SAR Test Report

Report No.: STS2504053H01

Issued for

United Creation Technology Corp.,Ltd

A801, Building 5, Shenzhen Software Industry Base, No. 11, 13, 15, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen, China.

Product Name:	4G smart phone
Brand Name:	RCA
Model Name:	Prime
Series Model(s):	N/A
FCC ID:	2AU3D-RCAPRIME
Test Standard:	ANSI/IEEE Std. C95.1 FCC 47 CFR Part 2 (2.1093) IEEE Std. 1528-2013
Max. Report SAR (1g)	Head: 0.318 W/kg Body: 0.683 W/kg

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

TEST REPORT CERTIFICATION

Applicant's name ..... : United Creation Technology Corp.,Ltd

Address ..... : A801, Building 5, Shenzhen Software Industry Base, No. 11, 13, 15, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen, China.

Manufacturer's Name ..... : United Creation Technology Corp.,Ltd

Address ..... : A801, Building 5, Shenzhen Software Industry Base, No. 11, 13, 15, Haitian 1st Road, Binhai Community, Yuehai Street, Nanshan District, Shenzhen, China.

Product description

Product name ..... : 4G smart phone

Brand name ..... : RCA

Model name ..... : Prime

Series Model..... : N/A

Sample Number..... : 250410006-1

Standards..... : ANSI/IEEE Std. C95.1
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..... : 16 Apr. 2025 ~ 21 Apr. 2025

Date of Issue..... : 09 May 2025

Test Result..... : **Pass**

Testing Engineer : Xin Liu

(Xin.Liu)

Technical Manager : Shi fan. long

(Shifan. Long)

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SHENZHEN STS TEST SERVICES CO., LTD. TESTING APPROVAL

Table of Contents

1. General Information **5**

1.1 EUT Description 5

1.2 Test Environment 7

1.3 Test Factory 7

2. Test Standards and Limits **8**

3. SAR Measurement System **9**

3.1 Definition of Specific Absorption Rate (SAR) 9

3.2 SAR System 9

4. Tissue Simulating Liquids **12**

4.1 Simulating Liquids Parameter Check 12

5. SAR System Validation **16**

5.1 Validation System 16

5.2 Validation Result 17

6. SAR Evaluation Procedures **18**

7. EUT Antenna Location Sketch **19**

7.1 SAR test exclusion consider table 20

8. EUT Test Position **26**

8.1 Define Two Imaginary Lines on the Handset 26

8.2 Hotspot mode exposure position condition 27

9. Uncertainty **28**

9.1 Measurement Uncertainty 28

10. Conducted Power Measurement **31**

10.1 Test Result 31

11. EUT and Test Setup Photo **54**

11.1 EUT Photo 54

11.2 Setup Photo 57

12. SAR Result Summary **63**

12.1 Head SAR 63

12.2 Body Worn and Hotspot 67

12.3 Simultaneous Multi-band Transmission Evaluation 72

13. Equipment List **75**

Appendix A. System Validation Plots **76**

Appendix B. SAR Test Plots **92**

Appendix C. Probe Calibration and Dipole Calibration Report **124**

Revision History

Rev.	Issue Date	Report No.	Effect Page	Contents
00	09 May 2025	STS2504053H01	ALL	Initial Issue

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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	4G smart phone
Brand Name	RCA
Model Name	Prime
Series Model	N/A
Model Difference	N/A
Power supply	DC 3.85V From battery and DC 5.0V From external circuit
Adapter information	Model: Prime Input: AC 100-240V 50/60Hz 0.5A Output: DC 5.0V 2.0A 10.0W
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	T341_9230_MB_D4UF_V1.0
Software Version	RCA_Prime_V01_20241223
Frequency Range	GSM 850: 824.2 MHz-848.8 MHz PCS1900: 1850.2 MHz-1909.8 MHz WCDMA Band II: 1852.4 MHz ~ 1907.6 MHz WCDMA Band IV:1712.4 MHz ~ 1752.6 MHz WCDMA Band V: 826.4 MHz ~ 846.6 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 MHz ~ 716 MHz LTE Band 66: 1710 MHz ~ 1780 MHz LTE Band 71: 663 MHz ~ 698 MHz WLAN802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz Bluetooth: 2402 MHz to 2480 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5180 ~ 5240 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5745 ~ 5825 MHz

	Band	Mode	Head (W/kg)	Body Worn and Hotspot (W/kg)
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:5mm	PCE	GSM 850	0.307	0.267
	PCE	GSM 1900	0.083	0.347
	PCE	WCDMA Band II	0.318	0.683
	PCE	WCDMA Band IV	0.143	0.463
	PCE	WCDMA Band V	0.231	0.212
	PCE	LTE Band 2	0.143	0.667
	PCE	LTE Band 4	0.226	0.420
	PCE	LTE Band 5	0.232	0.240
	PCE	LTE Band 7	0.216	0.314
	PCE	LTE Band 12	0.130	0.171
	PCE	LTE Band 17	0.121	0.133
	PCE	LTE Band 66	0.198	0.458
	PCE	LTE Band 71	0.260	0.491
	DSS	BT[Note]	0.046	0.046
	DTS	2.4G WLAN	0.212	0.211
	NII	5.2G WLAN	0.207	0.280
	NII	5.8G WLAN	0.197	0.190
1-g Sum SAR			0.530	0.963
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 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 5G WLAN: 802.11a(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11ac(OFDM):BPSK,QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK +π/4DQPSK+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 (℃)	18-25
Humidity (%RH)	30-70

1.3 Test Factory

ShenZhen STS Test Services Co.,Ltd.

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

FCC test Firm Registration No.: 625569

IC Registration No.: 12108A

A2LA Certificate No.: 4338.01

2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	IEEE Std C95.1, 2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric,Magnetic, and Electromagnetic Fields,0 Hz to 300 GHz. It specifies the maximum exposure limit of 1.6 W/kg as averaged over any 1 gram of tissue for portable devices being used within 20 cm of the user in the uncontrolled environment.
3	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
4	FCC KDB 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
5	FCC KDB 865664 D01 v01r04	SAR Measurement 100 MHz to 6 GHz
6	FCC KDB 865664 D02 v01r02	RF Exposure Reporting
7	FCC KDB 941225 D01 v03r01	SAR Measurement Procedures for 3G Devices
8	FCC KDB 941225 D05 v02r05	SAR for LTE Devices
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	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:

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

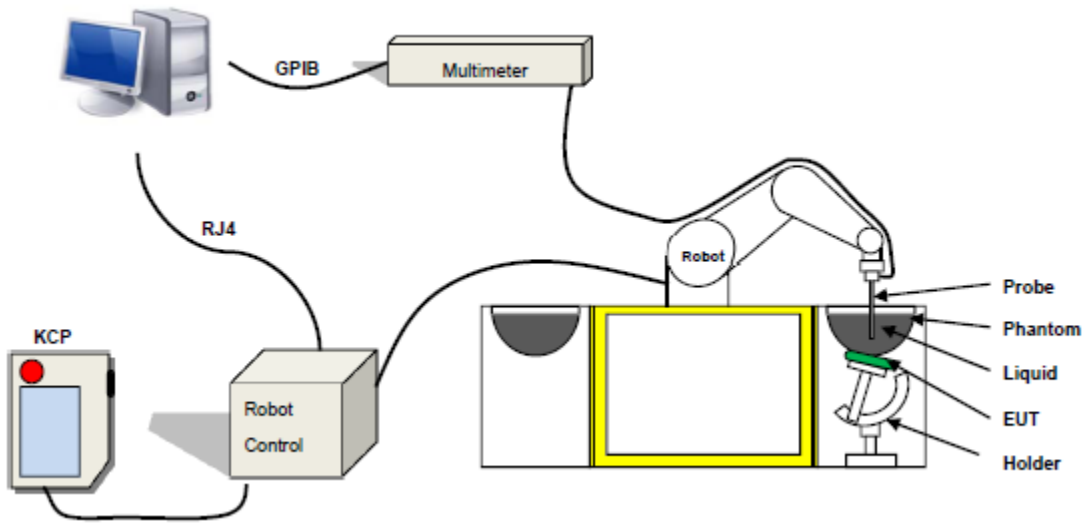
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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

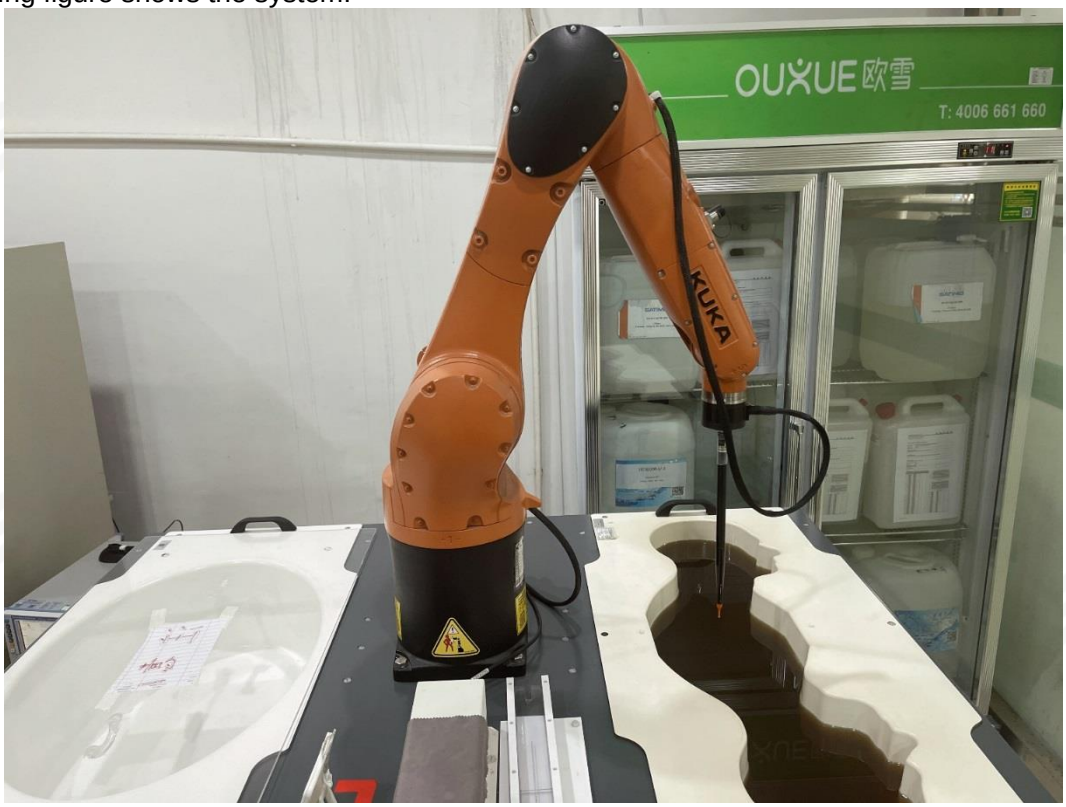
MVG SAR System Diagram:



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 EPGO352 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 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

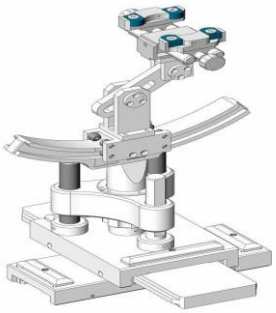
3.2.2 Phantom

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 of 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	εr	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

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LIQUID MEASUREMENT RESULTS

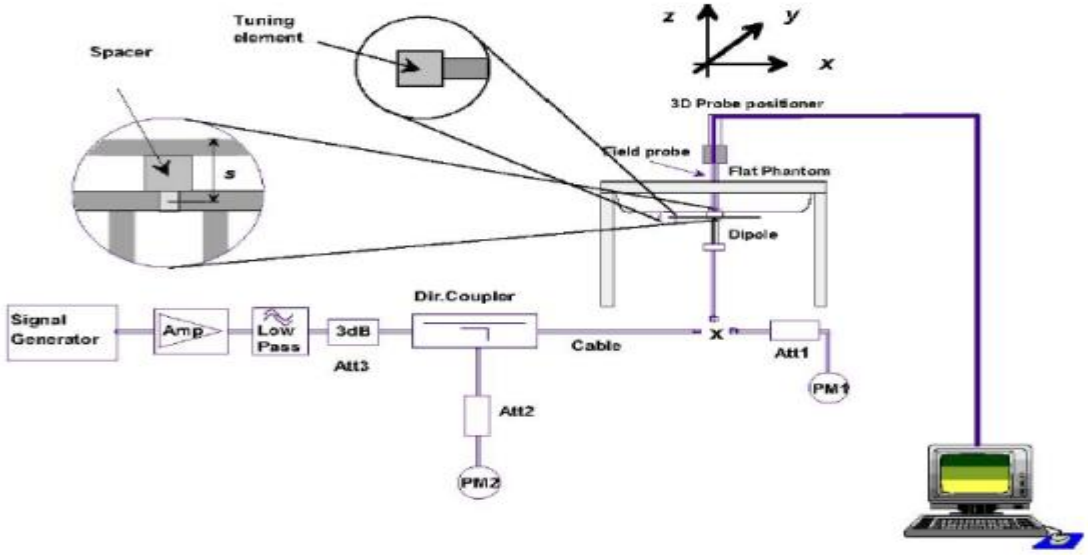
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-04-16	21.8	41	673	21.5	Permittivity	42.31	43.04	1.72	±5
					Conductivity	0.88	0.87	-1.68	±5
2025-04-16	21.8	41	683	21.5	Permittivity	42.26	42.46	0.48	±5
					Conductivity	0.89	0.88	-0.62	±5
2025-04-16	21.9	41	704	21.7	Permittivity	42.15	42.51	0.87	±5
					Conductivity	0.89	0.87	-1.91	±5
2025-04-16	21.9	42	709	21.6	Permittivity	42.12	42.15	0.07	±5
					Conductivity	0.89	0.89	0.31	±5
2025-04-16	22.0	42	710	21.8	Permittivity	42.11	42.16	0.11	±5
					Conductivity	0.89	0.85	-4.21	±5
2025-04-16	22.1	42	750	21.8	Permittivity	41.90	42.63	1.74	±5
					Conductivity	0.89	0.85	-4.49	±5
2025-04-17	22.5	56	826.4	22.1	Permittivity	41.54	41.22	-0.77	±5
					Conductivity	0.90	0.90	0.11	±5
2025-04-17	22.5	56	829	22.2	Permittivity	41.53	41.84	0.75	±5
					Conductivity	0.90	0.89	-1.03	±5
2025-04-17	22.5	57	836.6	22.2	Permittivity	41.49	40.83	-1.60	±5
					Conductivity	0.90	0.91	1.09	±5
2025-04-17	22.6	57	844	22.3	Permittivity	41.46	41.95	1.19	±5
					Conductivity	0.90	0.92	2.10	±5
2025-04-17	22.6	57	835	22.3	Permittivity	41.43	41.31	-0.29	±5
					Conductivity	0.90	0.91	0.91	±5
2025-04-18	22.8	48	1712.6	22.5	Permittivity	40.12	40.68	1.38	±5
					Conductivity	1.35	1.30	-3.71	±5
2025-04-18	22.8	48	1720	22.5	Permittivity	40.11	40.98	2.16	±5
					Conductivity	1.35	1.39	2.64	±5
2025-04-18	22.8	49	1732.5	22.5	Permittivity	40.10	40.46	0.91	±5
					Conductivity	1.36	1.33	-2.31	±5
2025-04-18	22.8	49	1800	22.5	Permittivity	40.00	40.85	2.13	±5
					Conductivity	1.40	1.42	1.43	±5
2025-04-19	21.0	41	1852.4	20.7	Permittivity	40.00	40.95	2.38	±5
					Conductivity	1.40	1.45	3.57	±5
2025-04-19	21.0	41	1860	20.7	Permittivity	40.00	40.36	0.90	±5
					Conductivity	1.40	1.39	-0.71	±5
2025-04-19	21.1	42	1880	20.9	Permittivity	40.00	40.93	2.33	±5
					Conductivity	1.40	1.43	2.14	±5
2025-04-19	21.1	42	1900	20.8	Permittivity	40.00	41.20	3.00	±5
					Conductivity	1.40	1.36	-2.86	±5
2025-04-19	21.1	42	1907.6	20.8	Permittivity	40.00	40.67	1.68	±5
					Conductivity	1.40	1.36	-2.86	±5

