22.33
3	1	14		22.53	22.17	22.44
3	8	0		21.75	21.75	21.91
3	8	4		21.70	21.95	21.88
3	8	7		21.72	21.96	21.93
3	15	0		21.89	21.82	21.92



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.64	23.96	23.78
5	1	12		23.85	23.92	23.75
5	1	24		23.81	23.77	23.66
5	12	0		22.75	22.94	22.74
5	12	6		22.71	22.82	22.67
5	12	11		22.80	22.82	22.76
5	25	0		22.66	22.74	22.73
5	1	0	16-QAM	21.65	21.55	21.56
5	1	12		21.64	21.40	21.59
5	1	24		21.68	21.45	21.71
5	12	0		21.82	21.58	22.02
5	12	6		21.80	21.75	21.92
5	12	11		21.79	21.77	21.87
5	25	0		21.97	21.87	21.86
10	1	0	QPSK	23.58	23.73	23.92
10	1	24		23.72	23.69	23.81
10	1	49		23.73	23.67	23.76
10	25	0		22.69	22.90	22.87
10	25	12		22.79	22.85	22.93
10	25	24		22.96	22.91	22.89
10	50	0		22.80	22.88	22.83
10	1	0	16-QAM	22.41	21.58	21.78
10	1	24		22.51	21.77	21.60
10	1	49		22.55	21.67	21.68
10	25	0		21.91	21.79	21.94
10	25	12		21.81	21.91	21.80
10	25	24		21.82	21.74	22.01
10	50	0		21.90	21.85	21.77



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.78	23.93	23.79
5	1	12		23.78	23.72	23.74
5	1	24		23.76	23.82	23.66
5	12	0		23.02	22.79	22.74
5	12	6		22.96	22.78	22.66
5	12	11		22.79	22.84	22.76
5	25	0		22.91	22.81	22.82
5	1	0	16-QAM	21.64	21.44	21.57
5	1	12		21.78	21.41	21.59
5	1	24		21.71	21.35	21.72
5	12	0		21.65	21.71	22.02
5	12	6		21.69	21.67	21.91
5	12	11		21.81	21.91	21.89
5	25	0		21.89	21.78	21.85
10	1	0	QPSK	23.72	23.68	23.91
10	1	24		23.69	23.63	23.81
10	1	49		23.54	23.56	23.74
10	25	0		22.90	22.77	22.85
10	25	12		22.72	22.91	22.93
10	25	24		22.79	22.78	22.89
10	50	0		22.86	22.81	22.83
10	1	0	16-QAM	22.45	21.87	21.74
10	1	24		22.50	21.70	21.59
10	1	49		22.45	21.63	21.64
10	25	0		21.67	21.89	21.84
10	25	12		21.87	21.73	21.82
10	25	24		22.05	22.00	22.00
10	50	0		21.90	21.79	21.78



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.55	23.51	23.50
1.4	1	2		23.59	23.58	23.51
1.4	1	5		23.53	23.54	23.53
1.4	3	0		23.45	23.62	23.42
1.4	3	1		23.48	23.68	23.40
1.4	3	2		23.46	23.63	23.40
1.4	6	0		22.44	22.66	22.48
1.4	1	0	16-QAM	22.37	22.24	21.55
1.4	1	2		22.38	22.29	21.62
1.4	1	5		22.38	22.31	21.59
1.4	3	0		22.69	22.98	22.72
1.4	3	1		22.70	23.02	22.69
1.4	3	2		22.68	22.97	22.75
1.4	6	0		21.70	21.77	21.66
3	1	0	QPSK	23.55	23.52	23.54
3	1	7		23.47	23.57	23.49
3	1	14		23.46	23.56	23.52
3	8	0		22.39	22.72	22.37
3	8	4		22.44	22.55	22.35
3	8	7		22.40	22.56	22.45
3	15	0		22.52	22.75	22.42
3	1	0	16-QAM	22.56	22.16	21.53
3	1	7		22.55	22.28	21.58
3	1	14		22.52	22.26	21.52
3	8	0		21.33	22.10	21.54
3	8	4		21.35	22.05	21.65
3	8	7		21.38	22.06	21.66
3	15	0		21.54	21.97	21.66



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.48	23.59	23.23
5	1	12		23.38	23.62	23.39
5	1	24		23.38	23.62	23.40
5	12	0		22.43	22.52	22.46
5	12	6		22.47	22.59	22.46
5	12	11		22.46	22.66	22.37
5	25	0		22.46	22.62	22.51
5	1	0	16-QAM	21.60	21.19	21.26
5	1	12		21.61	21.18	21.31
5	1	24		21.60	21.23	21.32
5	12	0		21.36	21.71	21.50
5	12	6		21.37	21.68	21.47
5	12	11		21.34	21.76	21.64
5	25	0		21.60	21.88	21.38
10	1	0	QPSK	23.40	23.41	23.36
10	1	24		23.35	23.64	23.51
10	1	49		23.23	23.61	23.49
10	25	0		22.50	22.56	22.31
10	25	12		22.45	22.54	22.39
10	25	24		22.49	22.68	22.42
10	50	0		22.46	22.58	22.49
10	1	0	16-QAM	22.41	21.33	21.28
10	1	24		22.37	21.47	21.21
10	1	49		22.57	21.50	21.30
10	25	0		21.51	21.80	21.38
10	25	12		21.52	21.92	21.47
10	25	24		21.45	21.83	21.50
10	50	0		21.52	21.91	21.45



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.39	23.41	23.52
15	1	37		23.32	23.62	23.46
15	1	74		23.16	23.64	23.45
15	36	0		22.45	22.56	22.29
15	36	18		22.49	22.57	22.35
15	36	39		22.32	22.57	22.32
15	75	0		22.51	22.53	22.33
15	1	0	16-QAM	22.42	21.30	22.02
15	1	38		22.39	21.45	21.92
15	1	75		22.23	21.42	21.99
15	36	0		21.58	21.62	21.34
15	36	18		21.50	21.92	21.33
15	36	39		21.64	21.62	21.40
15	75	0		21.39	21.82	21.44
20	1	0	QPSK	23.58	23.48	23.55
20	1	49		23.42	23.79	23.43
20	1	99		23.46	23.69	23.59
20	50	0		22.46	22.59	22.50
20	50	24		22.52	22.73	22.28
20	50	49		22.35	22.62	22.33
20	100	0		22.50	22.61	22.30
20	1	0	16-QAM	21.47	21.76	21.22
20	1	49		21.69	21.84	21.15
20	1	99		21.39	21.66	21.23
20	50	0		21.51	21.65	21.38
20	50	24		21.71	21.86	21.30
20	50	49		21.49	21.61	21.42
20	100	0		21.64	21.74	21.36

11. EUT and Test Setup Photo

11.1 EUT Photo

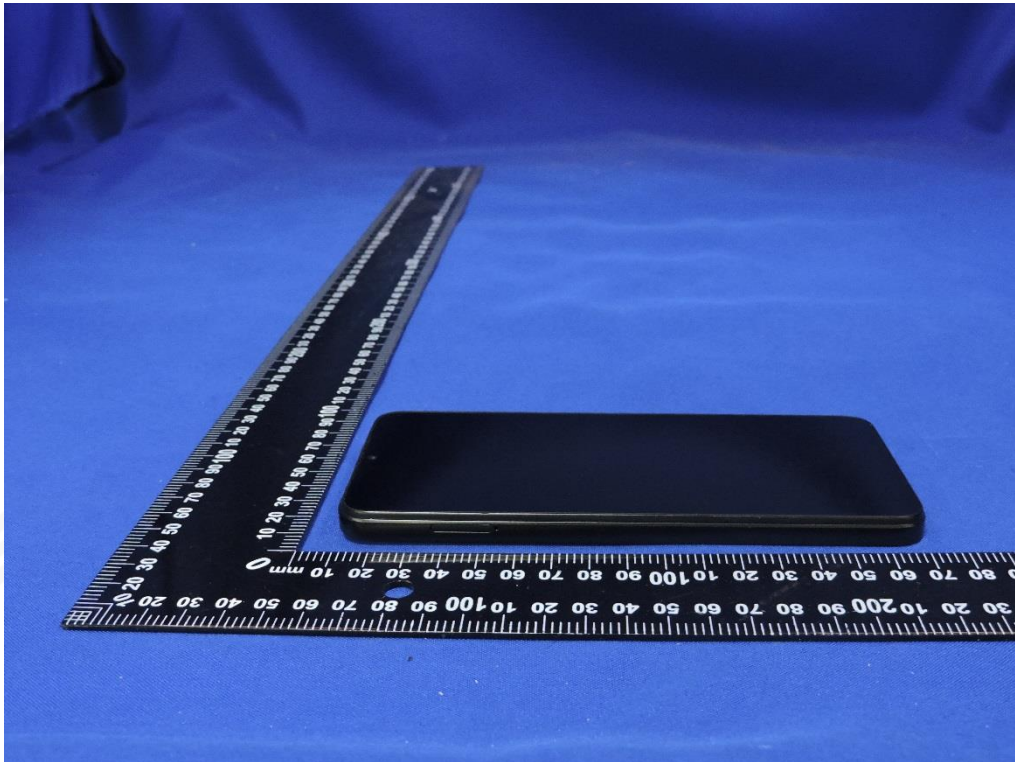
Front side



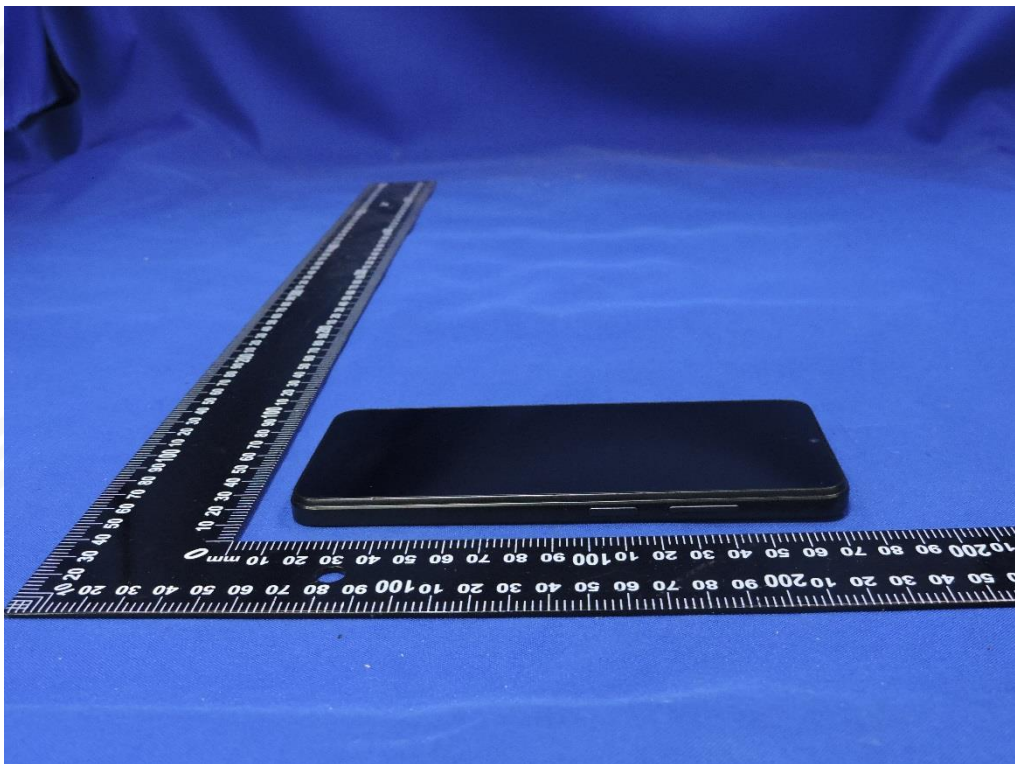
Back side



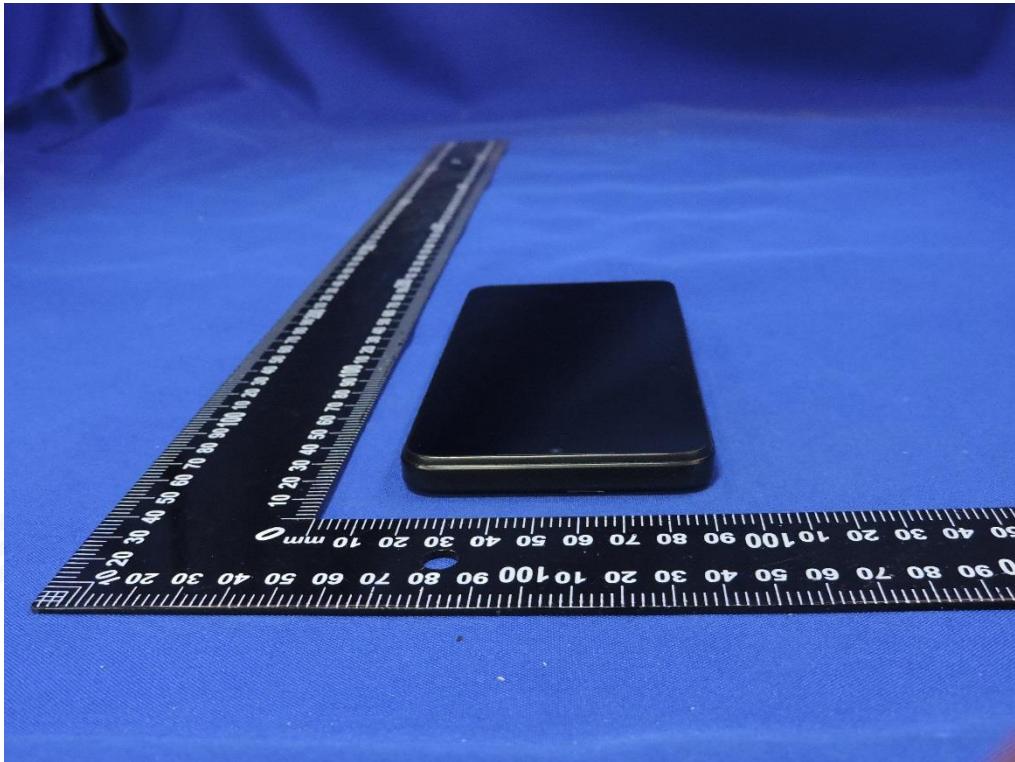
Left Edge



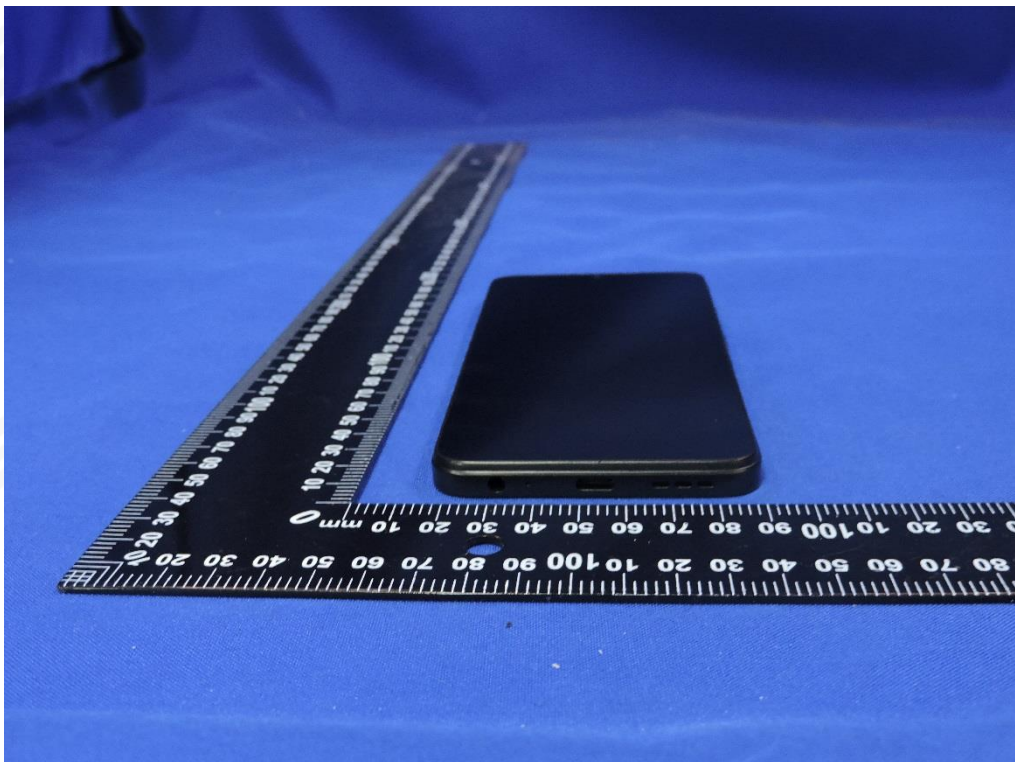
Right Edge



Top Edge



Bottom Edge

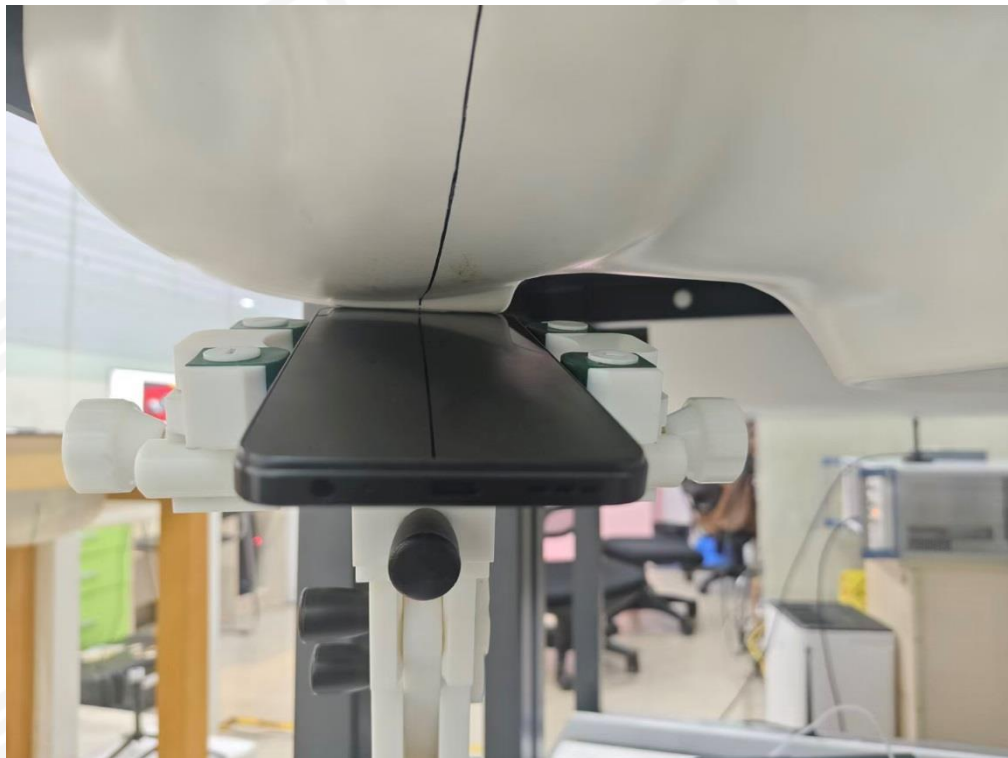


11.2 Setup Photo

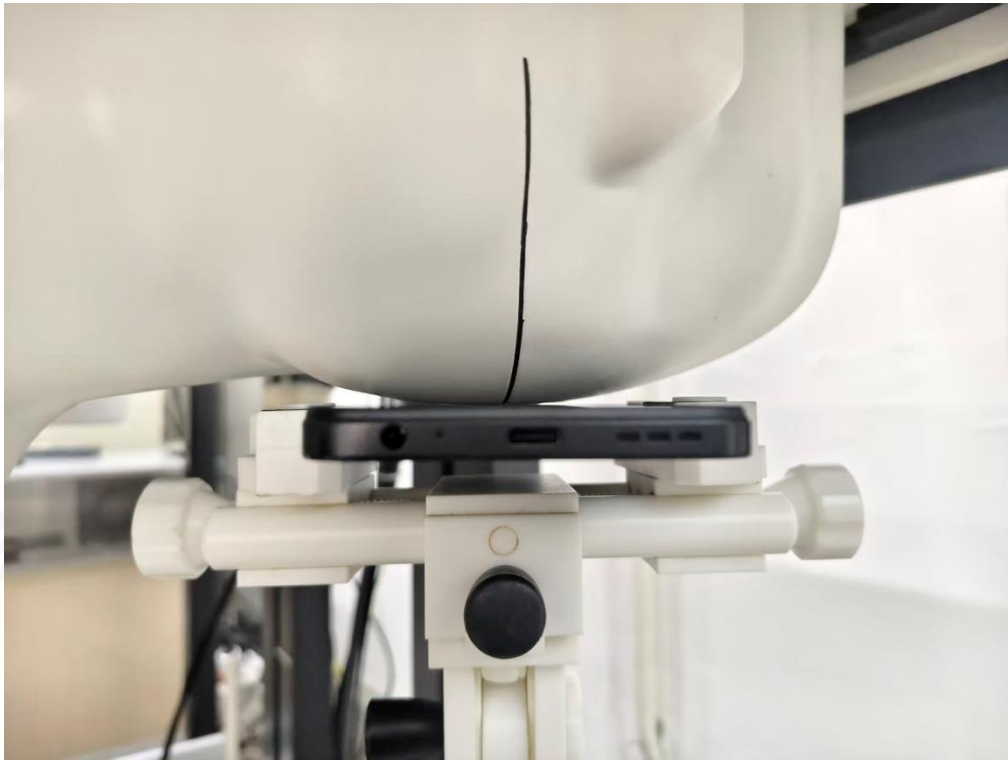
Right Cheek



Right Tilt



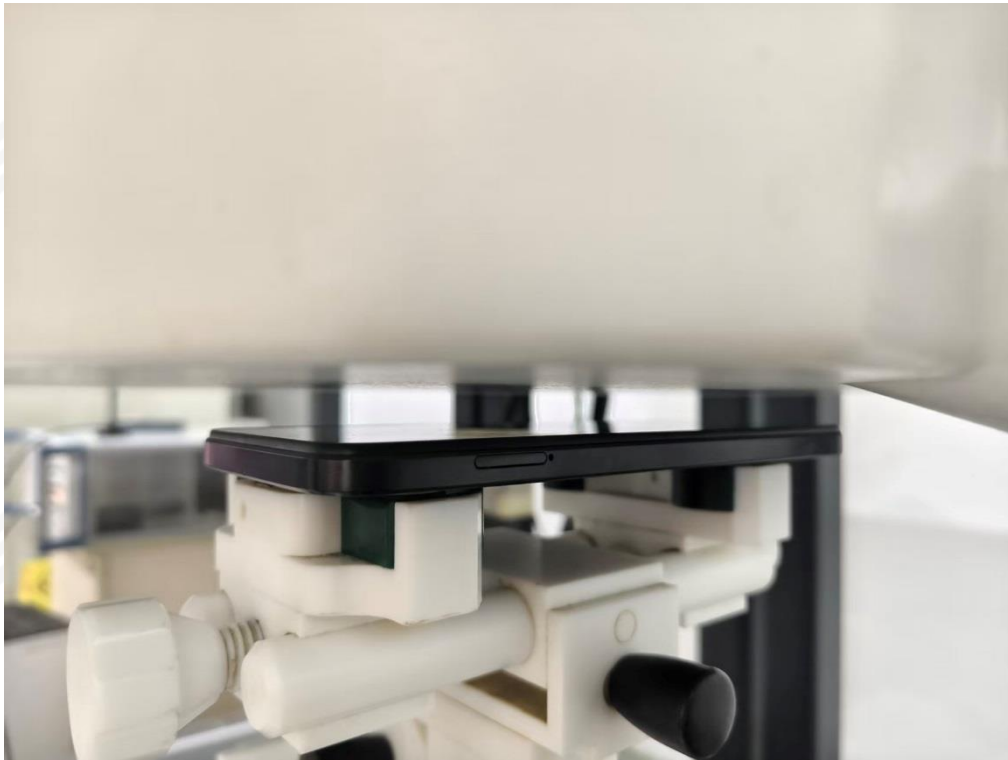
Left Cheek



Left Tilt



Body Front side(separation distance is 10mm)



Body Back side(separation distance is 10mm)



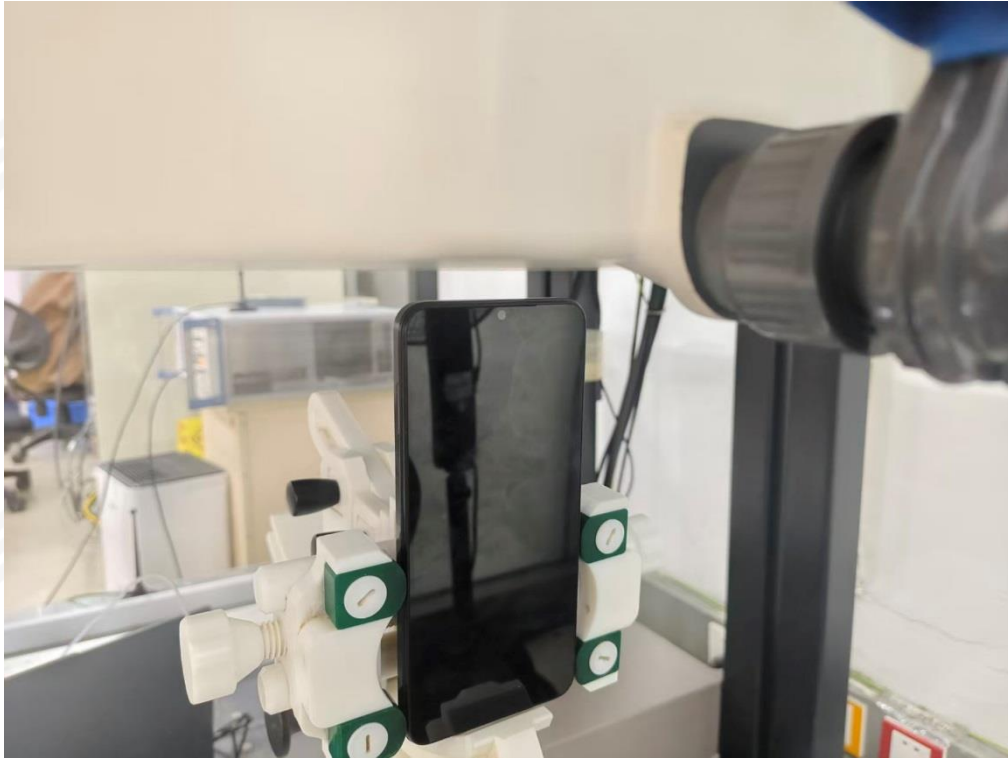
Body Left side(separation distance is 10mm)



