



# SAR TEST REPORT

Product Name: Mobile Phone

Model Name: 230

FCC ID: 2A3GK-230

Issued For : Seglumi slm mayoristas cia ltda

Edwin sacoto 133 y remigio cresco CUENCA-AZUAY-ECUADOR

Issued By : Shenzhen LGT Test Service Co., Ltd.

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Report Number: LGT24K010HA01

Sample Received Date: Nov. 05, 2024

Date of Test: Nov. 09, 2024 ~ Nov. 10, 2024

Date of Issue: Dec. 11, 2024

Head: 1.062 W/kg

Max. SAR (1g):

Body: 1.065 W/kg

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**Revision History**

Rev.	Issue Date	Contents
00	Dec. 11, 2024	Initial Issue





## TEST REPORT CERTIFICATION

**Applicant** Seglumi slm mayoristas cia ltda  
**Address** Edwin sacoto 133 y remigio cresco CUENCA-AZUAY-  
ECUADOR  
**Manufacture** Shenzhen Seven Sun Technology Co., Ltd  
**Address** 1506 Tianyun Building, Bantian Street, Longgang District,  
Shenzhen  
**Product Name** Mobile Phone  
**Trademark** JELU  
**Model Name** 230  
**Sample number** LGT2411011-1

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

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Manager







## 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	Mobile Phone		
Trademark	JELU		
Model Name	230		
Series Model	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	KF09_MBPCB_V2.0		
Software Version	N/A		
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band V: 824 ~ 849 MHz Bluetooth: 2402 ~ 2480 MHz		
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	Mode	Head (W/ kg)	Body (W/ kg)
	GSM 850	0.764	1.065
	PCS 1900	0.577	0.984
	WCDMA Band V	1.062	0.883
	Bluetooth <sup>Note</sup>	0.383	0.383
1-g Sum SAR		1.445	1.448
Battery	Rated Voltage:3.7V Capacity: 1500mAh		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested		
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, Release 6 Bluetooth: GFSK +π/4DQPSK+8DPSK		
Antenna Specification	GSM/WCDMA: PIFA Antenna Bluetooth: Monopole Antenna		
Operating Mode	Maximum continuous output		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time		
Hotspot Mode	Not Support		
DTM Mode	Not Support		
Note 1: The BT value was Estimated.			





## 1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

## 1.3 Test Factory

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China
Accreditation Certificate	FCC Registration No.: 746540
	A2LA Certificate No.: 6727.01
	IC Registration No.: CN0136





## 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	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz
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	Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies
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 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.4	8.0	20.0

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.08	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 ( $\rho$ ). 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

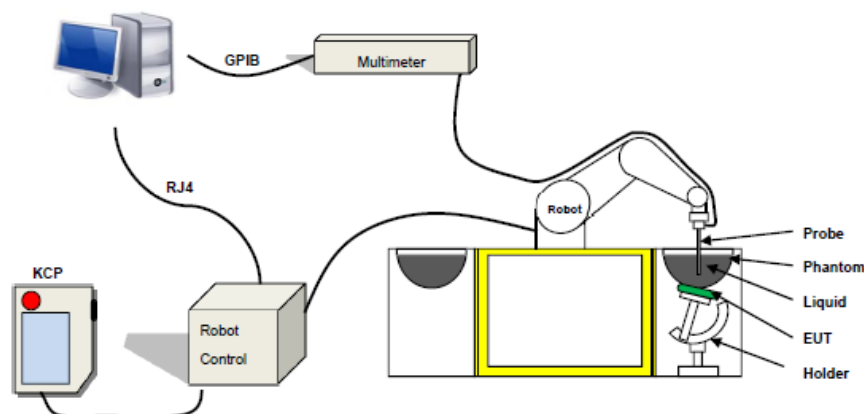
$$SAR = \frac{\sigma E^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue;

$\rho$  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 OpenSAR software computes the results to give a SAR value in a 1g or 1g mass.

### 3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPG0364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- 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: 600 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 Probe



### 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.

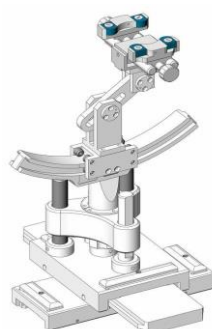


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

### 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  $\pm 0.5$  mm would produce a SAR uncertainty of  $\pm 20$  %. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.





## 4. Tissue Simulating Liquids

### 4.1 Simulating Liquids Parameter Check

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

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

#### 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	$\epsilon_r$	$\sigma$ 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





### **LIQUID MEASUREMENT RESULTS**

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2024-11-09	21.3	52	835	21	Permittivity	41.50	41.56	0.14	±5
					Conductivity	0.90	0.93	3.33	±5
2024-11-10	23.7	58	1900	23.3	Permittivity	40.00	41.16	2.90	±5
					Conductivity	1.40	1.42	1.43	±5









## 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

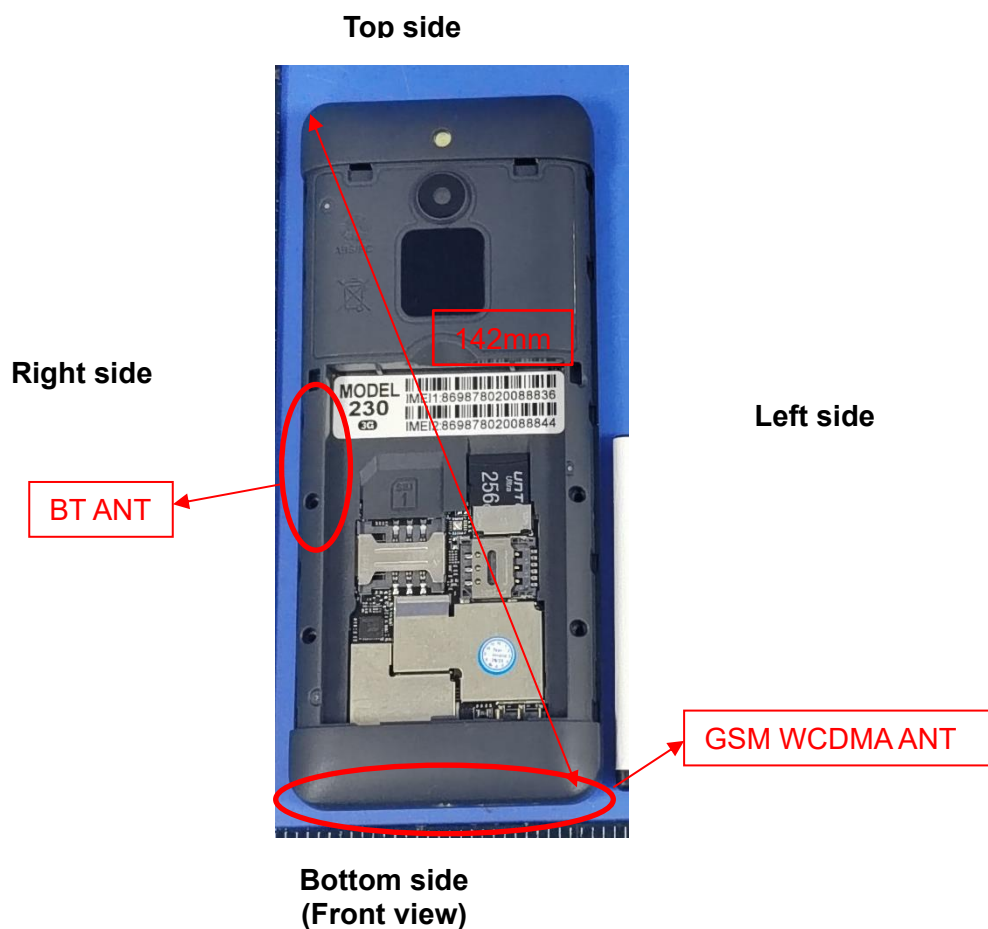
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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 Mobile Phone, support GSM/WCDMA/BT mode.



Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
BT	≤5	≤5	45	≤5	70	35
WWAN	≤5	≤5	≤5	≤5	120	≤5

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

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA V	BT
	Calculated Frequency (MHz)	848.8	1850.2	836.4	2480
	Maximum Turn-up power (dBm)	32.5	28	23	9.6
	Maximum rated power(mW)	1778.28	630.96	199.53	9.12
Back Side	Separation distance (mm)	≤5	≤5	≤5	≤5
	exclusion threshold(mW)	16.28	11.03	16.40	9.53
	Testing required?	YES	YES	YES	NO
Front Side	Separation distance (mm)	≤5	≤5	≤5	≤5
	exclusion threshold(mW)	16.28	11.03	16.40	9.53
	Testing required?	YES	YES	YES	NO
Left Edge	Separation distance (mm)	≤5	≤5	≤5	45
	exclusion threshold(mW)	16.28	11.03	16.40	85.73
	Testing required?	YES	YES	YES	NO
Right Edge	Separation distance (mm)	≤5	≤5	≤5	≤5
	exclusion threshold(mW)	16.28	11.03	16.40	9.53
	Testing required?	YES	YES	YES	NO
Top Edge	Separation distance (mm)	120	120	120	70
	exclusion threshold(mW)	558.92	810.28	554.34	133.35
	Testing required?	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	≤5	≤5	≤5	35
	exclusion threshold(mW)	16.28	11.03	16.40	66.68
	Testing required?	YES	YES	YES	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, 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, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold





4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance  $\leq 50\text{mm}$  are determined by:

$$[(\text{max.power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
  
f(GHz) is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

For  $< 50\text{mm}$  distance, we just calculate mW of the exclusion threshold value(3.0) to do compare

5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances  $> 50\text{mm}$ , the SAR test exclusion threshold is determined according to the following
- a) [threshold at 50mm in step 1] + (test separation distance - 50mm) \* (f (MHz)/150)]mW, at 100 MHz to 1500 MHz
  - b) [threshold at 50mm in step1] + ( test separation distance - 50mm) \* 10]mW at  $> 1500\text{MHz}$  and  $\leq 6\text{GHz}$

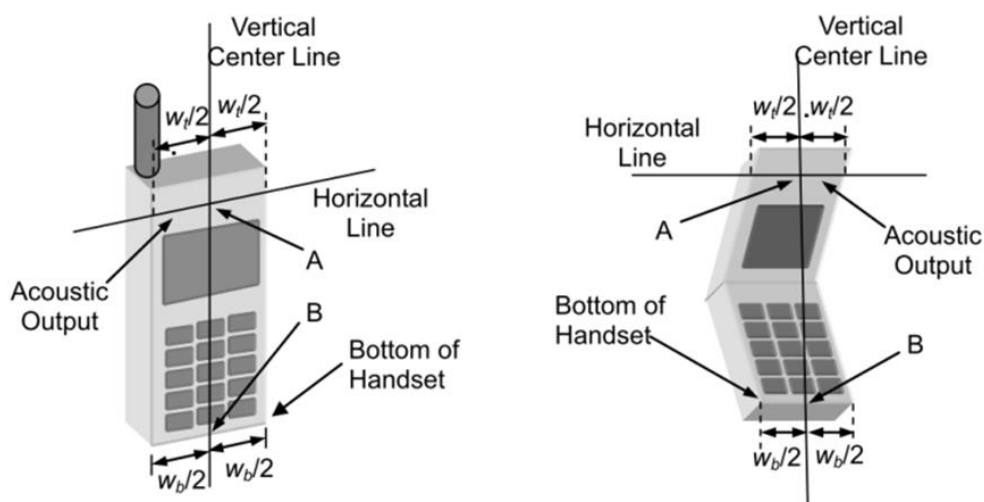


## 8. EUT Test Position

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

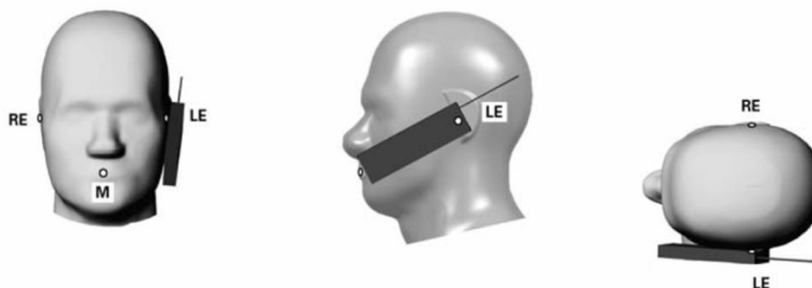
### 8.1 Define Two Imaginary Lines on the Handset