2025-04-20	24.0	55	2412	23.7	Permittivity	39.27	39.27	0.00	±5
					Conductivity	1.76	1.74	-1.39	±5
2025-04-20	24.1	55	2450	23.8	Permittivity	39.20	40.13	2.37	±5
					Conductivity	1.80	1.76	-2.22	±5
2025-04-20	23.3	57	2510	23.0	Permittivity	39.12	39.51	1.00	±5
					Conductivity	1.86	1.91	2.47	±5
2025-04-20	23.4	57	2535	23.0	Permittivity	39.09	39.54	1.16	±5
					Conductivity	1.89	1.93	2.08	±5
2025-04-20	23.5	57	2600	23.2	Permittivity	39.00	39.60	1.54	±5
					Conductivity	1.96	2.02	3.06	±5
2025-04-21	22.3	50	5180	22.0	Permittivity	36.02	36.62	1.67	±5
					Conductivity	4.64	4.63	-0.19	±5
2025-04-21	22.3	50	5200	22.0	Permittivity	36.00	35.75	-0.69	±5
					Conductivity	4.66	4.64	-0.43	±5
2025-04-21	23.1	50	5745	22.8	Permittivity	35.36	36.20	2.39	±5
					Conductivity	5.21	5.23	0.34	±5
2025-04-21	23.2	50	5800	22.9	Permittivity	35.30	36.10	2.27	±5
					Conductivity	5.27	5.26	-0.19	±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

Justification for Extended SAR Dipole Calibrations

Usage of SAR dipoles calibrated less than 3 years ago but more than 1 year ago were confirmed in maintaining retum loss (>20 dB, within 20% of prior calibration) and impedance (within 5 ohm from prior calibration) requirements per extended calibrations in KDB 865664 D01:

Dipole		Date of Measurement	Return Loss (dB)	Delta (%)	Impedance	Delta(ohm)
SN 30/14 DIP0G750-331	Head Liquid	2023-07-04	-25.47	/	55.2	/
		2024-07-01	-25.98	2.00	54.86	-0.62
SN 30/14 DIP0G835-332	Head Liquid	2023-07-04	-28.13	/	51.4	/
		2024-07-01	-28.43	1.07	52.62	2.37
5023-DIP1G800-747	Head Liquid	2023-12-20	-27.38	/	50.2	/
		2024-12-11	-29.08	6.21	46.36	-7.65
SN 30/14 DIP1G900-333	Head Liquid	2023-09-14	-23.66	/	51.4	/
		2024-09-13	-23.62	-0.17	50.73	-1.30
SN 30/14 DIP2G450-335	Head Liquid	2023-07-04	-26.03	/	46.3	/
		2024-07-01	-26.42	1.50	47.25	2.05
SN 30/14 DIP2G600-336	Head Liquid	2023-07-04	-34.32	/	50.3	/
		2024-07-01	-34.78	1.34	49.61	-1.37
SN 13/14 WGA32	Head Liquid	2023-07-04	< -8.23	/	/	/
		2024-07-01	-13.17	/	/	/

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

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2025-04-16	750	100	0.874	8.74	8.49	2.94	10
2025-04-17	835	100	0.940	9.40	9.63	-2.39	10
2025-04-18	1800	100	3.702	37.02	38.40	-3.59	10
2025-04-19	1900	100	3.876	38.76	39.84	-2.71	10
2025-04-20	2450	100	5.320	53.20	54.70	-2.74	10
2025-04-20	2600	100	5.411	54.11	56.19	-3.70	10
2025-04-21	5200	100	15.982	159.82	163.88	-2.48	10
2025-04-21	5800	100	18.568	185.68	188.95	-1.73	10

Note:

1. The tolerance limit of System validation ±10%.
2. The dipole input power (forward power) was 100 mW.
3. The results are normalized to 1 W input power.

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 to16 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.

Top side

Right side

Left side

Bottom side
Front view)

Antenna Separation Distance(cm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤0.5	5	6.5	≤0.5	≤0.5	15
WWAN	≤0.5	≤0.5	1	1	16	≤0.5

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

	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
Exposure Position	Calculated Frequency(GHz)	0.8366	1.88	1.8524	1.7126	0.8264
	Maximum Turn-up power (dBm)	32	29	24	24	24
	Maximum rated power(mW)	1584.89	794.33	251.19	251.19	251.19
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.39	3.43	3.37	6.55
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.39	3.43	3.37	6.55
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1	1	1	1	1
	exclusion threshold(mW)	24.60	12.18	12.30	12.44	20.80
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	1	1	1	1	1
	exclusion threshold(mW)	24.60	12.18	12.30	12.44	20.80
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16	16	16	16	16
	exclusion threshold(mW)	1244.50	2027.48	2028.93	2295.65	2109.86
	Testing required?	YES	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	9.22	3.39	3.43	3.37	6.55
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency(GHz)	1.86	1.7325	0.829	2.535	0.704
	Maximum Turn-up power (dBm)	24	24	24	24	24
	Maximum rated power(mW)	251.19	251.19	251.19	251.19	251.19
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.42	3.62	9.34	2.67	11.75
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.42	3.62	9.34	2.67	11.75
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (cm)	1	1	1	1	1
	exclusion threshold(mW)	12.27	12.85	24.81	10.03	28.98
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (cm)	1	1	1	1	1
	exclusion threshold(mW)	12.27	12.85	24.81	10.03	28.98
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (cm)	16	16	16	16	16
	exclusion threshold(mW)	2028.53	2035.52	1234.83	1998.32	1073.85
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	3.42	3.62	9.34	2.67	11.75
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 17	LTE Band 66	LTE Band 71	BT	2.4G WLAN
	Calculated Frequency(GHz)	0.709	1.72	0.673	2.402	2.412
	Maximum Turn-up power (dBm)	24	24	24.5	0.5	14.5
	Maximum rated power(mW)	251.19	251.19	281.84	1.12	28.18
Back Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	11.63	3.64	7.72	2.79	2.78
	Testing required?	YES	YES	YES	NO	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5	≤0.5	≤0.5	≤0.5
	exclusion threshold(mW)	11.63	3.64	7.72	2.79	2.78
	Testing required?	YES	YES	YES	NO	YES
Left Edge	Separation distance (cm)	1	1	1	6.5	6.5
	exclusion threshold(mW)	28.79	12.91	23.77	362.53	362.16
	Testing required?	YES	YES	YES	NO	NO
Right Edge	Separation distance (cm)	1	1	1	≤0.5	≤0.5
	exclusion threshold(mW)	28.79	12.91	23.77	2.79	2.78
	Testing required?	YES	YES	YES	NO	YES
Top Edge	Separation distance (cm)	16	16	16	≤0.5	≤0.5
	exclusion threshold(mW)	1080.37	2036.24	2130.96	2.79	2.78
	Testing required?	NO	NO	NO	NO	YES
Bottom Edge	Separation distance (cm)	≤0.5	≤0.5	≤0.5	15	15
	exclusion threshold(mW)	11.63	3.64	7.72	1772.58	1772.12
	Testing required?	YES	YES	YES	NO	NO

Exposure Position	Wireless Interface	5.2G WLAN	5.8G WLAN
	Calculated Frequency(GHz)	5.18	5.745
	Maximum Turn-up power (dBm)	14.5	12.5
	Maximum rated power(mW)	28.18	17.78
Back Side	Separation distance (cm)	≤0.5	≤0.5
	exclusion threshold(mW)	1.51	1.39
	Testing required?	YES	YES
Front Side	Separation distance (cm)	≤0.5	≤0.5
	exclusion threshold(mW)	1.51	1.39
	Testing required?	YES	YES
Left Edge	Separation distance (cm)	6.5	6.5
	exclusion threshold(mW)	300.53	293.03
	Testing required?	NO	NO
Right Edge	Separation distance (cm)	≤0.5	≤0.5
	exclusion threshold(mW)	1.51	1.39
	Testing required?	YES	YES
Top Edge	Separation distance (cm)	≤0.5	≤0.5
	exclusion threshold(mW)	1.51	1.39
	Testing required?	YES	YES
Bottom Edge	Separation distance (cm)	15	15
	exclusion threshold(mW)	1689.49	1678.60
	Testing required?	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 D04, 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 D04, if the maximum time-averaged power available does not exceed 1 mW. This stand-alone SAR exemption test.
4. Per KDB 447498 D04, the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold Pth (mW) described in the

following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by:

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

Where

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

and

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

d = the separation distance (cm);

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

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

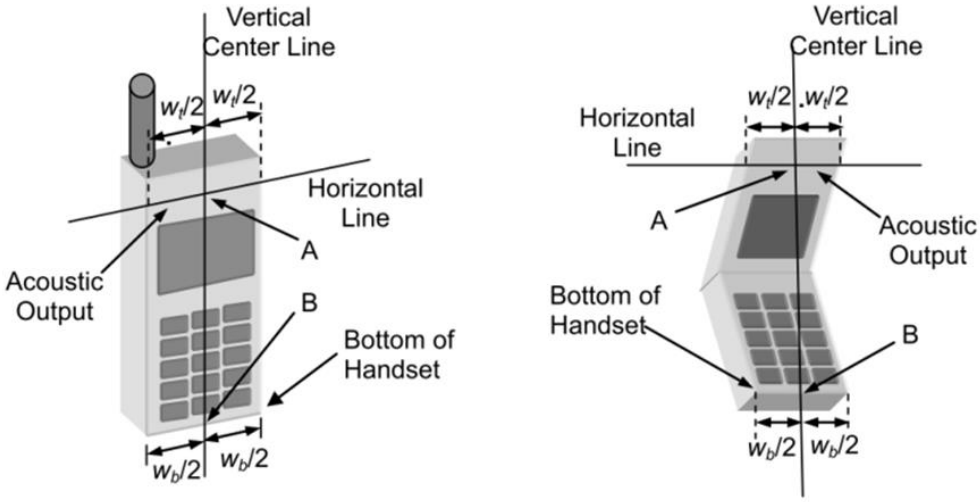
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than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

8. EUT Test Position

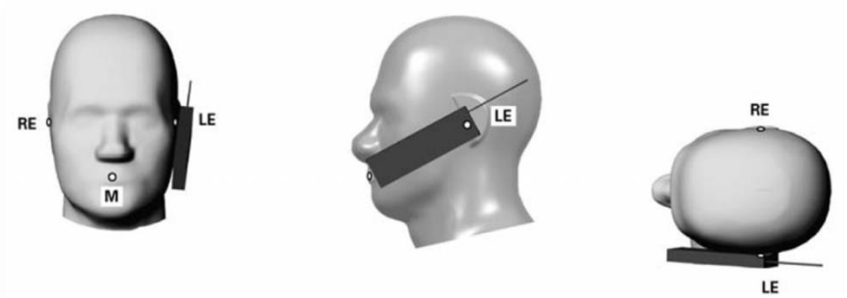
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

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 wt of the handset at the level of the acoustic output, and the midpoint of the width wb 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.



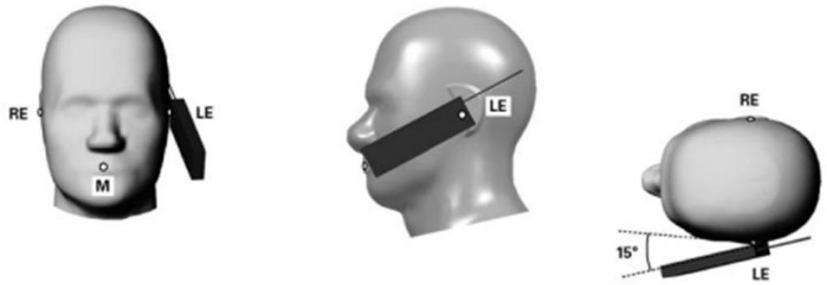
Cheek Position
1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane 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

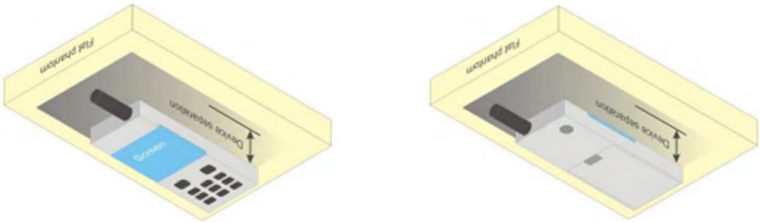
(1)To position the device in the “cheek” position described above.