Body Right side(separation distance is 10mm)



Body Bottom side(separation distance is 10mm)

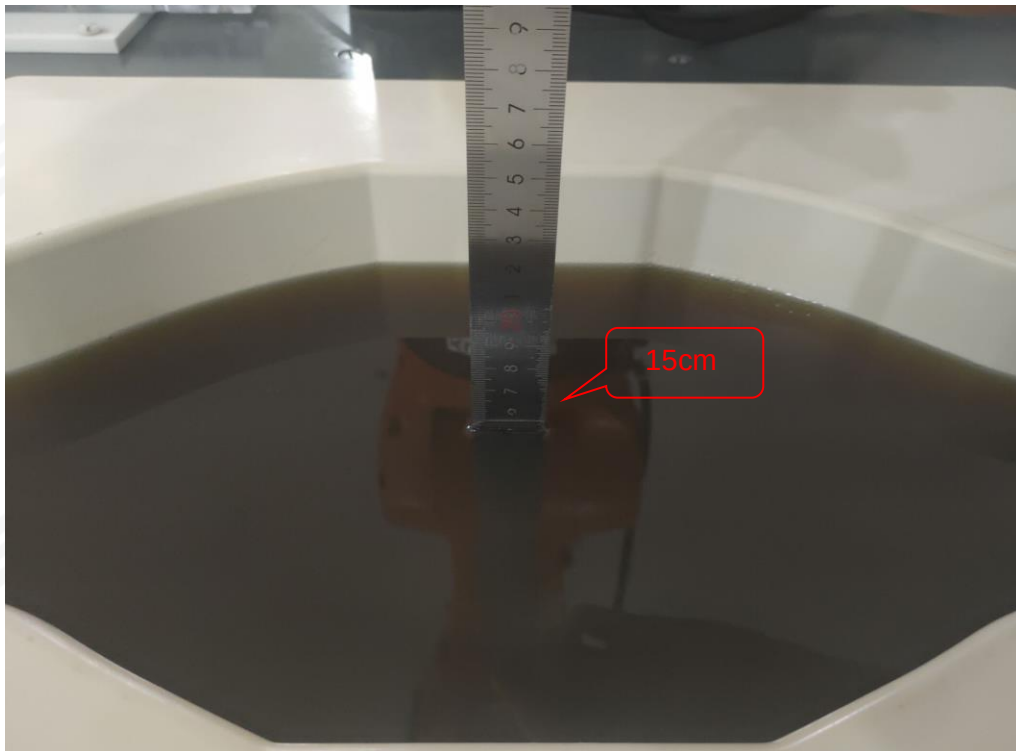


Body Top side(separation distance is 10mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas .No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Right Cheek	848.8	0.349	2.13	34.00	33.77	1.054	0.368	1
					Right Tilt	848.8	0.160	-0.57	34.00	33.77	1.054	0.169	/
					Left Cheek	848.8	0.321	-0.88	34.00	33.77	1.054	0.338	/
					Left Tilt	848.8	0.185	-0.94	34.00	33.77	1.054	0.195	/
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Right Cheek	1880	0.439	-3.66	30.50	30.34	1.038	0.455	3
					Right Tilt	1880	0.255	1.57	30.50	30.34	1.038	0.265	/
					Left Cheek	1880	0.396	-3.91	30.50	30.34	1.038	0.411	/
					Left Tilt	1880	0.214	-0.87	30.50	30.34	1.038	0.222	/
WCDMA Band 2	N/A	RMC	N/A	N/A	Right Cheek	1852.4	0.712	0.31	23.00	22.26	1.186	0.844	/
					Right Cheek	1880	0.783	1.65	23.00	22.54	1.112	0.870	5
					Right Cheek	1907.6	0.736	2.74	23.00	22.45	1.135	0.835	/
					Right Tilt	1880	0.321	-2.50	23.00	22.54	1.112	0.357	/
					Left Cheek	1880	0.710	1.04	23.00	22.54	1.112	0.789	/
					Left Tilt	1880	0.652	3.77	23.00	22.54	1.112	0.725	/
WCDMA Band 4	N/A	RMC	N/A	N/A	Right Cheek	1752.4	0.379	2.00	22.50	22.19	1.074	0.407	7
					Right Tilt	1752.4	0.136	0.38	22.50	22.19	1.074	0.146	/
					Left Cheek	1752.4	0.358	-0.05	22.50	22.19	1.074	0.384	/
					Left Tilt	1752.4	0.125	1.86	22.50	22.19	1.074	0.134	/
WCDMA Band 5	N/A	RMC	N/A	N/A	Right Cheek	826.4	0.047	2.69	23.00	22.95	1.012	0.048	9
					Right Tilt	826.4	0.020	1.11	23.00	22.95	1.012	0.020	/
					Left Cheek	826.4	0.042	2.82	23.00	22.95	1.012	0.042	/
					Left Tilt	826.4	0.015	-0.23	23.00	22.95	1.012	0.015	/
2.4G WLAN	N/A	802.11b	N/A	N/A	Right Cheek	2412	0.111	-3.54	13.00	12.63	1.089	0.121	11
					Right Tilt	2412	0.102	1.37	13.00	12.63	1.089	0.111	/
					Left Cheek	2412	0.106	2.68	13.00	12.63	1.089	0.115	/
					Left Tilt	2412	0.107	-1.31	13.00	12.63	1.089	0.117	/
LTE Band 2	20M	QPSK	1	99	Right Cheek	1880	0.337	3.45	24.50	24.19	1.074	0.362	13
			50	49	Right Cheek	1880	0.315	0.51	23.50	23.07	1.104	0.348	/
			1	99	Right Tilt	1880	0.105	1.82	24.50	24.19	1.074	0.113	/
			50	49	Right Tilt	1880	0.111	-3.97	23.50	23.07	1.104	0.123	/
			1	99	Left Cheek	1880	0.305	-3.19	24.50	24.19	1.074	0.328	/
			50	49	Left Cheek	1880	0.314	0.83	23.50	23.07	1.104	0.347	/
			1	99	Left Tilt	1880	0.125	-2.04	24.50	24.19	1.074	0.134	/
			50	49	Left Tilt	1880	0.109	3.71	23.50	23.07	1.104	0.120	/
LTE Band 5	10M	QPSK	1	24	Right Cheek	836.5	0.340	3.76	24.50	24.41	1.021	0.347	15
			25	12	Right Cheek	829	0.325	-3.40	23.50	23.45	1.012	0.329	/
			1	24	Right Tilt	836.5	0.125	0.75	24.50	24.41	1.021	0.128	/
			25	12	Right Tilt	829	0.132	1.11	23.50	23.45	1.012	0.134	/
			1	24	Left Cheek	836.5	0.312	-0.04	24.50	24.41	1.021	0.319	/
			25	12	Left Cheek	829	0.302	-1.68	23.50	23.45	1.012	0.305	/
			1	24	Left Tilt	836.5	0.115	0.24	24.50	24.41	1.021	0.117	/
			25	12	Left Tilt	829	0.102	-2.44	23.50	23.45	1.012	0.103	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas .No.
LTE Band 7	20M	QPSK	1	49	Right Cheek	2510	0.282	-0.10	24.50	24.35	1.035	0.292	17
			50	24	Right Cheek	2510	0.269	1.04	23.50	23.26	1.057	0.284	/
			1	49	Right Tilt	2510	0.158	2.87	24.50	24.35	1.035	0.164	/
			50	24	Right Tilt	2510	0.147	-1.14	23.50	23.26	1.057	0.155	/
			1	49	Left Cheek	2510	0.274	2.07	24.50	24.35	1.035	0.284	/
			50	24	Left Cheek	2510	0.233	2.47	23.50	23.26	1.057	0.246	/
			1	49	Left Tilt	2510	0.136	0.10	24.50	24.35	1.035	0.141	/
LTE Band 12&17	10M	QPSK	50	24	Left Tilt	2510	0.158	-2.02	23.50	23.26	1.057	0.167	/
			1	0	Right Cheek	711	0.173	-0.95	24.00	23.92	1.019	0.176	19
			25	24	Right Cheek	704	0.166	-1.98	23.00	22.96	1.009	0.168	/
			1	0	Right Tilt	711	0.105	0.05	24.00	23.92	1.019	0.107	/
			25	24	Right Tilt	704	0.098	-3.95	23.00	22.96	1.009	0.099	/
			1	0	Left Cheek	711	0.167	-1.24	24.00	23.92	1.019	0.170	/
			25	24	Left Cheek	704	0.152	-1.58	23.00	22.96	1.009	0.153	/
LTE Band 66&4	20M	QPSK	1	0	Left Tilt	711	0.078	-3.61	24.00	23.92	1.019	0.079	/
			25	24	Left Tilt	704	0.096	3.91	23.00	22.96	1.009	0.097	/
			1	49	Right Cheek	1755	0.554	-0.02	24.00	23.79	1.050	0.581	21
			50	24	Right Cheek	1755	0.536	-2.62	23.00	22.73	1.064	0.570	/
			1	49	Right Tilt	1755	0.321	-0.93	24.00	23.79	1.050	0.337	/
			50	24	Right Tilt	1755	0.305	2.00	23.00	22.73	1.064	0.325	/
			1	49	Left Cheek	1755	0.514	-1.39	24.00	23.79	1.050	0.539	/
			50	24	Left Cheek	1755	0.498	0.00	23.00	22.73	1.064	0.530	/
			1	49	Left Tilt	1755	0.250	-2.47	24.00	23.79	1.050	0.262	/
			50	24	Left Tilt	1755	0.301	3.17	23.00	22.73	1.064	0.320	/

Note:

- Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg

**12.2 Body-worn and Hotspot SAR**

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas .No.
GSM850	N/A	GPRS Data-4 Slot	N/A	N/A	Front Side	848.8	0.362	-3.91	34.00	33.77	1.054	0.382	/
					Back Side	824.2	0.395	2.35	34.00	33.48	1.127	0.445	/
					Back Side	836.6	0.386	3.40	34.00	33.44	1.138	0.439	/
					Back Side	848.8	0.431	-0.60	34.00	33.77	1.054	0.454	2
					Left Side	848.8	0.211	2.72	34.00	33.77	1.054	0.222	/
					Right Side	848.8	0.302	-3.44	34.00	33.77	1.054	0.318	/
					Top Side	848.8	0.021	-3.39	34.00	33.77	1.054	0.022	/
					Bottom Side	848.8	0.314	1.59	34.00	33.77	1.054	0.331	/
GSM1900	N/A	GPRS Data-4 Slot	N/A	N/A	Front Side	1880	0.136	3.06	30.50	30.34	1.038	0.141	/
					Back Side	1880	0.234	-0.45	30.50	30.34	1.038	0.243	4
					Left Side	1880	0.125	-1.45	30.50	30.34	1.038	0.130	/
					Right Side	1880	0.122	2.53	30.50	30.34	1.038	0.127	/
					Bottom Side	1880	0.169	-1.03	30.50	30.34	1.038	0.175	/
WCDMA Band 2	N/A	RMC	N/A	N/A	Front Side	1880	0.102	-0.59	23.00	22.54	1.112	0.113	/
					Back Side	1880	0.179	3.86	23.00	22.54	1.112	0.199	6
					Left Side	1880	0.089	0.38	23.00	22.54	1.112	0.099	/
					Right Side	1880	0.105	-0.85	23.00	22.54	1.112	0.117	/
					Bottom Side	1880	0.144	2.59	23.00	22.54	1.112	0.160	/
WCDMA Band 4	N/A	RMC	N/A	N/A	Front Side	1752.4	0.066	0.17	22.50	22.19	1.074	0.071	/
					Back Side	1752.4	0.072	0.46	22.50	22.19	1.074	0.077	8
					Left Side	1752.4	0.041	0.11	22.50	22.19	1.074	0.044	/
					Right Side	1752.4	0.032	2.66	22.50	22.19	1.074	0.034	/
					Bottom Side	1752.4	0.05	-3.79	22.50	22.19	1.074	0.054	/
WCDMA Band 5	N/A	RMC	N/A	N/A	Front Side	826.4	0.025	-3.64	23.00	22.95	1.012	0.025	/
					Back Side	826.4	0.037	2.52	23.00	22.95	1.012	0.037	10
					Left Side	826.4	0.026	3.26	23.00	22.95	1.012	0.026	/
					Right Side	826.4	0.030	1.04	23.00	22.95	1.012	0.030	/
					Bottom Side	826.4	0.031	-0.24	23.00	22.95	1.012	0.031	/
2.4GHz WLAN	N/A	802.11b	N/A	N/A	Front Side	2412	0.041	0.55	13.00	12.63	1.089	0.045	/
					Back Side	2412	0.072	-2.61	13.00	12.63	1.089	0.078	12
					Right Side	2412	0.033	0.24	13.00	12.63	1.089	0.036	/
					Top Side	2412	0.052	-0.50	13.00	12.63	1.089	0.057	/
					Bottom Side	2412	0.041	0.55	13.00	12.63	1.089	0.045	/
LTE Band 2	20M	QPSK	1	99	Front side	1880	0.166	-1.64	24.5	24.19	1.074	0.178	/
			50	49	Front side	1880	0.174	-3.72	23.5	23.07	1.104	0.192	/
			1	99	Back Side	1880	0.204	0.68	24.5	24.19	1.074	0.219	14
			50	49	Back Side	1880	0.195	3.28	23.5	23.07	1.104	0.215	/
			1	99	Left Side	1880	0.115	1.43	24.5	24.19	1.074	0.124	/
			50	49	Left Side	1880	0.135	-3.10	23.5	23.07	1.104	0.149	/
			1	99	Right Side	1880	0.110	0.08	24.5	24.19	1.074	0.118	/
			50	49	Right Side	1880	0.085	-3.26	23.5	23.07	1.104	0.094	/
			1	99	Bottom Side	1880	0.136	3.25	24.5	24.19	1.074	0.146	/
LTE Band 5	10M	QPSK	50	49	Bottom Side	1880	0.142	-1.98	23.5	23.07	1.104	0.157	/
			1	24	Front side	836.5	0.251	-2.02	24.50	24.41	1.021	0.256	/
			25	12	Front side	829	0.226	-1.53	23.50	23.45	1.012	0.229	/
			1	24	Back Side	836.5	0.371	0.03	24.50	24.41	1.021	0.379	16
			25	12	Back Side	829	0.362	1.68	23.50	23.45	1.012	0.366	/
			1	24	Left Side	836.5	0.285	-1.60	24.50	24.41	1.021	0.291	/
			25	12	Left Side	829	0.274	3.99	23.50	23.45	1.012	0.277	/
			1	24	Right Side	836.5	0.236	-3.78	24.50	24.41	1.021	0.241	/
			25	12	Right Side	829	0.241	-2.22	23.50	23.45	1.012	0.244	/
			1	24	Bottom Side	836.5	0.299	1.41	24.50	24.41	1.021	0.305	/
			25	12	Bottom Side	829	0.302	-1.59	23.50	23.45	1.012	0.305	/



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas .No.
LTE Band 7	10M	QPSK	1	49	Front side	2510	0.121	3.10	24.50	24.35	1.035	0.125	/
			50	24	Front side	2510	0.135	3.20	23.50	23.26	1.057	0.143	/
			1	49	Back Side	2510	0.161	1.67	24.50	24.35	1.035	0.167	18
			50	24	Back Side	2510	0.148	3.13	23.50	23.26	1.057	0.156	/
			1	49	Left Side	2510	0.098	-2.10	24.50	24.35	1.035	0.101	/
			50	24	Left Side	2510	0.089	0.42	23.50	23.26	1.057	0.094	/
			1	49	Right Side	2510	0.102	-0.26	24.50	24.35	1.035	0.106	/
			50	24	Right Side	2510	0.096	0.11	23.50	23.26	1.057	0.101	/
			1	49	Bottom Side	2510	0.133	-3.15	24.50	24.35	1.035	0.138	/
			50	24	Bottom Side	2510	0.142	-1.27	23.50	23.26	1.057	0.150	/
LTE Band 12&17	10M	QPSK	1	0	Front side	711	0.169	2.38	24.00	23.92	1.019	0.172	/
			25	24	Front side	704	0.174	-3.09	23.00	22.96	1.009	0.176	/
			1	0	Back Side	711	0.269	-2.57	24.00	23.92	1.019	0.274	20
			25	24	Back Side	704	0.251	3.44	23.00	22.96	1.009	0.253	/
			1	0	Left Side	711	0.147	-1.27	24.00	23.92	1.019	0.150	/
			25	24	Left Side	704	0.150	-0.23	23.00	22.96	1.009	0.151	/
			1	0	Right Side	711	0.132	3.43	24.00	23.92	1.019	0.134	/
			25	24	Right Side	704	0.125	2.19	23.00	22.96	1.009	0.126	/
			1	0	Bottom Side	711	0.233	3.70	24.00	23.92	1.019	0.237	/
			25	24	Bottom Side	704	0.210	-0.65	23.00	22.96	1.009	0.212	/
LTE Band 66&4	20M	QPSK	1	49	Front side	1755	0.136	-2.84	24.00	23.79	1.050	0.143	/
			50	24	Front side	1755	0.142	1.78	23.00	22.73	1.064	0.151	/
			1	49	Back Side	1755	0.218	-2.24	24.00	23.79	1.050	0.229	22
			50	24	Back Side	1755	0.205	3.83	23.00	22.73	1.064	0.218	/
			1	49	Left Side	1755	0.133	3.76	24.00	23.79	1.050	0.140	/
			50	24	Left Side	1755	0.148	-1.27	23.00	22.73	1.064	0.157	/
			1	49	Right Side	1755	0.129	-3.87	24.00	23.79	1.050	0.135	/
			50	24	Right Side	1755	0.121	2.37	23.00	22.73	1.064	0.129	/
			1	49	Bottom Side	1755	0.205	2.07	24.00	23.79	1.050	0.215	/
			50	24	Bottom Side	1755	0.193	3.79	23.00	22.73	1.064	0.205	/

Note:

- The test separation of all above table is 10mm.
- Per KDB 447498 D01 v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg)= Measured SAR(W/kg)*Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.3 Repeated SAR

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)	Meas. No.
WCDMA Band 2	RMC	Right Cheek	1852.4	0.711	0.38	23.00	22.26	0.843	-
		Right Cheek	1880	0.747	-2.39	23.00	22.54	0.830	-
		Right Cheek	1907.6	0.727	0.25	23.00	22.45	0.825	-

12.4 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio	Original Measured SAR 1g(W/kg)	2nd Repeated SAR 1g	Ratio
WCDMA Band 2	RMC	Right Cheek	1852.4	0.712	0.711	1.001	-	-	-
		Right Cheek	1880	0.783	0.747	1.048	-	-	-
		Right Cheek	1907.6	0.736	0.727	1.012	-	-	-



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + 2.4GHz WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN
	6. LTE + Bluetooth
Body	1. GSM + 2.4GHz WLAN
	2. GSM + Bluetooth
	3. WCDMA + 2.4GHz WLAN
	4. WCDMA + Bluetooth
	5. LTE + 2.4GHz WLAN
	6. LTE + Bluetooth

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
4. KDB 447498 D01 v06 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion: a) (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm) $\cdot$ [$\sqrt{f}$ (GHz) /x] W/kg for test separation distances $\leq$ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	3.5	2.239	5	2.441	0.093
	Body	3.5	2.239	10	2.441	0.047



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Head	GSM	0.455	0.576
		2.4G WLAN	0.121	
	Body	GSM	0.454	0.532
		2.4G WLAN	0.078	
GSM + Bluetooth	Head	GSM	0.455	0.548
		Bluetooth	0.093	
	Body	GSM	0.454	0.501
		Bluetooth	0.047	
WCDMA + 2.4G WLAN	Head	WCDMA	0.870	0.991
		2.4G WLAN	0.121	
	Body	WCDMA	0.199	0.277
		2.4G WLAN	0.078	
WCDMA + Bluetooth	Head	WCDMA	0.870	0.963
		Bluetooth	0.093	
	Body	WCDMA	0.199	0.246
		Bluetooth	0.047	
LTE + 2.4G WLAN	Head	LTE	0.581	0.702
		2.4G WLAN	0.121	
	Body	LTE	0.379	0.457
		2.4G WLAN	0.078	
LTE + Bluetooth	Head	LTE	0.581	0.674
		Bluetooth	0.093	
	Body	LTE	0.379	0.426
		Bluetooth	0.047	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
SAR Test System	SATIMO	N/A	V5.3.15.11	N/A	N/A
750MHz Dipole	MVG	SID750	SN 30/14 DIP0C850-331	2023.07.04	2026.07.03
835MHz Dipole	MVG	SID835	SN 30/14 DIP0G835-332	2023.07.04	2026.07.03
1800MHz Dipole	MVG	SID1800	5023-DIP1G800-747	2023.12.20	2026.12.19
1900MHz Dipole	MVG	SID1900	SN 30/14 DIP1G900-333	2023.09.14	2026.09.13
2450MHz Dipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPG0352	2025.09.15	2026.09.14
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2025.09.15	2026.09.14
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	HXT-10-8-SMA	240327017	2025-02-22	2026-02-21
Directional coupler	Xi'an Xingbo	XBOH-OA08-20dB	211123-4-3	2025-02-22	2026-02-21
Network Analyzer	Agilent	E5071C	MY46520378	2025-09-26	2026-09-24
Multi Meter	Keithley	Multi Meter 2000	4050073	2025-09-22	2026-09-21
Signal Generator	Agilent	N5182A	MY50140530	2025-09-26	2026-09-25
Wireless Communication Test Set	Agilent	8960-E5515C	MY48360751	2025-02-22	2026-02-21
Wireless Communication Test Set	R&S	CMW500	156324	2025-09-25	2026-09-24
Power Amplifier	DESAY	WCS-DLNA50M8G50G1	CSKJLNA231227A	2025-09-29	2026-09-28
Power Meter	R&S	NRP	100510	2025-09-25	2026-09-24
Power Sensor	R&S	NRP-Z11	101919	2025-09-25	2026-09-24
Power Sensor	Keysight	U2021XA	MY56280002	2025-09-25	2026-09-24
Temperature hygrometer	TOPRIE	TP502V4-P	6700000124198	2025.10.09	2026.10.08
Thermograph	Elitech	RC-4	S/N EF7176501537	2025.10.17	2026.10.16



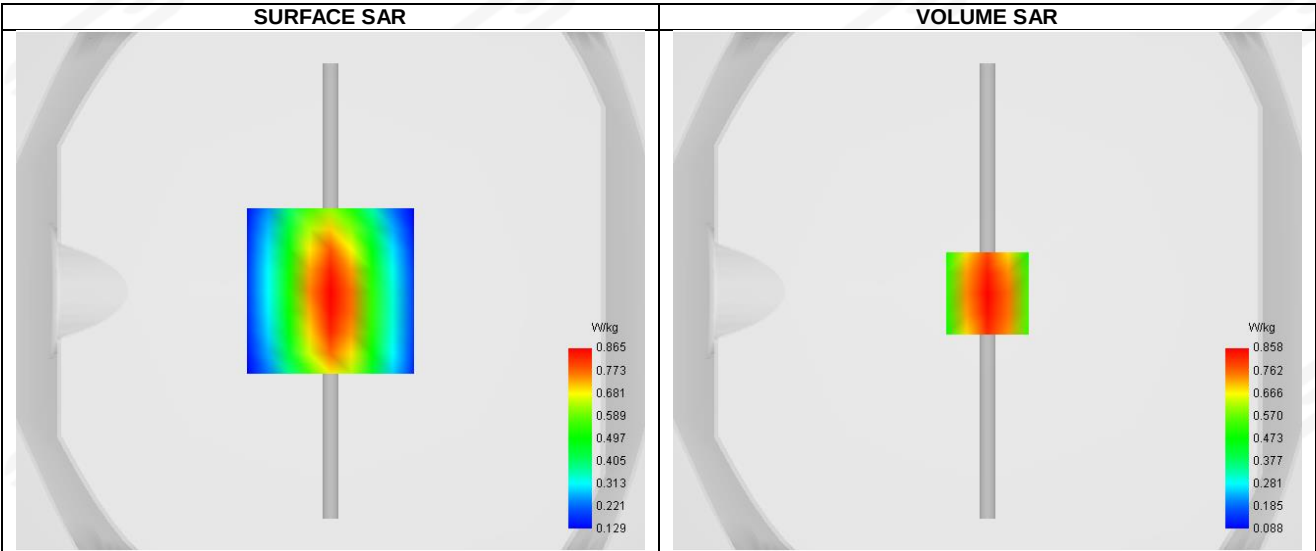
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2026-01-28

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.50
Conductivity (S/m)	0.90
Probe	SN 08/21 EPGO352
ConvF	1.51
Crest factor	1:1



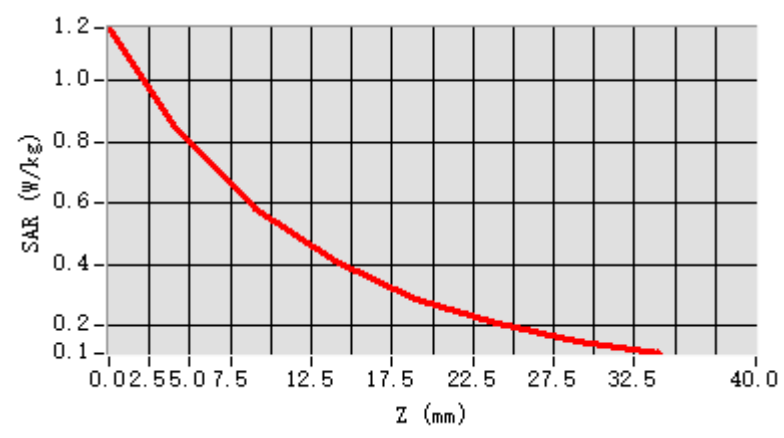
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.17 W/kg