- (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

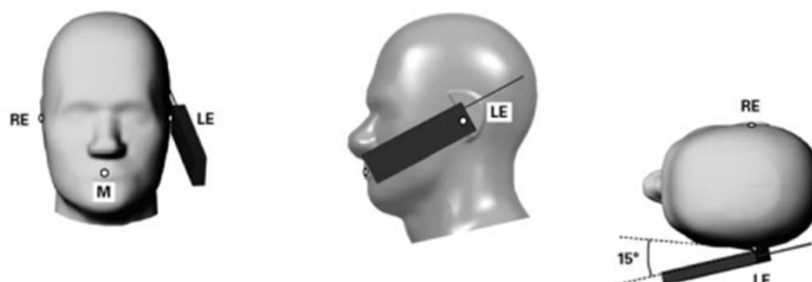






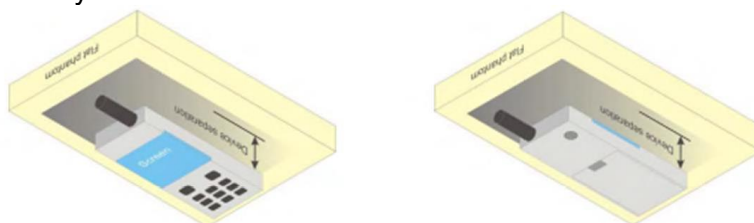
## Title Position

- (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.



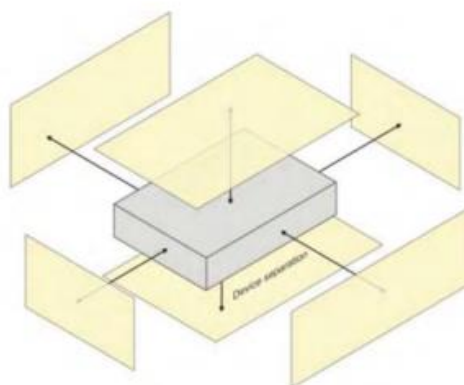
## Body-worn Position Conditions:

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 9cm x 5cm, 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  $k=2$ .

Uncertainty Component	Tol (+/- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+/-%)	10g Ui (+/-%)	vi
<b>Measurement System</b>								
Probe calibration	5.8	N	1	1	1	5.8	5.8	$\infty$
Axial Isotropy	3.5	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	1.43	1.43	$\infty$
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	$\sqrt{0.5}$	$\sqrt{0.5}$	2.41	2.41	$\infty$
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Linearity	4.7	R	$\sqrt{3}$	1	1	2.71	2.71	$\infty$
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Modulation response	3	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Readout Electronics	0.5	N	1	1	1	0.50	0.50	$\infty$
Response Time	0	R	$\sqrt{3}$	1	1	0.00	0.00	$\infty$
Integration Time	1.4	R	$\sqrt{3}$	1	1	1.81	1.81	$\infty$
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
RF ambient conditions-reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	$\infty$
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	$\infty$
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	$\infty$
<b>Test sample Related</b>								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device holder uncertainty	3	N	1	1	1	3.00	3.00	7
Output Power Variation - SAR Drift Measurement	5	R	$\sqrt{3}$	1	1	2.89	2.89	$\infty$
SAR scaling	2	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
<b>Phantom and tissue parameters</b>								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	$\infty$
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	$\infty$
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	$\infty$
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	$\infty$
<b>Combined Standard Uncertainty</b>		RSS				10.47	10.34	
<b>Expanded Uncertainty (95% Confidence interval)</b>		K				20.95	20.69	





## 9.2 System validation Uncertainty

Uncertainty Component	Tol (+ - %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	vi
<b>Measurement System</b>								
Probe calibration	5.8	N	1	1	1	5.8	5.8	$\infty$
Axial Isotropy	3.5	R	$\sqrt{3}$	1	1	2.02	2.02	$\infty$
Hemispherical Isotropy	5.9	R	$\sqrt{3}$	0	0	0.00	0.00	$\infty$
Boundary effect	1	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Linearity	4.7	R	$\sqrt{3}$	1	1	0.71	0.71	$\infty$
System detection limits	1	R	$\sqrt{3}$	1	1	0.58	0.58	$\infty$
Modulation response	0	N	$\sqrt{3}$	0	0	0.00	0.00	$\infty$
Readout Electronics	0.5	N	1	1	1	0.50	0.50	$\infty$
Response Time	0	R	$\sqrt{3}$	0	0	0.00	0.00	$\infty$
Integration Time	1.4	R	$\sqrt{3}$	0	0	0.00	0.00	$\infty$
RF ambient conditions-Noise	3	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
RF ambient conditions- reflections	3	R	$\sqrt{3}$	1	1	1.73	1.73	$\infty$
Probe positioner mechanical tolerance	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	$\infty$
Probe positioning with respect to phantom shell	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	$\infty$
Extrapolation, Interpolation and Integration Algorithms for Max, SAR	2.3	R	$\sqrt{3}$	1	1	1.33	1.33	$\infty$
<b>Dipole</b>								
Deviation of Experimental Source from Numerical Source	5	N	1	1	1	5.00	5.00	$\infty$
Input Power and SAR Drift Measurement	0.5	R	$\sqrt{3}$	1	1	0.29	0.29	$\infty$
Dipole Axis to Liquid Distance	2	R	$\sqrt{3}$	1	1	1.15	1.15	$\infty$
<b>Phantom and Tissue Parameters</b>								
Phantom uncertainty (shape and thickness uncertainty)	4	R	$\sqrt{3}$	1	1	2.31	2.31	$\infty$
Uncertainty in SAR correction for deviations in permittivity and conductivity	2	N	1	1	0.84	2.00	1.68	$\infty$
Liquid Conductivity - Measurement Uncertainty)	4	N	1	0.78	0.71	3.12	2.84	5
Liquid Permittivity - Measurement Uncertainty	5	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.78	0.71	1.13	1.02	$\infty$
Liquid Permittivity (Temperature Uncertainty)	2.5	R	$\sqrt{3}$	0.23	0.26	0.33	0.38	$\infty$
<b>Combined Standard Uncertainty</b>		RSS				10.16	10.03	
<b>Expanded Uncertainty (95% Confidence interval)</b>		K				20.32	20.06	





## 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)	31.88	32.13	32.27	27.50	26.87	27.09
GPRS (GMSK, 1-Slot)	31.83	32.10	32.26	27.47	26.84	27.04
GPRS (GMSK, 2-Slot)	29.96	30.51	30.16	25.18	24.32	24.43
GPRS (GMSK, 3-Slot)	28.26	28.89	28.55	23.77	22.86	22.98
GPRS (GMSK, 4-Slot)	26.59	27.19	26.83	21.94	21.02	21.09
EGPRS (8PSK, 1-Slot)	31.78	32.06	32.20	27.52	26.83	27.03
EGPRS (8PSK, 2-Slot)	29.92	30.48	30.12	25.20	24.33	24.42
EGPRS (8PSK, 3-Slot)	28.27	28.87	28.50	23.80	22.85	22.95
EGPRS (8PSK, 4-Slot)	26.54	27.19	26.83	21.96	21.01	21.05
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)	22.85	23.10	23.24	18.47	17.84	18.06
GPRS (GMSK, 1-Slot)	22.80	23.07	23.23	18.44	17.81	18.01
GPRS (GMSK, 2-Slot)	23.94	24.49	24.14	19.16	18.30	18.41
GPRS (GMSK, 3-Slot)	24.00	24.63	24.29	19.51	18.60	18.72
GPRS (GMSK, 4-Slot)	23.58	24.18	23.82	18.93	18.01	18.08
EGPRS (8PSK, 1-Slot)	22.75	23.03	23.17	18.49	17.80	18.00
EGPRS (8PSK, 2-Slot)	23.90	24.46	24.10	19.18	18.31	18.40
EGPRS (8PSK, 3-Slot)	24.01	24.61	24.24	19.54	18.59	18.69
EGPRS (8PSK, 4-Slot)	23.53	24.18	23.82	18.95	18.00	18.04
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 5		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2Kbps	22.79	22.85	22.85

## Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	8.38	6.89
	39	2441	9.16	8.24
	78	2480	9.54	8.99
$\pi/4$ -QPSK(2Mbps)	0	2402	6.38	4.35
	39	2441	6.89	4.89
	78	2480	7.20	5.25
8DPSK(3Mbps)	0	2402	6.82	4.81
	39	2441	7.38	5.47
	78	2480	7.66	5.83





## 10.2 Tune up Power

Mode	GSM850	GSM1900
GSM/PCS	31.5±1dBm	27±1dBm
GPRS (1 Slot)	31±1dBm	26.5±1dBm
GPRS (2 Slot)	31±1dBm	24.5±1dBm
GPRS (3 Slot)	28±1dBm	23±1dBm
GPRS (4 Slot)	26.5±1dBm	21±1dBm
EDGE (1 Slot)	31.5±1dBm	27±1dBm
EDGE (2 Slot)	29.5±1dBm	24.5±1dBm
EDGE (3 Slot)	28±1dBm	23±1dBm
EDGE (4 Slot)	26.5±1dBm	21±1dBm