(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.



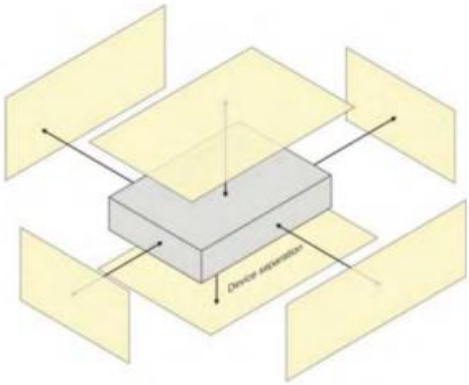
Body-worn Position Conditions:

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 D04 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 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 form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 5mm) 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 EPGO352									
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	E2.5	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	E2.5	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 EPGO352									
◦ 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	E2.5	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)	32.33	32.42	31.71	29.88	29.84	29.80
GPRS (GMSK, 1-Slot)	31.30	32.23	32.33	29.39	29.17	29.29
GPRS (GMSK, 2-Slot)	31.04	31.66	30.74	27.98	28.77	27.91
GPRS (GMSK, 3-Slot)	29.61	29.73	29.38	26.71	26.36	26.82
GPRS (GMSK, 4-Slot)	27.42	27.71	27.72	25.32	25.25	25.47
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)	23.30	23.39	22.68	20.85	20.81	20.77
GPRS (GMSK, 1-Slot)	22.27	23.20	23.30	20.36	20.14	20.26
GPRS (GMSK, 2-Slot)	25.02	25.64	24.72	21.96	22.75	21.89
GPRS (GMSK, 3-Slot)	25.35	25.47	25.12	22.45	22.10	22.56
GPRS (GMSK, 4-Slot)	24.41	24.70	24.71	22.31	22.24	22.46
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	23.66	23.65	23.61	23.73	23.67	23.64	23.69	23.55	23.53
HSDPA Subtest-1	23.41	23.41	23.41	23.58	23.41	23.57	23.54	23.45	23.58
HSDPA Subtest-2	22.91	22.96	22.92	22.95	22.93	22.94	22.93	22.92	22.94
HSDPA Subtest-3	22.83	22.83	22.89	22.83	22.88	22.83	22.81	22.83	22.89
HSDPA Subtest-4	22.81	22.81	22.71	22.82	22.80	22.70	22.76	22.84	22.72
HSUPA Subtest-1	22.83	22.81	22.78	22.75	22.76	22.75	22.76	22.74	22.76
HSUPA Subtest-2	22.78	22.73	22.87	22.73	22.83	22.73	22.73	22.82	22.88
HSUPA Subtest-3	22.88	22.82	22.83	22.82	22.89	22.87	22.82	22.82	22.83
HSUPA Subtest-4	22.71	22.80	22.78	22.76	22.76	22.70	22.71	22.76	22.81
HSUPA Subtest-5	22.85	22.83	22.80	22.89	22.82	22.82	22.89	22.88	22.82

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≤ CM≤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)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	14.45	27.86
	6	2437	13.67	23.28
	11	2462	13.93	24.72
802.11g	1	2412	14.22	26.42
	6	2437	14.33	27.10
	11	2462	13.46	22.18
802.11 n-HT20	1	2412	14.03	25.29
	6	2437	12.62	18.28
	11	2462	13.29	21.33
802.11 n-HT40	3	2422	13.4	21.88
	6	2437	12.06	16.07
	9	2452	14.01	25.18

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	0.41	1.10
	39	2441	-0.12	0.97
	78	2480	-0.42	0.91
π/4-QPSK(2Mbps)	0	2402	-0.45	0.90
	39	2441	-0.91	0.81
	78	2480	-1.21	0.76
8DPSK(3Mbps)	0	2402	-0.42	0.91
	39	2441	-0.93	0.81
	78	2480	-1.27	0.75

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-3.07	0.49
	19	2440	-3.64	0.43
	39	2480	-3.88	0.41
GFSK(2Mbps)	0	2402	-3.02	0.50
	19	2440	-3.63	0.43
	39	2480	-3.87	0.41

5.2G WLAN

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	36	5180	13.84	24.21
	40	5200	13.34	21.58
	48	5240	13.06	20.23
802.11 n-HT20	36	5180	14.15	26.00
	40	5200	12.39	17.34
	48	5240	13.74	23.66
802.11 n-HT40	38	5190	12.68	18.54
	46	5230	13.23	21.04
802.11ac-VHT20	36	5180	13.57	22.75
	40	5200	13.63	23.07
	48	5240	13.63	23.07
802.11ac-VHT40	38	5190	12.98	19.86
	46	5230	13.24	21.09
802.11ac-VHT80	42	5210	13.99	25.06

5.8G WLAN

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
802.11a	149	5745	11.2	13.18
	157	5785	10.83	12.11
	165	5825	10.68	11.69
802.11 n-HT20	149	5745	11.85	15.31
	157	5785	11.25	13.34
	165	5825	10.73	11.83
802.11 n-HT40	151	5755	10.43	11.04
	159	5795	10.5	11.22
802.11ac-VHT20	149	5745	12.16	16.44
	157	5785	11.23	13.27
	165	5825	11.57	14.35
802.11ac-VHT40	151	5755	10.82	12.08
	159	5795	10.39	10.94
802.11ac-VHT80	155	5775	11.42	13.87

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 ½ 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 ½ 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.

LTE Band 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.52	23.27	23.2
1.4	1	2		23.71	23.83	23.84
1.4	1	5		23.65	23.19	23.24
1.4	3	0		22.53	22.58	22.39
1.4	3	1		22.23	22.66	22.1
1.4	3	2		22.15	22.46	22.49
1.4	6	0		22.72	22.3	22.45
1.4	1	0	16-QAM	22.19	22.55	22.48
1.4	1	2		22.54	22.18	22.6
1.4	1	5		22.3	22.27	22.13
1.4	3	0		21.54	21.3	21.7
1.4	3	1		21.6	21.51	21.56
1.4	3	2		21.55	21.45	21.23
1.4	6	0		21.5	21.63	21.46
3	1	0	QPSK	**23.93**	23.72	23.36
3	1	7		23.72	23.77	23.74
3	1	14		23.79	23.66	23.78
3	8	0		22.33	22.24	22.57
3	8	4		22.44	22.43	22.5
3	8	7		22.23	22.24	22.39
3	15	0		22.05	22.4	22.55
3	1	0	16-QAM	22.37	22.43	22.4
3	1	7		22.61	22.17	22.54
3	1	14		22.21	22.48	22.62
3	8	0		21.37	21.34	21.67
3	8	4		21.52	21.57	21.41
3	8	7		21.73	21.41	21.38
3	15	0		21.49	21.5	21.5

LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.39	23.87	23.49
5	1	12		23.55	23.79	23.83
5	1	24		23.24	23.31	**23.95**
5	12	0		22.37	22.15	22.24
5	12	6		22.24	22.31	22.21
5	12	11		22.52	22.62	22.6
5	25	0		22.36	22.43	22.2
5	1	0	16-QAM	22.41	22.43	22.46
5	1	12		22.43	22.33	22.44
5	1	24		22.47	22.5	22.22
5	12	0		21.67	21.63	21.44
5	12	6		21.43	21.46	21.55
5	12	11		21.56	21.55	21.38
5	25	0		21.45	21.56	21.47
10	1	0	QPSK	23.77	23.89	23.38
10	1	24		23.64	23.18	23.66
10	1	49		23.8	23.51	23.7
10	25	0		22.42	22.19	22.32
10	25	12		22.27	22.45	22.52
10	25	24		22.48	22.65	22.45
10	50	0		22.53	22.59	22.33
10	1	0	16-QAM	22.3	22.32	22.74
10	1	24		22.34	22.32	22.22
10	1	49		22.17	22.67	22.19
10	25	0		21.68	21.62	21.3
10	25	12		21.59	**21.75**	21.4
10	25	24		21.31	21.4	21.56
10	50	0		21.56	21.66	21.57

LTE BAND 2

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.5	23.6	23.83
15	1	37		23.65	23.22	23.77
15	1	74		23.69	**23.99**	23.88
15	36	0		22.39	22.54	22.41
15	36	18		22.28	22.41	22.47
15	36	39		22.27	22.43	22.21
15	75	0		22.11	22.37	22.32
15	1	0	16-QAM	22.42	22.55	22.49
15	1	38		22.53	22.5	22.38
15	1	75		22.51	22.46	22.56
15	36	0		21.45	21.55	21.27
15	36	18		21.28	21.42	21.61
15	36	39		21.63	21.57	21.29
15	75	0		21.33	21.25	21.49
20	1	0	QPSK	23.78	23.63	23.65
20	1	49		23.71	23.49	23.29
20	1	99		23.69	23.47	23.54
20	50	0		22.28	22.18	22.62
20	50	24		22.11	22.25	22.15
20	50	49		22.51	22.46	22.12
20	100	0		22.58	22.46	22.6
20	1	0	16-QAM	22.09	22.36	22.22
20	1	49		22.5	22.49	22.09
20	1	99		22.27	22.4	22.56
20	50	0		21.52	21.35	21.58
20	50	24		21.38	21.61	21.51
20	50	49		21.57	21.57	21.57
20	100	0		21.67	21.51	21.44

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.61	23.4	23.2
1.4	1	2		23.62	23.88	23.65
1.4	1	5		23.74	23.21	23.46
1.4	3	0		22.48	22.53	22.35
1.4	3	1		22.29	22.41	22.29
1.4	3	2		22.18	22.4	22.68
1.4	6	0		22.46	22.52	22.71
1.4	1	0	16-QAM	22.12	22.37	22.47
1.4	1	2		22.64	22.16	22.54
1.4	1	5		22.39	22.51	22.08
1.4	3	0		21.59	21.49	21.78
1.4	3	1		21.44	21.49	21.7
1.4	3	2		21.7	21.3	21.3
1.4	6	0		21.39	21.4	21.44
3	1	0	QPSK	23.76	**23.91**	23.09
3	1	7		23.86	23.81	23.64
3	1	14		23.81	23.68	23.56
3	8	0		22.34	22.22	22.57
3	8	4		22.25	22.37	22.66
3	8	7		22.3	22.42	22.48
3	15	0		22.09	22.2	22.34
3	1	0	16-QAM	22.45	22.42	22.47
3	1	7		22.47	22.23	22.66
3	1	14		22.17	22.39	22.71
3	8	0		21.53	21.33	21.69
3	8	4		21.43	21.73	21.46
3	8	7		21.56	21.32	21.43
3	15	0		21.36	21.56	21.58

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.46	23.72	23.31
5	1	12		23.69	23.82	23.7
5	1	24		23.46	23.51	23.89
5	12	0		22.39	22.25	22.38
5	12	6		22.3	22.09	22.37
5	12	11		22.47	22.46	22.47
5	25	0		22.15	22.65	22.34
5	1	0	16-QAM	22.41	22.27	22.69
5	1	12		22.35	22.25	22.52
5	1	24		22.65	22.48	22.18
5	12	0		21.45	21.54	21.35
5	12	6		21.4	21.65	21.5
5	12	11		21.52	21.58	21.53
5	25	0		21.54	21.82	21.41
10	1	0	QPSK	23.61	23.8	23.56
10	1	24		23.77	23.34	23.82
10	1	49		23.87	23.29	**23.91**
10	25	0		22.35	22.21	22.3
10	25	12		22.1	22.52	22.45
10	25	24		22.45	22.4	22.23
10	50	0		22.28	22.45	22.51
10	1	0	16-QAM	22.13	22.06	22.65
10	1	24		22.27	22.2	22.14
10	1	49		22.13	22.38	22.42
10	25	0		21.62	21.73	21.44
10	25	12		21.53	21.79	21.56
10	25	24		21.39	21.4	21.69
10	50	0		21.49	21.67	21.65

LTE BAND 4

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.62	23.59	23.79
15	1	37		**23.9**	23.13	23.82
15	1	74		23.55	23.89	23.66
15	36	0		22.26	22.51	22.33
15	36	18		22.41	22.25	22.47
15	36	39		22.24	22.53	22.34
15	75	0		22.33	22.29	22.41
15	1	0	16-QAM	22.17	22.66	22.46
15	1	38		22.49	22.56	22.56
15	1	75		22.59	22.45	22.6
15	36	0		21.32	21.5	21.35
15	36	18		21.31	21.65	21.55
15	36	39		21.65	21.81	21.2
15	75	0		21.19	21.38	21.39
20	1	0	QPSK	23.76	23.77	23.7
20	1	49		23.62	23.68	23.26
20	1	99		23.67	23.52	23.55
20	50	0		22.17	22.14	22.56
20	50	24		22.26	22.29	22.28
20	50	49		22.55	22.56	22.05
20	100	0		22.48	22.38	22.51
20	1	0	16-QAM	22.18	22.28	22.32
20	1	49		22.31	22.57	22.24
20	1	99		22.37	22.4	22.41
20	50	0		21.72	21.34	21.44
20	50	24		21.19	21.65	21.74
20	50	49		21.55	21.53	21.4
20	100	0		21.64	21.5	21.5

LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	**23.98**	23.32	23.71
1.4	1	2		23.73	23.55	23.92
1.4	1	5		23.86	23.72	23.85
1.4	3	0		22.44	22.25	22.46
1.4	3	1		22.1	22.53	22.17
1.4	3	2		22.36	22.08	22.16
1.4	6	0		22.34	22.16	22.68
1.4	1	0	16-QAM	22.12	22.68	22.65
1.4	1	2		22.36	22.58	22.46
1.4	1	5		22.2	22.13	22.47
1.4	3	0		21.42	21.26	21.61
1.4	3	1		21.52	21.45	21.29
1.4	3	2		21.66	21.34	21.49
1.4	6	0		21.59	21.55	21.57
3	1	0	QPSK	23.39	23.62	23.59
3	1	7		23.31	23.85	23.35
3	1	14		23.43	23.74	23.45
3	8	0		22.61	22.43	22.25
3	8	4		22.17	22.48	22.56
3	8	7		22.45	22.48	22.28
3	15	0		22.2	22.62	22.49
3	1	0	16-QAM	22.6	22.22	22.46
3	1	7		22.49	22.49	22.44
3	1	14		22.1	22.6	22.68
3	8	0		21.48	21.25	21.33
3	8	4		21.43	21.55	21.63
3	8	7		21.4	21.31	21.21
3	15	0		21.56	21.43	21.26