D. SAR 1g & 10g

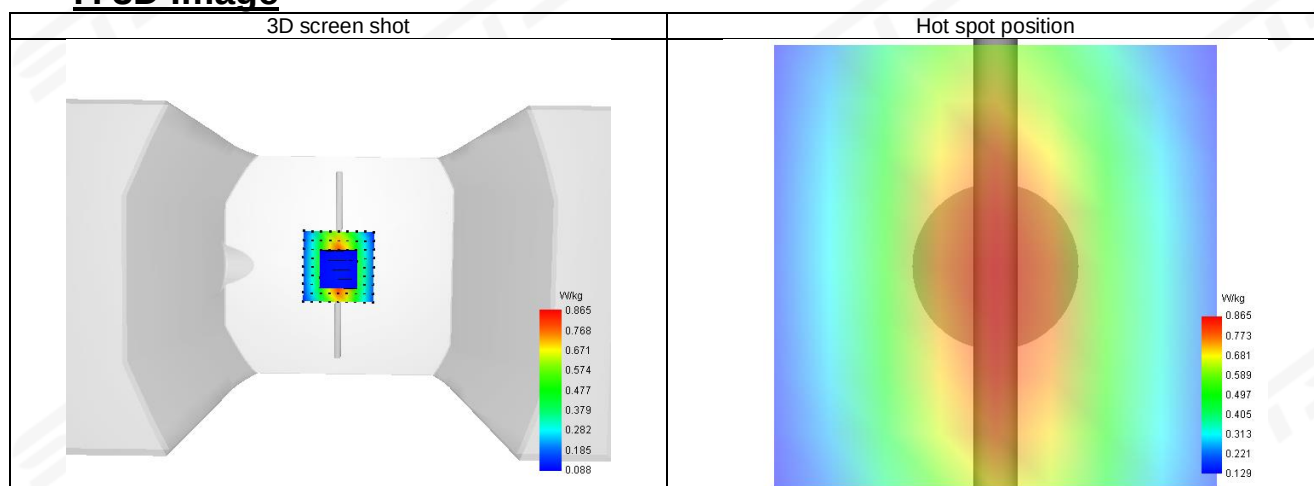
SAR 10g (W/Kg)	0.555
SAR 1g (W/Kg)	0.910
Horizontal validation criteria: minimum distance (mm)	11.231044
Vertical validation criteria: SAR ratio M2/M1 (%)	68.322104

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.173	0.858	0.586	0.410	0.291	0.210	0.152



F. 3D Image





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

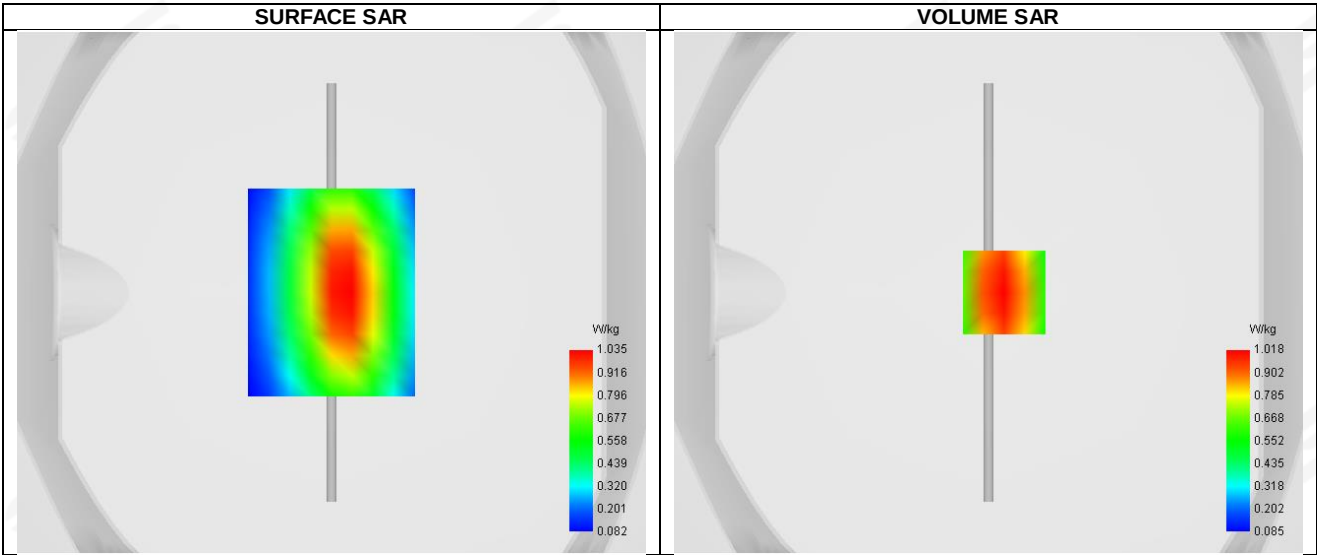
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2026-01-28

Experimental conditions

Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	42.75
Conductivity (S/m)	0.88
Probe	SN 08/21 EPGO352
ConvF	1.49
Crest factor:	1:1



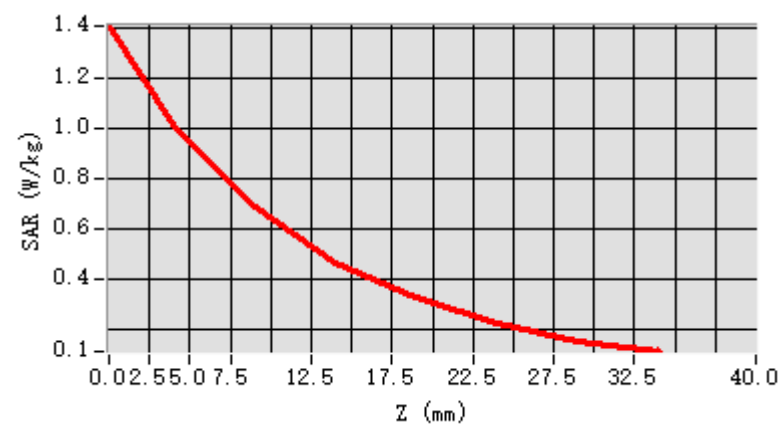
Maximum location: X=6.00, Y=0.00 ; SAR Peak: 1.41 W/kg

D. SAR 1g & 10g

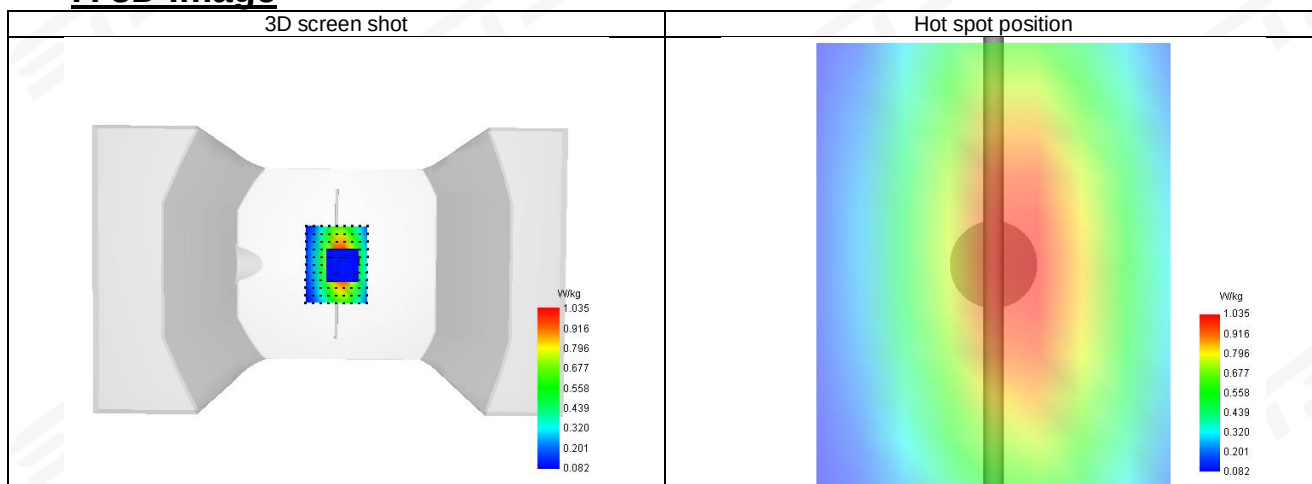
SAR 10g (W/Kg)	0.646
SAR 1g (W/Kg)	0.999
Horizontal validation criteria: minimum distance (mm)	11.212511
Vertical validation criteria: SAR ratio M2/M1 (%)	67.211014

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.411	1.018	0.685	0.466	0.327	0.225	0.155



F. 3D Image



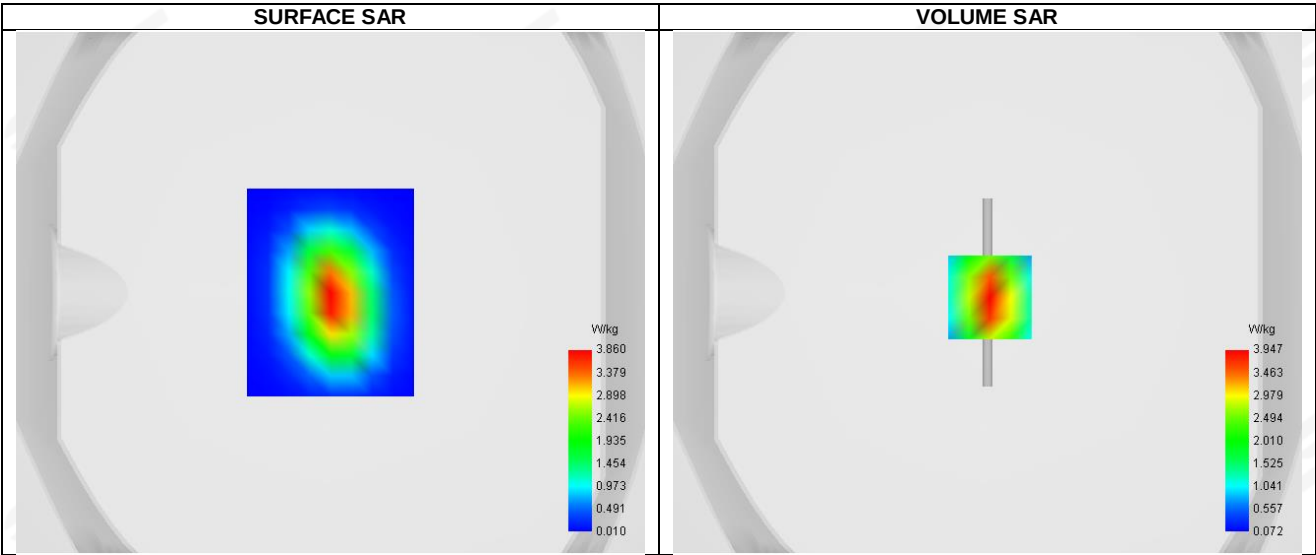


System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2026-01-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.76
Conductivity (S/m)	1.39
Probe	SN 08/21 EPGO352
ConvF	1.54
Crest factor:	1:1



Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 6.18 W/kg

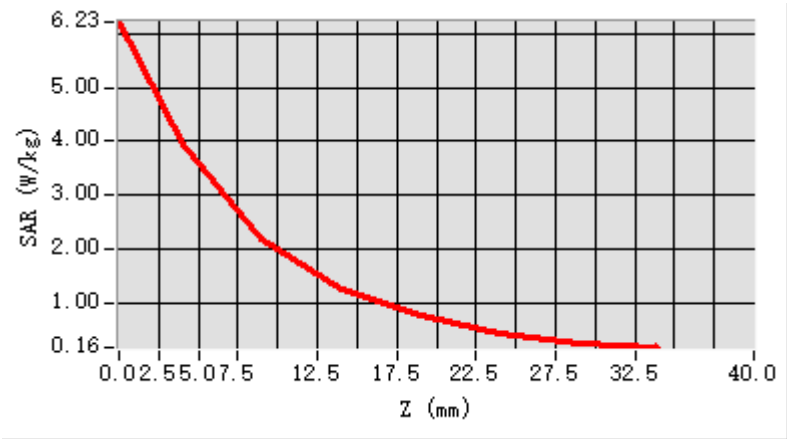
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.055
SAR 1g (W/Kg)	3.726
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	55.686976

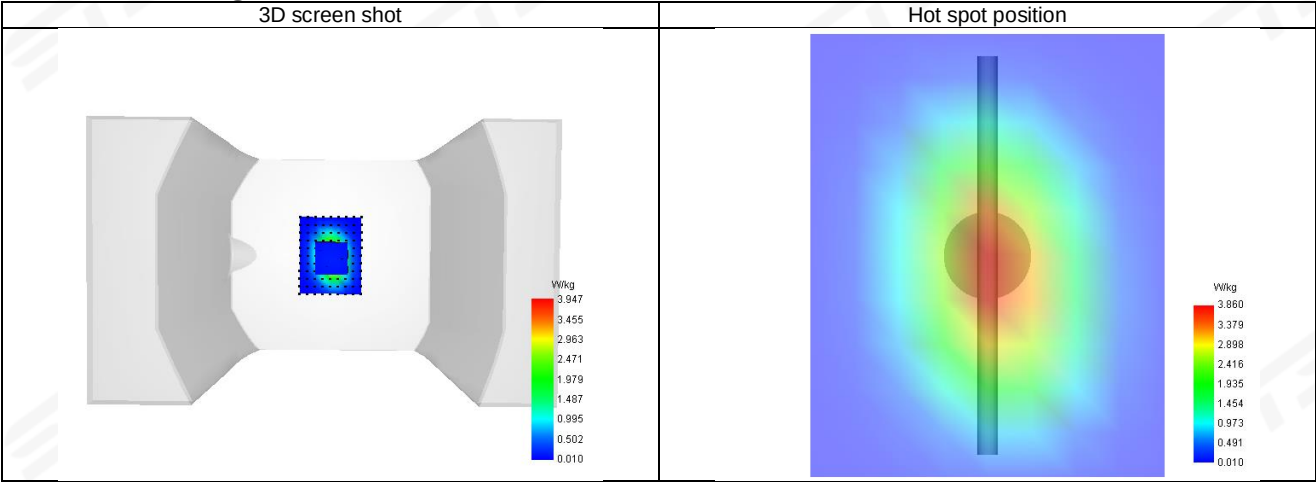


E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.227	3.947	2.198	1.258	0.745	0.429	0.247



F. 3D Image



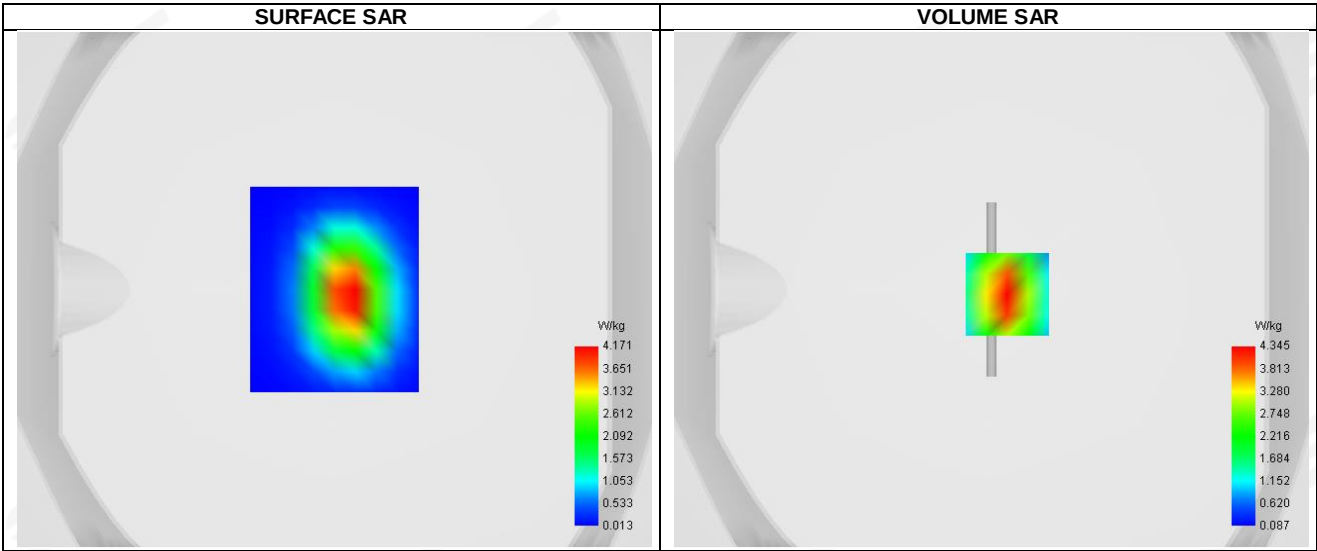


System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2026-01-30

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	40.06
Conductivity (S/m)	1.41
Probe	SN 08/21 EPGO352
ConvF	1.73
Crest factor:	1:1



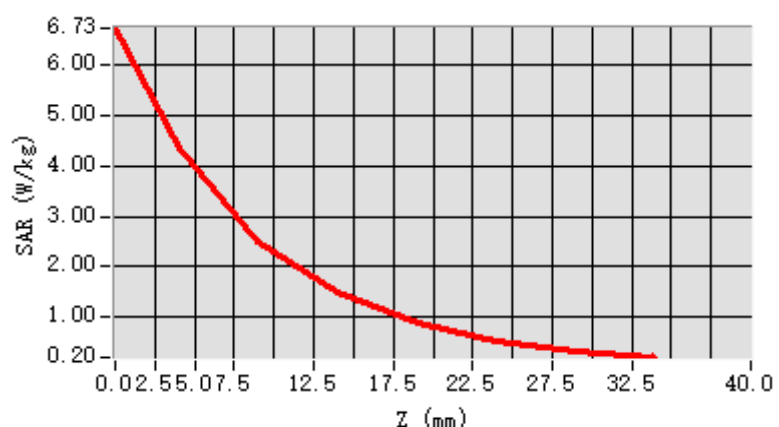
Maximum location: X=6.00, Y=-2.00 ; SAR Peak: 6.69 W/kg

D. SAR 1g & 10g

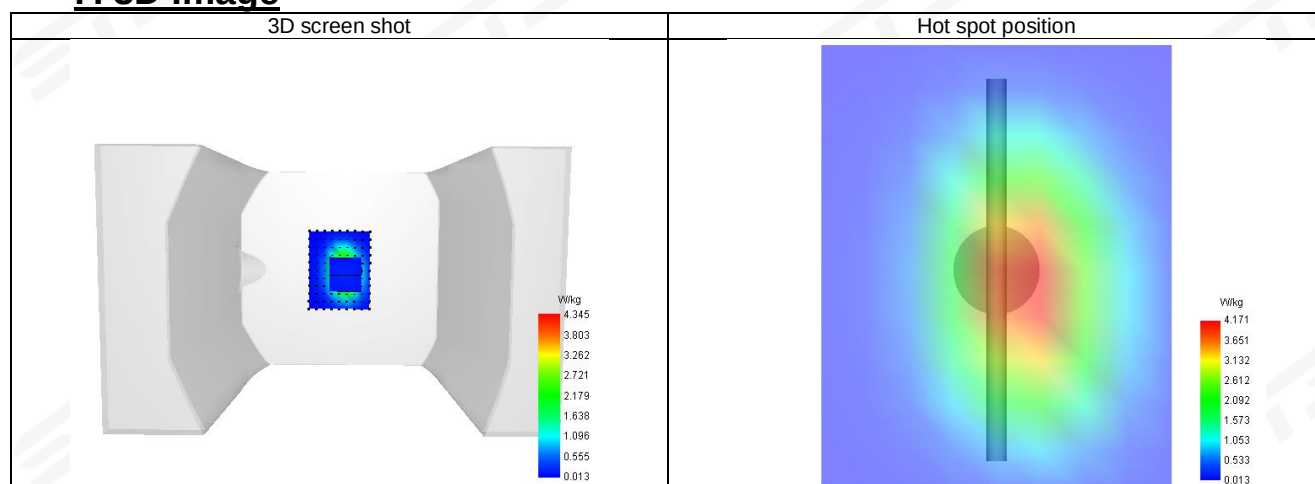
SAR 10g (W/Kg)	1.983
SAR 1g (W/Kg)	3.940
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.217740

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.734	4.345	2.486	1.481	0.894	0.530	0.315



F. 3D Image



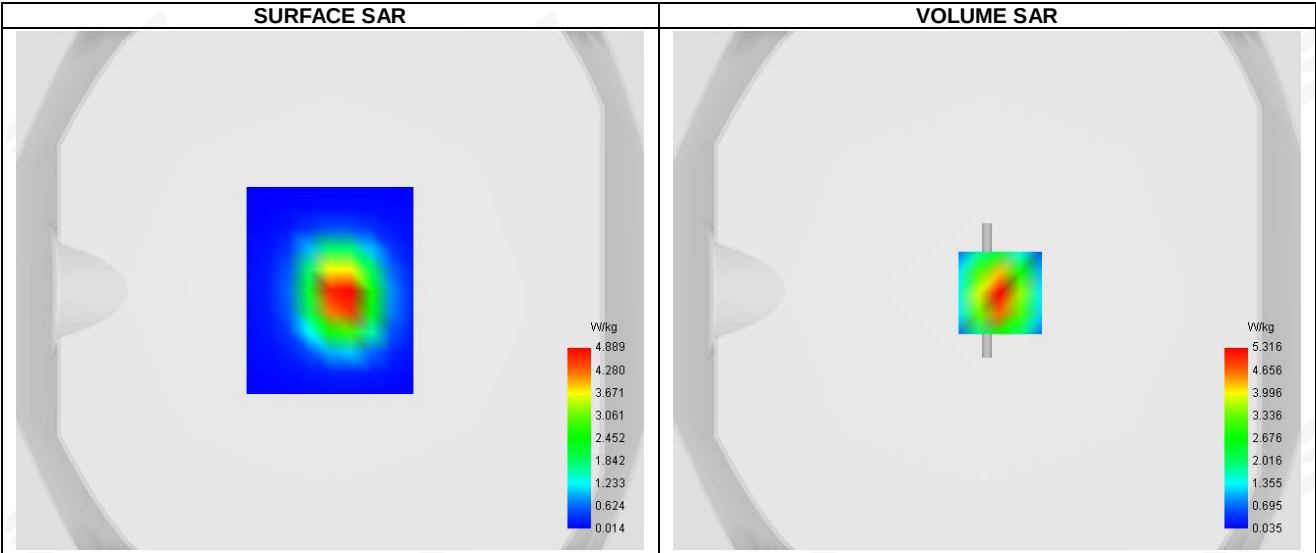


System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	39.07
Conductivity (S/m)	1.80
Probe	SN 08/21 EPGO352
ConvF	1.82
Crest factor:	1:1



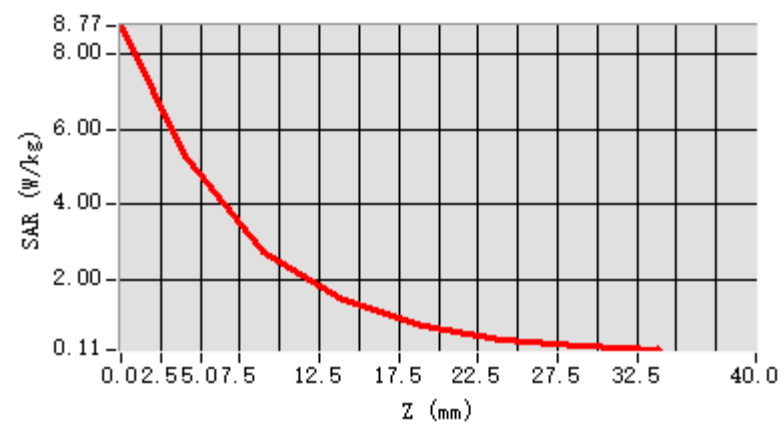
Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 8.72 W/kg

D. SAR 1g & 10g

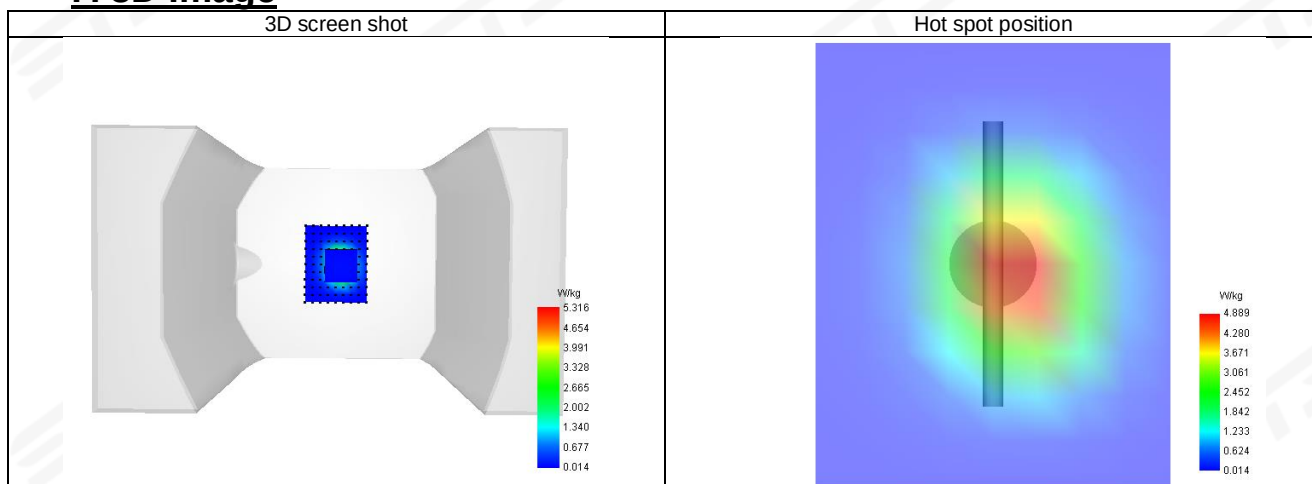
SAR 10g (W/Kg)	2.398
SAR 1g (W/Kg)	5.392
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	52.967234

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	8.769	5.316	2.717	1.425	0.740	0.384	0.199



F. 3D Image



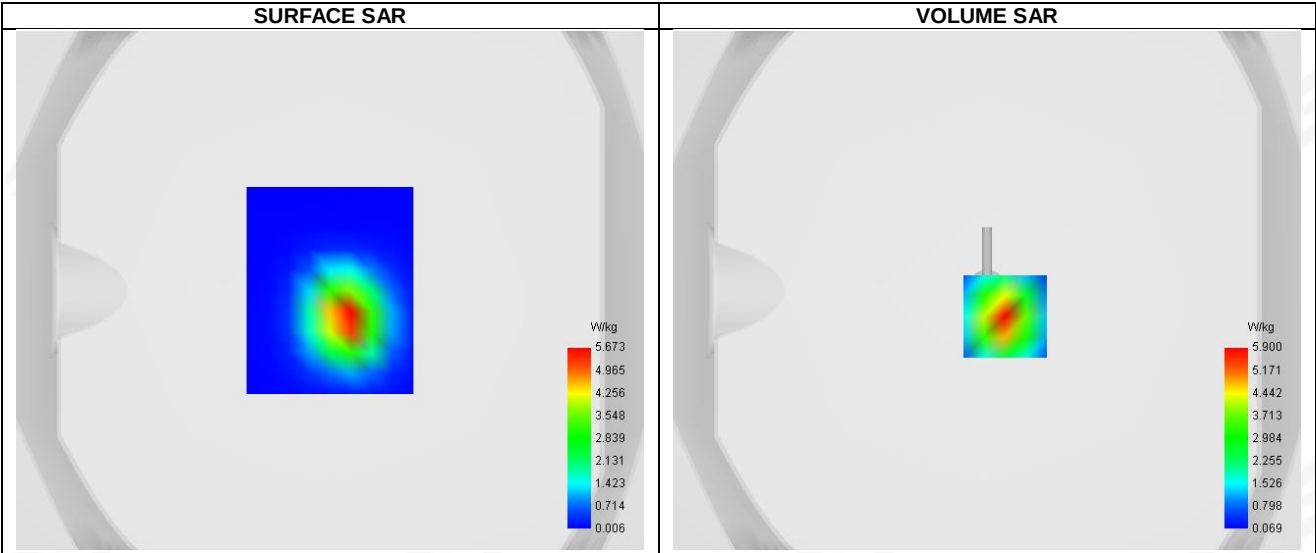


System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2026-01-24

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	38.98
Conductivity (S/m)	1.99
Probe	SN 08/21 EPGO352
ConvF	1.70
Crest factor:	1:1