Mode	WCDMA Band V
RMC	22±1dBm

Mode	BT
GFSK	8.6±1dBm
$\pi/4$ -DQPSK	6.5±1dBm
8DPSK	7±1dBm





## 11. EUT and Test Setup Photo

### 11.1 EUT Photos

Front side



Back side







Right Edge



Left Edge







Top Edge



Bottom Edge

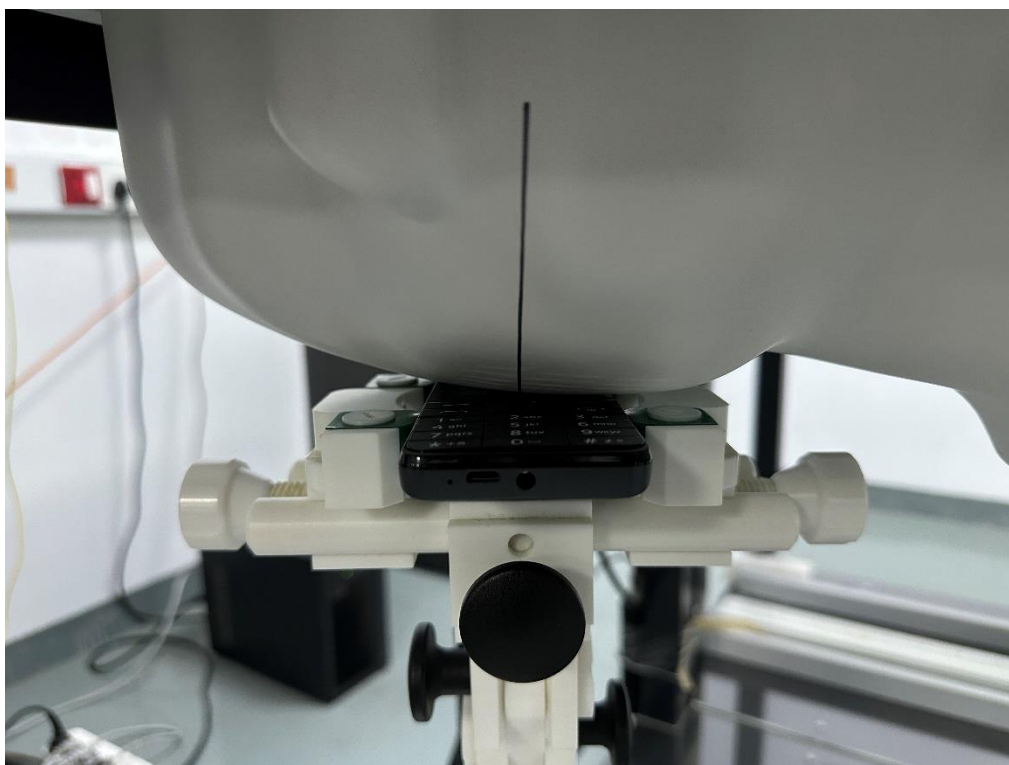




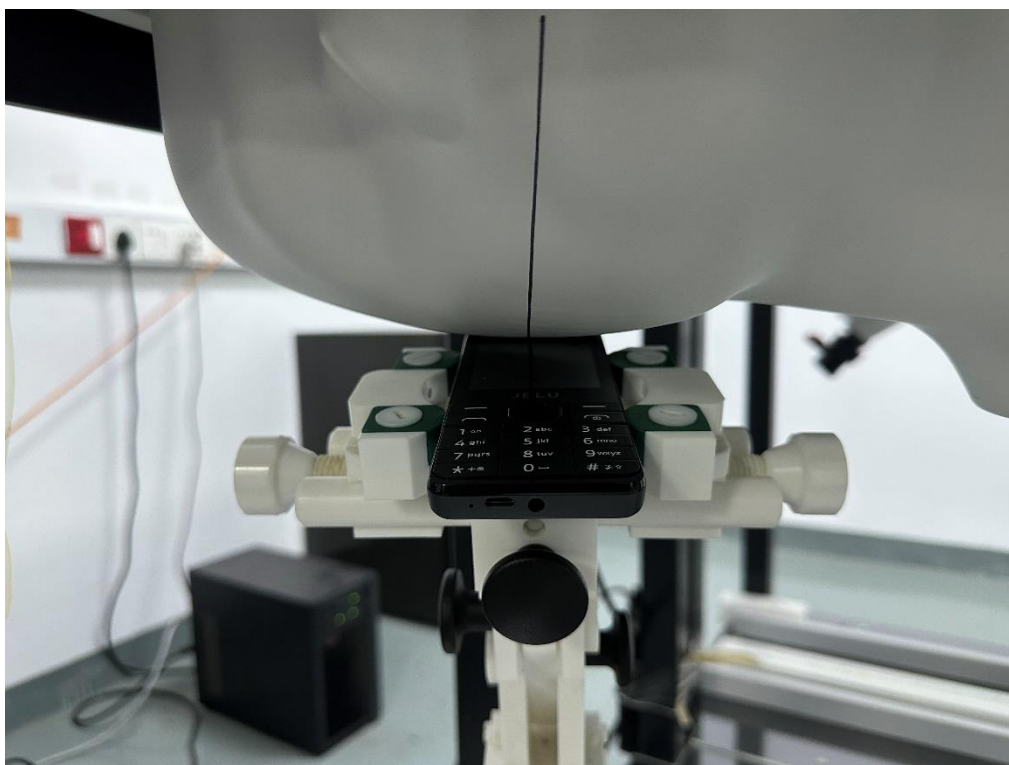


## 11.2 Setup Photos

Right Touch



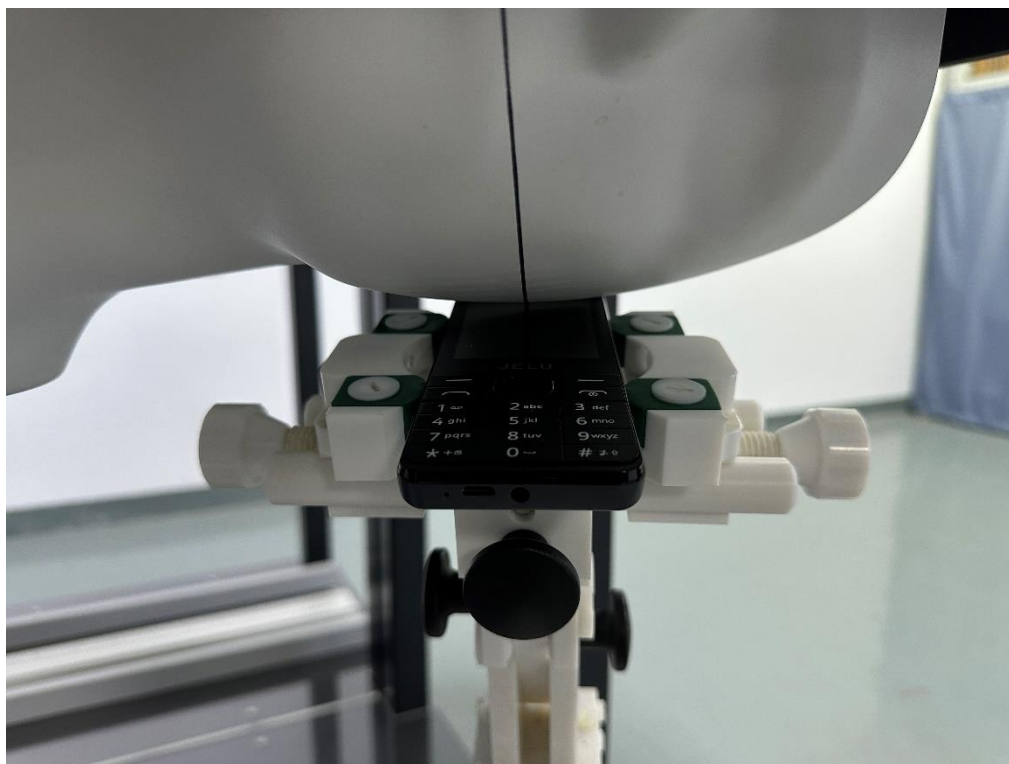
Right Tilt



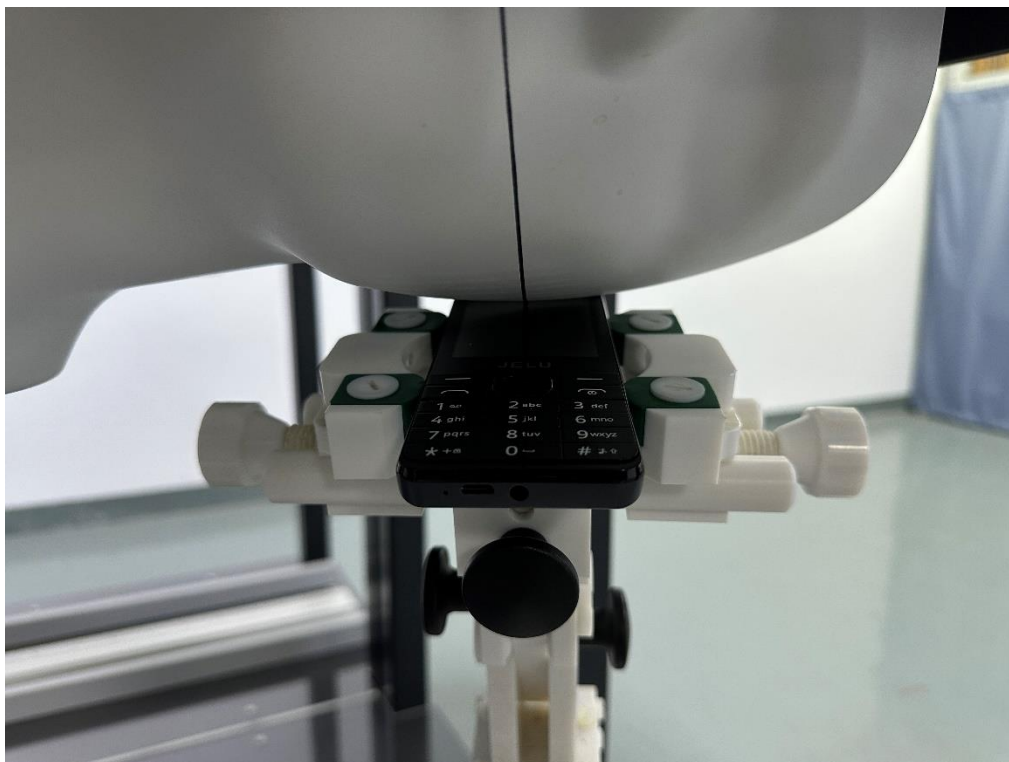




Left Touch



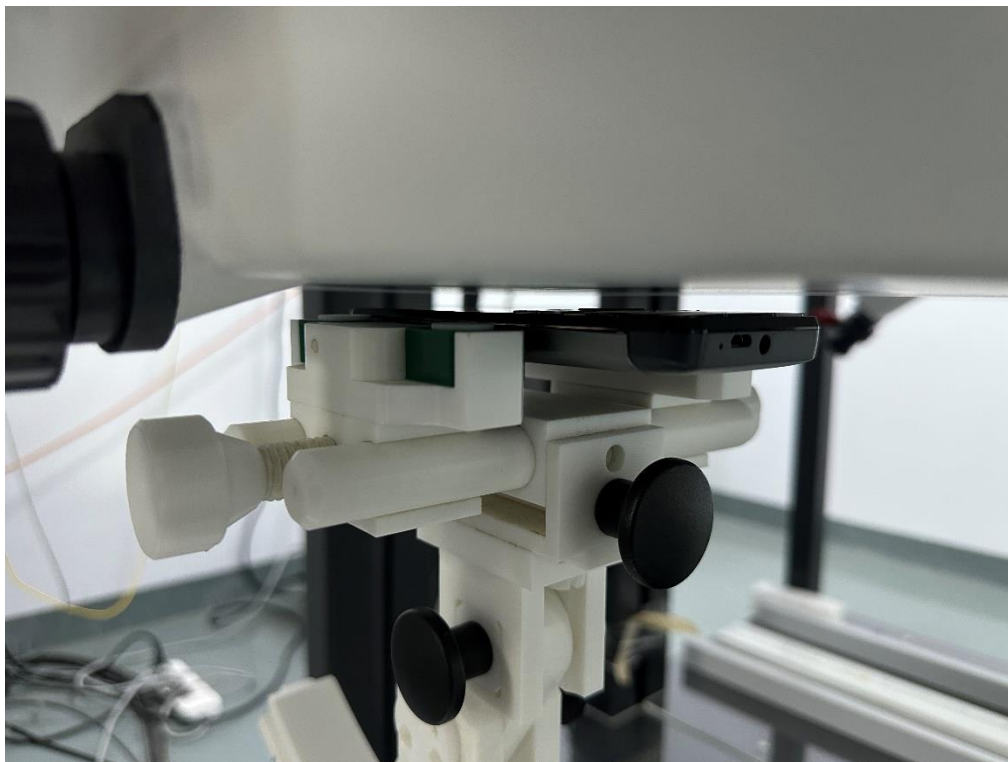
Left Tilt