LTE BAND 5

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.49	23.66	23.13
5	1	12		23.39	23.59	23.38
5	1	24		23.55	23.39	23.49
5	12	0		22.28	22.18	22.24
5	12	6		22.55	22.45	22.51
5	12	11		22.45	22.5	22.36
5	25	0		22.67	22.26	22.38
5	1	0	16-QAM	22.63	22.32	22.31
5	1	12		22.34	22.22	22.36
5	1	24		22.25	22.65	22.08
5	12	0		21.31	21.57	21.78
5	12	6		21.57	21.62	21.52
5	12	11		21.54	21.52	21.54
5	25	0		21.54	21.46	21.57
10	1	0	QPSK	23.77	23.44	23.83
10	1	24		**23.88**	23.37	23.72
10	1	49		**23.88**	23.53	23.41
10	25	0		22.24	22.55	22.62
10	25	12		22.51	22.53	22.22
10	25	24		22.44	22.41	22.5
10	50	0		22.49	22.41	22.49
10	1	0	16-QAM	22.54	22.2	22.59
10	1	24		22.5	22.54	22.34
10	1	49		22.34	22.2	22.6
10	25	0		21.58	21.46	21.32
10	25	12		21.49	21.8	21.33
10	25	24		21.48	21.57	21.19
10	50	0		21.52	21.56	21.55

LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.57	23.38	23.13
5	1	12		23.87	23.6	23.62
5	1	24		23.44	**23.94**	23.46
5	12	0		22.47	22.12	22.34
5	12	6		22.65	22.53	22.25
5	12	11		22.12	22.72	22.19
5	25	0		22.35	22.03	22.41
5	1	0	16-QAM	22.28	22.6	22.41
5	1	12		22.53	22.43	22.4
5	1	24		22.47	22.11	22.22
5	12	0		21.59	21.43	21.63
5	12	6		21.62	21.46	21.68
5	12	11		21.38	21.68	21.47
5	25	0		21.84	21.65	21.6
10	1	0	QPSK	23.37	23.83	23.37
10	1	24		23.5	23.8	23.52
10	1	49		23.19	23.25	23.93
10	25	0		22.74	22.39	22.47
10	25	12		22.44	22.46	22.35
10	25	24		22.55	22.28	22.37
10	50	0		22.55	22.56	22.31
10	1	0	16-QAM	22.51	22.57	22.65
10	1	24		22.23	22.24	22.3
10	1	49		22.43	22.33	22.24
10	25	0		21.56	21.31	21.19
10	25	12		21.56	21.46	21.52
10	25	24		21.6	21.35	21.52
10	50	0		21.71	21.82	21.36

LTE BAND 7

LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.71	23.63	23.79
15	1	37		23.36	23.43	23.46
15	1	74		23.26	23.69	23.36
15	36	0		22.41	22.24	22.08
15	36	18		22.58	22.57	22.29
15	36	39		22.41	22.1	22.26
15	75	0		22.27	22.47	22.48
15	1	0	16-QAM	22.62	22.28	22.39
15	1	38		22.2	22.17	22.38
15	1	75		22.39	22.35	22.57
15	36	0		21.51	21.71	21.7
15	36	18		21.52	21.25	21.41
15	36	39		21.21	21.49	21.34
15	75	0		21.33	21.53	21.57
20	1	0	QPSK	23.84	23.42	23.79
20	1	49		23.42	23.23	23.63
20	1	99		23.73	**23.89**	23.07
20	50	0		22.15	22.61	22.31
20	50	24		22.62	22.55	22.18
20	50	49		22.39	22.5	22.28
20	100	0		22.44	22.73	22.51
20	1	0	16-QAM	22.42	22.21	22.39
20	1	49		22.58	22.52	22.38
20	1	99		22.24	22.67	22.21
20	50	0		21.48	21.22	21.31
20	50	24		21.73	21.37	21.58
20	50	49		21.55	21.51	21.58
20	100	0		21.36	21.71	21.41

LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.47	23.35	23.18
1.4	1	2		23.64	23.5	23.64
1.4	1	5		23.73	**23.96**	23.93
1.4	3	0		22.49	22.44	22.3
1.4	3	1		22.19	22.68	22.21
1.4	3	2		22.36	22.15	22.21
1.4	6	0		22.54	22.27	22.35
1.4	1	0	16-QAM	22.13	22.27	22.66
1.4	1	2		22.29	22.18	22.73
1.4	1	5		22.7	22.49	22.54
1.4	3	0		21.49	21.26	21.64
1.4	3	1		21.71	21.76	21.65
1.4	3	2		21.59	21.6	21.57
1.4	6	0		21.6	21.53	21.6
3	1	0	QPSK	23.75	23.5	23.6
3	1	7		23.3	23.37	23.5
3	1	14		23.73	23.43	**23.8**
3	8	0		22.31	22.3	22.18
3	8	4		22.3	22.58	22.27
3	8	7		22.62	22.31	22.44
3	15	0		22.49	22.38	22.29
3	1	0	16-QAM	22.42	22.6	22.65
3	1	7		22.41	22.2	22.38
3	1	14		22.52	22.52	22.27
3	8	0		21.38	21.21	21.75
3	8	4		21.34	21.62	21.44
3	8	7		21.56	21.55	21.44
3	15	0		21.32	21.23	21.48

LTE BAND 12

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	**23.99**	23.66	23.57
5	1	12		23.25	23.39	23.23
5	1	24		23.74	23.61	23.82
5	12	0		22.19	22.27	22.27
5	12	6		22.37	22.18	22.41
5	12	11		22.1	22.51	22.4
5	25	0		22.37	22.39	22.35
5	1	0	16-QAM	22.47	22.61	22.35
5	1	12		22.04	22.07	22.69
5	1	24		22.45	22.29	22.45
5	12	0		21.39	21.37	21.58
5	12	6		21.46	21.7	21.6
5	12	11		21.34	21.17	21.52
5	25	0		21.46	21.41	21.68
10	1	0	QPSK	23.9	23.65	23.81
10	1	24		23.39	23.55	23.55
10	1	49		23.92	23.74	23.72
10	25	0		22.26	22.35	22.21
10	25	12		22.48	22.22	22.29
10	25	24		22.25	22.22	22.32
10	50	0		22.43	22.15	22.32
10	1	0	16-QAM	22.38	22.31	22.54
10	1	24		22.39	22.42	22.17
10	1	49		22.44	22.16	22.44
10	25	0		21.48	21.66	21.31
10	25	12		21.58	21.43	21.71
10	25	24		21.46	21.75	21.58
10	50	0		21.21	21.53	21.5

LTE BAND 17

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.69	23.73	23.36
5	1	12		23.85	23.6	23.66
5	1	24		23.53	23.64	23.24
5	12	0		22.1	22.45	22.36
5	12	6		22.54	22.16	22.55
5	12	11		22.48	22.1	22.48
5	25	0		22.5	22.58	22.4
5	1	0	16-QAM	22.54	22.38	22.69
5	1	12		22.6	22.43	22.37
5	1	24		22.23	22.38	22.66
5	12	0		21.55	21.6	21.47
5	12	6		21.44	21.54	21.45
5	12	11		21.33	21.42	21.65
5	25	0		21.2	21.55	21.27
10	1	0	QPSK	**23.86**	23.27	23.39
10	1	24		23.68	23.82	23.32
10	1	49		23.47	23.85	23.62
10	25	0		22.14	22.6	22.34
10	25	12		22.2	22.4	22.11
10	25	24		22.43	22.33	22.31
10	50	0		22.09	22.33	22.26
10	1	0	16-QAM	22.45	22.47	22.31
10	1	24		22.37	22.48	22.46
10	1	49		22.61	22.6	22.31
10	25	0		21.7	21.56	21.71
10	25	12		21.29	21.34	21.46
10	25	24		21.67	21.59	21.74
10	50	0		21.63	21.51	21.43

LTE BAND 66

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
1.4	1	0	QPSK	23.36	23.66	23.77
1.4	1	2		23.62	23.76	23.7
1.4	1	5		23.77	23.44	23.36
1.4	3	0		22.17	22.4	22.65
1.4	3	1		22.56	22.36	22.38
1.4	3	2		22.24	22.35	22.2
1.4	6	0		22.05	22.48	22.64
1.4	1	0	16-QAM	22.46	22.24	22.42
1.4	1	2		22.2	22.41	22.26
1.4	1	5		22.28	22.39	22.28
1.4	3	0		21.56	21.41	21.26
1.4	3	1		21.72	21.69	21.5
1.4	3	2		21.58	21.31	21.42
1.4	6	0		21.38	21.6	21.57
3	1	0	QPSK	23.58	23.89	23.75
3	1	7		**23.9**	23.77	23.65
3	1	14		23.28	23.65	23.34
3	8	0		22.2	22.23	22.53
3	8	4		22.47	22.61	22.27
3	8	7		22.36	22.47	22.2
3	15	0		22.28	22.28	22.49
3	1	0	16-QAM	22.54	22.38	22.44
3	1	7		22.5	22.42	22.07
3	1	14		22.64	22.5	22.16
3	8	0		21.77	21.43	21.69
3	8	4		21.51	21.64	21.48
3	8	7		21.41	21.71	21.37
3	15	0		21.32	21.48	21.2

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	23.85	23.76	23.49
5	1	12		23.44	23.76	23.72
5	1	24		**23.92**	23.34	23.1
5	12	0		22.34	22.55	22.25
5	12	6		22.38	22.27	22.48
5	12	11		22.44	22.35	22.19
5	25	0		22.51	22.67	22.24
5	1	0	16-QAM	22.37	22.44	22.4
5	1	12		22.35	22.37	22.4
5	1	24		22.47	22.41	22.25
5	12	0		21.37	21.68	21.47
5	12	6		21.6	21.52	21.52
5	12	11		21.55	21.47	21.52
5	25	0		21.66	21.64	21.46
10	1	0	QPSK	23.55	23.76	23.59
10	1	24		23.87	23.61	23.77
10	1	49		23.29	23.87	23.34
10	25	0		22.39	22.18	22.58
10	25	12		22.54	22.17	22.39
10	25	24		22.23	22.5	22.42
10	50	0		22.41	22.37	22.37
10	1	0	16-QAM	22.43	22.3	22.54
10	1	24		22.22	22.27	22.48
10	1	49		22.61	22.66	22.21
10	25	0		21.53	21.39	21.5
10	25	12		21.3	21.33	21.46
10	25	24		21.6	21.54	21.5
10	50	0		21.6	21.46	21.56

LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	**23.93**	23.88	23.27
15	1	37		23.53	23.24	23.72
15	1	74		23.36	23.16	23.32
15	36	0		22.22	22.45	22.55
15	36	18		22.16	22.53	22.55
15	36	39		22.55	22.32	22.71
15	75	0		22.52	22.51	22.58
15	1	0	16-QAM	22.03	22.46	22.13
15	1	38		22.42	22.28	22.4
15	1	75		22.42	22.27	22.16
15	36	0		21.29	21.6	21.53
15	36	18		21.8	21.64	21.24
15	36	39		21.65	21.37	21.51
15	75	0		21.65	21.51	21.31
20	1	0	QPSK	23.63	23.78	23.86
20	1	49		23.56	23.15	23.64
20	1	99		23.91	23.66	23.27
20	50	0		22.33	22.28	22.06
20	50	24		22.45	22.16	22.12
20	50	49		22.13	22.26	22.24
20	100	0		22.47	22.51	22.4
20	1	0	16-QAM	22.35	22.45	22.41
20	1	49		22.28	22.15	22.5
20	1	99		22.49	22.39	22.26
20	50	0		21.4	21.27	21.58
20	50	24		21.68	21.71	21.63
20	50	49		21.54	21.46	21.77
20	100	0		21.46	21.59	21.66

LTE BAND 71

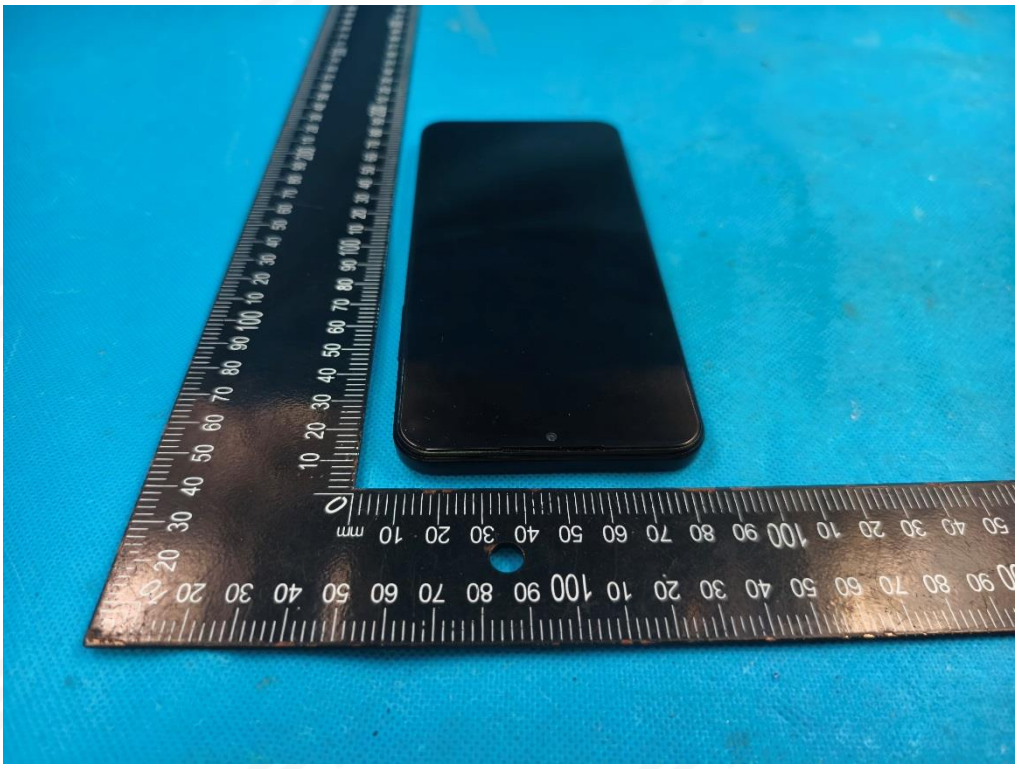
LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
5	1	0	QPSK	24.02	23.62	23.46
5	1	12		23.57	23.35	**24.07**
5	1	24		23.99	23.98	23.41
5	12	0		22.49	22.51	22.56
5	12	6		22.46	22.59	22.3
5	12	11		22.25	22.42	22.34
5	25	0		22.38	22.15	22.25
5	1	0	16-QAM	22.46	22.42	22.22
5	1	12		22.41	22.73	22.26
5	1	24		22.35	22.21	22.18
5	12	0		21.56	21.36	21.43
5	12	6		21.62	21.46	21.75
5	12	11		21.39	21.7	21.53
5	25	0		21.49	21.54	21.47
10	1	0	QPSK	23.69	23.81	24
10	1	24		23.41	23.34	23.23
10	1	49		23.67	23.33	23.15
10	25	0		22.7	22.39	22.37
10	25	12		22.49	22.17	22.58
10	25	24		22.57	22.66	22.33
10	50	0		22.41	22.69	22.23
10	1	0	16-QAM	22.45	22.22	22.03
10	1	24		22.48	22.25	22.59
10	1	49		22.13	22.34	22.37
10	25	0		21.47	21.45	21.36
10	25	12		21.52	21.41	21.62
10	25	24		21.38	21.77	21.55
10	50	0		21.49	21.45	21.56

LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	**RB Size**	**RB Offset**	**Mod**	**Lowest**	**Middle**	**Highest**
15	1	0	QPSK	23.78	23.38	23.96
15	1	37		23.31	23.62	23.55
15	1	74		23.5	23.96	23.98
15	36	0		22.3	22.23	22.37
15	36	18		22.46	22.52	22.53
15	36	39		22.36	22.46	22.33
15	75	0		22.27	22.4	22.51
15	1	0	16-QAM	22.13	22.49	22.36
15	1	38		22.65	22.38	22.32
15	1	75		22.2	22.46	22.45
15	36	0		21.59	21.54	21.53
15	36	18		21.7	21.23	21.35
15	36	39		21.6	21.55	21.36
15	75	0		21.6	21.31	21.47
20	1	0	QPSK	23.8	23.52	23.75
20	1	49		**24.1**	23.39	23.73
20	1	99		23.43	23.42	24.01
20	50	0		22.37	22.55	22.41
20	50	24		22.21	22.73	22.43
20	50	49		22.64	22.22	22.2
20	100	0		22.56	22.35	22.27
20	1	0	16-QAM	22.64	22.19	22.69
20	1	49		22.4	22.27	22.24
20	1	99		22.3	22.61	22.07
20	50	0		21.35	21.54	21.55
20	50	24		21.35	21.53	21.3
20	50	49		21.41	21.5	21.72
20	100	0		21.45	21.56	21.49