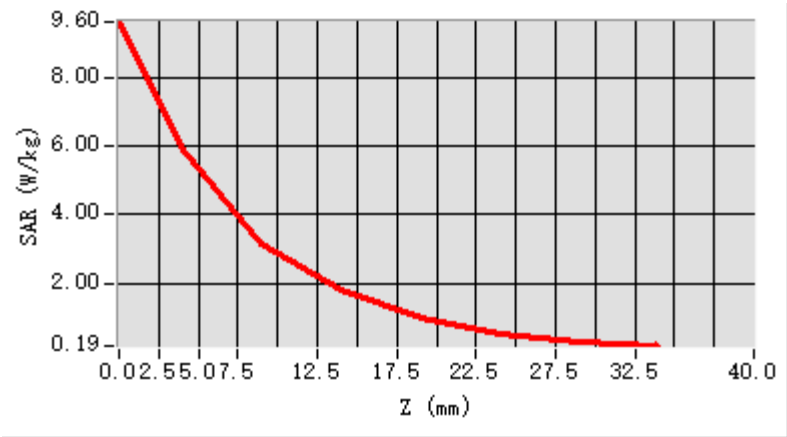
Maximum location: X=7.00, Y=-10.00 ; SAR Peak: 9.51 W/kg

D. SAR 1g & 10g

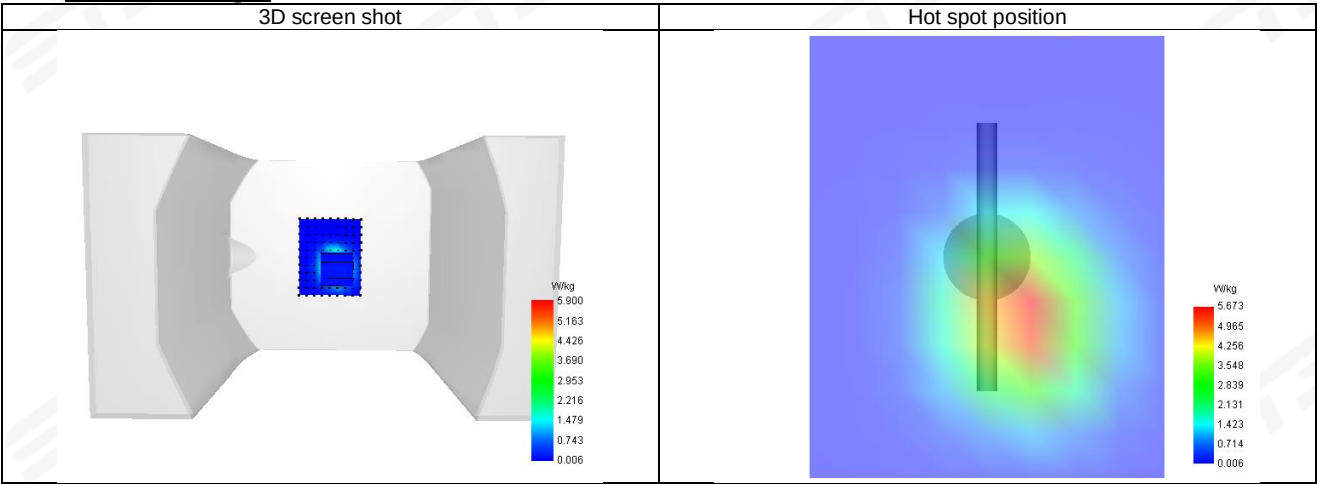
SAR 10g (W/Kg)	2.386
SAR 1g (W/Kg)	5.572
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	52.991264

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.599	5.900	3.126	1.811	1.012	0.565	0.316



F. 3D Image

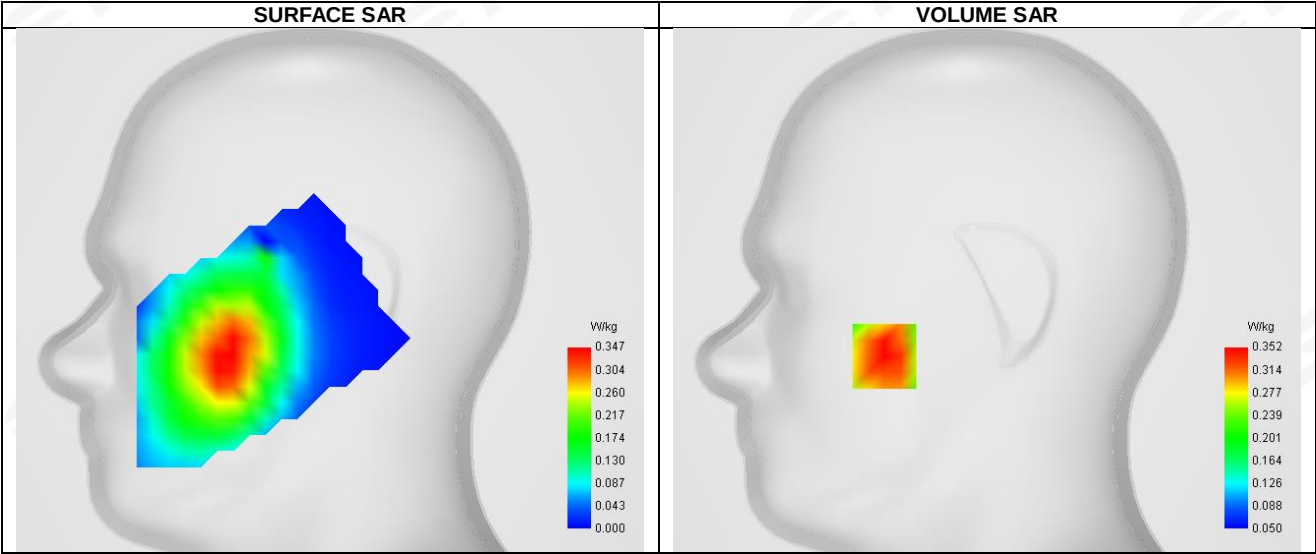




Appendix B. SAR Test Plots

Plot 1: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.54
Conductivity (S/m)	0.90



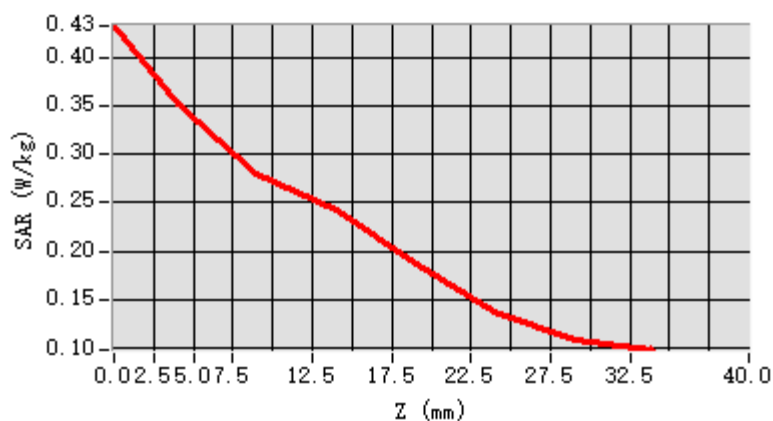
Maximum location: X=-51.00, Y=-33.00 ; SAR Peak: 0.45 W/kg

D. SAR 1g & 10g

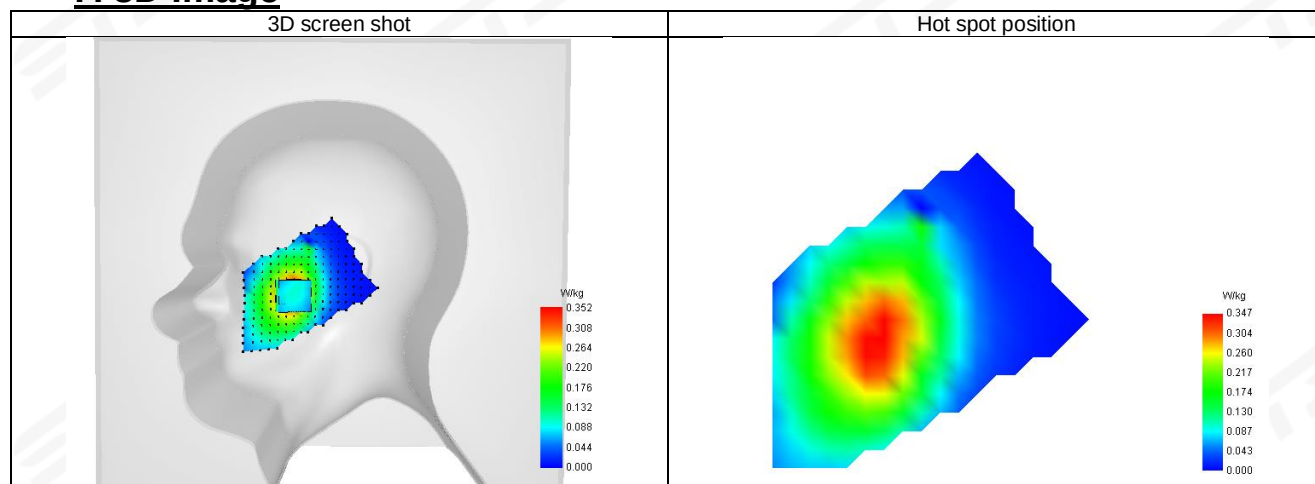
SAR 10g (W/Kg)	0.256
SAR 1g (W/Kg)	0.349
Horizontal validation criteria: minimum distance (mm)	11.321115
Vertical validation criteria: SAR ratio M2/M1 (%)	77.622100

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.432	0.352	0.280	0.243	0.187	0.138	0.109



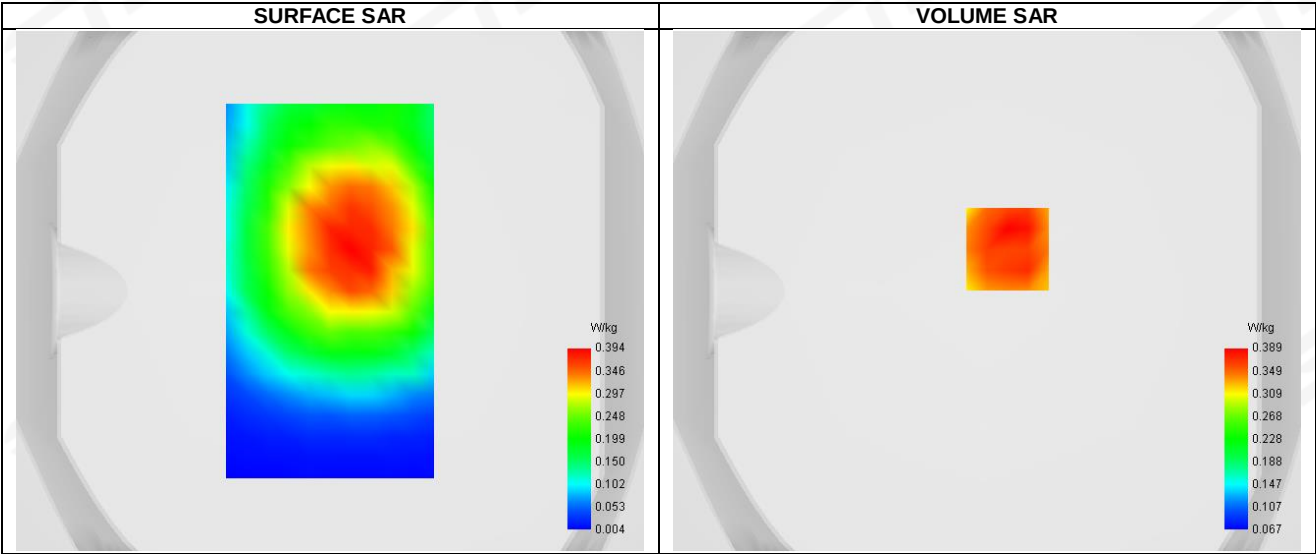
F. 3D Image





Plot 2: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 850
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	848.8
Relative permittivity (real part)	41.54
Conductivity (S/m)	0.90



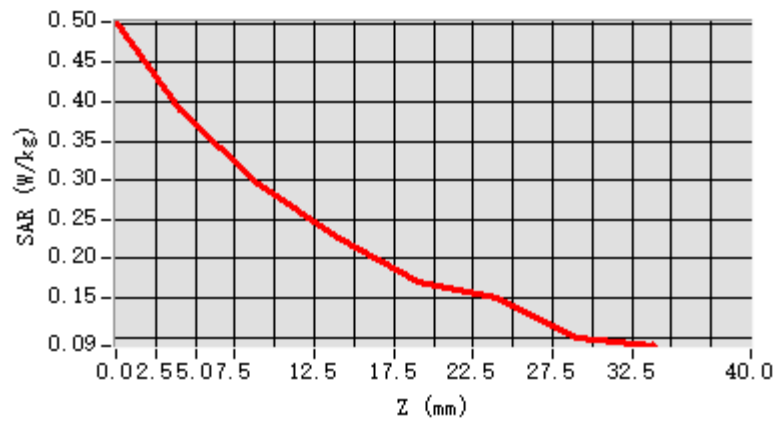
Maximum location: X=8.00, Y=16.00 ; SAR Peak: 0.76 W/kg

D. SAR 1g & 10g

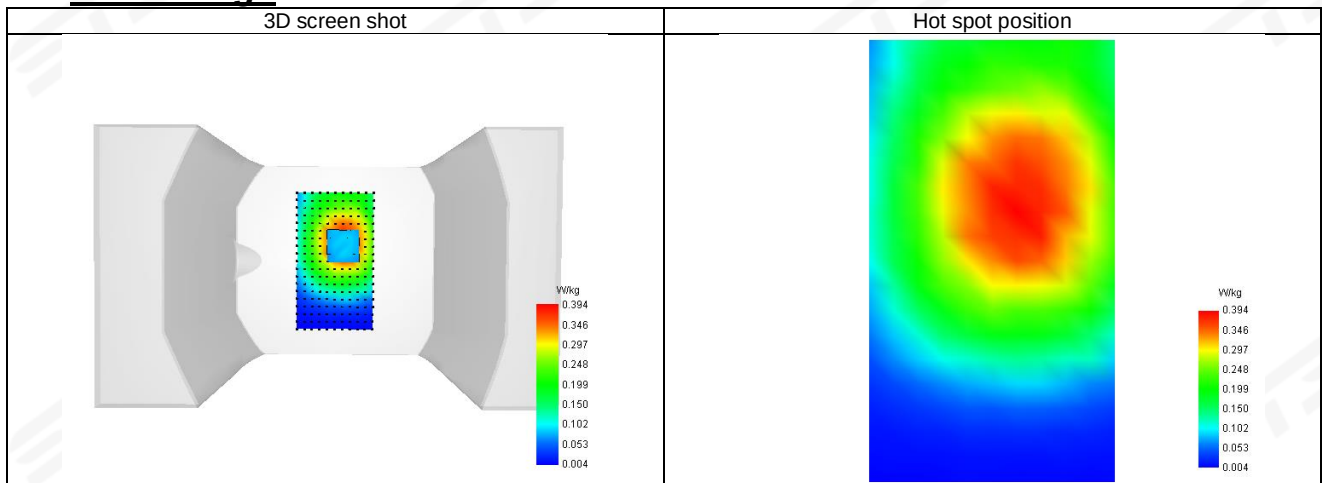
SAR 10g (W/Kg)	0.270
SAR 1g (W/Kg)	0.431
Horizontal validation criteria: minimum distance (mm)	10.211450
Vertical validation criteria: SAR ratio M2/M1 (%)	71.621104

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.502	0.389	0.296	0.228	0.170	0.149	0.098



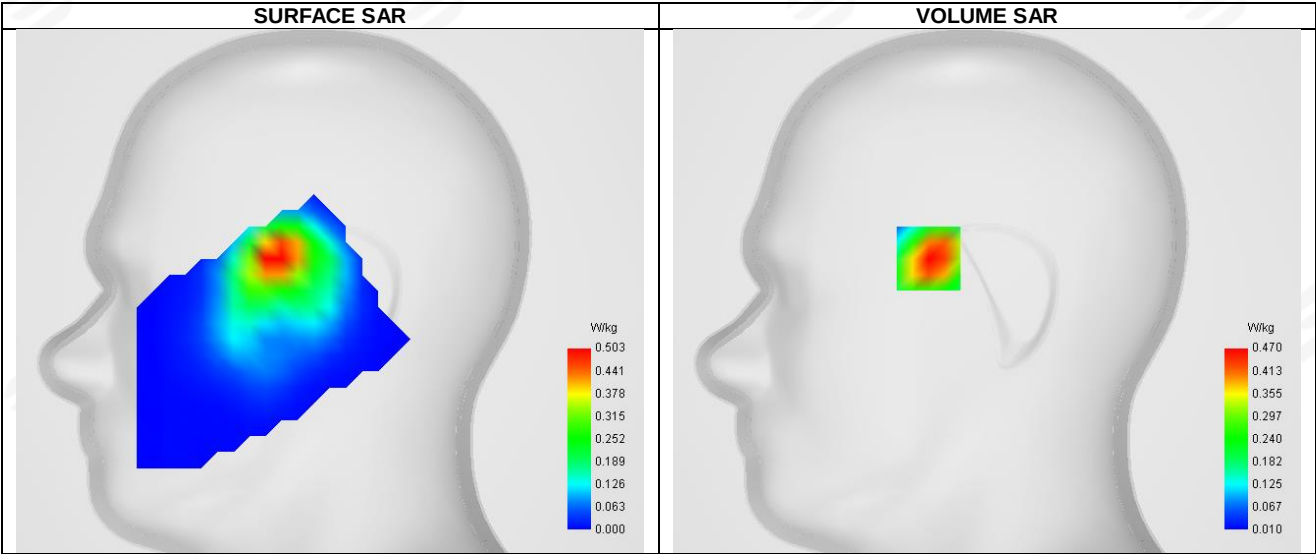
F. 3D Image





Plot 3: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39

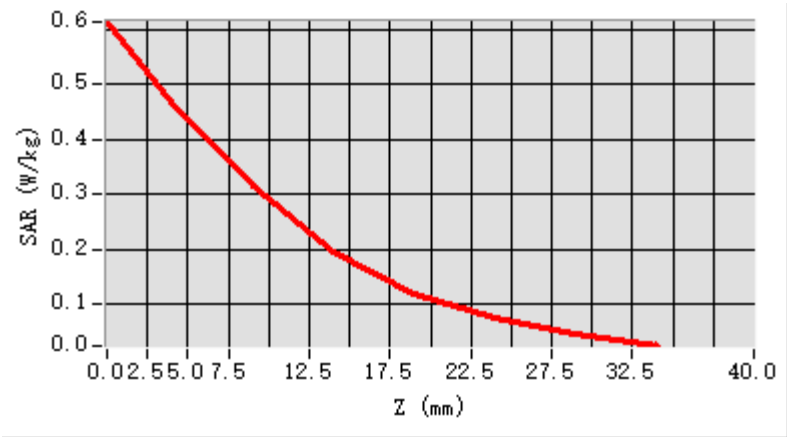


D. SAR 1g & 10g

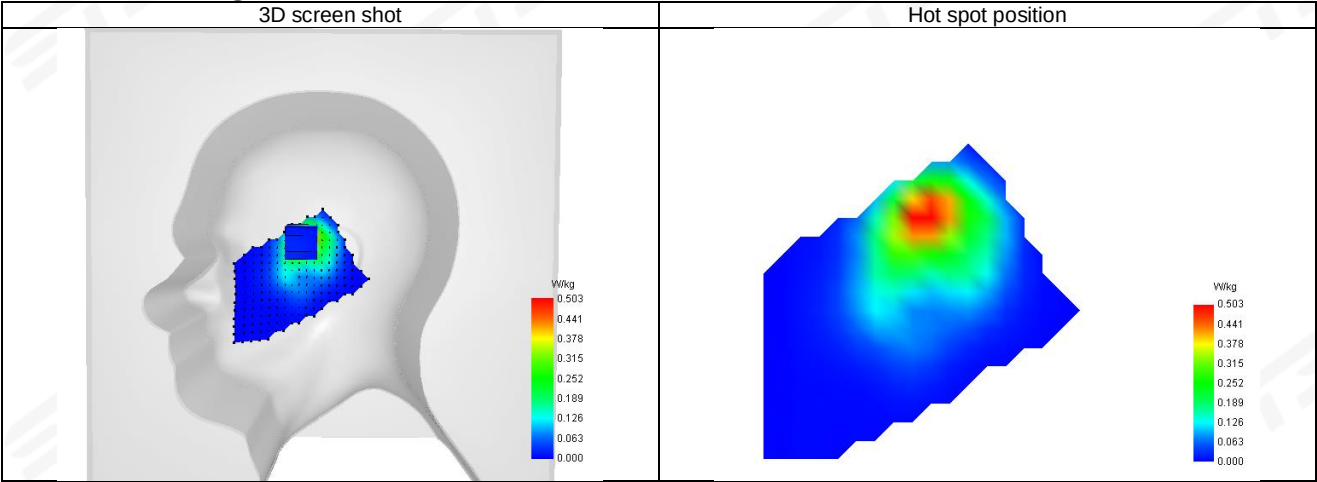
SAR 10g (W/Kg)	0.252
SAR 1g (W/Kg)	0.439
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	67.329659

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.614	0.470	0.317	0.195	0.117	0.073	0.045



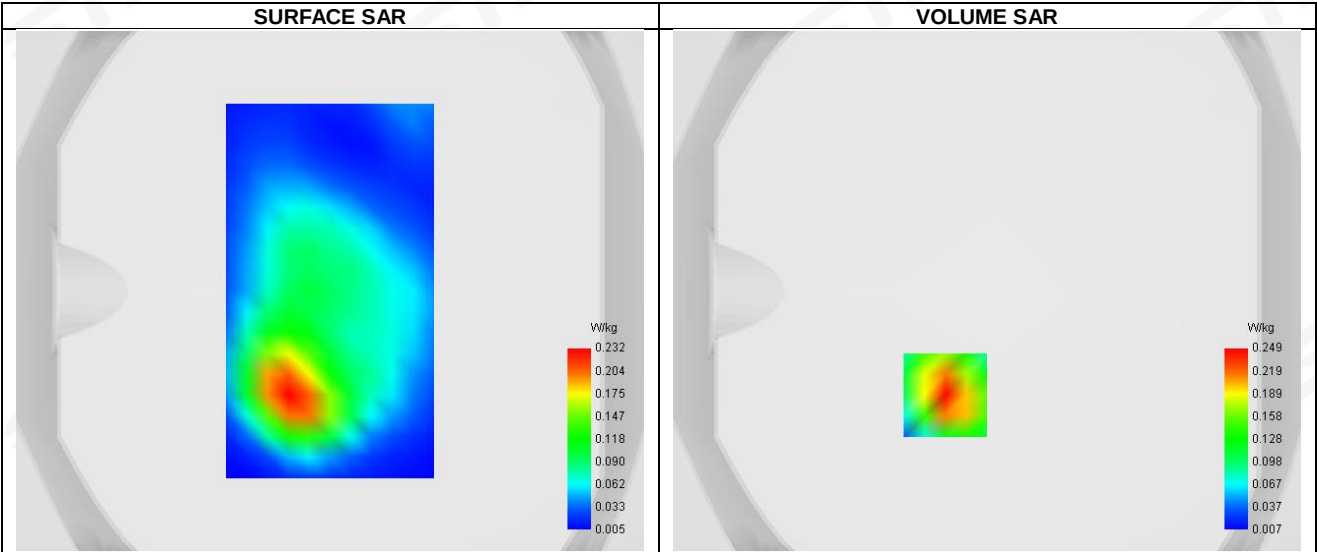
F. 3D Image





Plot 4: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39



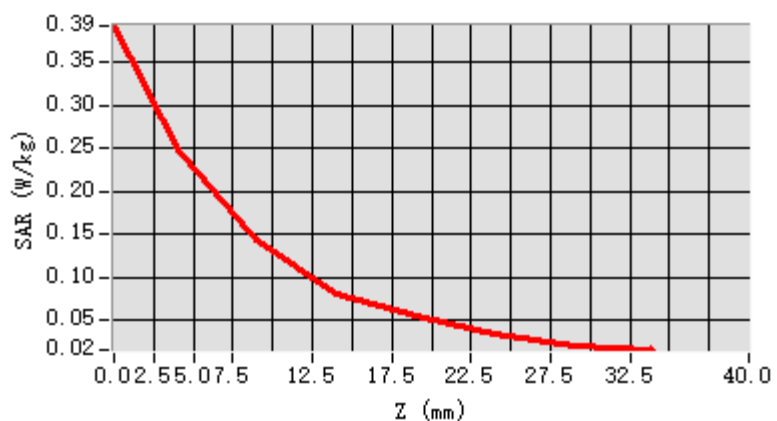
Maximum location: X=-16.00, Y=-40.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