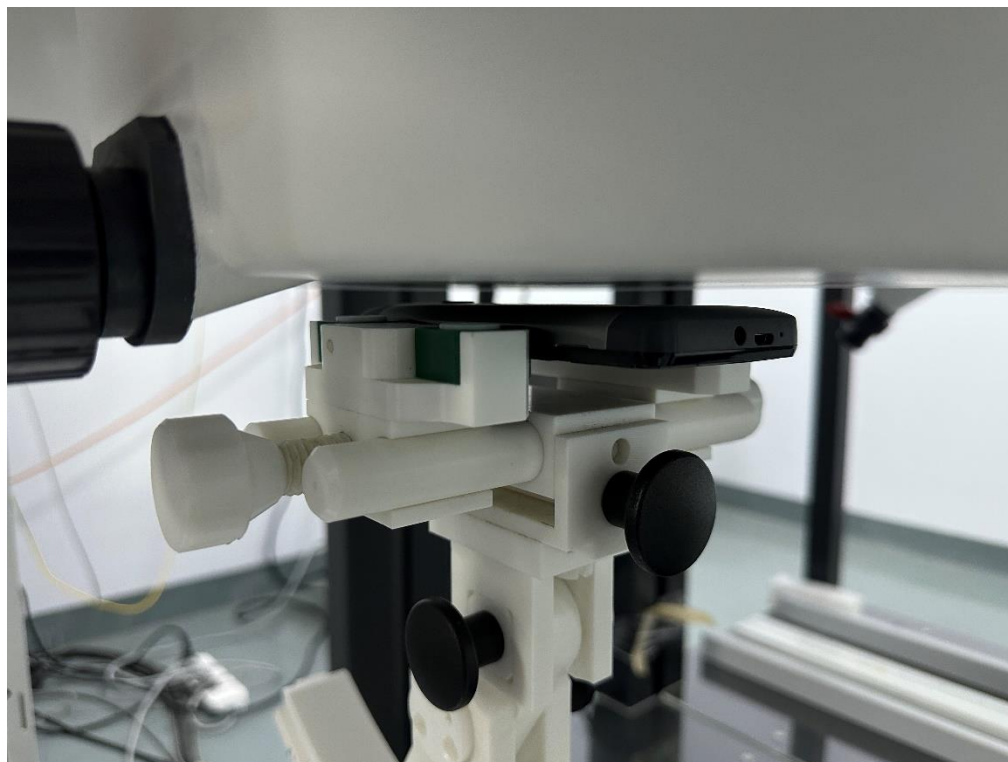




Body Front side (separation distance is 10mm)



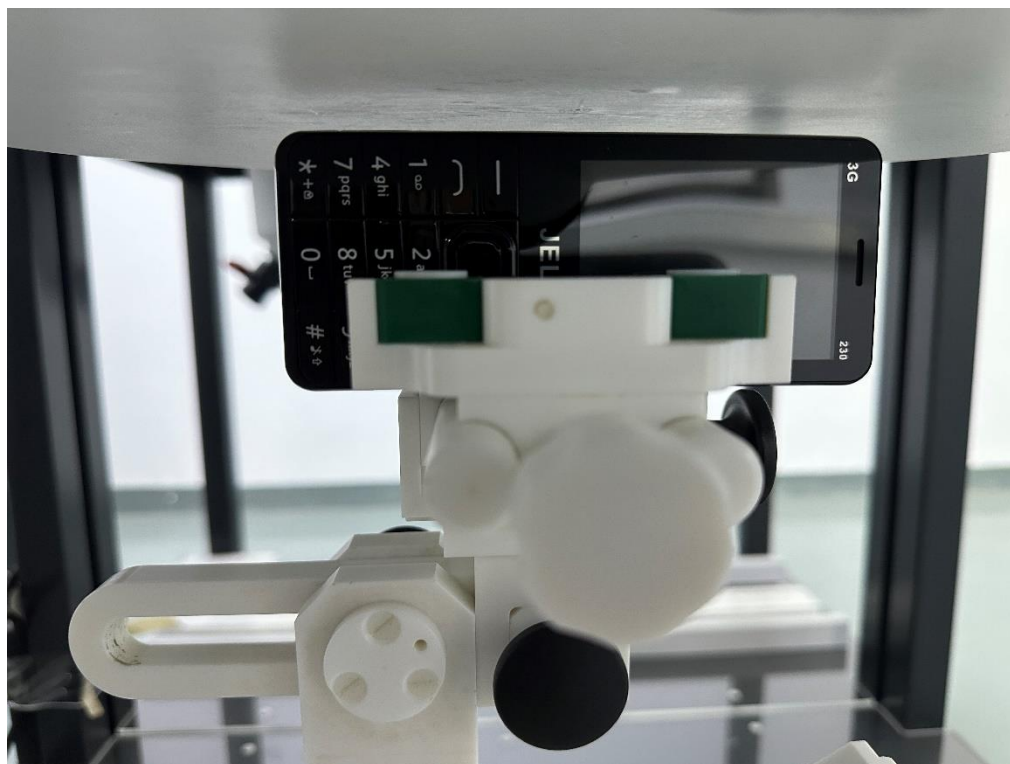
Body Back side (separation distance 10mm)



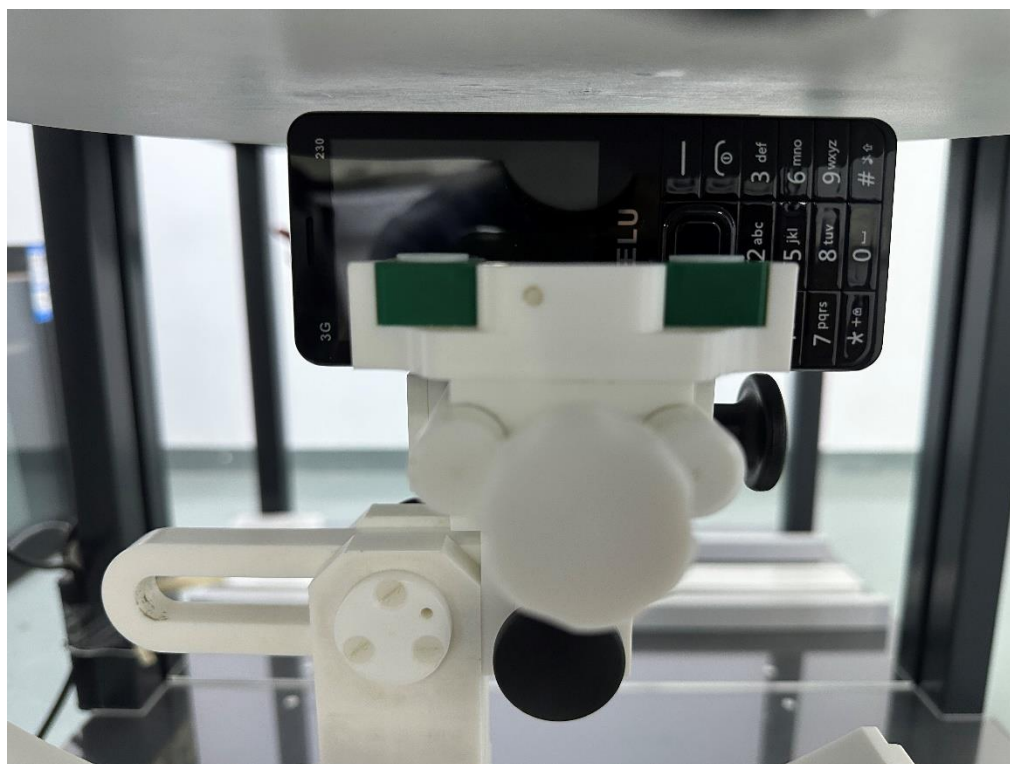




Body Left side (separation distance is 10mm)



Body Right side (separation distance is 10mm)





Body Top side (separation distance is 10mm)

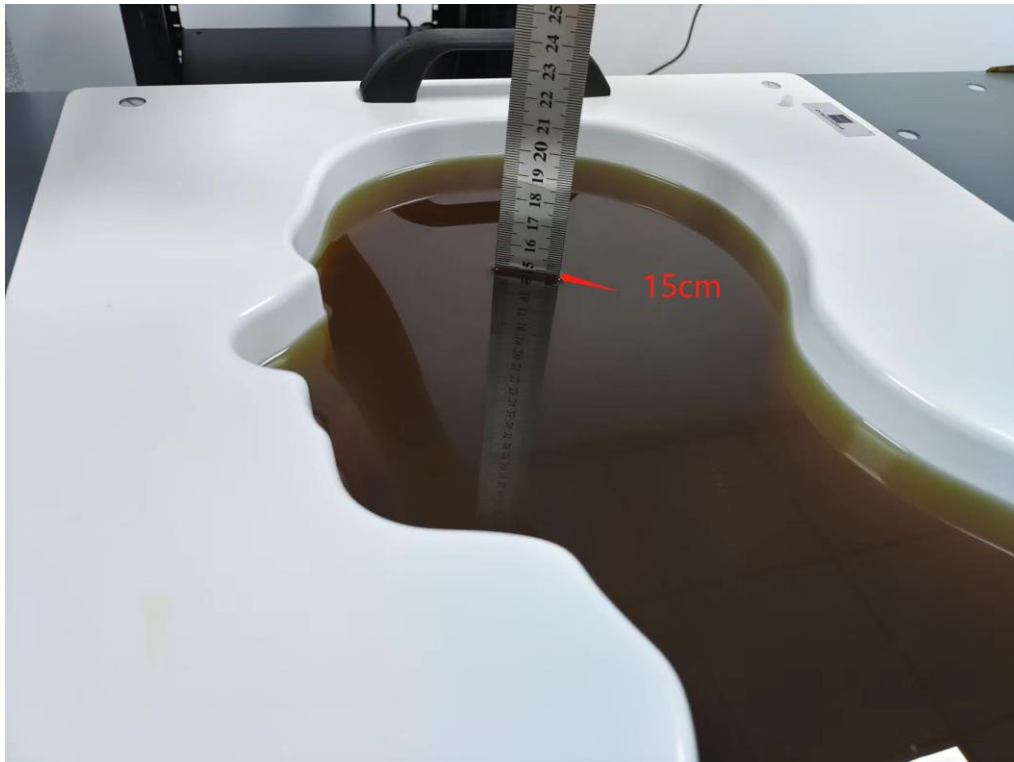


Body Bottom side (separation distance is 10mm)

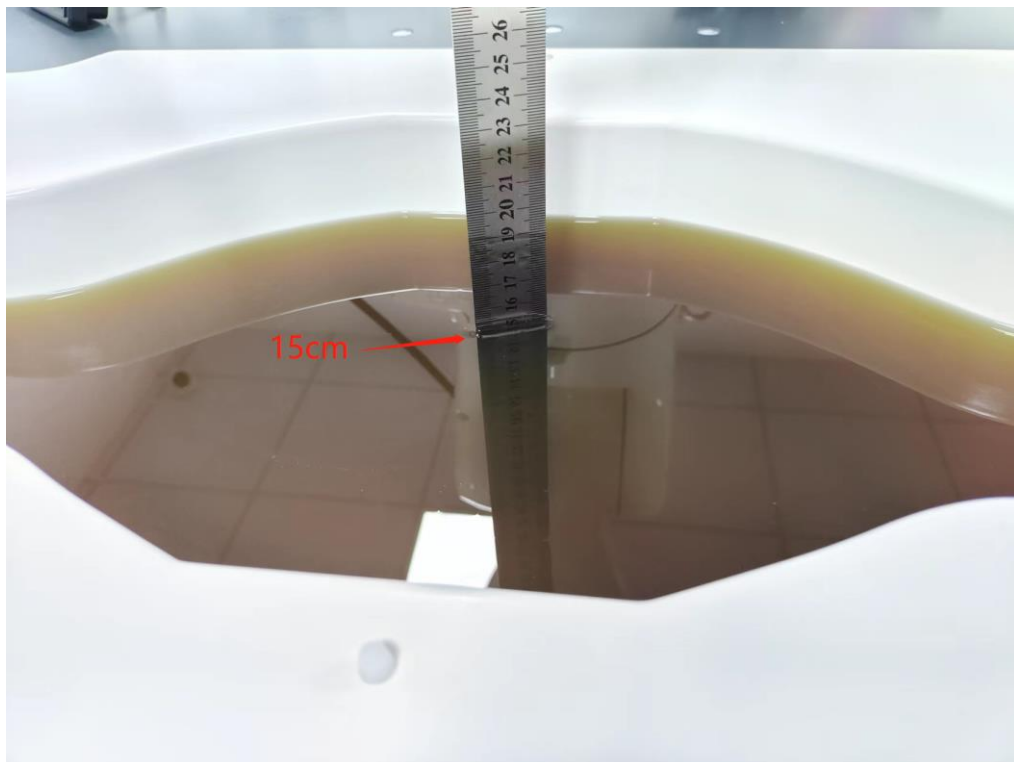




Liquid depth (15 cm)