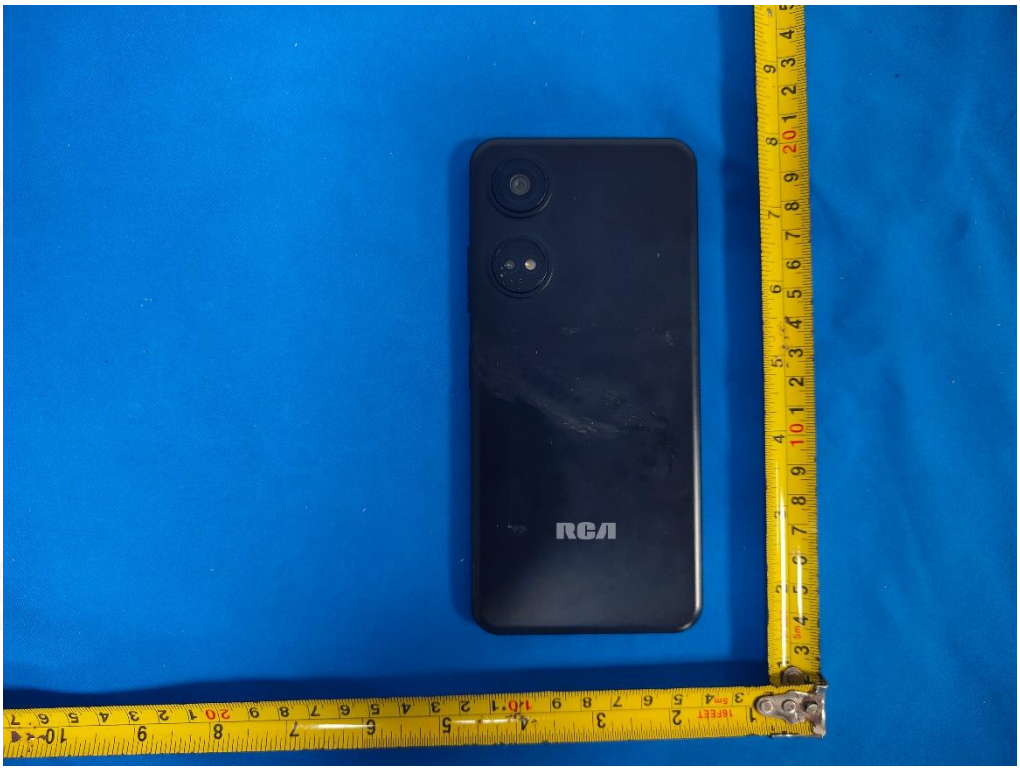
11. EUT and Test Setup Photo

11.1 EUT Photo

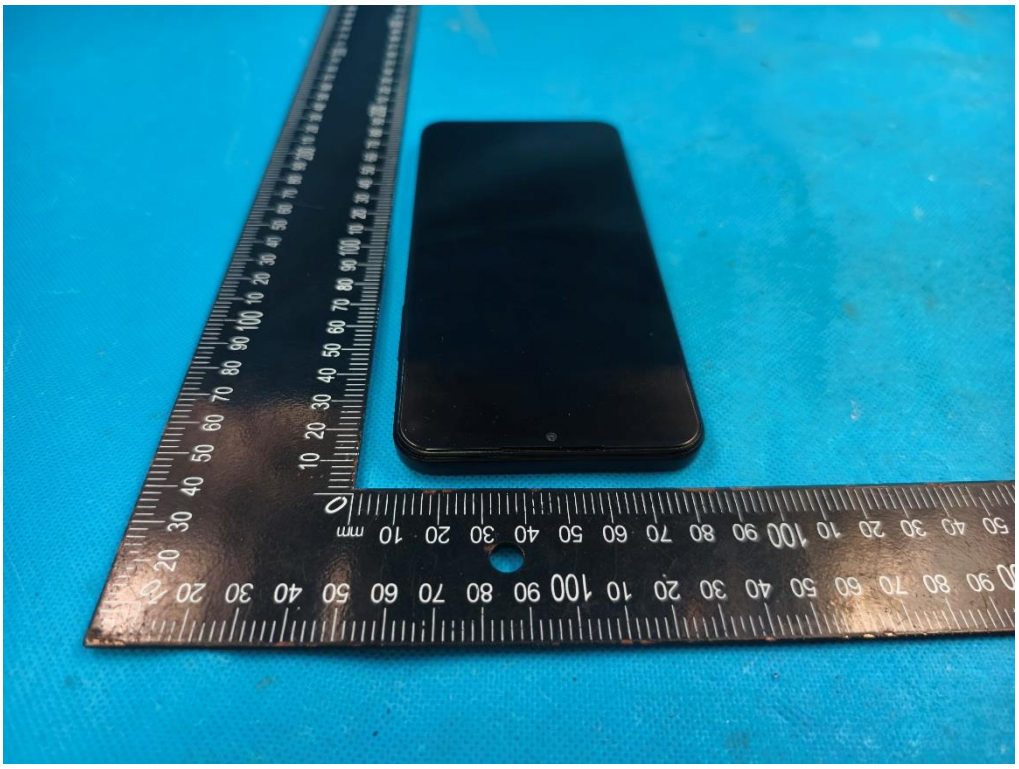
Front side



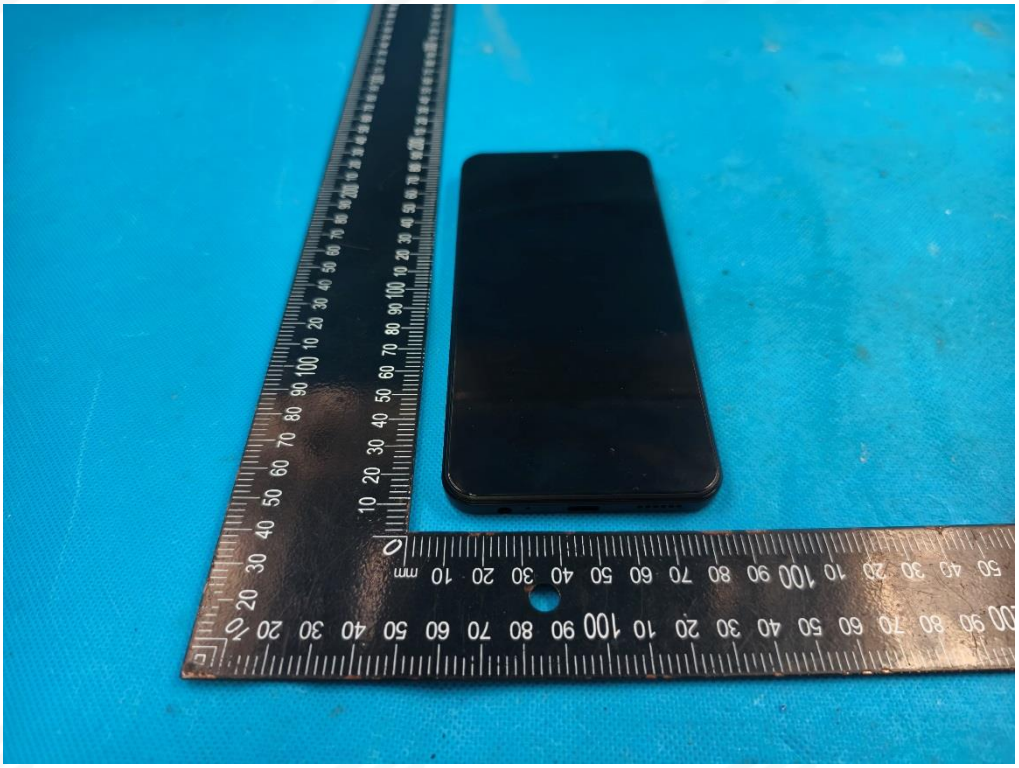
Back side



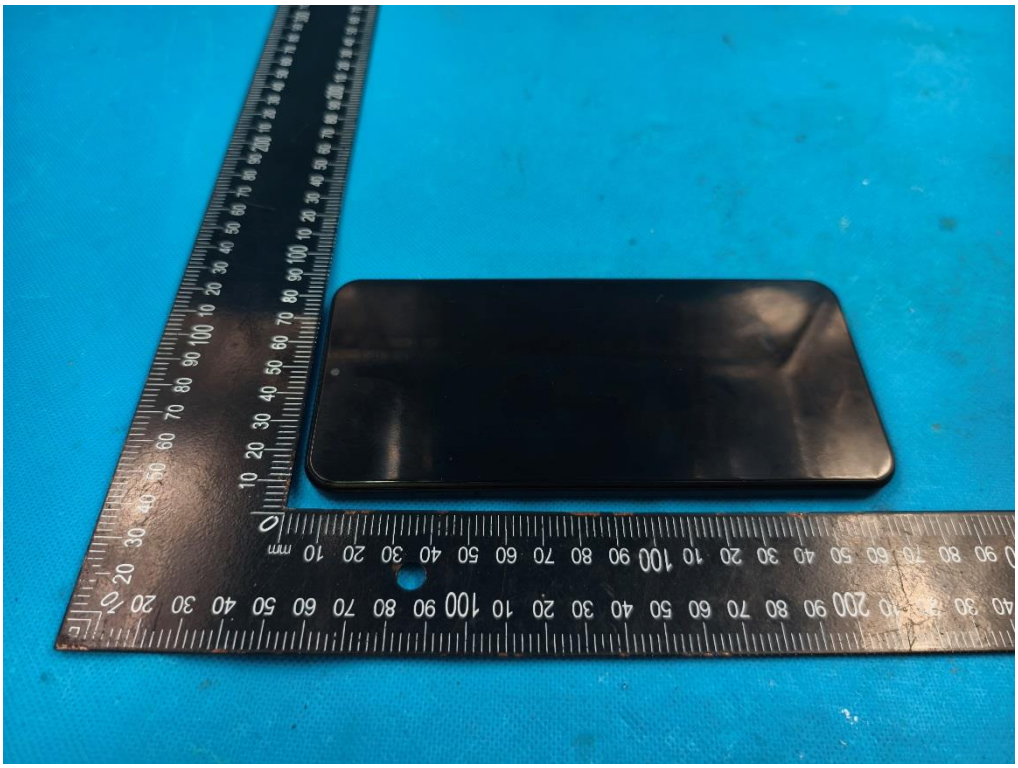
Top side



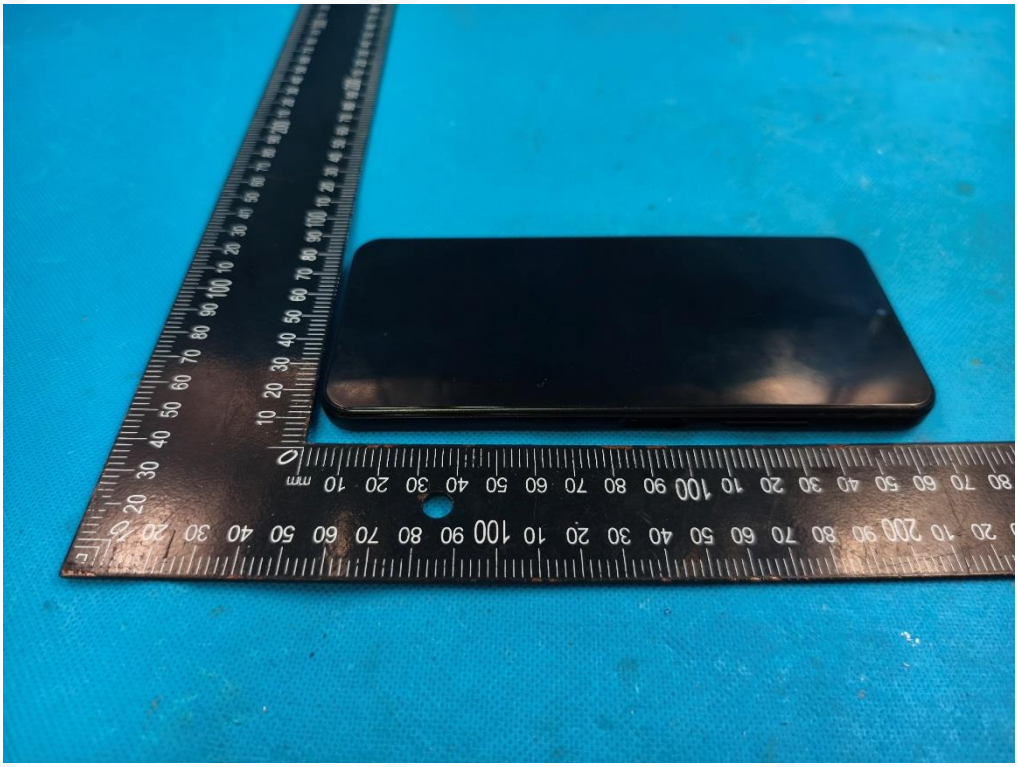
Bottom side



Left side

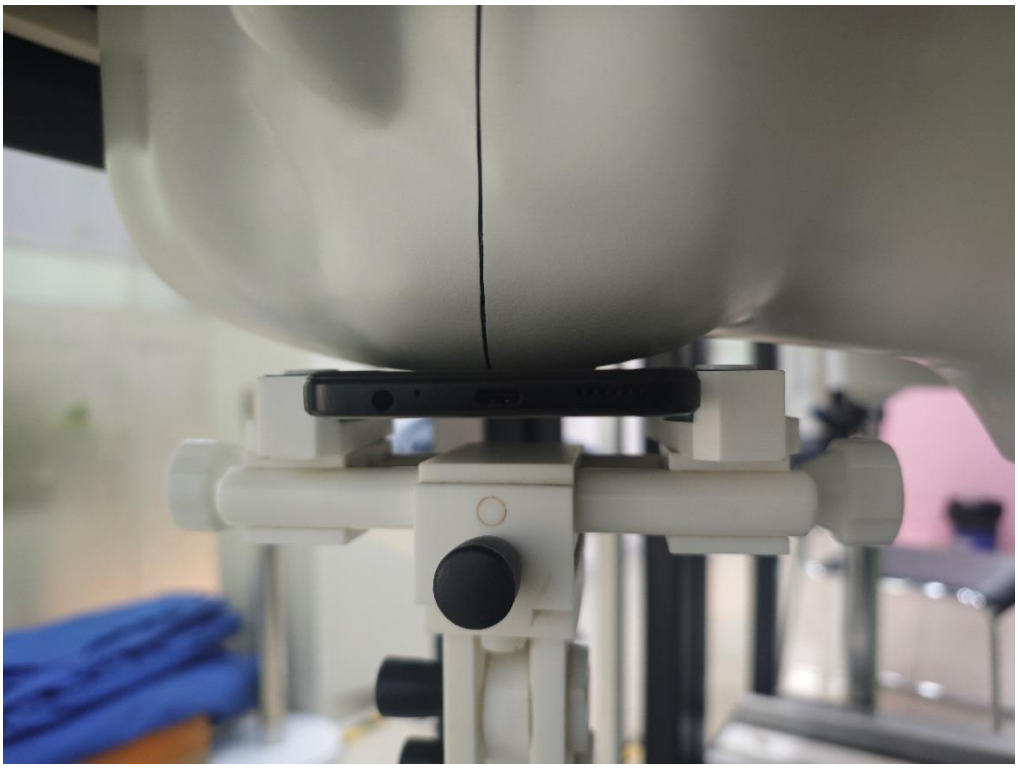


Right side

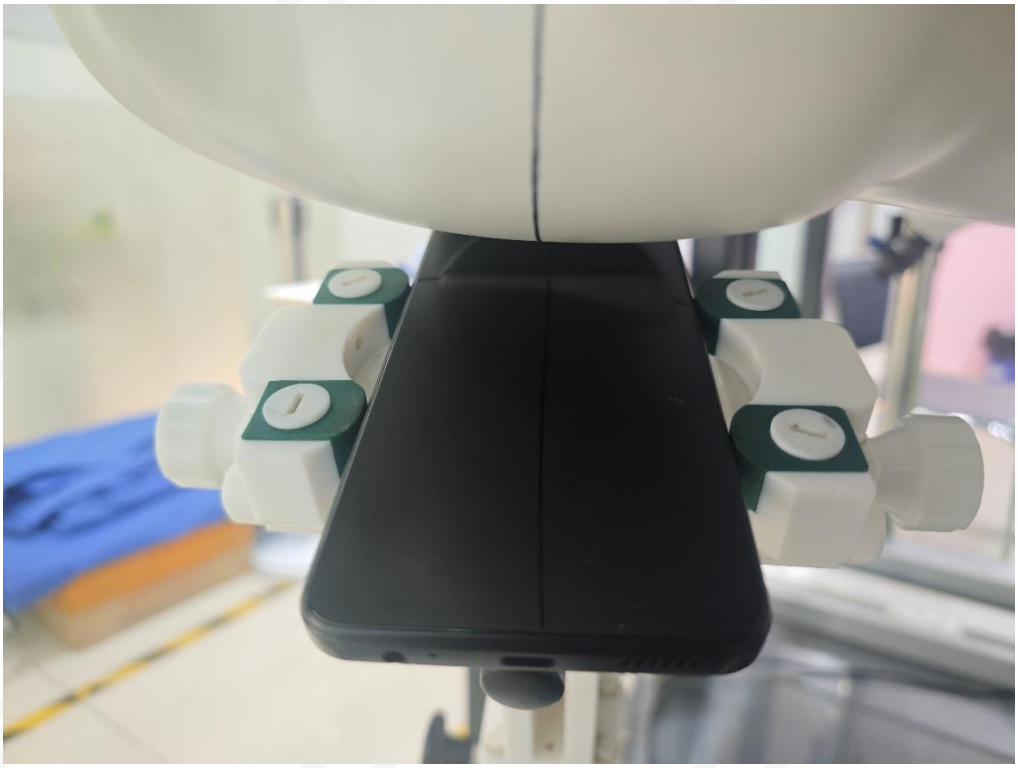


11.2 Setup Photo

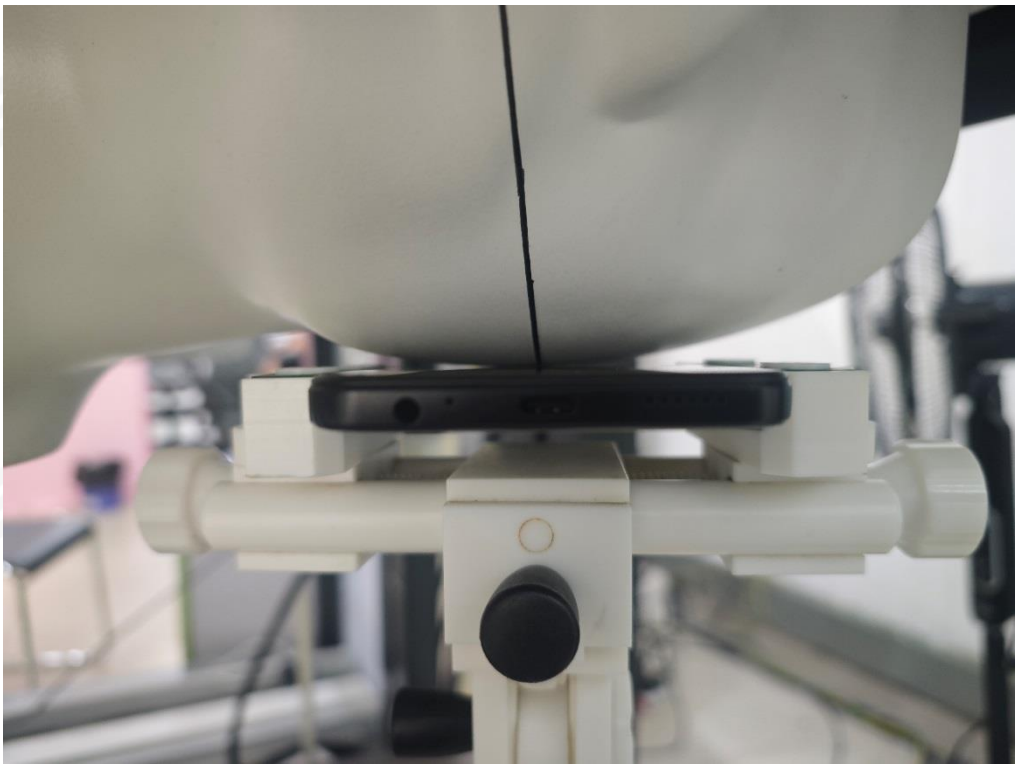
Right Touch



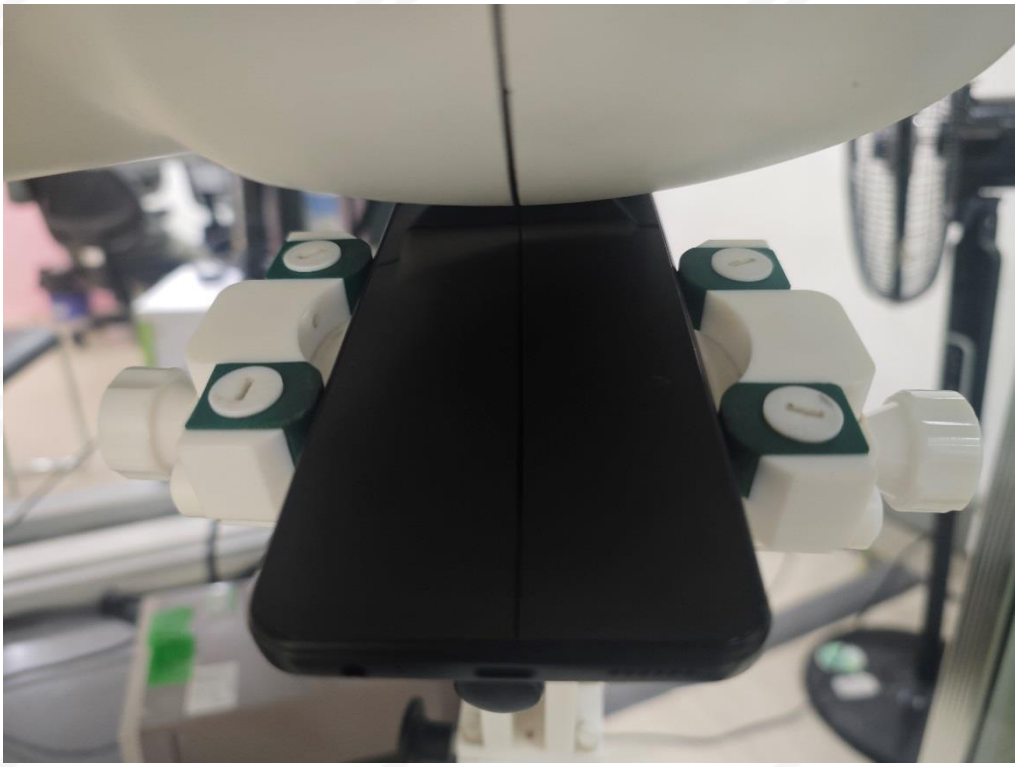
Right Tilt



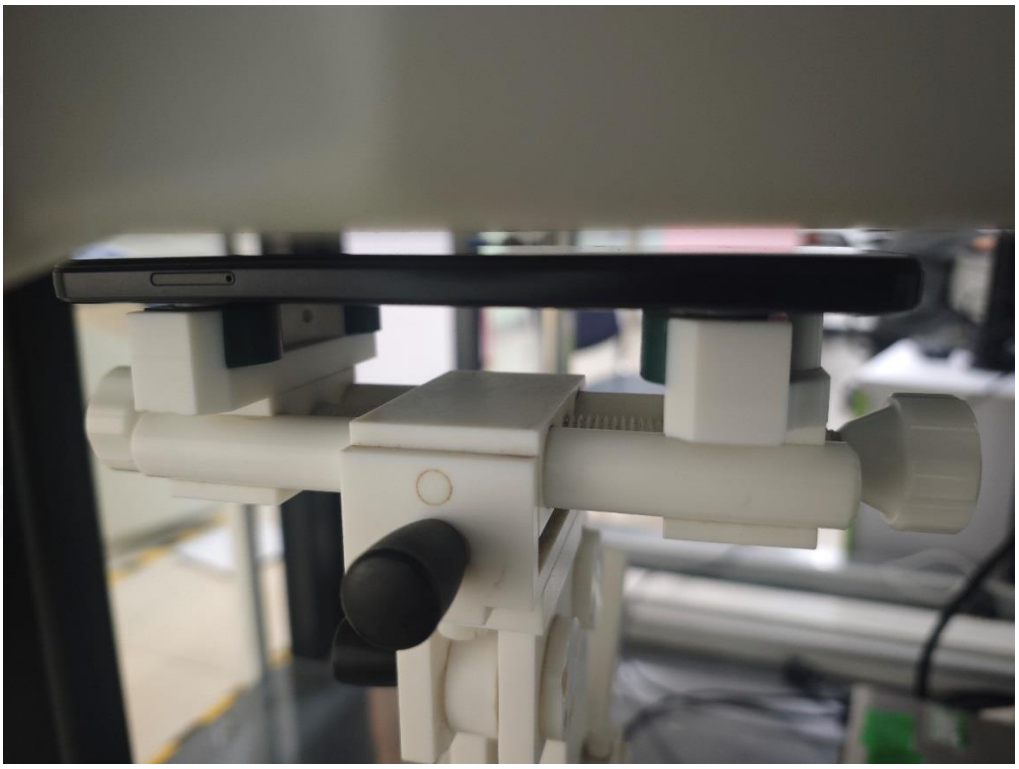
Left Touch



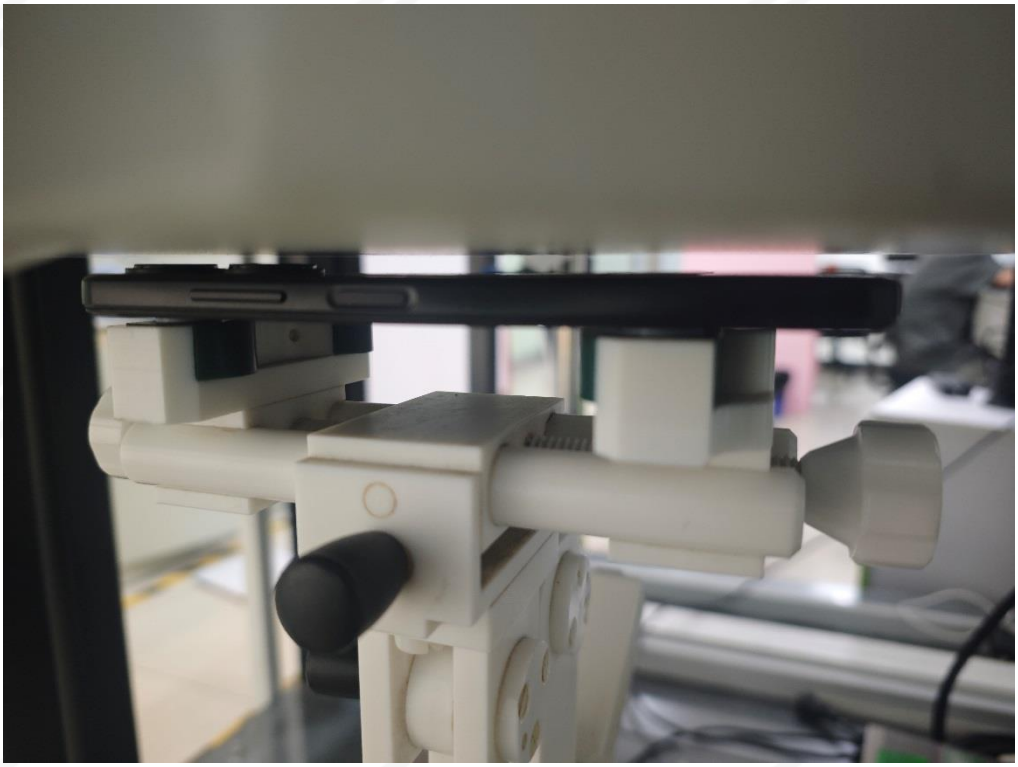
Left Tilt



Body Front side(separation distance is 5mm)

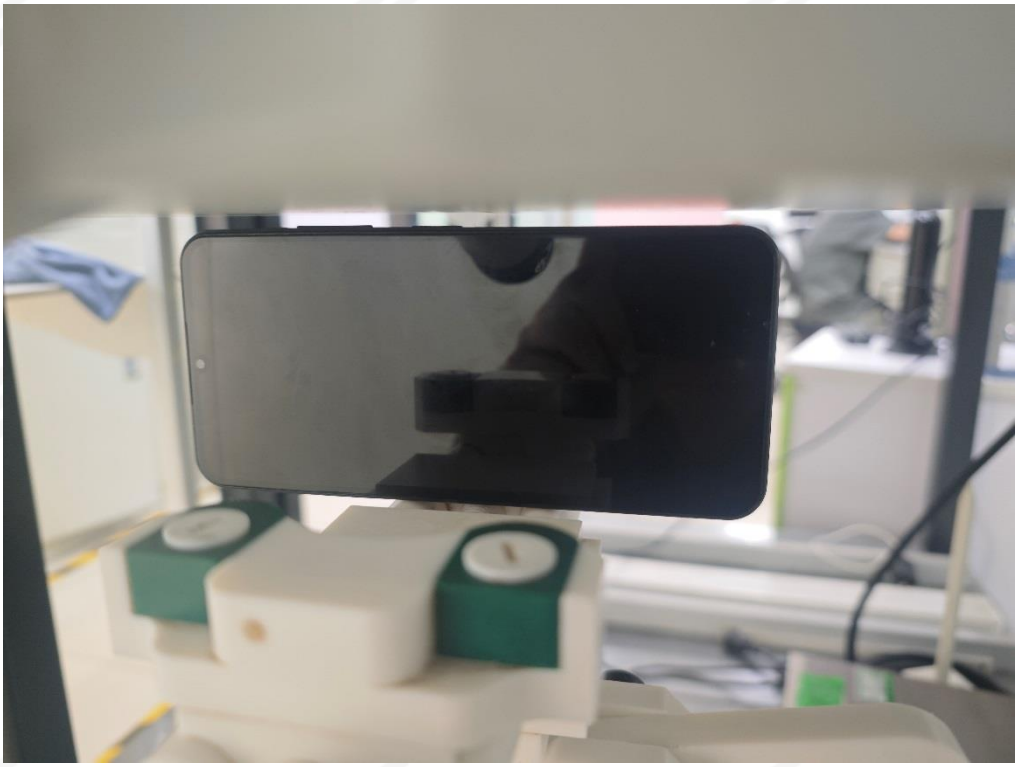


Body Back side(separation distance is 5mm)

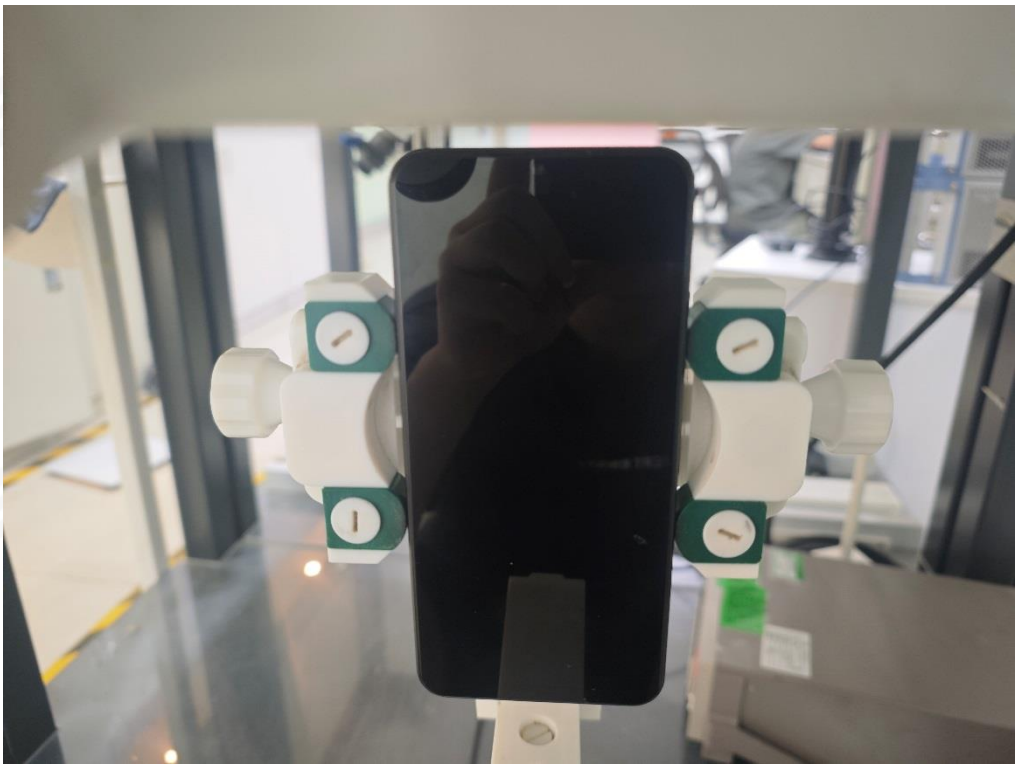


Body Left side(separation distance is 5mm)

Body Right side(separation distance is 5mm)

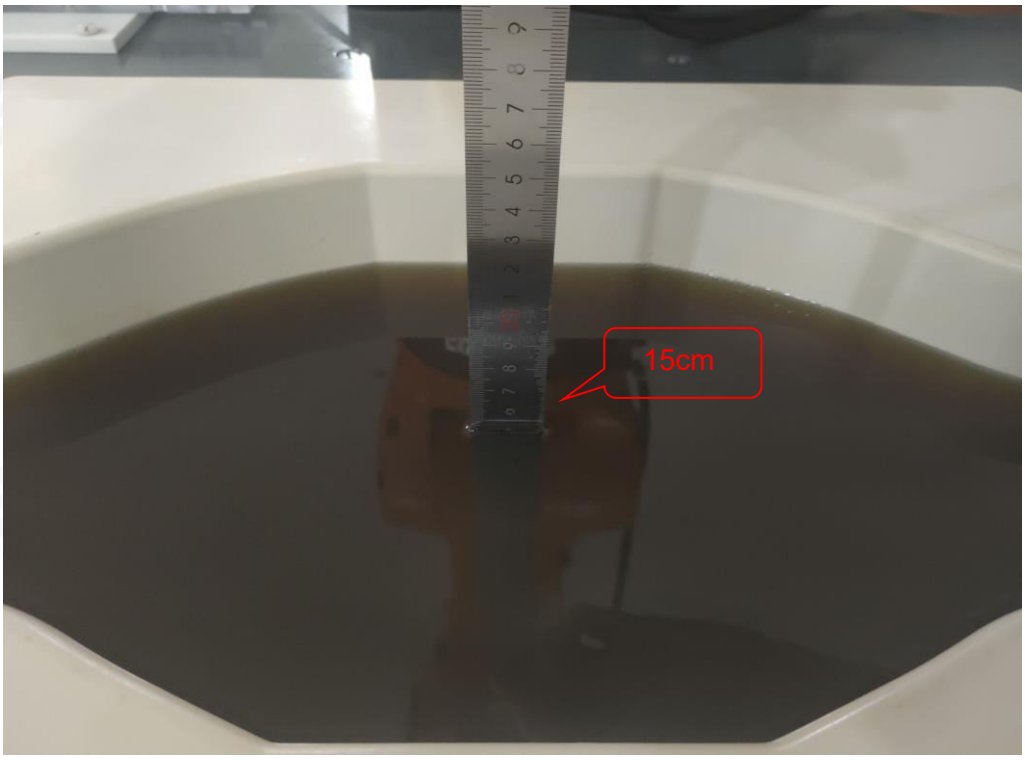


Body Bottom side(separation distance is 5mm)



Body Top side(separation distance is 5mm)

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)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS Data-2 Slot	Right Cheek	836.6	0.284	3.74	32.00	31.66	1.081	**0.307**	**1**
		Right Tilt	836.6	0.123	-0.90	32.00	31.66	1.081	0.133	/
		Left Cheek	836.6	0.275	3.86	32.00	31.66	1.081	0.297	**/**
		Left Tilt	836.6	0.114	-3.59	32.00	31.66	1.081	0.123	/
GSM1900	GPRS Data-2 Slot	Right Cheek	1880	0.079	-2.38	29.00	28.77	1.054	**0.083**	3
		Right Tilt	1880	0.038	-1.12	29.00	28.77	1.054	0.040	/
		Left Cheek	1880	0.072	2.80	29.00	28.77	1.054	**0.076**	**/**
		Left Tilt	1880	0.034	-0.81	29.00	28.77	1.054	0.036	/
WCDMA Band II	RMC	Right Cheek	1852.4	0.294	1.32	24.00	23.66	1.081	0.318	5
		Right Cheek	1880	0.288	-2.36	24.00	23.65	1.084	0.312	/
		Right Cheek	1907.6	0.284	1.53	24.00	23.61	1.094	0.311	/
		Right Tilt	1852.4	0.150	2.17	24.00	23.66	1.081	0.162	/
		Left Cheek	1852.4	0.286	0.37	24.00	23.66	1.081	0.309	**/**
		Left Tilt	1852.4	0.143	-3.94	24.00	23.66	1.081	0.155	/