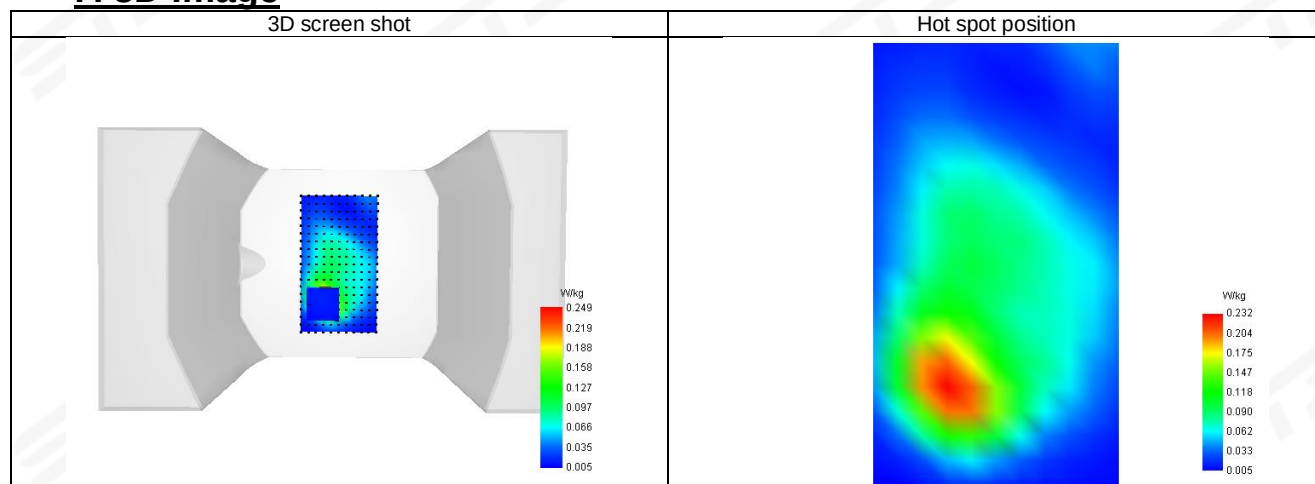
SAR 10g (W/Kg)	0.125
SAR 1g (W/Kg)	0.234
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.508479

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.393	0.249	0.143	0.082	0.055	0.034	0.021

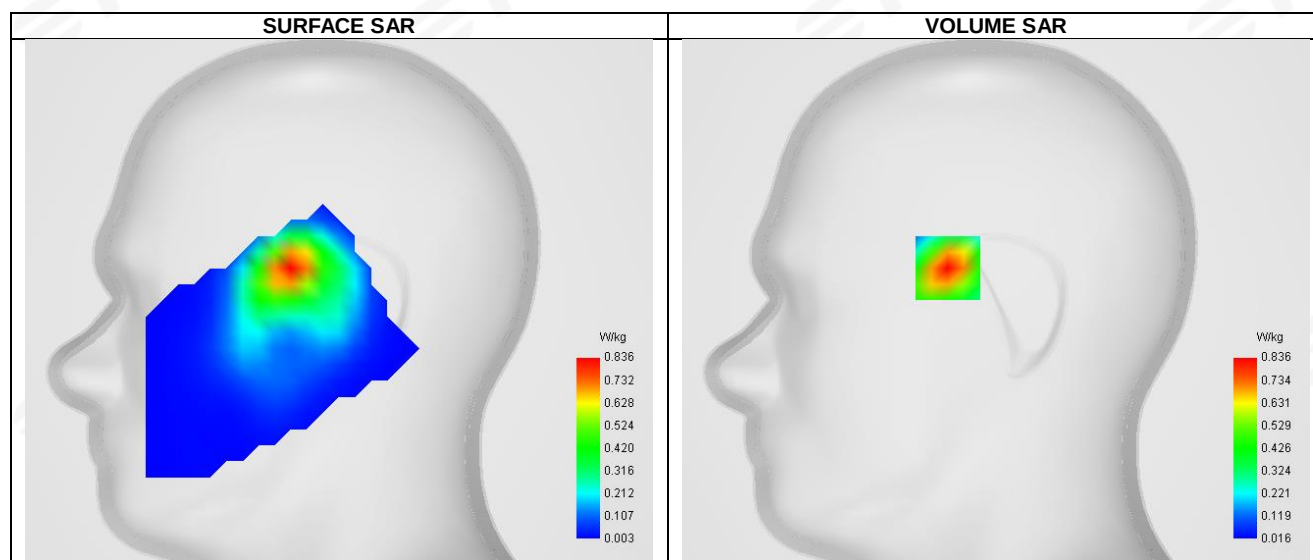


F. 3D Image



Plot 5: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA 2
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39



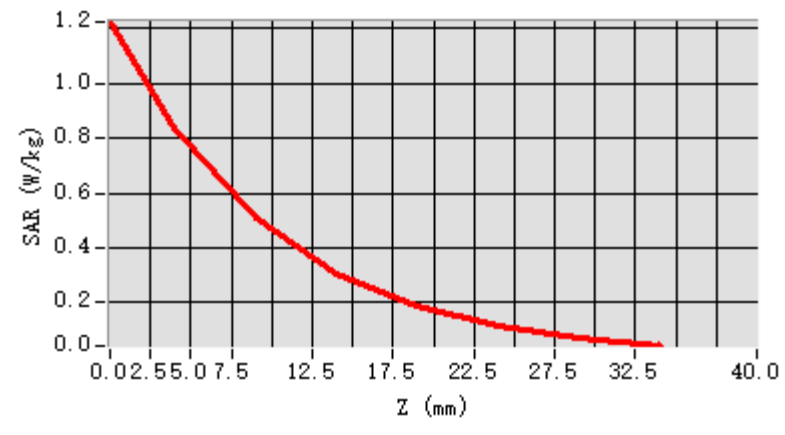
Maximum location: X=-24.00, Y=16.00 ; SAR Peak: 1.27 W/kg

D. SAR 1g & 10g

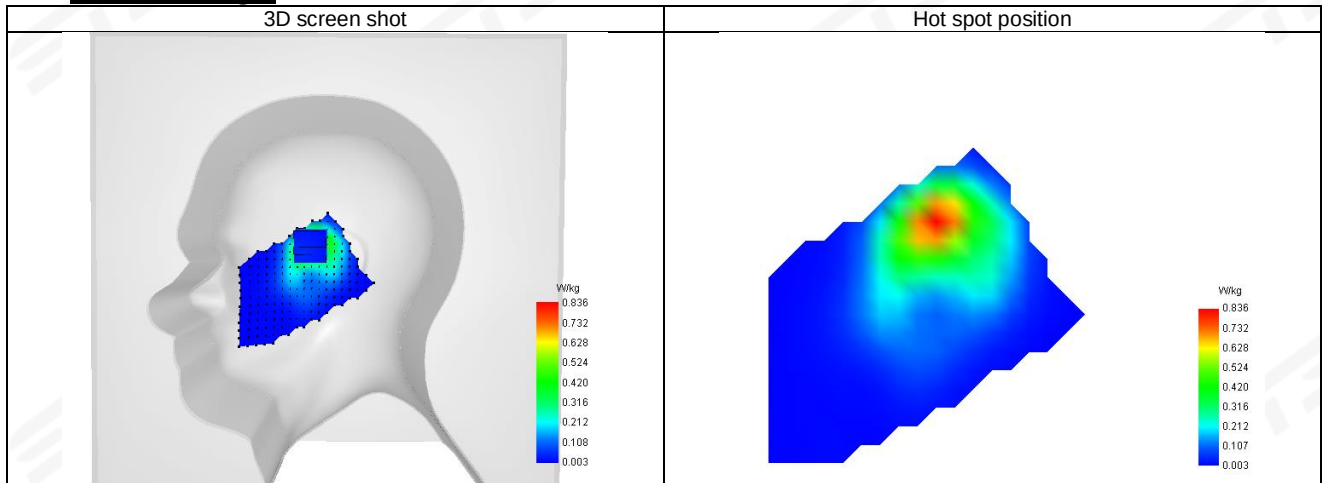
SAR 10g (W/Kg)	0.427
SAR 1g (W/Kg)	0.783
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.982630

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.226	0.836	0.510	0.303	0.186	0.113	0.068



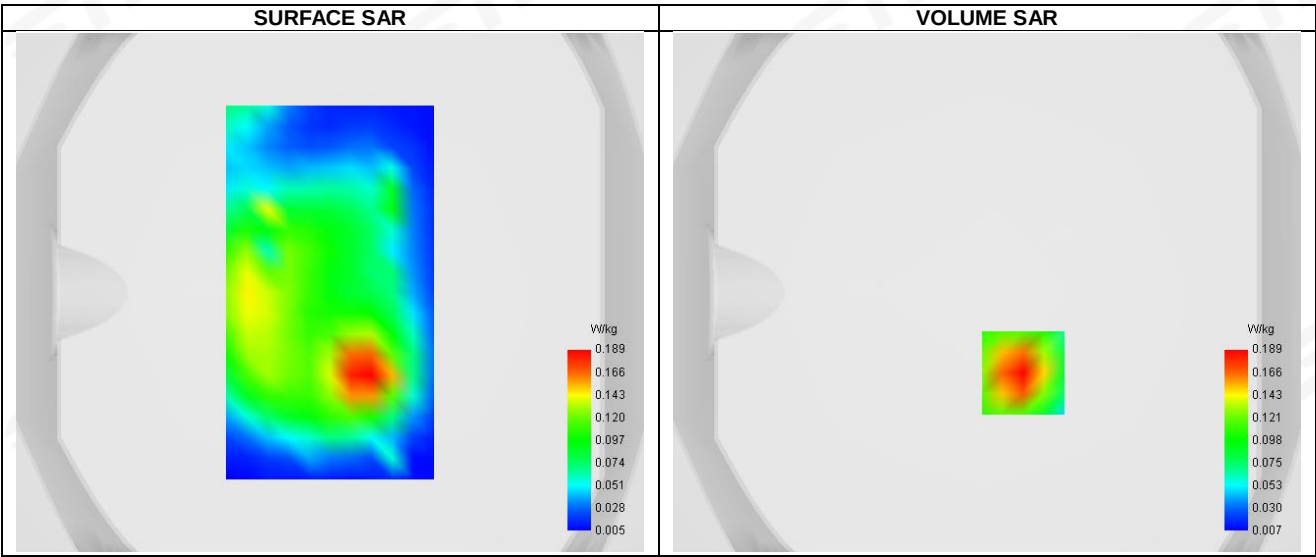
F. 3D Image





Plot 6: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA 2
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39



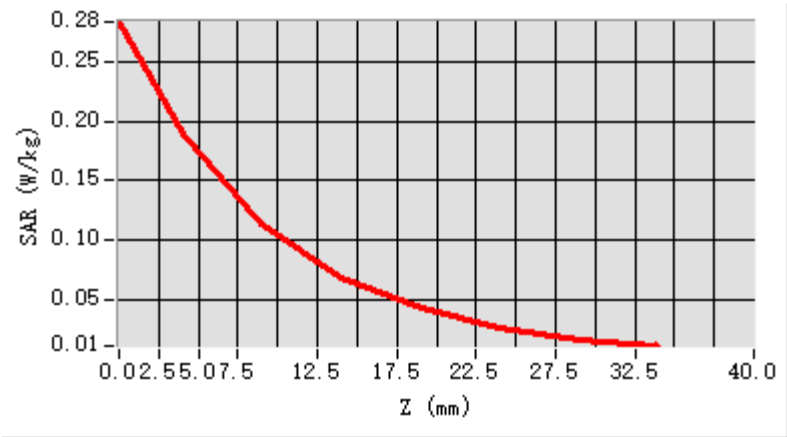
Maximum location: X=14.00, Y=-31.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

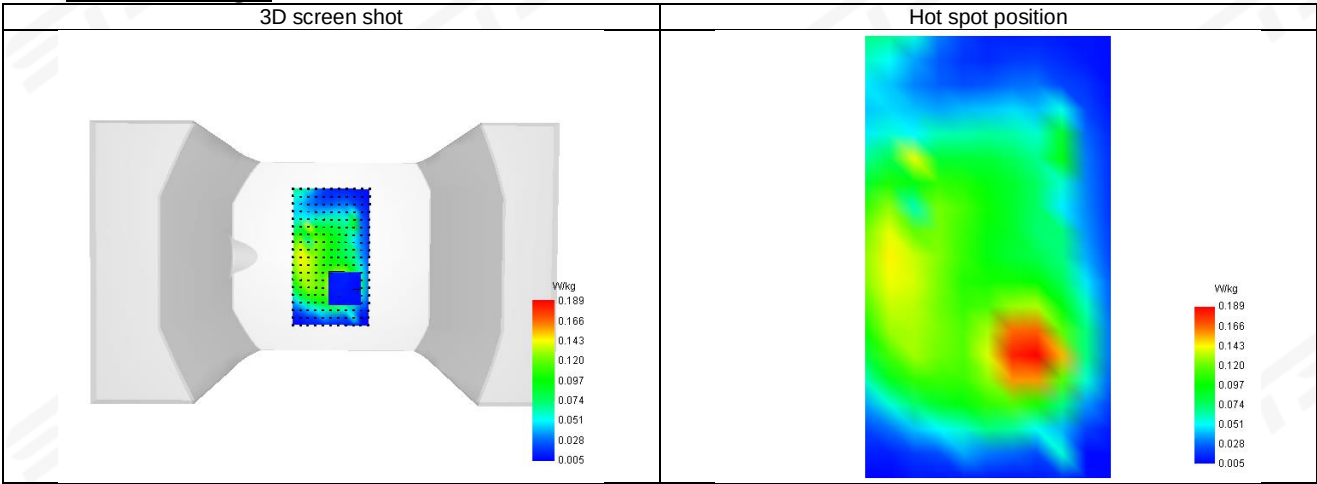
SAR 10g (W/Kg)	0.101
SAR 1g (W/Kg)	0.179
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.811969

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.284	0.189	0.113	0.068	0.043	0.026	0.016



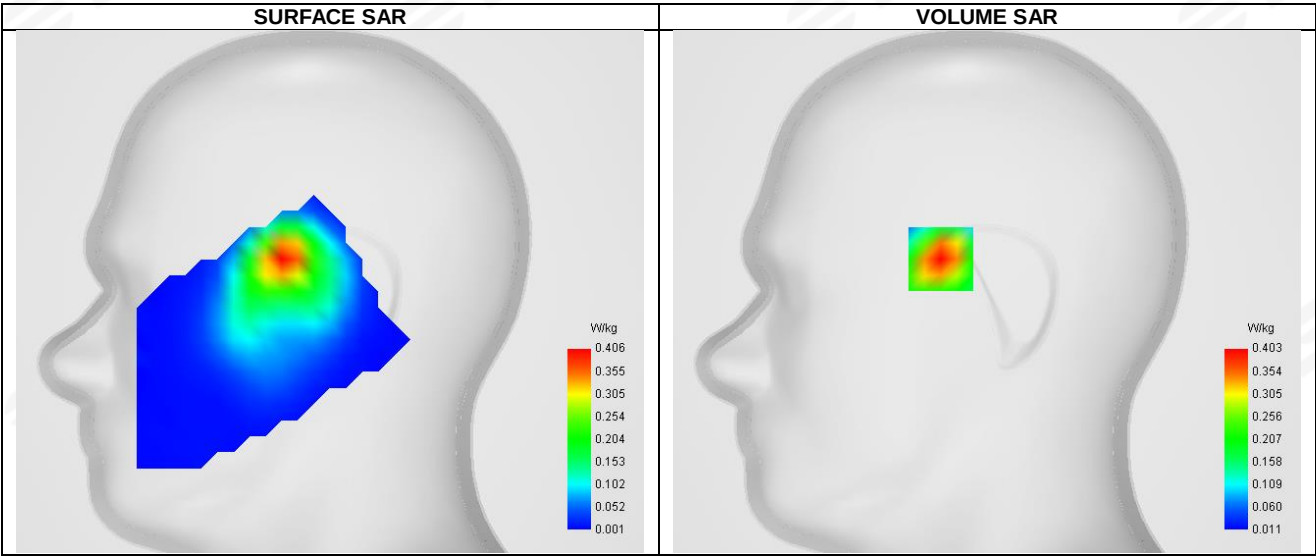
F. 3D Image





Plot 7: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-29
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	39.51
Conductivity (S/m)	1.36



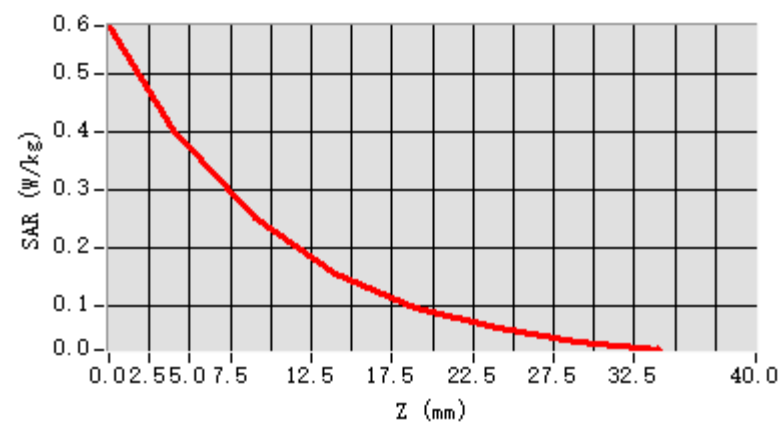
Maximum location: X=-23.00, Y=16.00 ; SAR Peak: 0.61 W/kg

D. SAR 1g & 10g

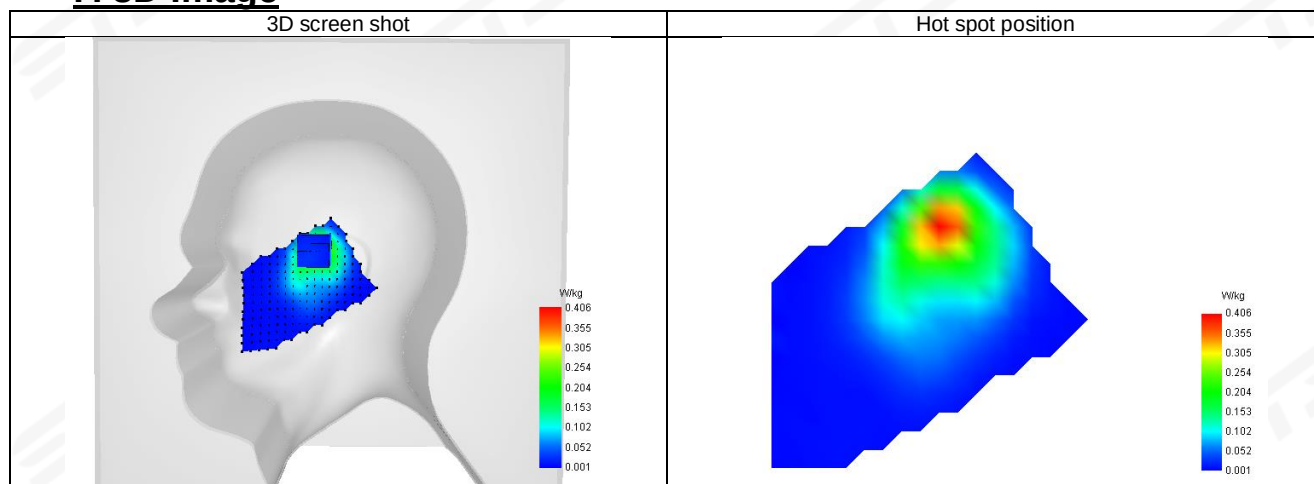
SAR 10g (W/Kg)	0.210
SAR 1g (W/Kg)	0.379
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.304928

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.584	0.403	0.251	0.154	0.098	0.061	0.038



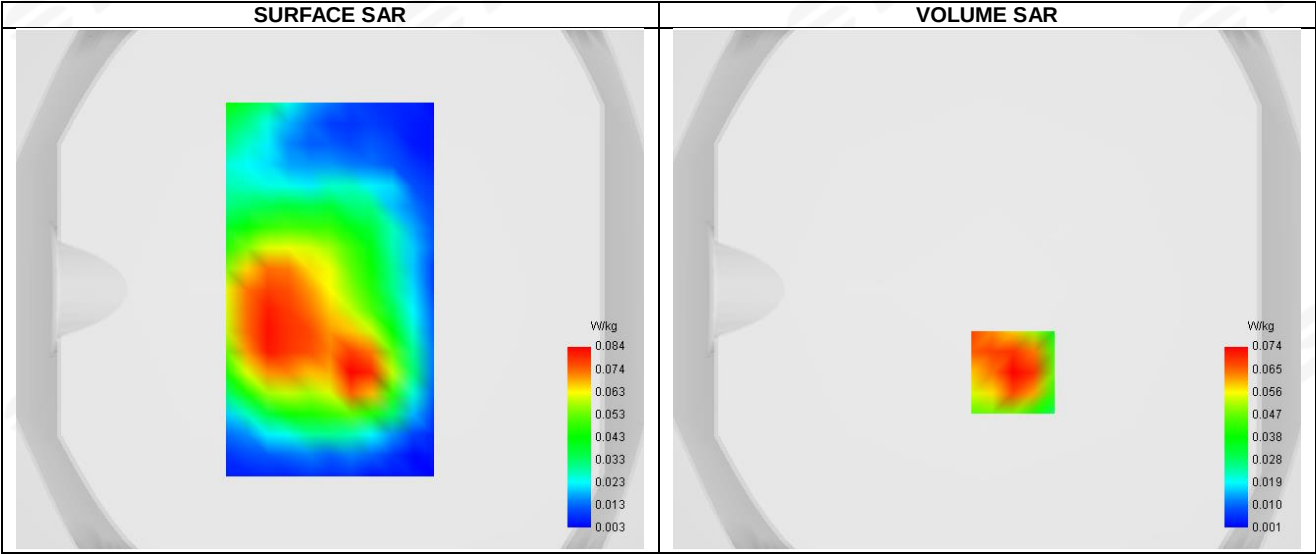
F. 3D Image





Plot 8: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-29
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA 4
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1752.4
Relative permittivity (real part)	39.51
Conductivity (S/m)	1.36



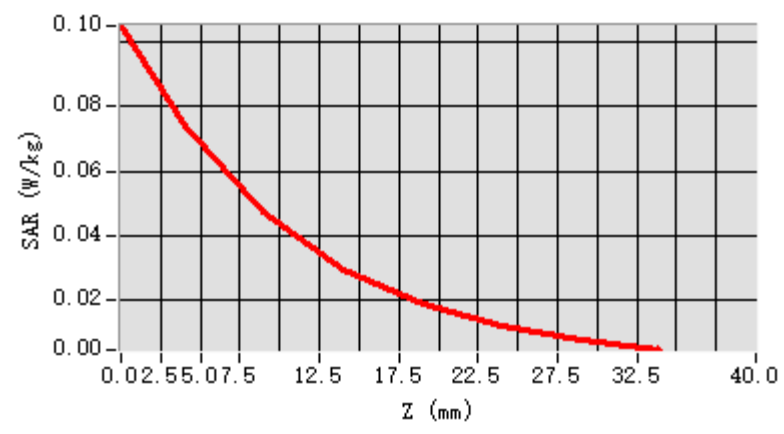
Maximum location: X=10.00, Y=-32.00 ; SAR Peak: 0.11 W/kg

D. SAR 1g & 10g

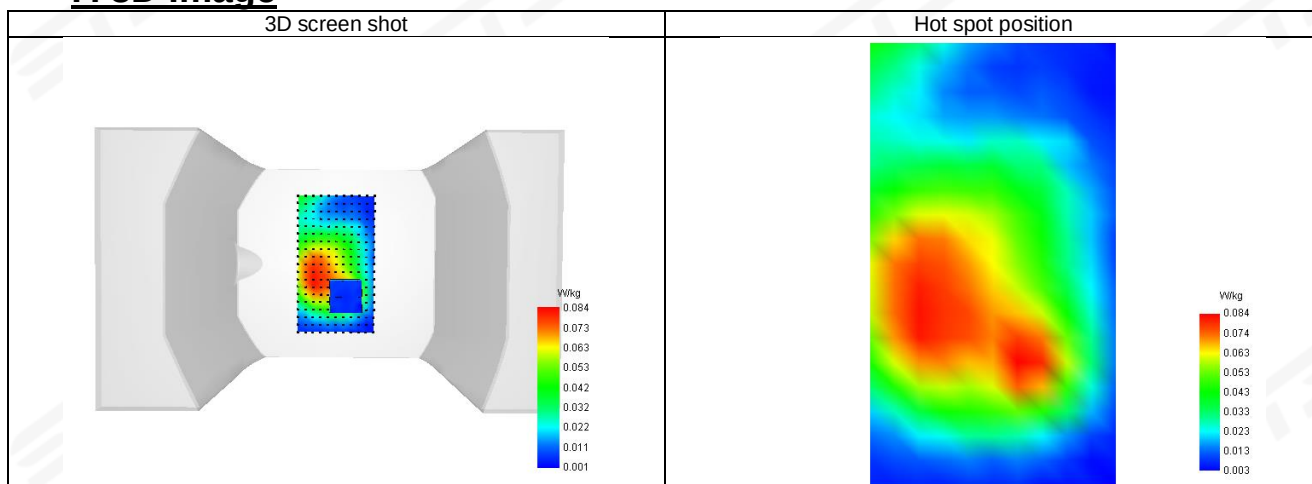
SAR 10g (W/Kg)	0.037
SAR 1g (W/Kg)	0.072
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	63.758002

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.105	0.074	0.047	0.030	0.019	0.012	0.007

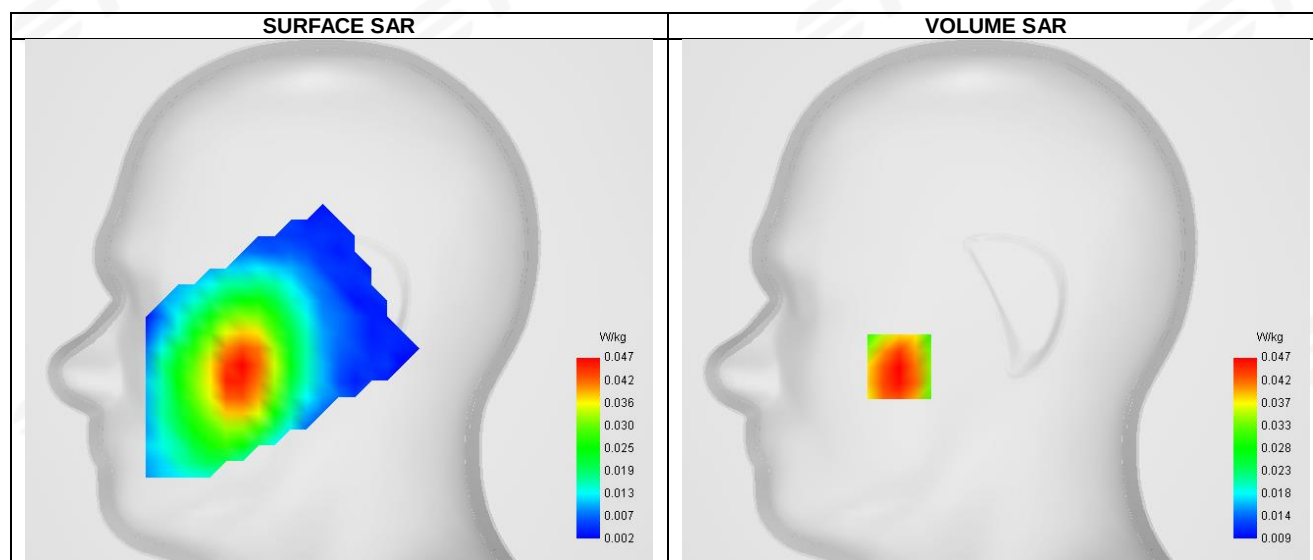


F. 3D Image



Plot 9: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPG0352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.31
Conductivity (S/m)	0.90