Liquid depth (15 cm)







## 12. SAR Result Summary

### 12.1 Head SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power(dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GSM	Right Cheek	848.8	0.625	-1.60	32.50	32.27	0.659	/
		Right Tilt	848.8	0.505	-3.69	32.50	32.27	0.532	/
		Left Cheek	848.8	0.725	-3.72	32.50	32.27	<b>0.764</b>	<b>1</b>
		Left Tilt	848.8	0.581	-2.02	32.50	32.27	0.613	/
PCS 1900	GSM	Right Cheek	1850.2	0.508	0.93	28.00	27.50	0.570	/
		Right Tilt	1850.2	0.408	-2.54	28.00	27.50	0.458	/
		Left Cheek	1850.2	0.514	-3.25	28.00	27.50	<b>0.577</b>	<b>3</b>
		Left Tilt	1850.2	0.415	1.79	28.00	27.50	0.466	/
WCDMA Band V	RMC	Right Cheek	826.4	0.809	1.95	23.00	22.79	0.849	/
		Right Cheek	836.4	0.852	-0.16	23.00	22.85	0.882	/
		Right Cheek	846.6	0.779	-0.35	23.00	22.85	0.806	/
		Right Tilt	836.4	0.644	3.27	23.00	22.85	0.667	/
		Left Cheek	826.4	0.976	0.52	23.00	22.79	1.024	/
		Left Cheek	836.4	1.026	-3.73	23.00	22.85	<b>1.062</b>	<b>5</b>
		Left Cheek	846.6	0.934	3.81	23.00	22.85	0.967	/
		Left Tilt	826.4	0.748	0.28	23.00	22.79	0.785	/
		Left Tilt	836.4	0.783	-0.59	23.00	22.85	0.811	/
		Left Tilt	846.6	0.714	1.75	23.00	22.85	0.739	/

Note:

1. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.

a. 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.

b. Scaled SAR(W/kg) = Measured SAR(W/kg) \*Tune-up Scaling Factor

2. Per KDB 865664 D01, Repeated measurement is not required when the original highest measured SAR is <0.80 W/kg.





## 12.2 Body SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power(dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS (GMSK, 3-Slot)	Front Side	824.2	0.667	-1.16	29.00	28.26	0.791	/
		Front Side	836.6	0.833	1.99	29.00	28.89	0.854	/
		Front Side	848.8	0.735	0.72	29.00	28.55	0.815	/
		Back Side	824.2	0.833	-1.72	29.00	28.26	0.988	/
		Back Side	836.6	1.038	0.47	29.00	28.89	<b>1.065</b>	<b>2</b>
		Back Side	848.8	0.918	0.05	29.00	28.55	1.018	/
		Left Side	836.6	0.728	-1.26	29.00	28.89	0.747	/
		Right Side	836.6	0.522	-0.27	29.00	28.89	0.535	/
		Top Side	836.6	0.071	3.54	29.00	28.89	0.073	/
		Bottom Side	836.6	0.654	-2.96	29.00	28.89	0.671	/
PCS 1900	EGPRS(8PSK, 3-Slot)	Front Side	1850.2	0.940	2.01	24.00	23.80	<b>0.984</b>	<b>4</b>
		Front Side	1880	0.681	-2.70	24.00	22.85	0.887	/
		Front Side	1909.8	0.733	1.13	24.00	22.95	0.933	/
		Back Side	1850.2	0.612	-2.79	24.00	23.80	0.641	/
		Left Side	1850.2	0.197	1.43	24.00	23.80	0.206	/
		Right Side	1850.2	0.244	-0.05	24.00	23.80	0.255	/
		Bottom Side	1850.2	0.504	-1.57	24.00	23.80	0.528	/
WCDMA Band V	RMC	Front Side	836.4	0.686	0.77	23.00	22.85	0.710	/
		Back Side	826.4	0.726	0.95	23.00	22.79	0.762	/
		Back Side	836.4	0.853	-0.71	23.00	22.85	<b>0.883</b>	<b>6</b>
		Back Side	846.6	0.769	-0.47	23.00	22.85	0.796	/
		Left Side	836.4	0.600	-1.44	23.00	22.85	0.621	/
		Right Side	836.4	0.428	-0.10	23.00	22.85	0.443	/
		Bottom Side	836.4	0.541	-2.70	23.00	22.85	0.560	/

Note:

- The test separation of all above table is 10mm.
- Per KDB 447498 D01, 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	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)
GSM850	GPRS (GMSK, 3-Slot)	Front Side	836.6	0.813	-0.45	29.00	28.89	0.834
		Front Side	848.8	0.713	0.40	29.00	28.55	0.791
		Back Side	824.2	0.814	2.86	29.00	28.26	0.965
		Back Side	836.6	1.015	-2.16	29.00	28.89	1.041
		Back Side	848.8	0.893	0.41	29.00	28.55	0.990
PCS 1900	EGPRS (8PSK, 3-Slot)	Front Side	1850.2	0.917	-0.55	24.00	23.80	0.960
		Front Side	1880	0.665	-3.58	24.00	22.85	0.867
		Front Side	1909.8	0.715	-3.93	24.00	22.95	0.911
WCDMA Band V	RMC	Right Cheek	826.4	0.808	3.95	23.00	22.79	0.848
		Right Cheek	836.4	0.831	2.83	23.00	22.85	0.860
		Right Cheek	846.6	0.761	1.12	23.00	22.85	0.788
		Left Cheek	826.4	0.949	0.77	23.00	22.79	0.996
		Left Cheek	836.4	0.997	-1.60	23.00	22.85	1.032
		Left Cheek	846.6	0.921	0.05	23.00	22.85	0.953
		Left Tilt	836.4	0.769	-2.82	23.00	22.85	0.796
		Back Side	836.4	0.832	-2.81	23.00	22.85	0.861

### 12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g (W/kg)	1 st Repeated SAR 1g	Ratio
GSM850	GPRS (GMSK, 3-Slot)	Front Side	836.6	0.833	0.813	1.024
		Front Side	848.8	0.735	0.713	1.031
		Back Side	824.2	0.833	0.814	1.023
		Back Side	836.6	1.038	1.015	1.022
		Back Side	848.8	0.918	0.893	1.028
PCS 1900	EGPRS (8PSK, 3-Slot)	Front Side	1850.2	0.940	0.917	1.025
		Front Side	1880	0.681	0.665	1.024
		Front Side	1909.8	0.733	0.715	1.025
WCDMA Band V	RMC	Right Cheek	826.4	0.809	0.808	1.001
		Right Cheek	836.4	0.852	0.831	1.025
		Right Cheek	846.6	0.779	0.761	1.023
		Left Cheek	826.4	0.976	0.949	1.029
		Left Cheek	836.4	1.026	0.997	1.029
		Left Cheek	846.6	0.934	0.921	1.014
		Left Tilt	836.4	0.783	0.769	1.019
		Back Side	836.4	0.853	0.832	1.025

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$  W/Kg.
2. Per KDB 865664 D01, if the ratio of largest to smallest SAR for the original and first repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45$  W/Kg, only one repeated measurement is required.
3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$  or when the original or repeated measurement is  $\geq 1.45$  W/Kg.
4. The ratio is the difference in percentage between original and repeated measured SAR.





## 12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Head	1. GSM + Bluetooth
	2. WCDMA + Bluetooth
Body	1. GSM + Bluetooth
	2. WCDMA + Bluetooth

NOTE:

1. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.

2. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.

3. KDB 447498 / 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)  $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$  for test separation distances  $\leq 50 \text{ mm}$ ;

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 Turn-up Power		Antenna to user(mm)	Frequency (GHz)	Stand Alone SAR(1g) [W/kg]
		dBm				
BT	Head	9.6	9.120	5	2.48	0.383
	Body			5	2.48	0.383

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + Bluetooth	Head	GSM	0.764	1.147
		BT	0.383	
	Body	GSM	1.065	1.448
		BT	0.383	
WCDMA + Bluetooth	Head	WCDMA	1.062	1.445
		BT	0.383	
	Body	WCDMA	0.883	1.266
		BT	0.383	

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
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2022.02.11	2025.02.10
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2024.02.07	2025.02.06
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2024.02.07	2025.02.06
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184-HC	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116184	2024.02.23	2025.02.22
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10





## Appendix A. System Validation Plots

### System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

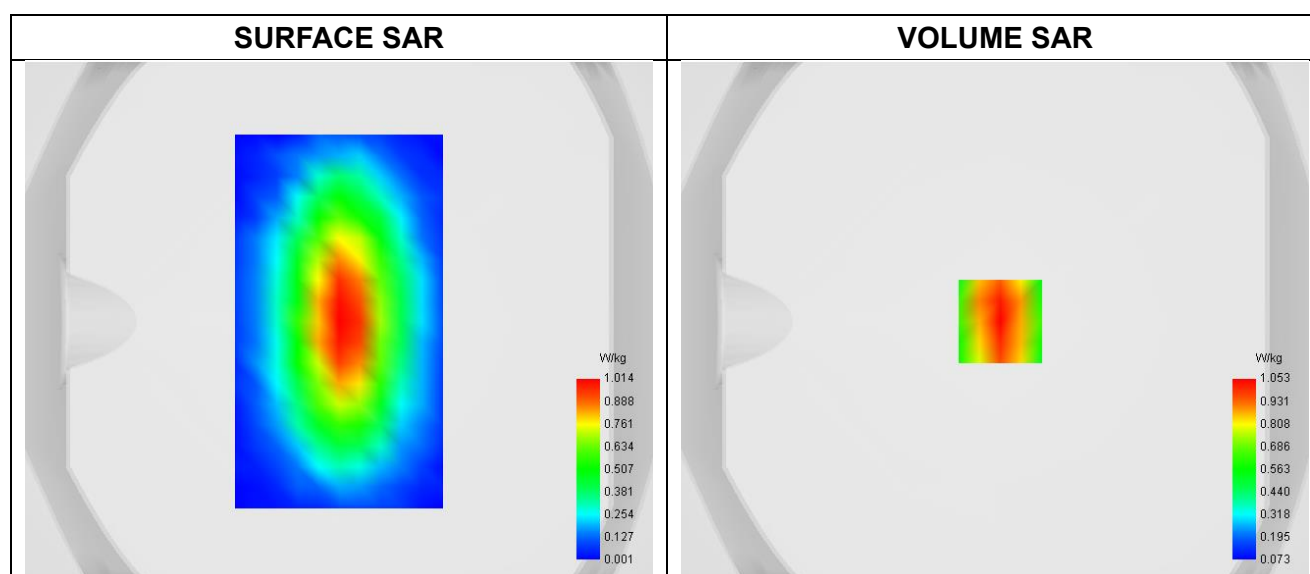
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-11-09

### Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.56
Conductivity (S/m)	0.93
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1



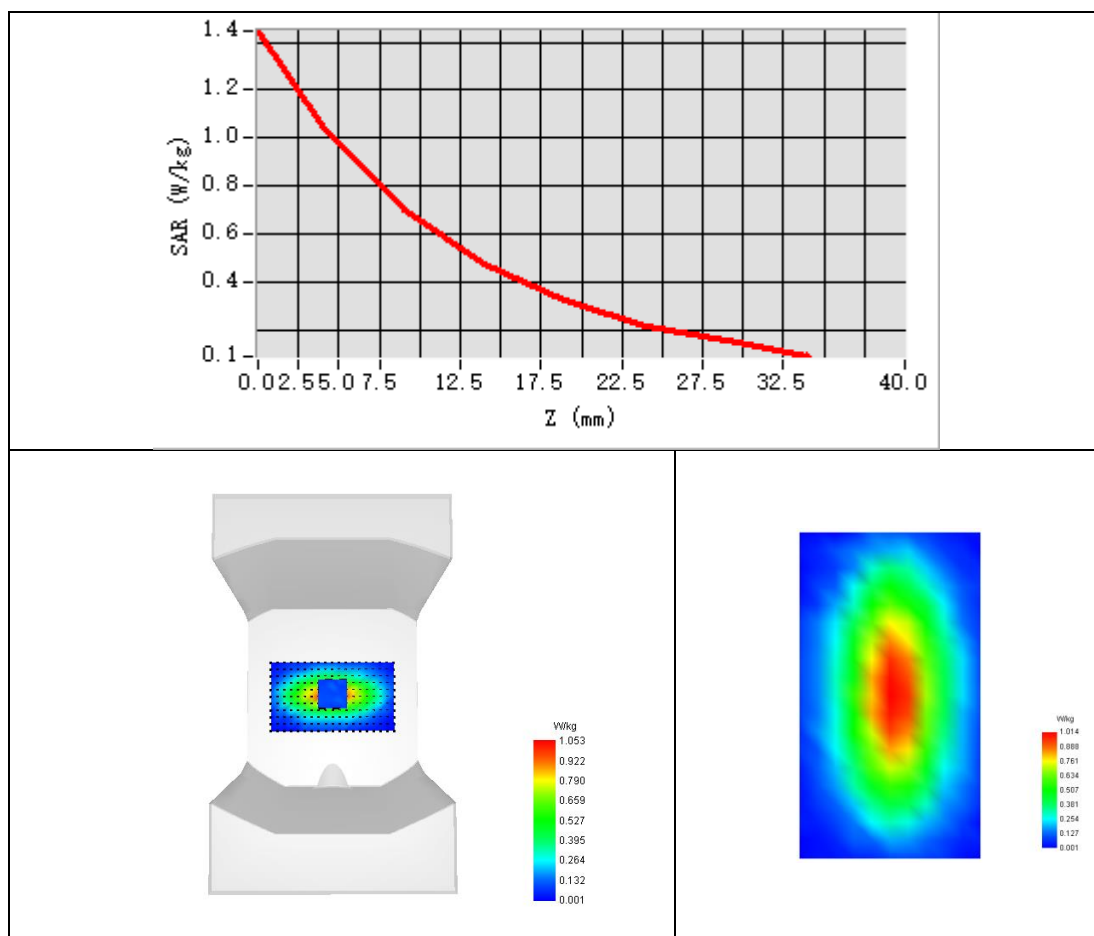
Maximum location: X=3.00, Y=0.00 ; SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	0.615
SAR 1g (W/Kg)	0.985





## Z Axis Scan







## System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

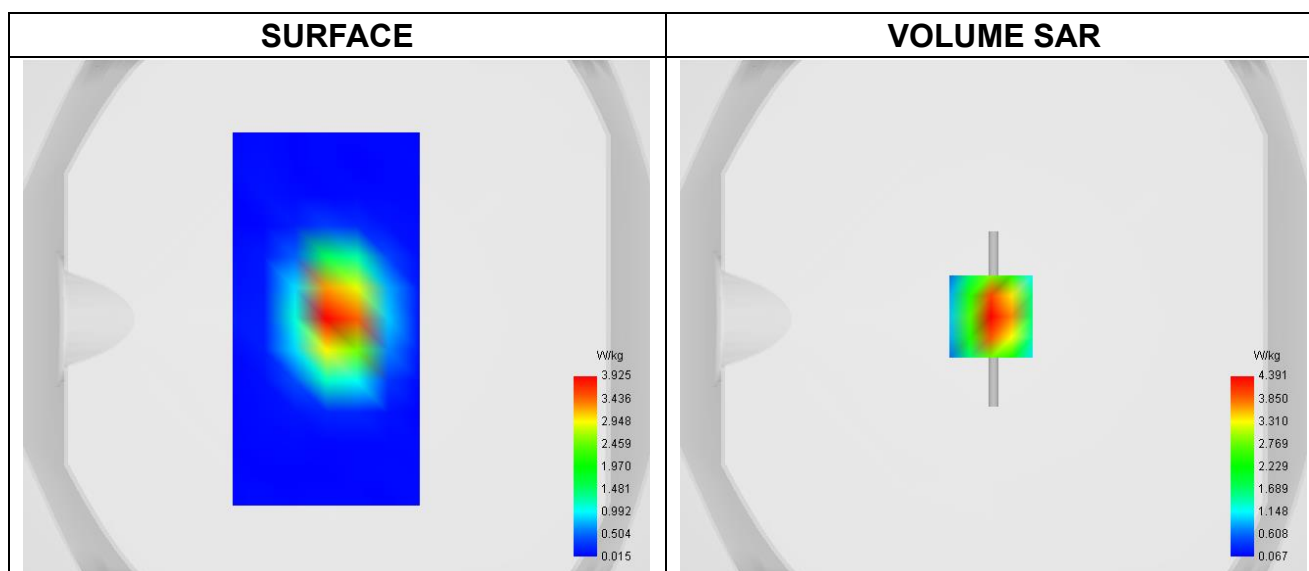
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-11-10

### Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	41.16
Conductivity (S/m)	1.42
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1



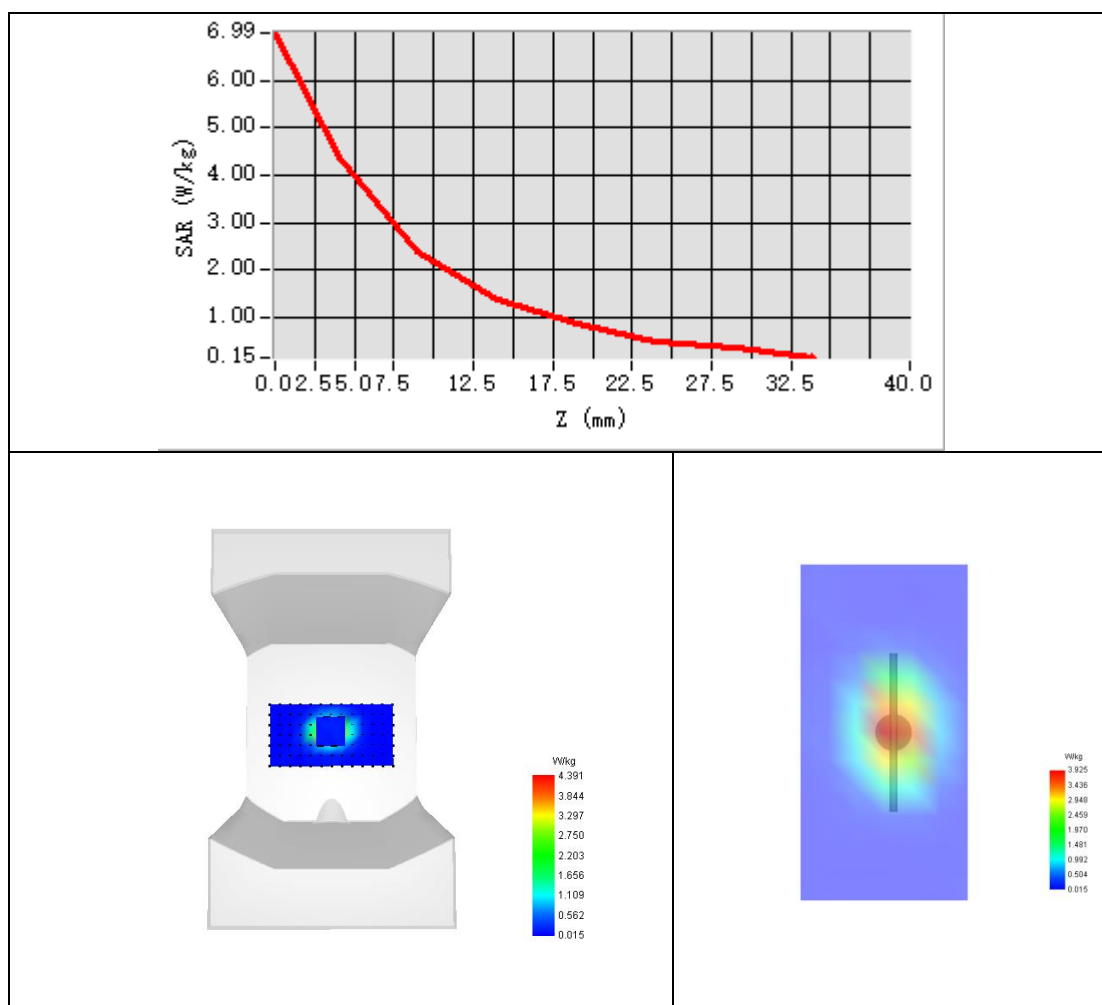
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 6.23 W/kg