WCDMA Band IV	RMC	Right Cheek	1712.6	0.135	2.44	24.00	23.76	1.057	0.143	**7**
		Right Tilt	1712.6	0.061	2.87	24.00	23.76	1.057	0.064	/
		Left Cheek	1712.6	0.123	-0.10	24.00	23.76	1.057	0.130	**/**
		Left Tilt	1712.6	0.056	1.48	24.00	23.76	1.057	0.059	/
WCDMA Band V	RMC	Right Cheek	826.4	0.215	-1.44	24.00	23.69	1.074	0.231	**9**
		Right Tilt	826.4	0.107	3.24	24.00	23.69	1.074	0.115	/
		Left Cheek	826.4	0.209	-3.78	24.00	23.69	1.074	0.224	**/**
		Left Tilt	826.4	0.101	2.95	24.00	23.69	1.074	0.108	/

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 2	20M	QPSK	1	0	Right Cheek	1860	0.136	1.21	24	23.78	1.052	0.143	**11**
			50	0	Right Cheek	1900	0.123	1.93	23	22.62	1.091	0.134	/
			1	0	Right Tilt	1860	0.047	0.18	24	23.78	1.052	0.049	/
			50	0	Right Tilt	1900	0.040	-0.76	23	22.62	1.091	0.044	/
			1	0	Left Cheek	1860	0.122	2.78	24	23.78	1.052	0.128	**/**
			50	0	Left Cheek	1900	0.115	-1.91	23	22.62	1.091	0.126	/
			1	0	Left Tilt	1860	0.039	3.10	24	23.78	1.052	0.041	/
			50	0	Left Tilt	1900	0.035	0.53	23	22.62	1.091	0.038	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1732.5	0.214	-3.10	24	23.77	1.054	0.226	**13**
			50	0	Right Cheek	1732.5	0.205	-0.66	23	22.56	1.107	0.227	/
			1	0	Right Tilt	1732.5	0.135	-3.90	24	23.77	1.054	0.142	/
			50	0	Right Tilt	1732.5	0.129	-1.11	23	22.56	1.107	0.143	/
			1	0	Left Cheek	1732.5	0.198	3.36	24	23.77	1.054	0.209	**/**
			50	0	Left Cheek	1732.5	0.186	1.75	23	22.56	1.107	0.206	/
			1	0	Left Tilt	1732.5	0.131	3.87	24	23.77	1.054	0.138	/
			50	0	Left Tilt	1732.5	0.125	-0.27	23	22.56	1.107	0.138	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	829	0.226	3.93	24	23.88	1.028	0.232	**15**
			25	0	Right Cheek	844	0.210	0.89	23	22.62	1.091	0.229	/
			1	0	Right Tilt	829	0.139	1.11	24	23.88	1.028	0.143	/
			25	0	Right Tilt	844	0.131	-3.95	23	22.62	1.091	0.143	/
			1	0	Left Cheek	829	0.208	-3.65	24	23.88	1.028	0.214	**/**
			25	0	Left Cheek	844	0.191	-3.28	23	22.62	1.091	0.208	/
			1	0	Left Tilt	829	0.124	0.81	24	23.88	1.028	0.127	/
			25	0	Left Tilt	844	0.113	-2.10	23	22.62	1.091	0.123	/