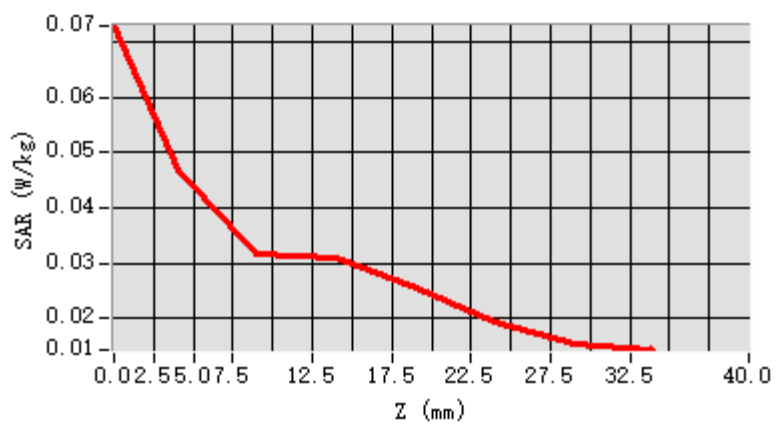
Maximum location: X=-48.00, Y=-33.00 ; SAR Peak: 0.07 W/kg

D. SAR 1g & 10g

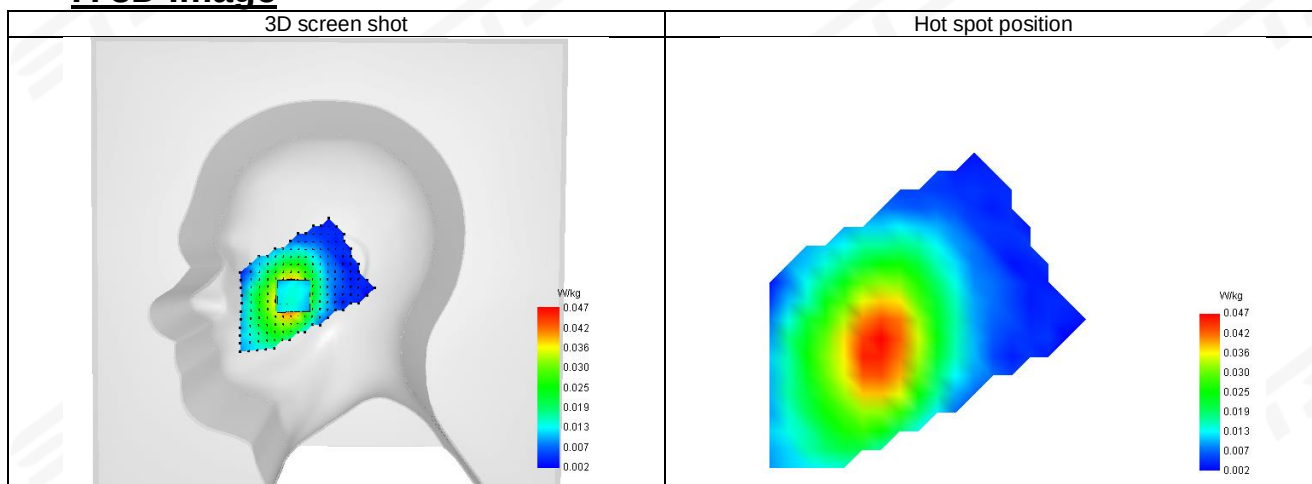
SAR 10g (W/Kg)	0.033
SAR 1g (W/Kg)	0.047
Horizontal validation criteria: minimum distance (mm)	10.250140
Vertical validation criteria: SAR ratio M2/M1 (%)	69.661451

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.073	0.047	0.032	0.031	0.026	0.019	0.016



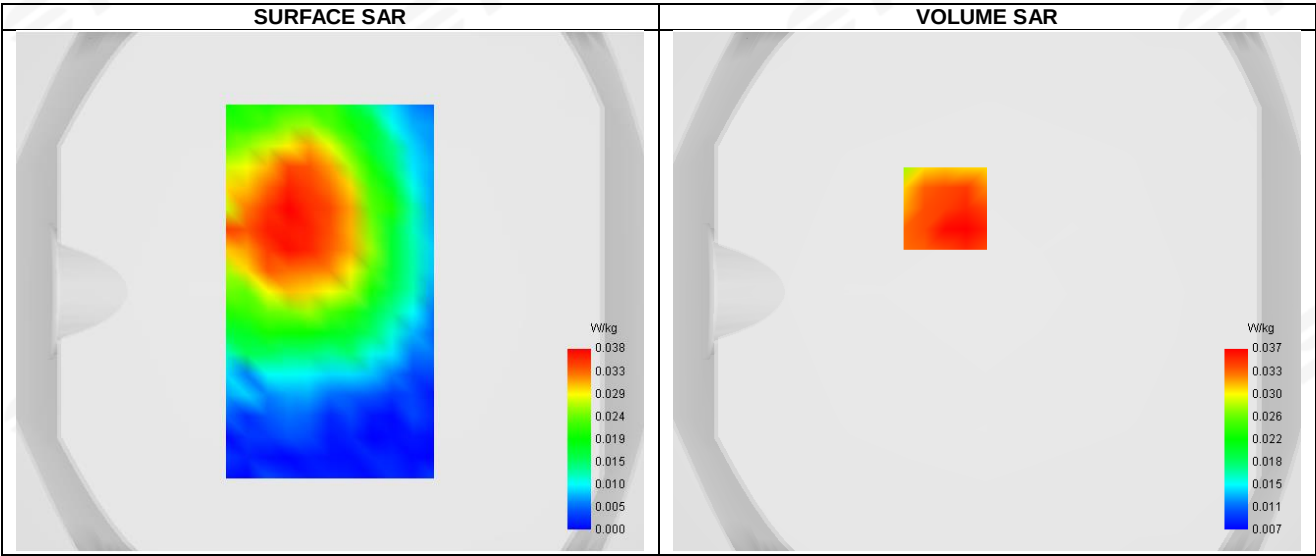
F. 3D Image





Plot 10: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	WCDMA 5
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	42.31
Conductivity (S/m)	0.90

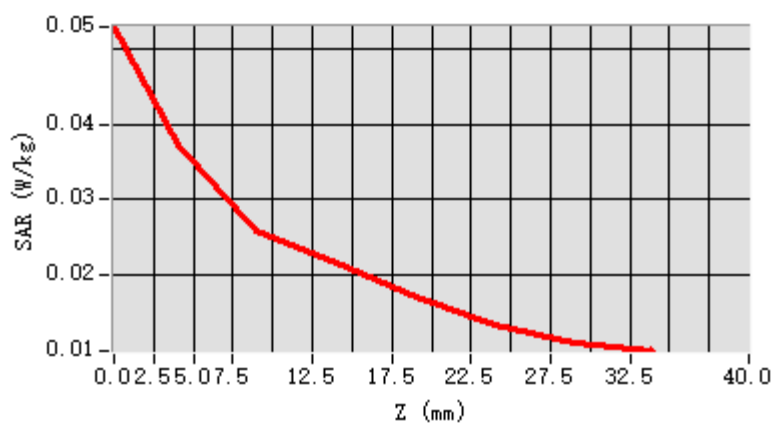


D. SAR 1g & 10g

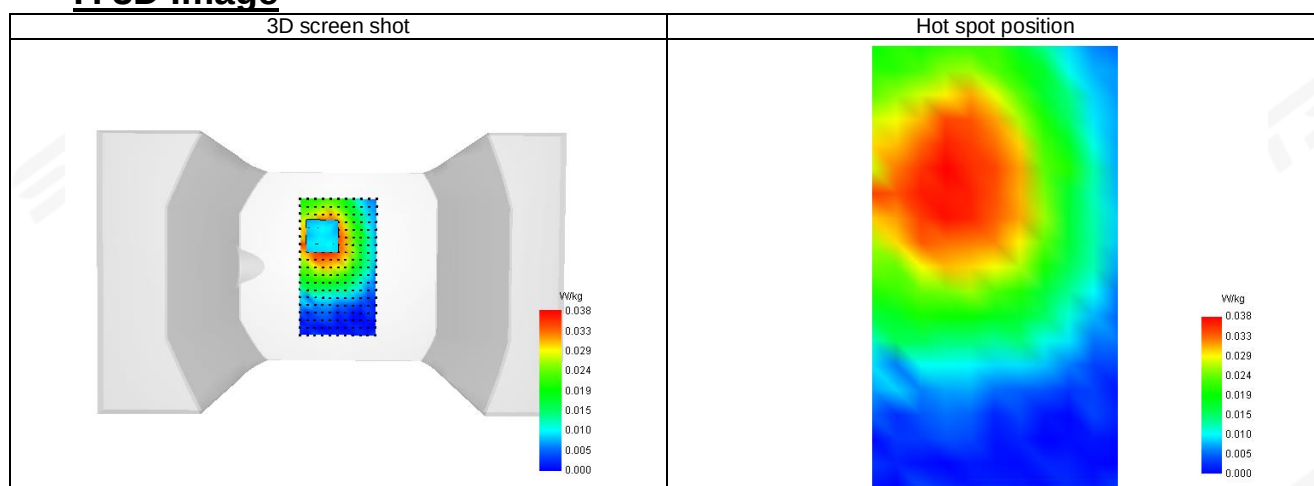
SAR 10g (W/Kg)	0.026
SAR 1g (W/Kg)	0.037
Horizontal validation criteria: minimum distance (mm)	8.921410
Vertical validation criteria: SAR ratio M2/M1 (%)	65.331415

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.053	0.037	0.026	0.022	0.017	0.013	0.011

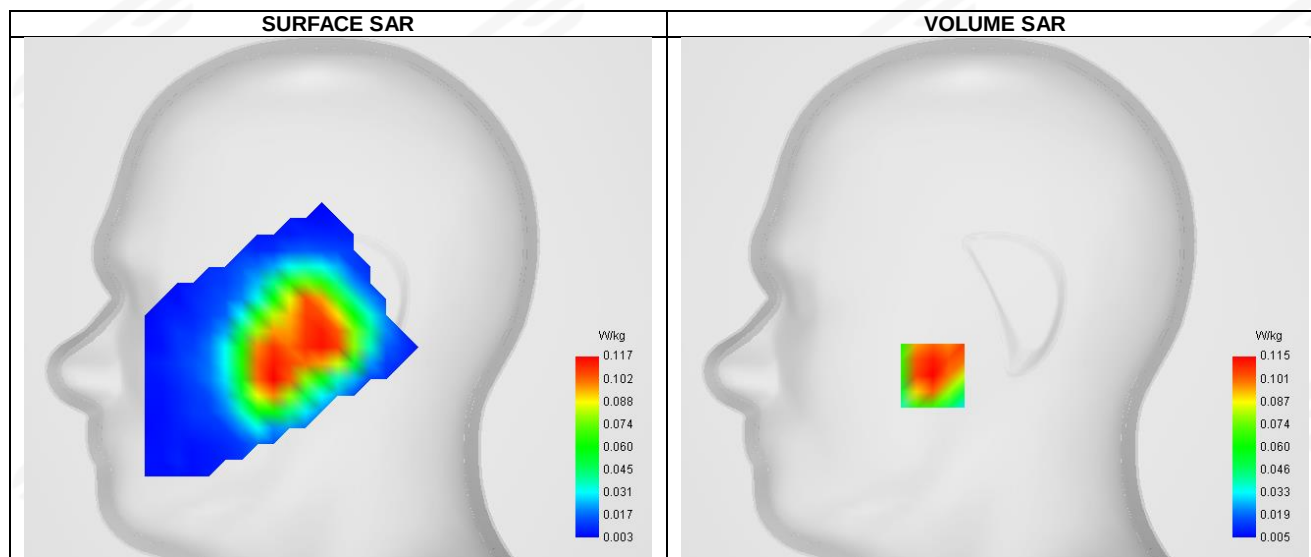


F. 3D Image



Plot 11: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-24
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	2.4G WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	39.48
Conductivity (S/m)	1.78



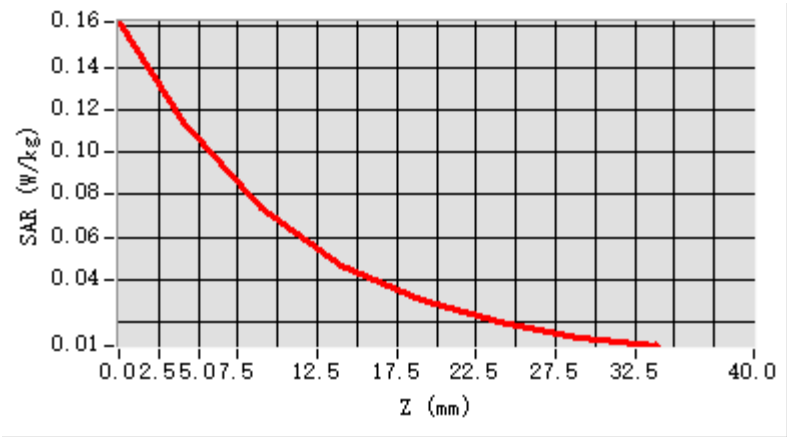
Maximum location: X=-31.00, Y=-38.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

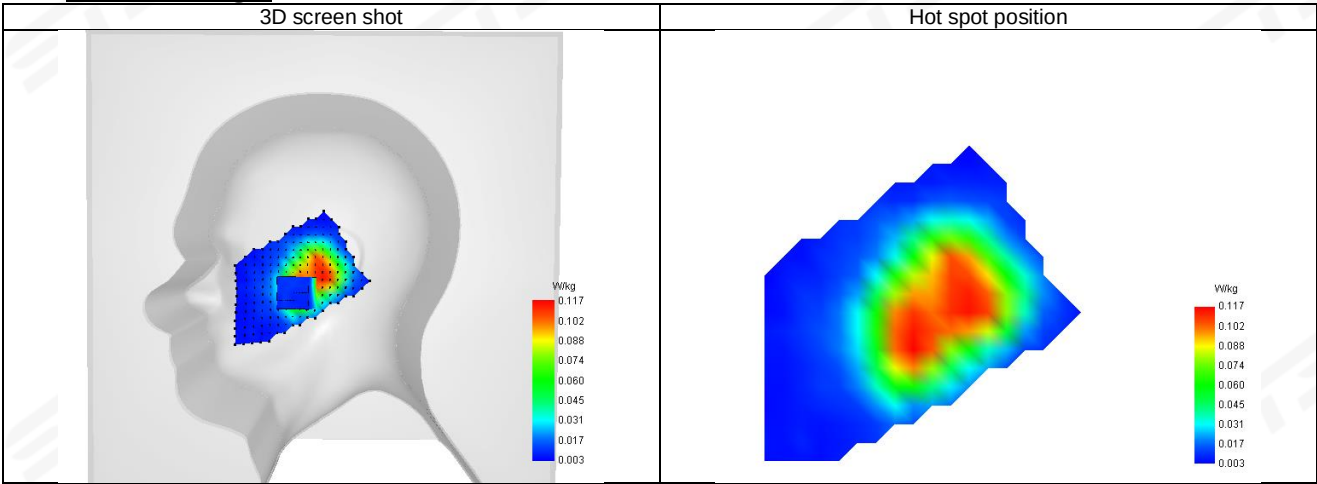
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.111
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	64.690750

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.162	0.115	0.074	0.046	0.031	0.020	0.013



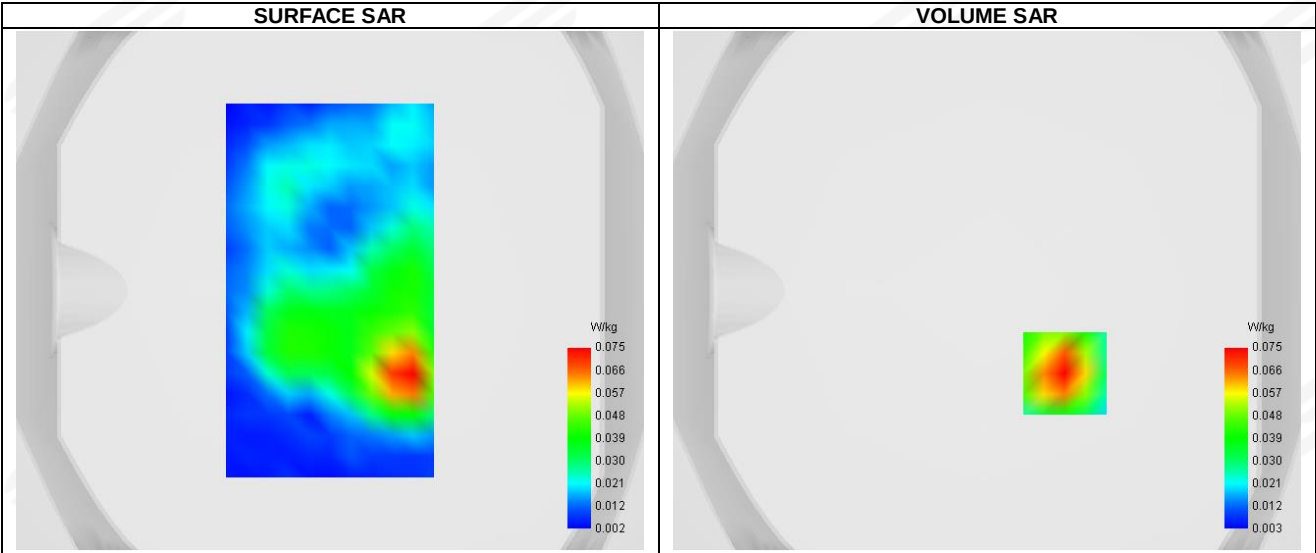
F. 3D Image





Plot 12: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-24
ConvF	1.82
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	2.4G WLAN
Signal	802.11b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	39.48
Conductivity (S/m)	1.78

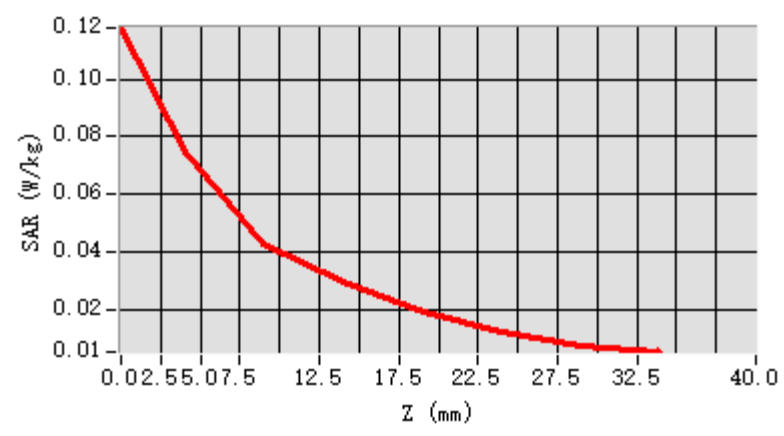


D. SAR 1g & 10g

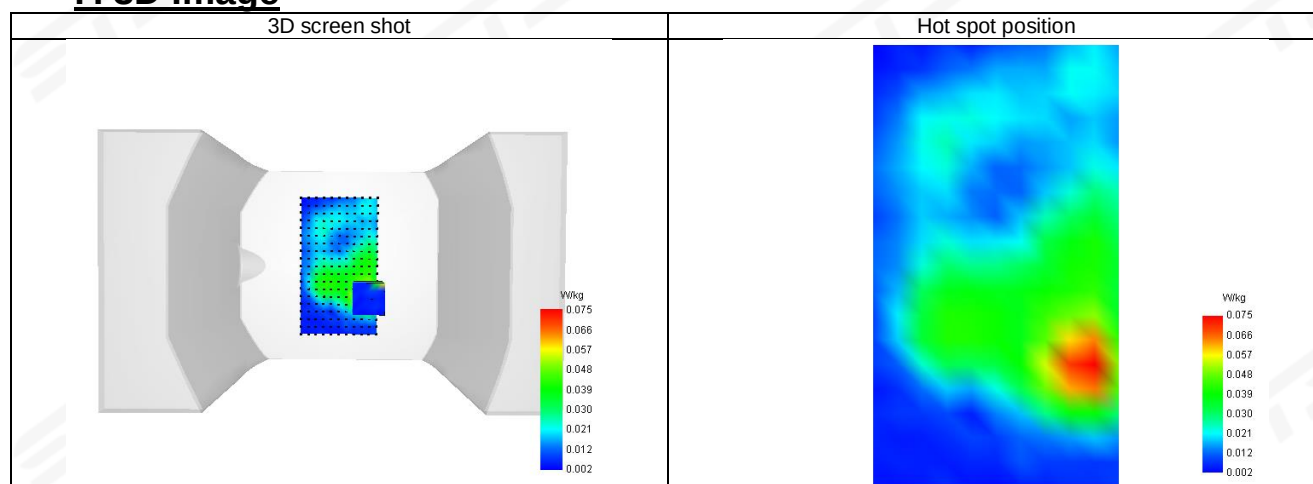
SAR 10g (W/Kg)	0.037
SAR 1g (W/Kg)	0.072
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.578863

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.118	0.075	0.043	0.030	0.019	0.012	0.008

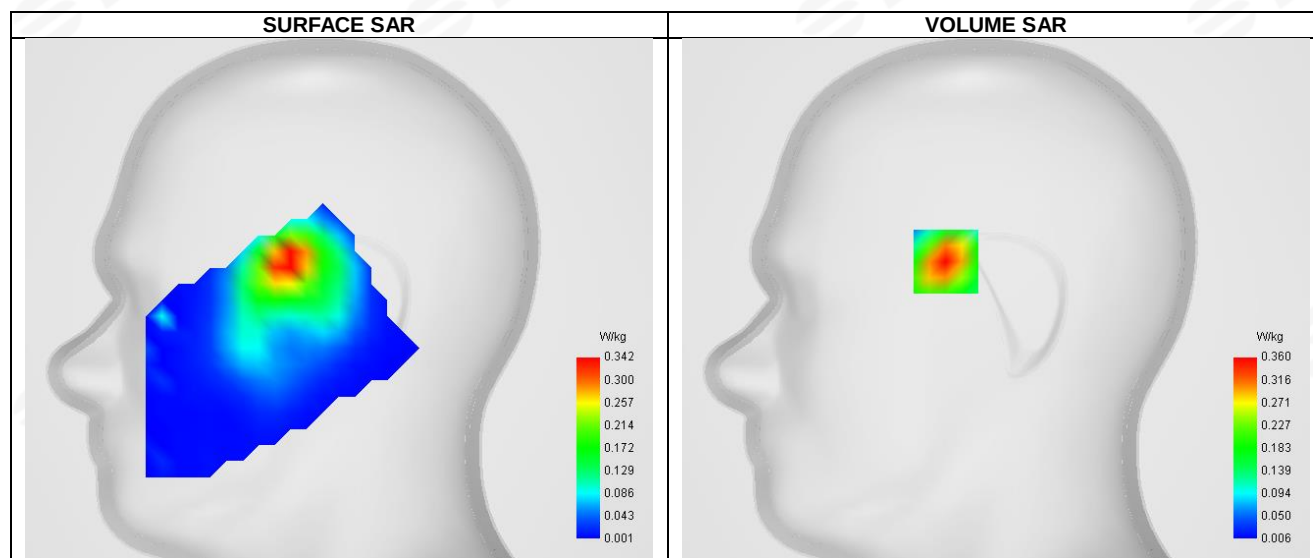


F. 3D Image



Plot 13: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39



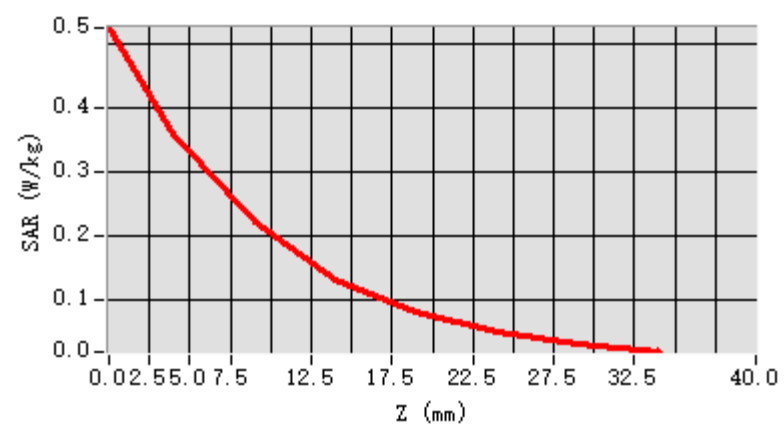
Maximum location: X=-25.00, Y=19.00 ; SAR Peak: 0.54 W/kg

D. SAR 1g & 10g

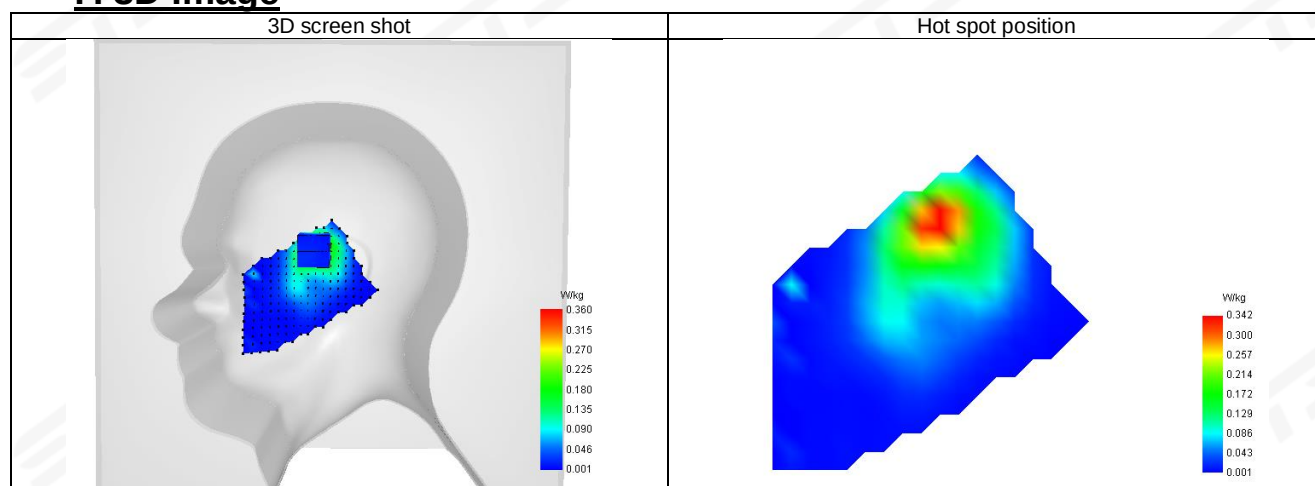
SAR 10g (W/Kg)	0.184
SAR 1g (W/Kg)	0.337
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.371736