SAR 10g (W/Kg)	2.047
SAR 1g (W/Kg)	4.061





## Z Axis Scan





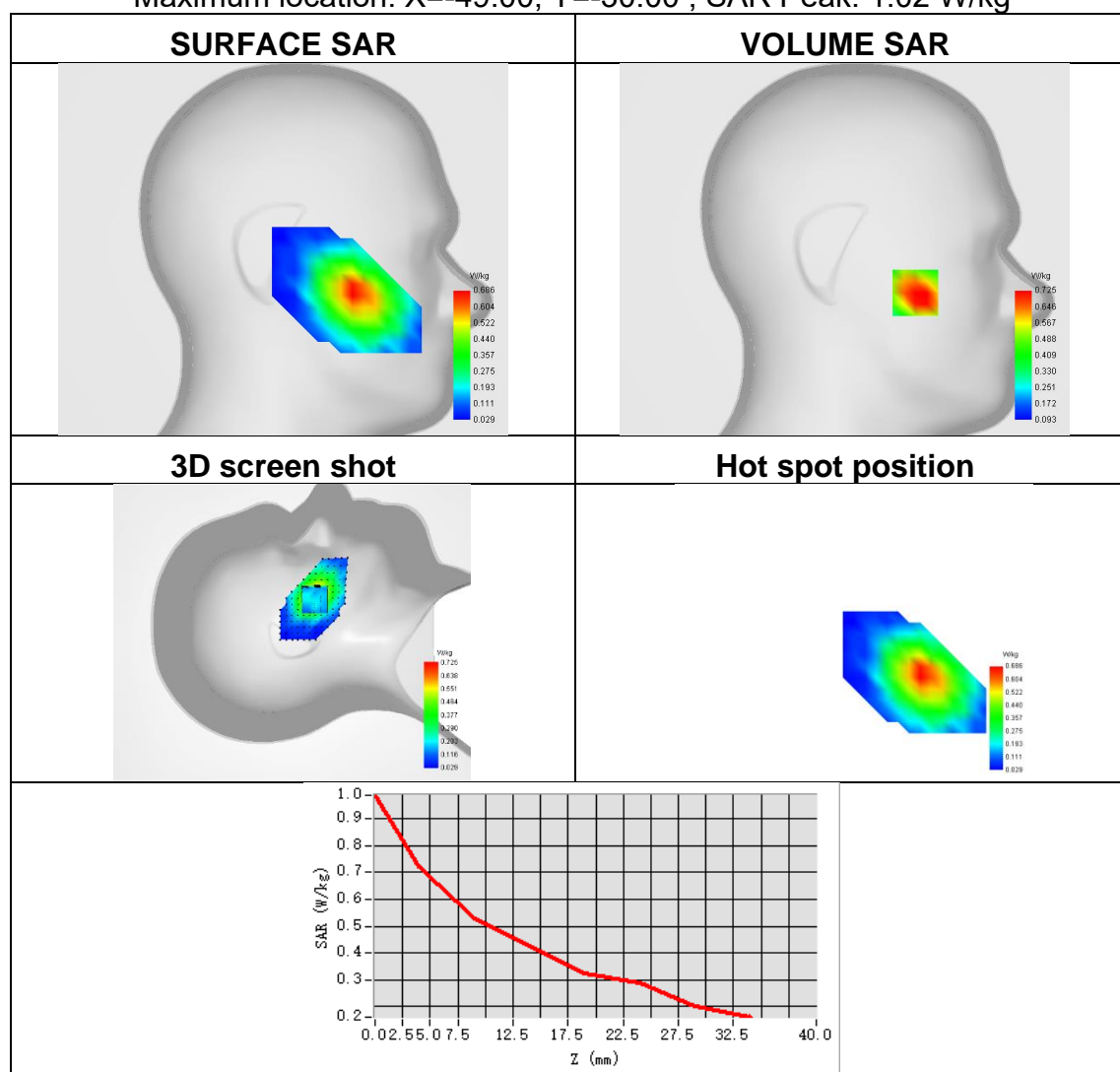


## Appendix B. SAR Test Plots

Plot 1:

Test Date	2024-11-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.504
SAR 1g (W/Kg)	0.725
ConvF	1.70
Relative permittivity	41.56
Conductivity (S/m)	0.93

Maximum location: X=-49.00, Y=-30.00 ; SAR Peak: 1.02 W/kg



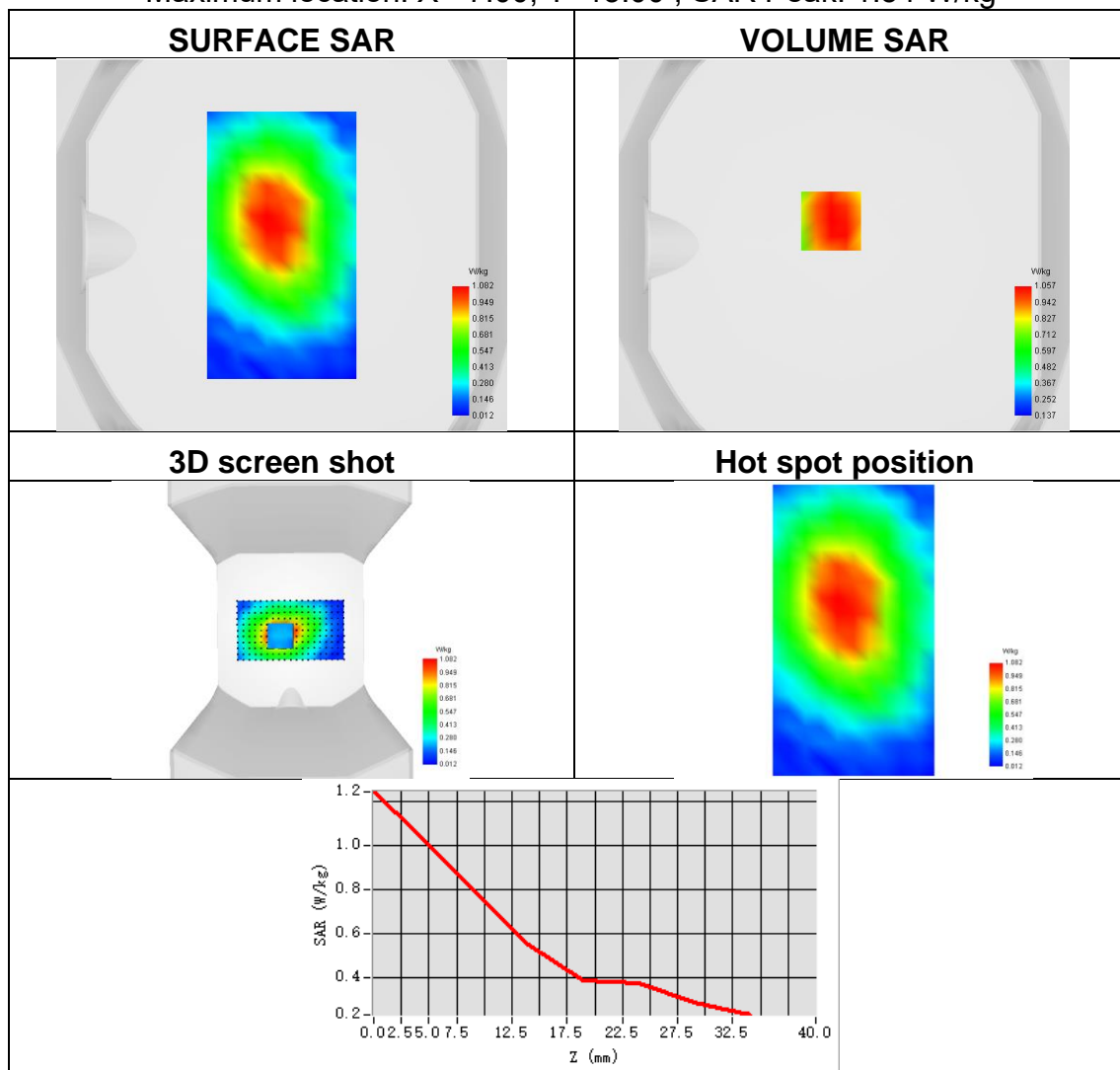




**Plot 2:**

Test Date	2024-11-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.703
SAR 1g (W/Kg)	1.038
ConvF	1.70
Relative permittivity	41.56
Conductivity (S/m)	0.93

Maximum location: X=-7.00, Y=13.00 ; SAR Peak: 1.54 W/kg



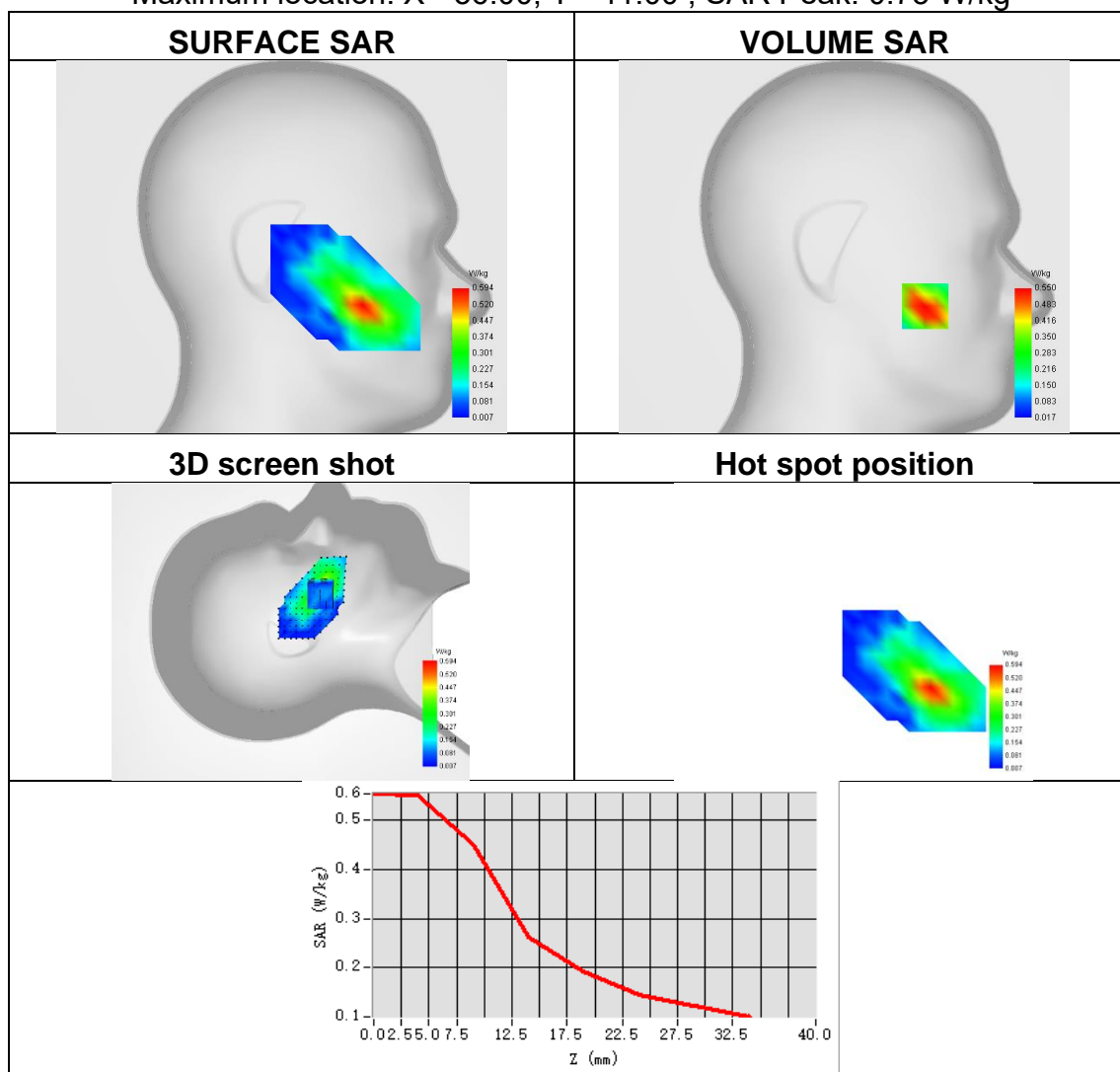




**Plot 3:**

Test Date	2024-11-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.323
SAR 1g (W/Kg)	0.514
ConvF	2.24
Relative permittivity	41.16
Conductivity (S/m)	1.42