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.525	0.360	0.221	0.132	0.082	0.050	0.030



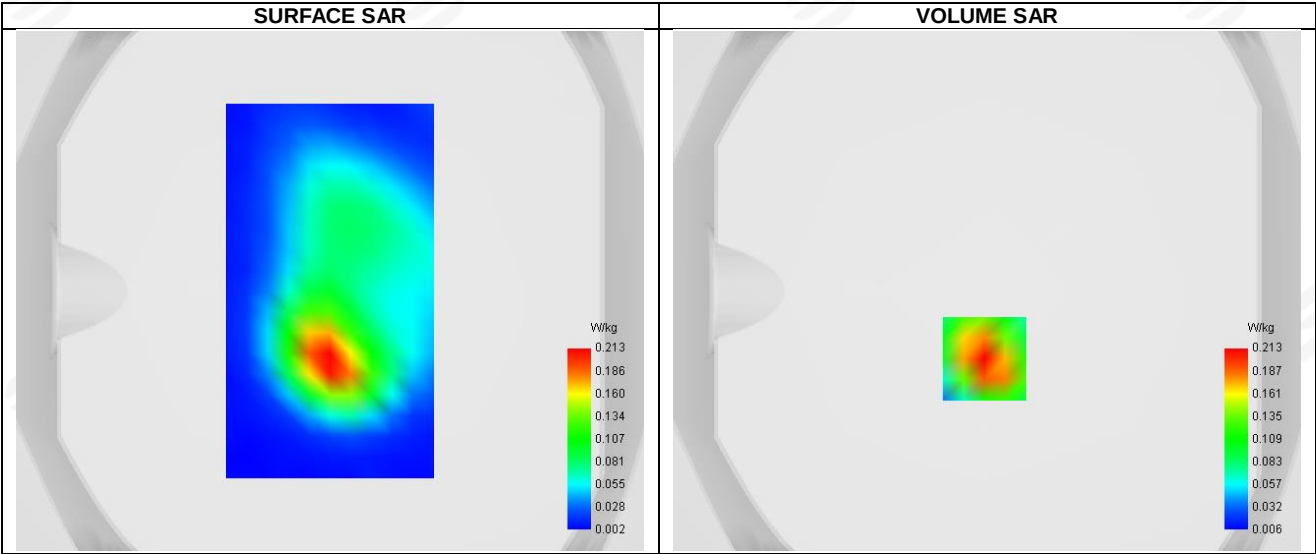
F. 3D Image





Plot 14: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-30
ConvF	1.73
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1880
Relative permittivity (real part)	39.96
Conductivity (S/m)	1.39



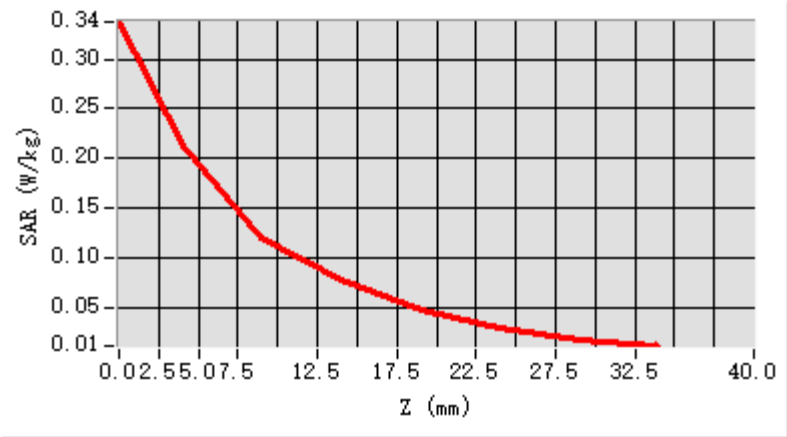
Maximum location: X=-1.00, Y=-26.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

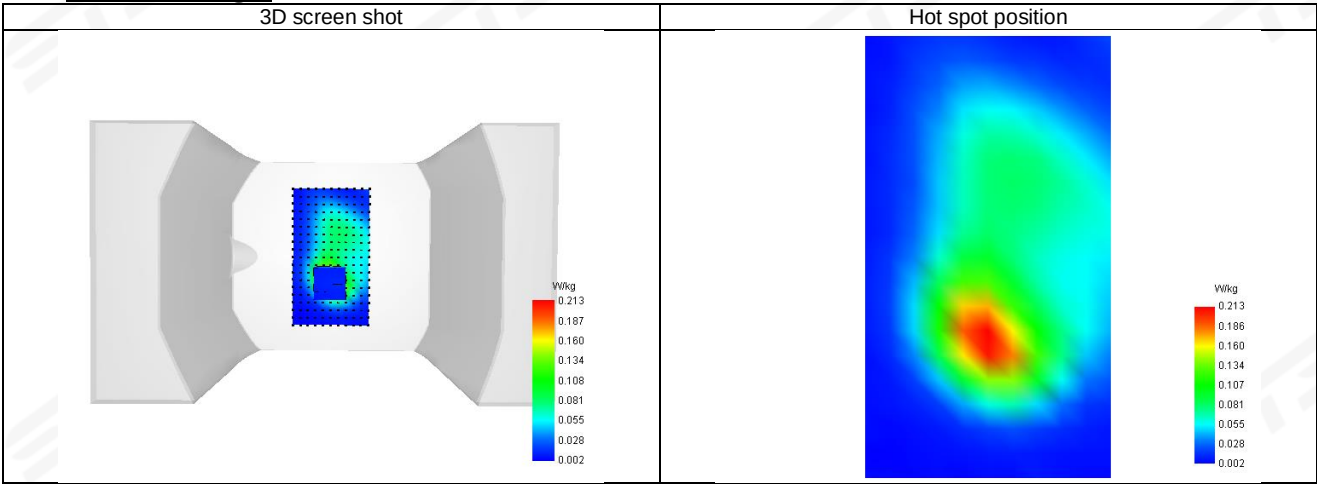
SAR 10g (W/Kg)	0.110
SAR 1g (W/Kg)	0.204
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	56.496326

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.337	0.213	0.120	0.079	0.049	0.030	0.019



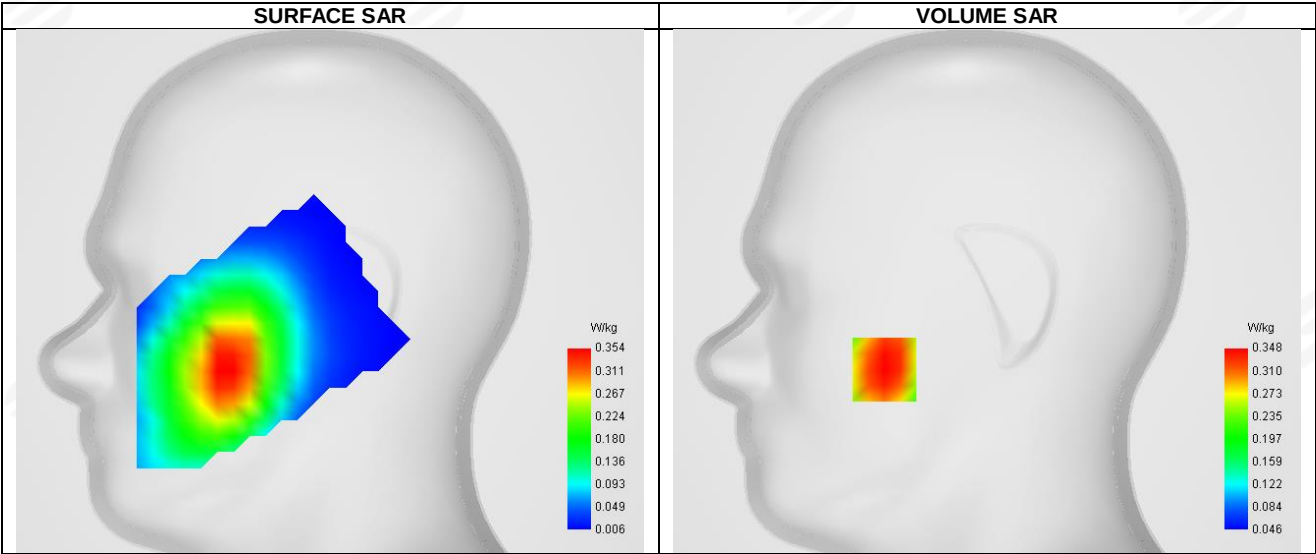
F. 3D Image





Plot 15: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	42.19
Conductivity (S/m)	0.89



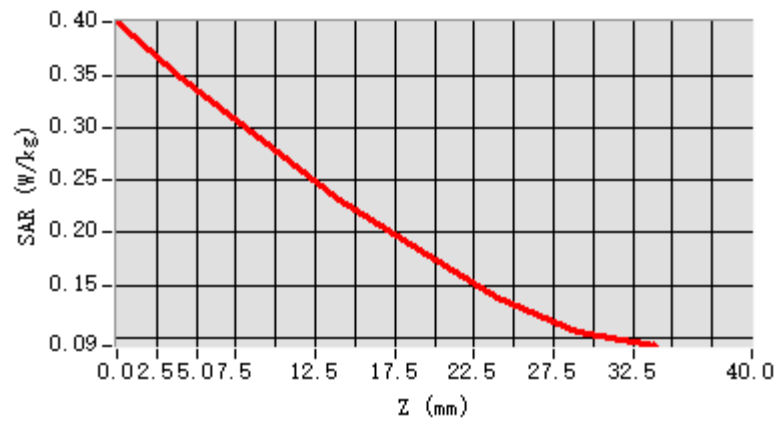
Maximum location: X=-51.00, Y=-39.00 ; SAR Peak: 0.41 W/kg

D. SAR 1g & 10g

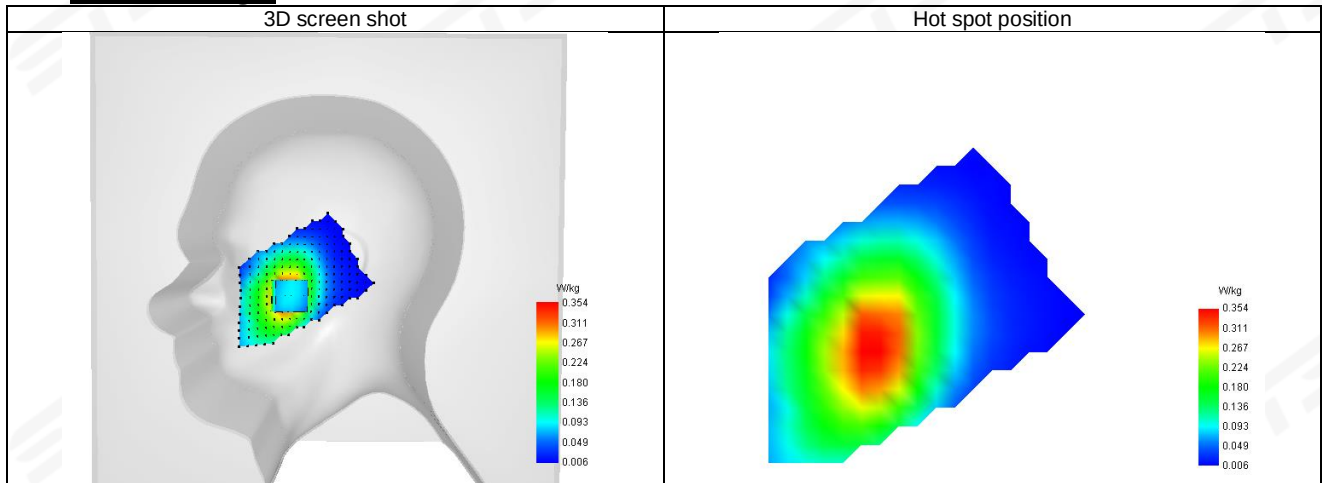
SAR 10g (W/Kg)	0.256
SAR 1g (W/Kg)	0.340
Horizontal validation criteria: minimum distance (mm)	10.211514
Vertical validation criteria: SAR ratio M2/M1 (%)	61.663251

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.401	0.348	0.290	0.231	0.184	0.138	0.105



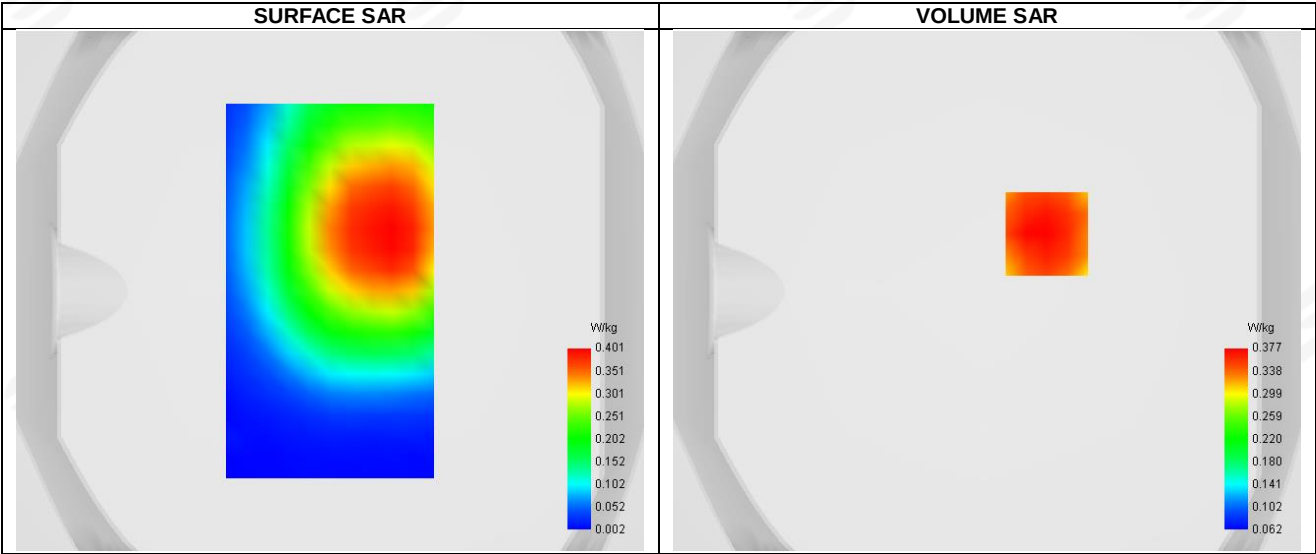
F. 3D Image





Plot 16: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.49
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	836.5
Relative permittivity (real part)	42.19
Conductivity (S/m)	0.89

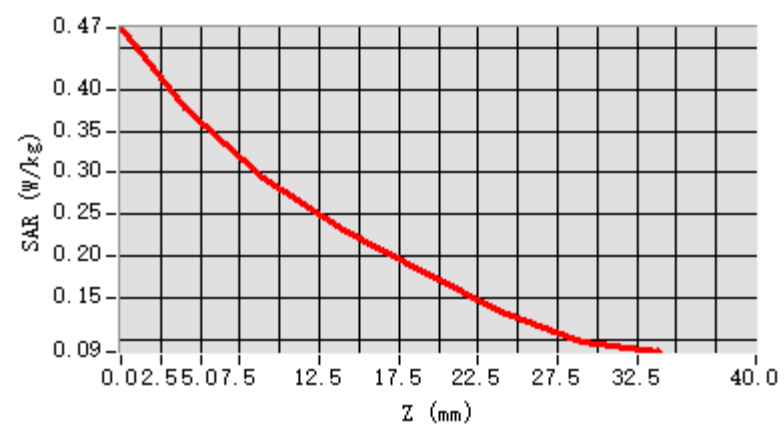


D. SAR 1g & 10g

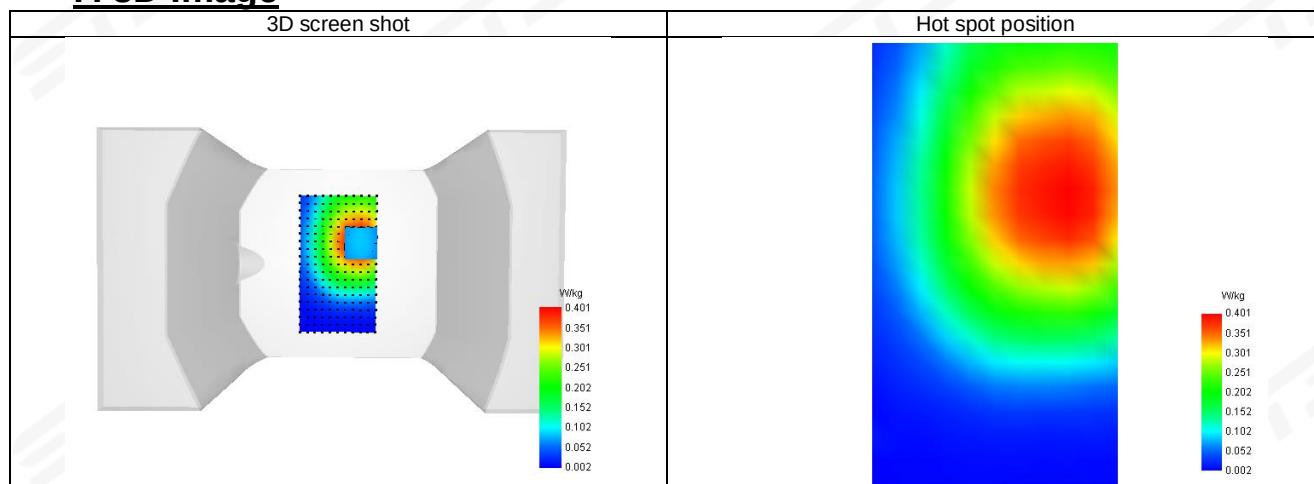
SAR 10g (W/Kg)	0.274
SAR 1g (W/Kg)	0.371
Horizontal validation criteria: minimum distance (mm)	13.145214
Vertical validation criteria: SAR ratio M2/M1 (%)	65.335210

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.473	0.377	0.295	0.232	0.182	0.134	0.099



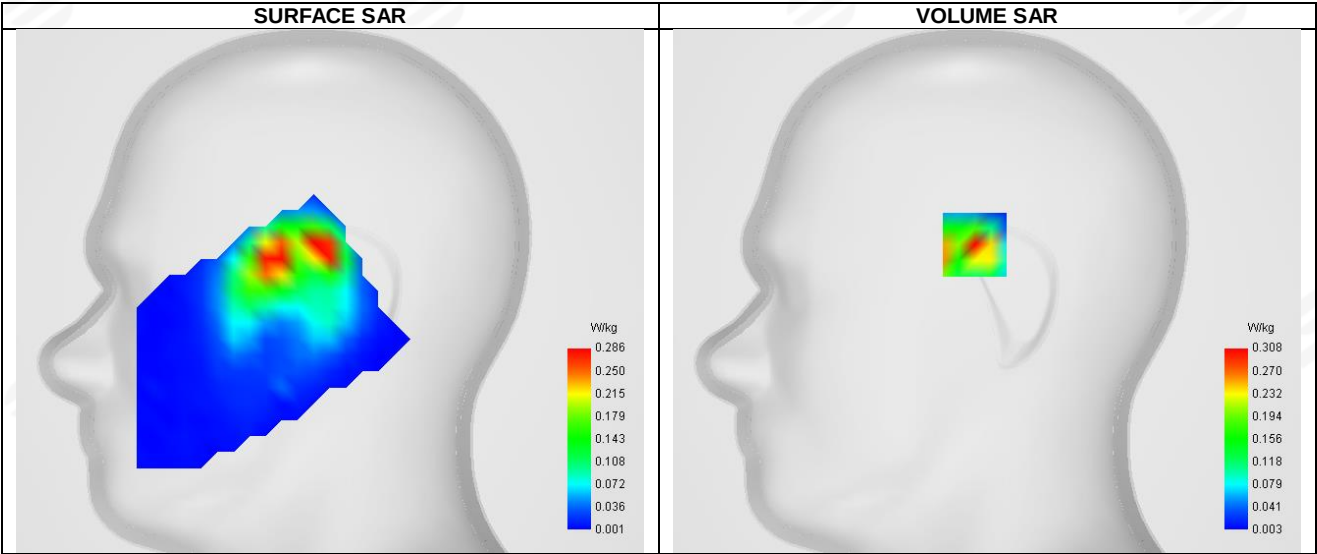
F. 3D Image





Plot 17: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-24
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	39.29
Conductivity (S/m)	1.85



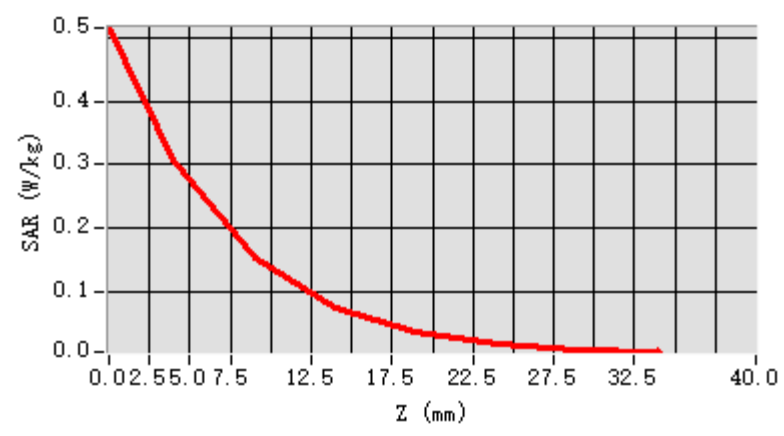
Maximum location: X=-6.00, Y=23.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

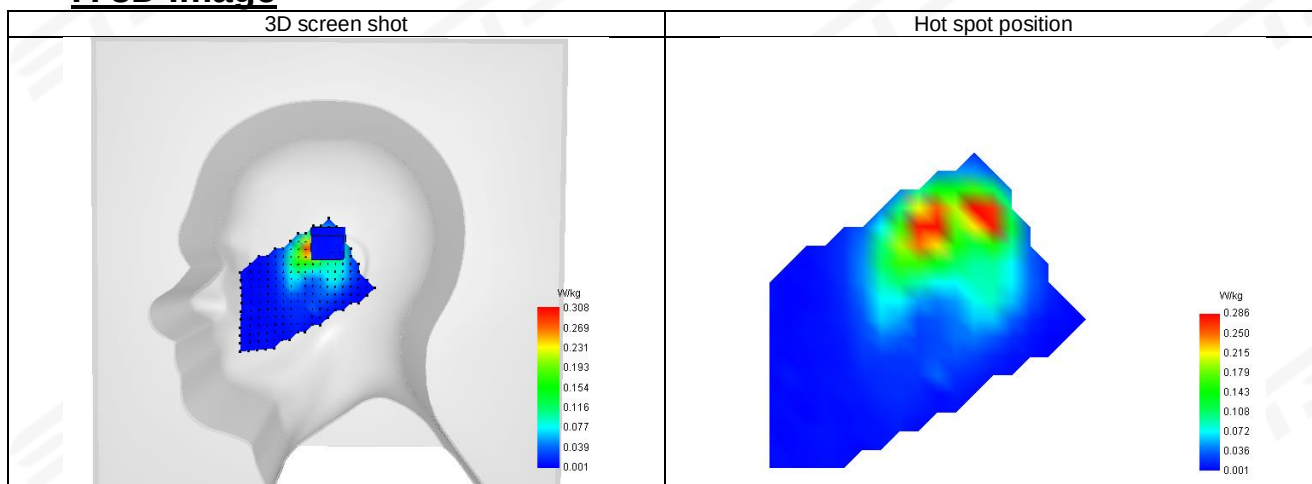
SAR 10g (W/Kg)	0.122
SAR 1g (W/Kg)	0.282
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	49.344951

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.517	0.308	0.152	0.075	0.037	0.018	0.009



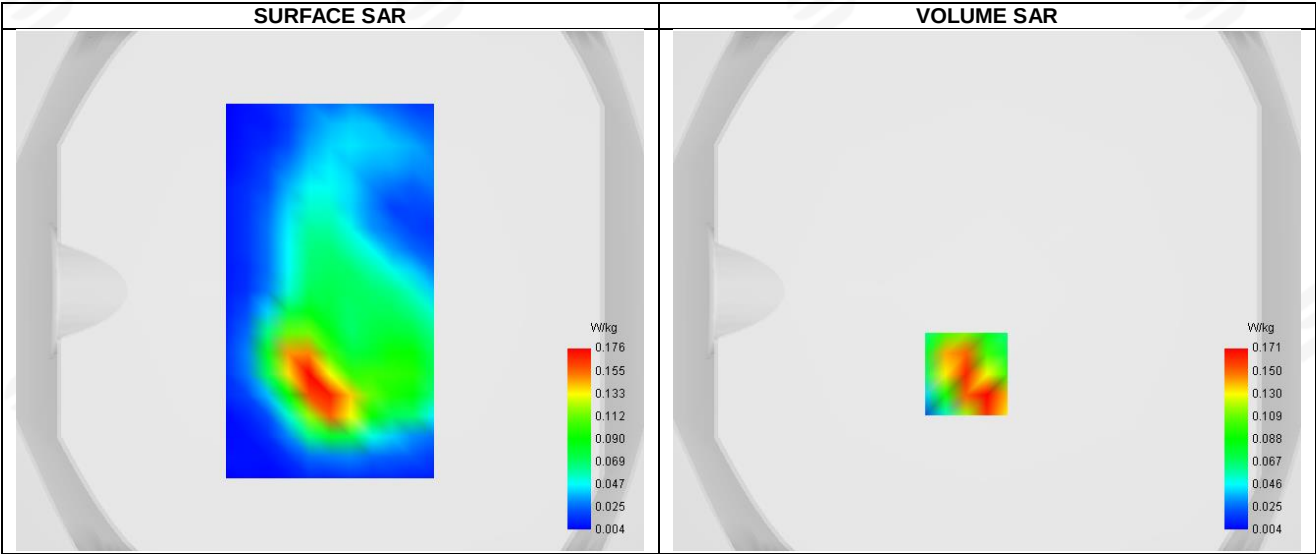
F. 3D Image





Plot 18: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-24
ConvF	1.70
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2510
Relative permittivity (real part)	39.29
Conductivity (S/m)	1.85