Maximum location: X=-56.00, Y=-41.00 ; SAR Peak: 0.75 W/kg



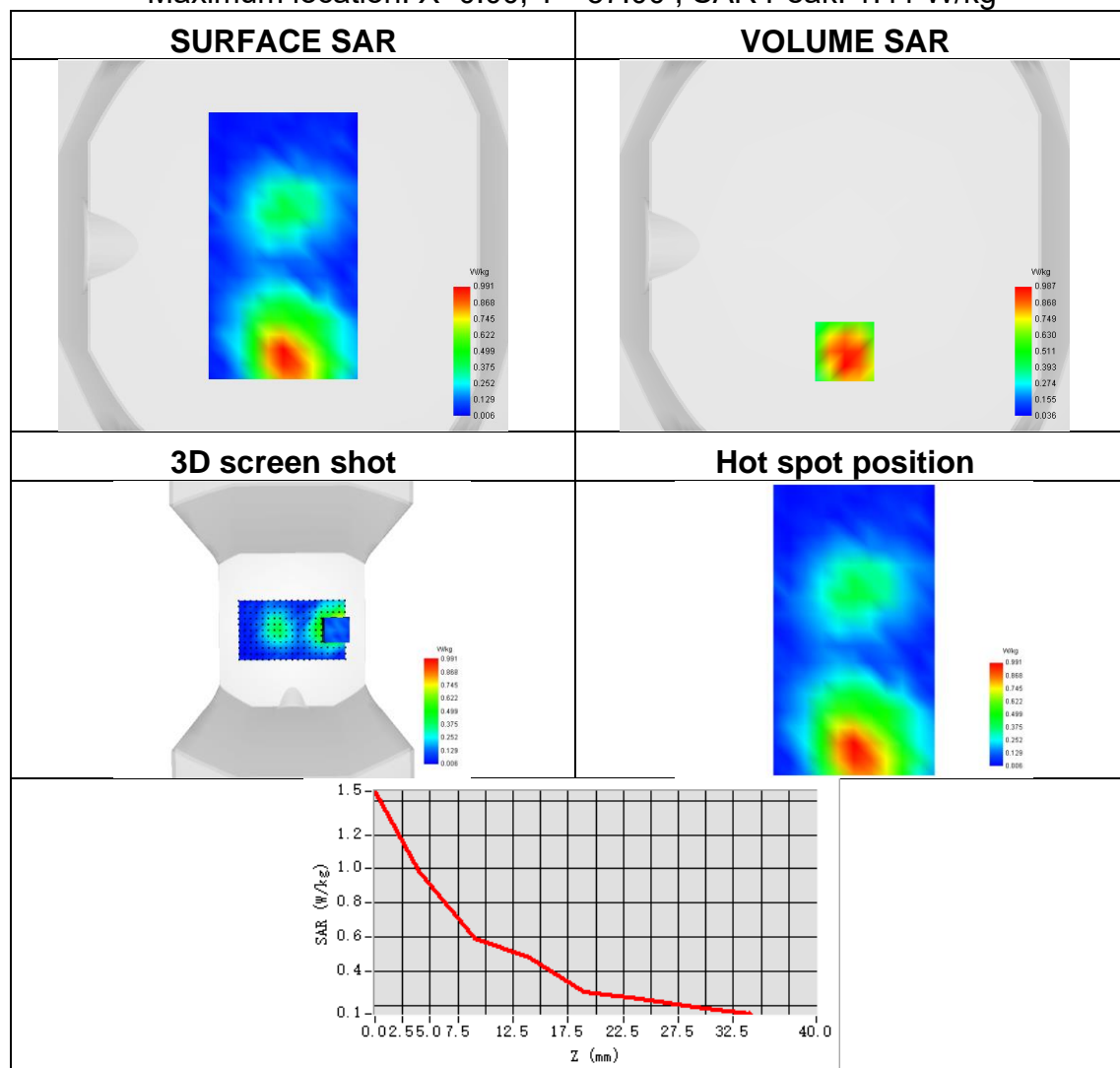




**Plot 4:**

Test Date	2024-11-10
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.594
SAR 1g (W/Kg)	0.940
ConvF	2.24
Relative permittivity	41.16
Conductivity (S/m)	1.42

Maximum location: X=0.00, Y=-57.00 ; SAR Peak: 1.41 W/kg



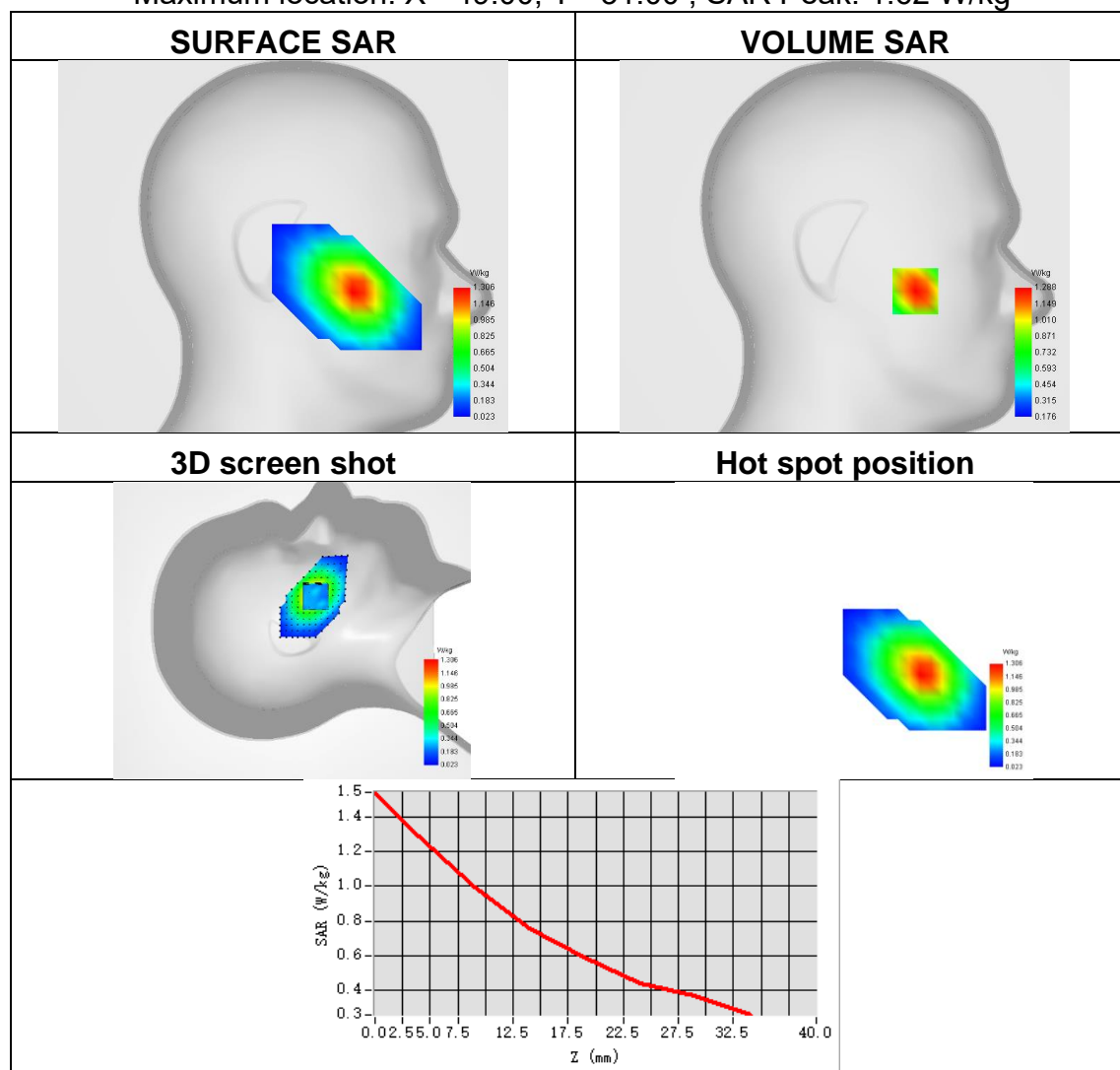




**Plot 5:**

Test Date	2024-11-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	836.4
SAR 10g (W/Kg)	0.771
SAR 1g (W/Kg)	1.026
ConvF	1.70
Relative permittivity	41.56
Conductivity (S/m)	0.93

Maximum location: X=-49.00, Y=-31.00 ; SAR Peak: 1.62 W/kg



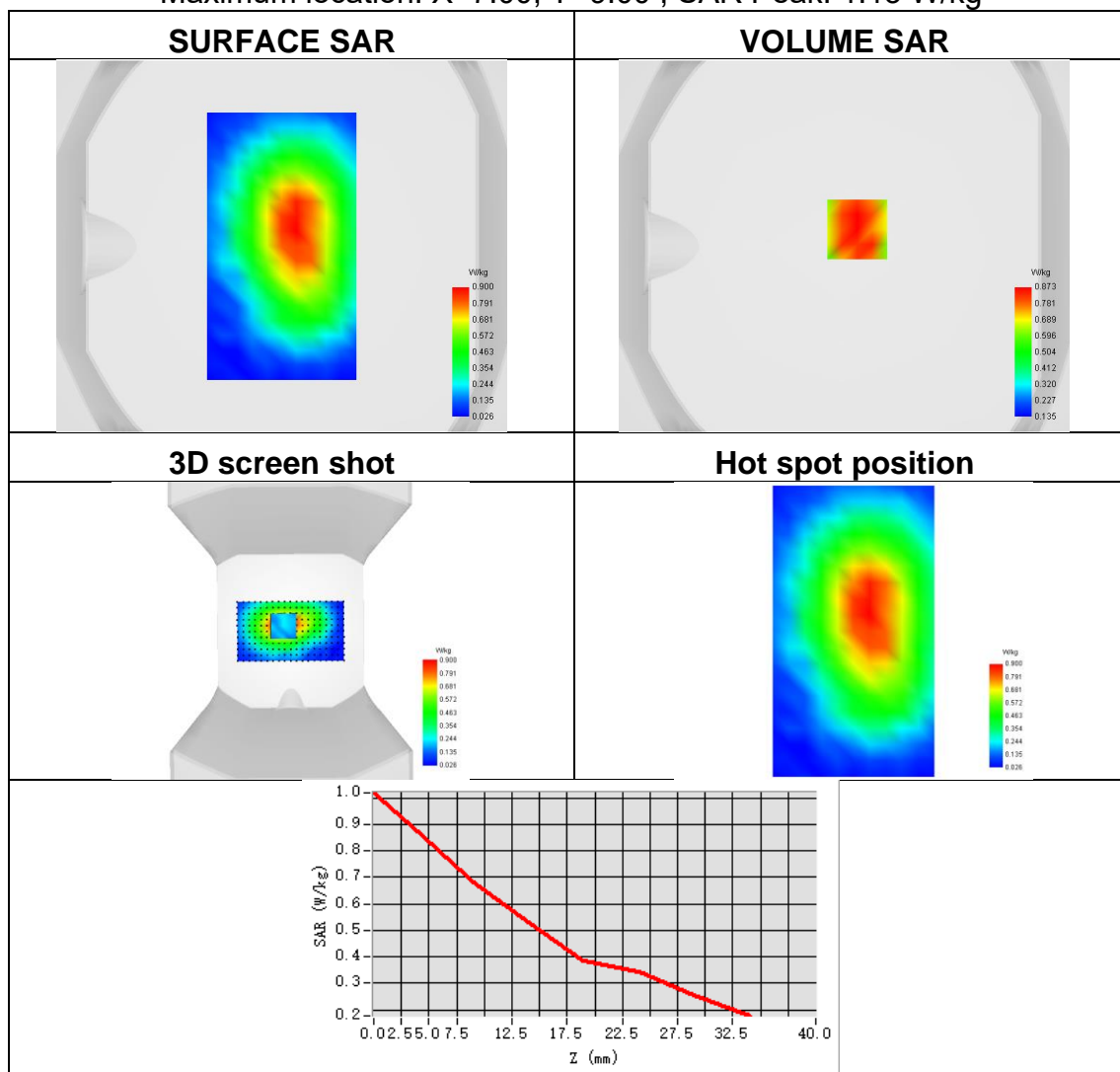




**Plot 6:**

Test Date	2024-11-09
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	836.4
SAR 10g (W/Kg)	0.629
SAR 1g (W/Kg)	0.853
ConvF	1.70
Relative permittivity	41.56
Conductivity (S/m)	0.93

Maximum location: X=7.00, Y=9.00 ; SAR Peak: 1.13 W/kg







## **Appendix C. Probe Calibration and Dipole Calibration Report**

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※