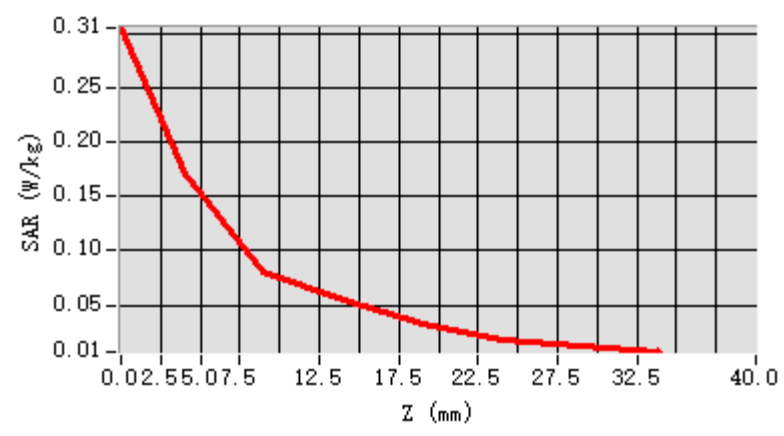
Maximum location: X=-8.00, Y=-32.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

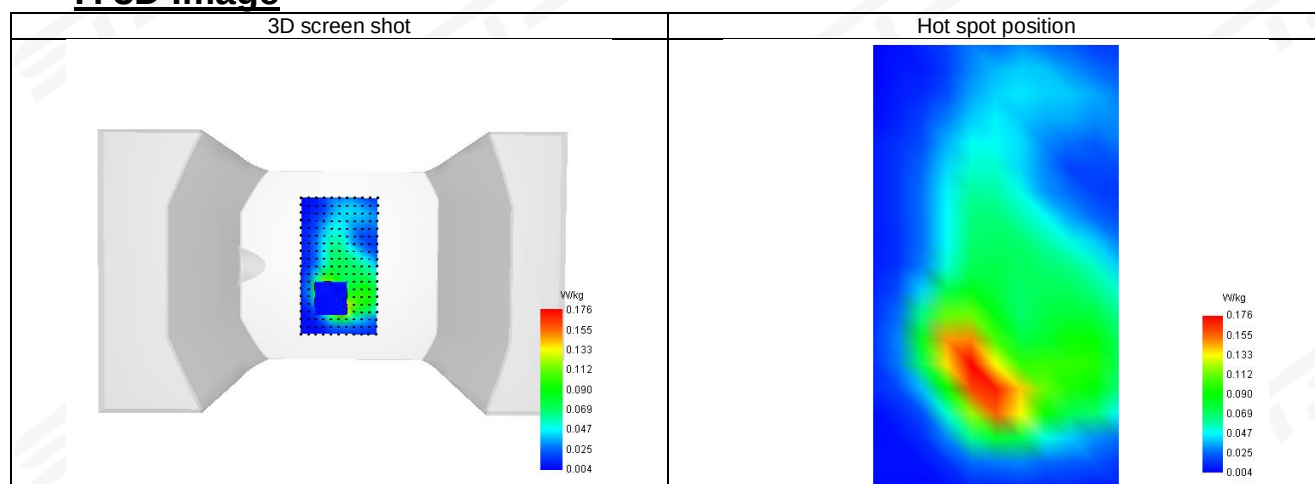
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.161
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	53.892424

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.306	0.171	0.080	0.055	0.033	0.018	0.013



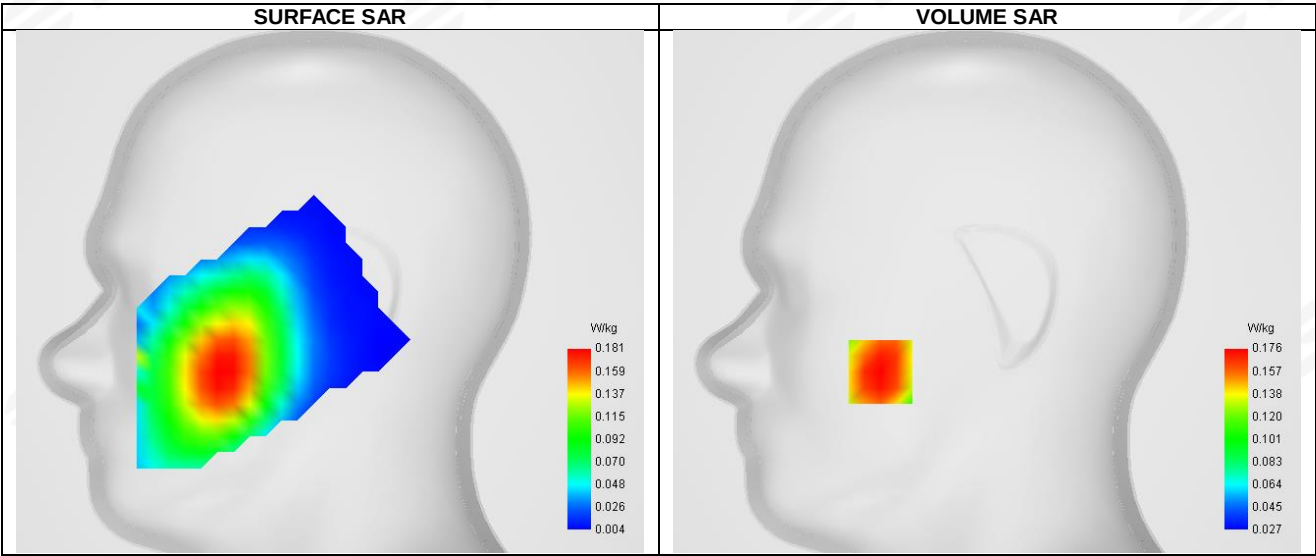
F. 3D Image





Plot 19: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 12/17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.58
Conductivity (S/m)	0.89



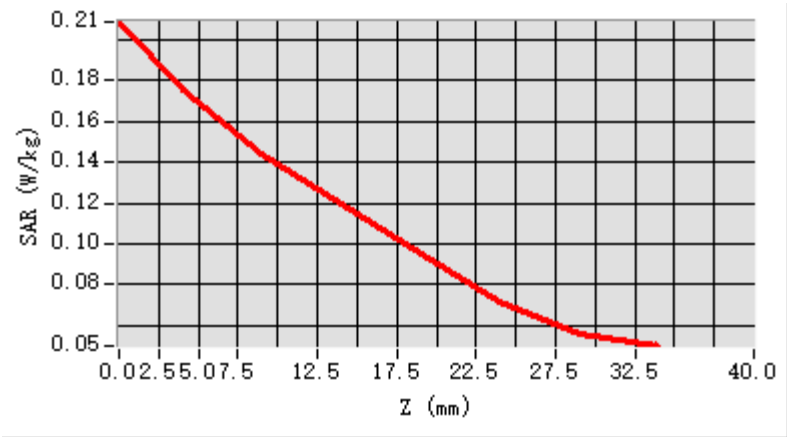
Maximum location: X=-53.00, Y=-40.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

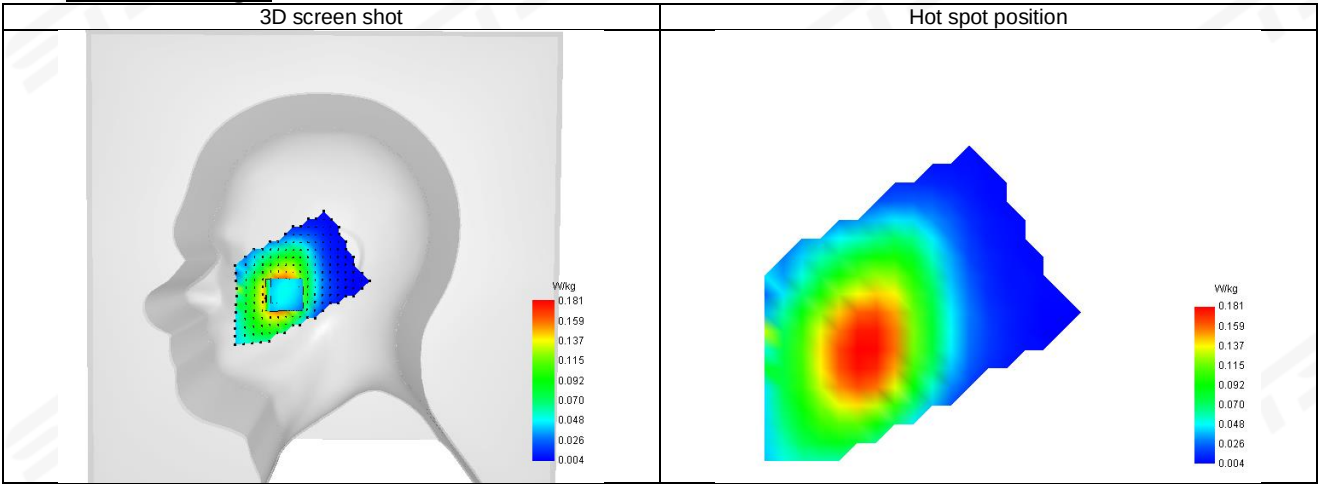
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.173
Horizontal validation criteria: minimum distance (mm)	11.125140
Vertical validation criteria: SAR ratio M2/M1 (%)	59.625740

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.209	0.176	0.144	0.120	0.095	0.072	0.056



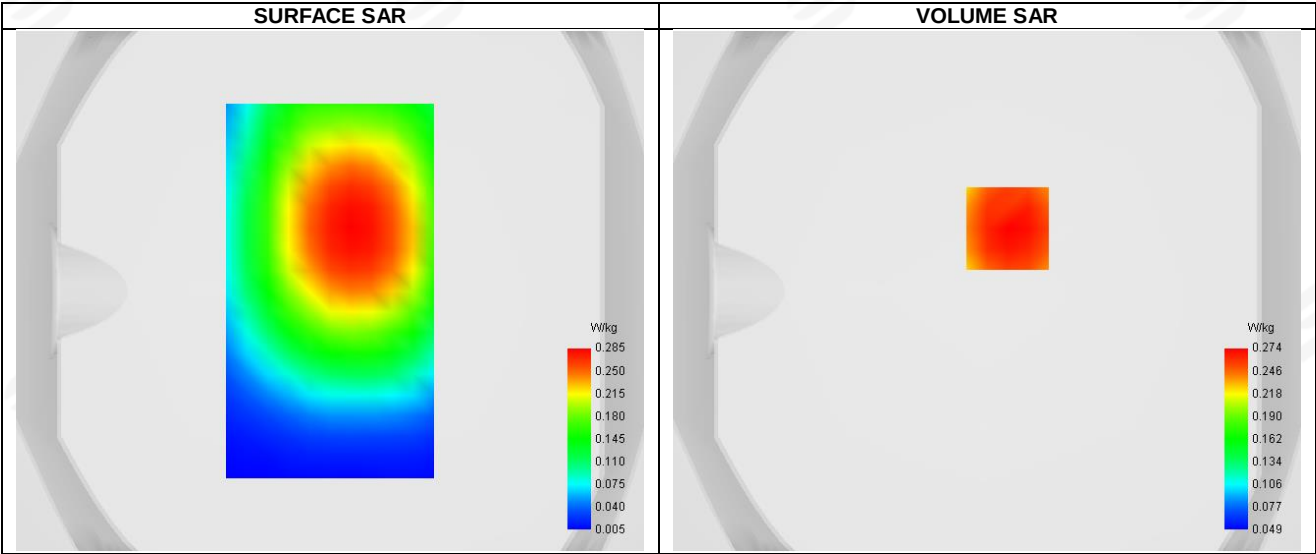
F. 3D Image





Plot 20: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.51
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 12/17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	711
Relative permittivity (real part)	42.58
Conductivity (S/m)	0.89



Maximum location: X=8.00, Y=24.00 ; SAR Peak: 0.33 W/kg

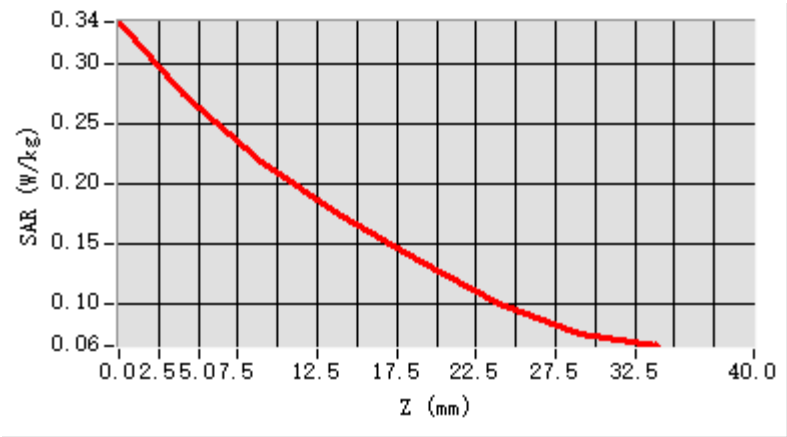
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.202
SAR 1g (W/Kg)	0.269
Horizontal validation criteria: minimum distance (mm)	8.596514
Vertical validation criteria: SAR ratio M2/M1 (%)	62.221450

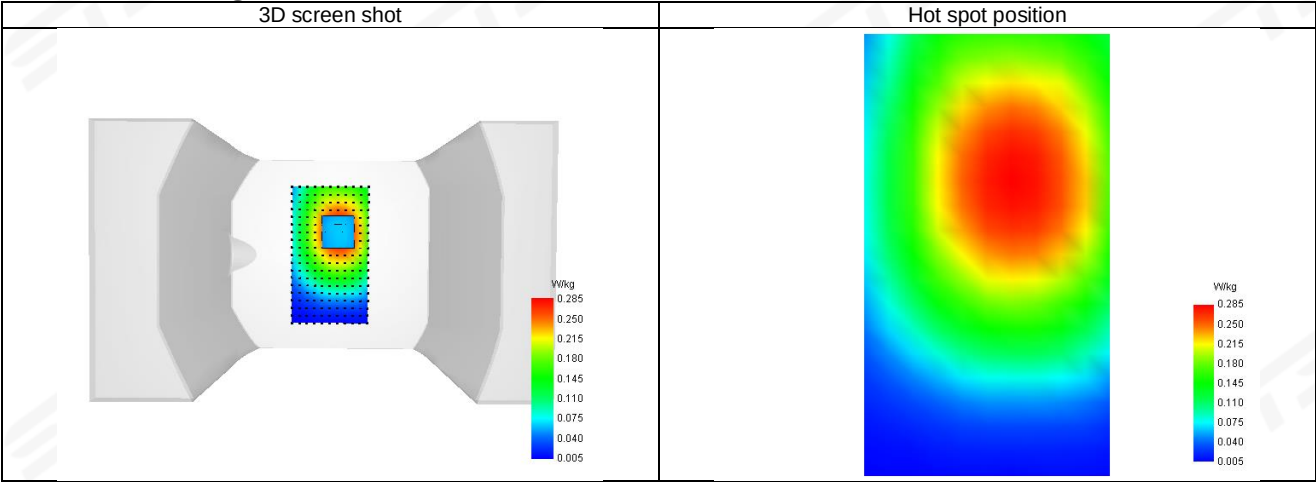


E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.335	0.274	0.218	0.173	0.135	0.099	0.073

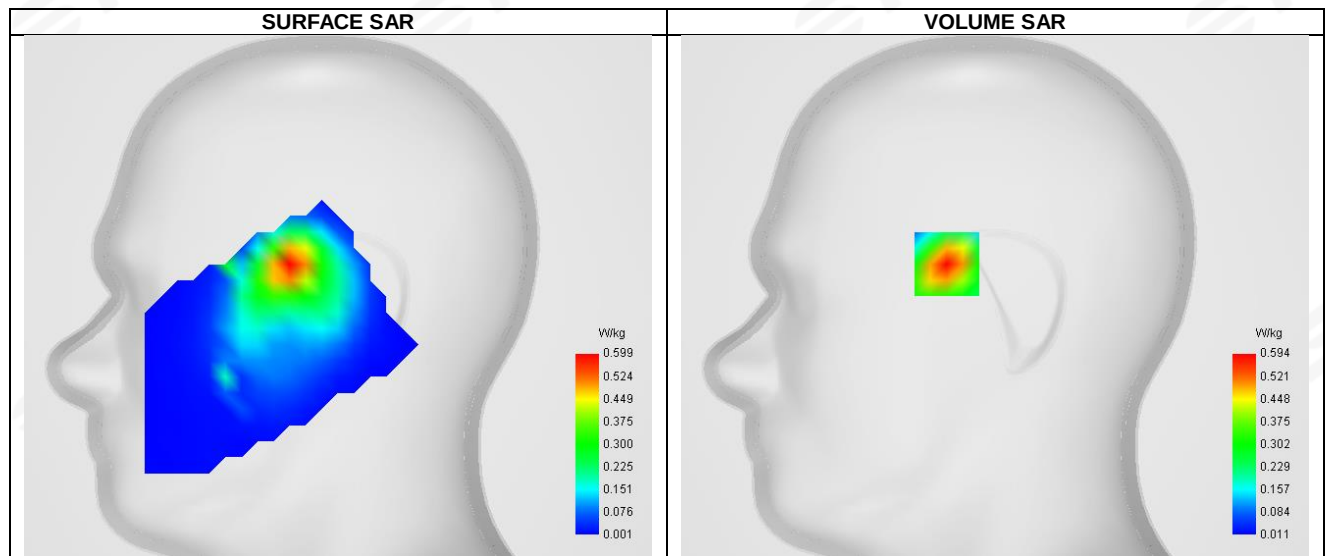


F. 3D Image



Plot 21: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Right Cheek
Device Position	Cheek
Band	LTE Band 66/4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1755
Relative permittivity (real part)	41.03
Conductivity (S/m)	1.37



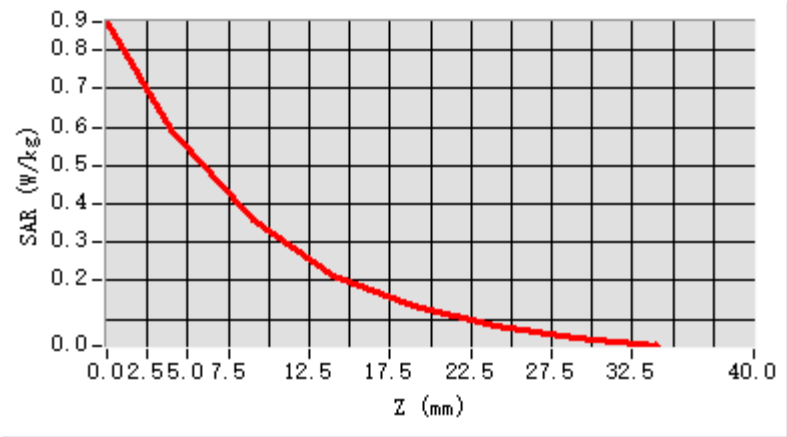
Maximum location: X=-24.00, Y=16.00 ; SAR Peak: 0.89 W/kg

D. SAR 1g & 10g

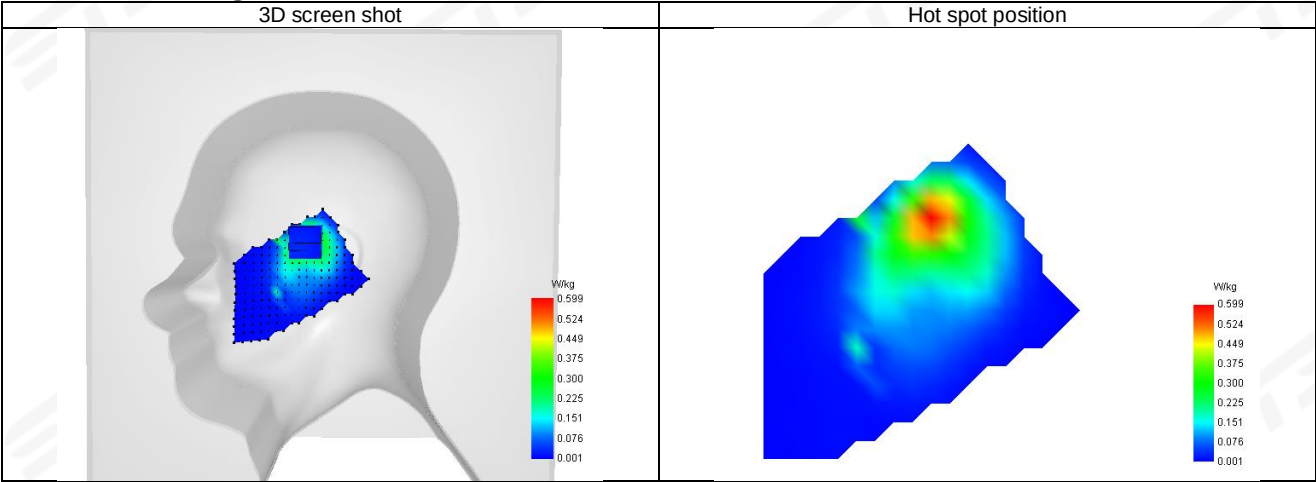
SAR 10g (W/Kg)	0.301
SAR 1g (W/Kg)	0.554
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.696831

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.875	0.594	0.361	0.214	0.132	0.080	0.048



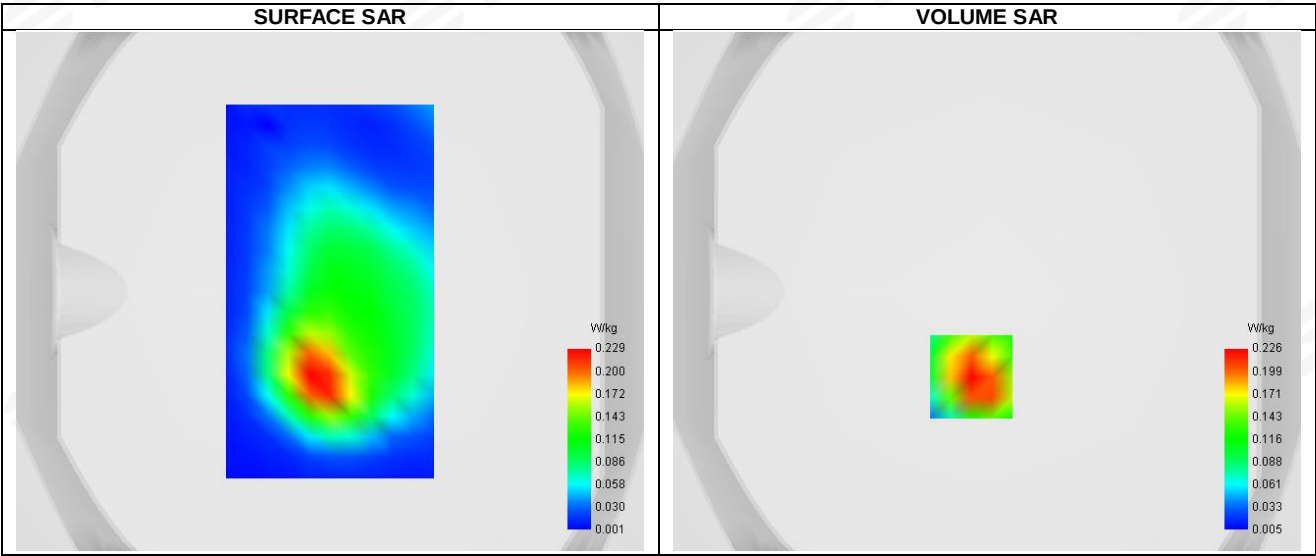
F. 3D Image





Plot 22: DUT: Smart Phone; EUT Model: C8

Test Date	2026-01-28
ConvF	1.54
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE Band 66/4
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1755
Relative permittivity (real part)	41.03
Conductivity (S/m)	1.37



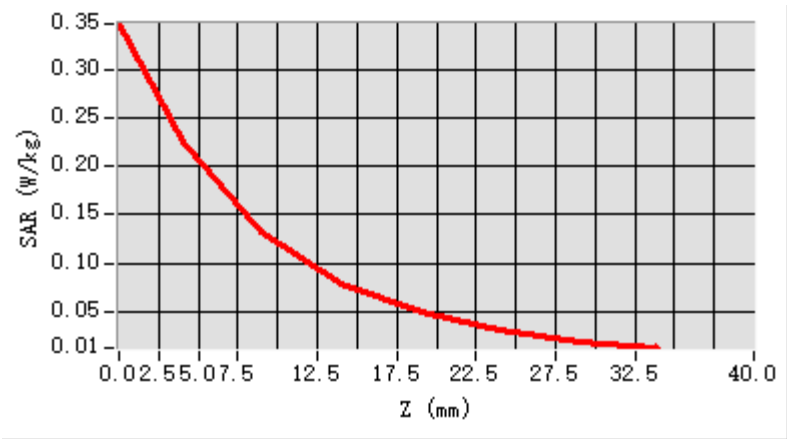
Maximum location: X=-6.00, Y=-33.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

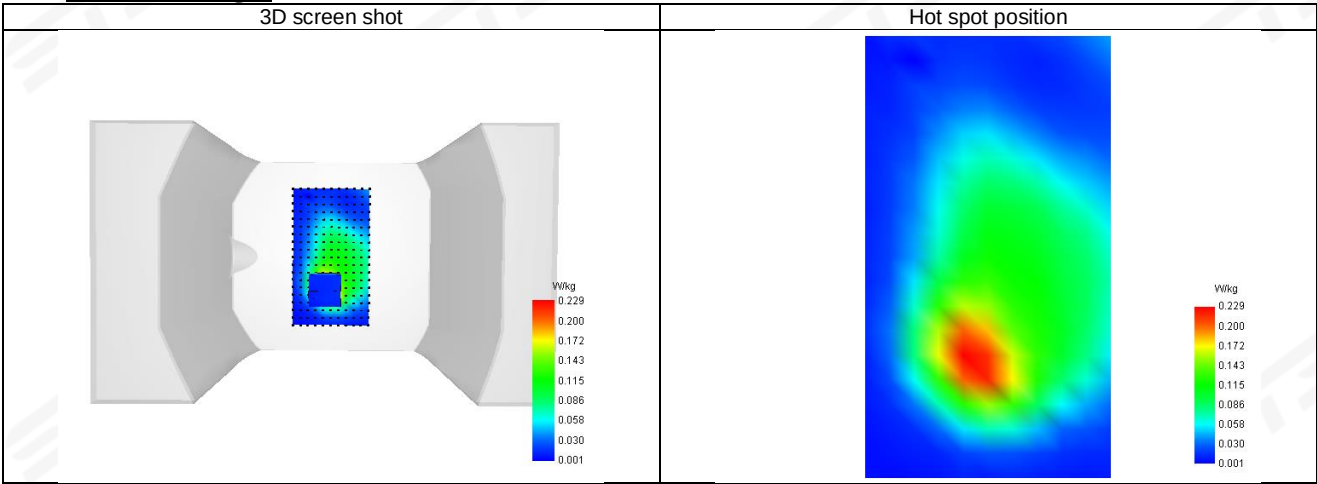
SAR 10g (W/Kg)	0.119
SAR 1g (W/Kg)	0.218
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	58.432569

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.347	0.226	0.132	0.079	0.050	0.030	0.018



F. 3D Image





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※