LTE Band 7	20M	QPSK	1	0	Right Cheek	2535	0.211	1.92	24	23.89	1.026	0.216	**17**
			50	0	Right Cheek	2510	0.196	2.52	23	22.62	1.091	0.214	/
			1	0	Right Tilt	2535	0.105	-3.46	24	23.89	1.026	0.108	/
			50	0	Right Tilt	2510	0.091	-3.64	23	22.62	1.091	0.099	/
			1	0	Left Cheek	2535	0.204	-1.43	24	23.89	1.026	0.209	**/**
			50	0	Left Cheek	2510	0.190	1.78	23	22.62	1.091	0.207	/
			1	0	Left Tilt	2535	0.095	-2.64	24	23.89	1.026	0.097	/
			50	0	Left Tilt	2510	0.087	-2.32	23	22.62	1.091	0.095	/
LTE Band 12	10M	QPSK	1	0	Right Cheek	704	0.128	-0.67	24	23.92	1.019	0.130	**19**
			25	0	Right Cheek	704	0.121	0.61	22.5	22.48	1.005	0.122	/
			1	0	Right Tilt	704	0.074	3.22	24	23.92	1.019	0.075	/
			25	0	Right Tilt	704	0.068	-0.96	22.5	22.48	1.005	0.068	/
			1	0	Left Cheek	704	0.114	-1.31	24	23.92	1.019	0.116	**/**
			25	0	Left Cheek	704	0.109	-3.42	22.5	22.48	1.005	0.110	/
			1	0	Left Tilt	704	0.065	-3.44	24	23.92	1.019	0.066	/
			25	0	Left Tilt	704	0.060	0.95	22.5	22.48	1.005	0.060	/
LTE Band 17	10M	QPSK	1	0	Right Cheek	709	0.117	3.47	24	23.86	1.033	0.121	**21**
			25	0	Right Cheek	710	0.103	-3.56	23	22.6	1.096	0.113	/
			1	0	Right Tilt	709	0.052	-2.28	24	23.86	1.033	0.054	/
			25	0	Right Tilt	710	0.046	0.21	23	22.6	1.096	0.050	/
			1	0	Left Cheek	709	0.115	3.28	24	23.86	1.033	0.119	**/**
			25	0	Left Cheek	710	0.100	-2.41	23	22.6	1.096	0.110	/
			1	0	Left Tilt	709	0.048	0.03	24	23.86	1.033	0.050	/
			25	0	Left Tilt	710	0.044	2.67	23	22.6	1.096	0.048	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1720	0.194	-1.10	24	23.91	1.021	0.198	**23**
			50	0	Right Cheek	1720	0.188	0.36	22.5	22.45	1.012	0.190	/
			1	0	Right Tilt	1720	0.086	-2.29	24	23.91	1.021	0.088	/
			50	0	Right Tilt	1720	0.075	-2.22	22.5	22.45	1.012	0.076	/
			1	0	Left Cheek	1720	0.189	1.96	24	23.91	1.021	0.193	**/**
			50	0	Left Cheek	1720	0.181	-2.99	22.5	22.45	1.012	0.183	/
			1	0	Left Tilt	1720	0.079	-0.37	24	23.91	1.021	0.081	/
			50	0	Left Tilt	1720	0.074	1.71	22.5	22.45	1.012	0.075	/

LTE Band 71	20M	QPSK	1	20M	Right Cheek	673	0.237	-2.96	24.5	24.1	1.096	0.260	**25**
			50	0	Right Cheek	683	0.224	-0.85	23	22.73	1.064	0.238	/
			1	0	Right Tilt	673	0.145	-1.52	24.5	24.1	1.096	0.159	/
			50	0	Right Tilt	683	0.140	-0.36	23	22.73	1.064	0.149	/
			1	0	Left Cheek	673	0.228	-1.61	24.5	24.1	1.096	0.250	/
			50	0	Left Cheek	683	0.216	2.73	23	22.73	1.064	0.230	/
			1	0	Left Tilt	673	0.135	0.78	24.5	24.1	1.096	0.148	/
			50	0	Left Tilt	683	0.129	3.00	23	22.73	1.064	0.137	/

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4G WLAN	802.11b	Right Cheek	2412	0.210	0.96	14.50	14.45	1.012	0.212	**27**
		Right Tilt	2412	0.164	-2.39	14.50	14.45	1.012	0.166	/
		Left Cheek	2412	0.204	0.91	14.50	14.45	1.012	0.206	/
		Left Tilt	2412	0.159	2.31	14.50	14.45	1.012	0.161	/
5.2G WLAN	802.11 n-HT20	Right Cheek	5180	0.191	1.25	14.50	14.15	1.084	0.207	**29**
		Right Tilt	5180	0.135	-1.70	14.50	14.15	1.084	0.146	/
		Left Cheek	5180	0.182	-2.25	14.50	14.15	1.084	0.197	/
		Left Tilt	5180	0.131	0.90	14.50	14.15	1.084	0.142	/
5.8G WLAN	802.11ac-VHT20	Right Cheek	5745	0.182	-0.14	12.50	12.16	1.081	0.197	**31**
		Right Tilt	5745	0.145	1.65	12.50	12.16	1.081	0.157	/
		Left Cheek	5745	0.176	-3.90	12.50	12.16	1.081	0.190	/
		Left Tilt	5745	0.143	-1.69	12.50	12.16	1.081	0.155	/

Note:

1. Per KDB 447498 D04, 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 248227- When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg. (The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was **0.206** W/Kg for Head)
3. 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

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
GSM850	GPRS Data-2 Slot	Front Side	836.6	0.105	-3.66	32.00	31.66	1.081	0.114	**/**
		Back Side	836.6	0.247	-1.92	32.00	31.66	1.081	0.267	**2**
		Left Side	836.6	0.154	0.41	32.00	31.66	1.081	0.167	/
		Right Side	836.6	0.149	2.11	32.00	31.66	1.081	0.161	/
		Top Side	836.6	0.025	0.68	32.00	31.66	1.081	0.027	/
		Bottom Side	836.6	0.162	3.31	32.00	31.66	1.081	0.175	/
GSM1900	GPRS Data-2 Slot	Front Side	1880	0.125	3.54	29.00	28.77	1.054	0.132	**/**
		Back Side	1880	0.329	0.99	29.00	28.77	1.054	0.347	**4**
		Left Side	1880	0.224	-3.53	29.00	28.77	1.054	0.236	/
		Right Side	1880	0.216	-3.12	29.00	28.77	1.054	0.228	/
		Bottom Side	1880	0.253	0.86	29.00	28.77	1.054	0.267	**/**
WCDMA Band II	RMC	Front Side	1852.4	0.214	-0.29	24.00	23.66	1.081	0.231	**/**
		Back Side	1852.4	0.632	-2.14	24.00	23.66	1.081	0.683	**6**
		Back Side	1880	0.605	-1.74	24.00	23.65	1.084	0.656	**/**
		Back Side	1907.6	0.614	-2.23	24.00	23.61	1.094	0.672	**/**
		Left Side	1852.4	0.363	2.62	24.00	23.66	1.081	0.393	/
		Right Side	1852.4	0.345	-0.06	24.00	23.66	1.081	0.373	/
		Bottom Side	1852.4	0.450	-3.73	24.00	23.66	1.081	0.487	**/**
WCDMA Band IV	RMC	Front Side	1712.6	0.189	0.14	24.00	23.76	1.057	0.200	**/**
		Back Side	1712.6	0.438	1.74	24.00	23.76	1.057	0.463	**8**
		Left Side	1712.6	0.214	3.98	24.00	23.76	1.057	0.226	/
		Right Side	1712.6	0.208	2.80	24.00	23.76	1.057	0.220	/
		Bottom Side	1712.6	0.269	2.53	24.00	23.76	1.057	0.284	**/**
WCDMA Band V	RMC	Front Side	826.4	0.096	0.72	24.00	23.69	1.074	0.103	**/**
		Back Side	826.4	0.197	-2.09	24.00	23.69	1.074	0.212	**10**
		Left Side	826.4	0.101	2.48	24.00	23.69	1.074	0.108	/
		Right Side	826.4	0.106	0.50	24.00	23.69	1.074	0.114	/
		Bottom Side	826.4	0.153	3.70	24.00	23.69	1.074	0.164	**/**

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 2	20M	QPSK	1	0	Front side	1860	0.233	-3.28	24	23.78	1.052	0.245	/
			50	0	Front side	1900	0.215	2.02	23	22.62	1.091	0.235	/
			1	0	Back Side	1860	0.634	-2.85	24	23.78	1.052	0.667	**12**
			50	0	Back Side	1900	0.605	1.43	23	22.62	1.091	0.660	/
			1	0	Left Side	1860	0.321	2.92	24	23.78	1.052	0.338	/
			50	0	Left Side	1900	0.304	0.26	23	22.62	1.091	0.332	/
			1	0	Right Side	1860	0.318	-3.82	24	23.78	1.052	0.335	/
			50	0	Right Side	1900	0.314	-3.95	23	22.62	1.091	0.343	/
			1	0	Bottom Side	1860	0.397	0.69	24	23.78	1.052	0.418	**/**
			50	0	Bottom Side	1900	0.390	3.40	23	22.62	1.091	0.426	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.124	2.17	24	23.77	1.054	0.131	/
			50	0	Front side	1732.5	0.115	-3.14	23	22.56	1.107	0.127	/
			1	0	Back Side	1732.5	0.398	-1.76	24	23.77	1.054	0.420	**14**
			50	0	Back Side	1732.5	0.375	2.98	23	22.56	1.107	0.415	/
			1	0	Left Side	1732.5	0.148	1.71	24	23.77	1.054	0.156	/
			50	0	Left Side	1732.5	0.141	3.50	23	22.56	1.107	0.156	/
			1	0	Right Side	1732.5	0.152	3.82	24	23.77	1.054	0.160	/
			50	0	Right Side	1732.5	0.146	-1.92	23	22.56	1.107	0.162	/
			1	0	Bottom Side	1732.5	0.267	-2.20	24	23.77	1.054	0.282	**/**
			50	0	Bottom Side	1732.5	0.245	0.79	23	22.56	1.107	0.271	/
LTE Band 5	10M	QPSK	1	0	Front side	829	0.120	1.23	24	23.88	1.028	0.123	/
			25	0	Front side	844	0.112	-3.99	23	22.62	1.091	0.122	/
			1	0	Back Side	829	0.233	-3.48	24	23.88	1.028	0.240	**16**
			25	0	Back Side	844	0.207	-3.08	23	22.62	1.091	0.226	/
			1	0	Left Side	829	0.162	1.58	24	23.88	1.028	0.167	/
			25	0	Left Side	844	0.154	1.60	23	22.62	1.091	0.168	/
			1	0	Right Side	829	0.158	0.75	24	23.88	1.028	0.162	/
			25	0	Right Side	844	0.149	-1.43	23	22.62	1.091	0.163	/
			1	0	Bottom Side	829	0.178	1.59	24	23.88	1.028	0.183	**/**
			25	0	Bottom Side	844	0.165	-2.41	23	22.62	1.091	0.180	/

LTE Band 7	10M	QPSK	1	0	Front side	2535	0.125	-0.58	24	23.89	1.026	0.128	/
			50	0	Front side	2510	0.114	-2.01	23	22.62	1.091	0.124	/
			1	0	Back Side	2535	0.306	-3.83	24	23.89	1.026	0.314	**18**
			50	0	Back Side	2510	0.297	-2.79	23	22.62	1.091	0.324	/
			1	0	Left Side	2535	0.139	3.51	24	23.89	1.026	0.143	/
			50	0	Left Side	2510	0.122	2.60	23	22.62	1.091	0.133	/
			1	0	Right Side	2535	0.147	-3.43	24	23.89	1.026	0.151	/
			50	0	Right Side	2510	0.128	1.79	23	22.62	1.091	0.140	/
			1	0	Bottom Side	2535	0.178	-3.20	24	23.89	1.026	0.183	**/**
			50	0	Bottom Side	2510	0.159	-0.34	23	22.62	1.091	0.174	/
LTE Band 12	10M	QPSK	1	0	Front side	704	0.087	-0.10	24	23.92	1.019	0.089	/
			25	0	Front side	704	0.074	-0.15	22.5	22.48	1.005	0.074	/
			1	0	Back Side	704	0.168	-3.47	24	23.92	1.019	0.171	**20**
			25	0	Back Side	704	0.152	-1.11	22.5	22.48	1.005	0.153	/
			1	0	Left Side	704	0.096	2.35	24	23.92	1.019	0.098	/
			25	0	Left Side	704	0.091	-1.13	22.5	22.48	1.005	0.091	/
			1	0	Right Side	704	0.084	1.76	24	23.92	1.019	0.086	/
			25	0	Right Side	704	0.078	0.76	22.5	22.48	1.005	0.078	/
			1	0	Bottom Side	704	0.123	-3.40	24	23.92	1.019	0.125	**/**
			25	0	Bottom Side	704	0.114	3.54	22.5	22.48	1.005	0.115	/
LTE Band 17	10M	QPSK	1	0	Front side	709	0.064	1.10	24	23.86	1.033	0.066	/
			25	0	Front side	710	0.054	-3.86	23	22.6	1.096	0.059	/
			1	0	Back Side	709	0.129	3.55	24	23.86	1.033	0.133	**22**
			25	0	Back Side	710	0.112	0.89	23	22.6	1.096	0.123	/
			1	0	Left Side	709	0.067	-3.77	24	23.86	1.033	0.069	/
			25	0	Left Side	710	0.060	2.95	23	22.6	1.096	0.066	/
			1	0	Right Side	709	0.074	3.55	24	23.86	1.033	0.076	/
			25	0	Right Side	710	0.069	1.70	23	22.6	1.096	0.076	/
			1	0	Bottom Side	709	0.094	3.47	24	23.86	1.033	0.097	**/**
			25	0	Bottom Side	710	0.088	0.16	23	22.6	1.096	0.096	/

LTE Band 66	20M	QPSK	1	0	Front side	1720	0.174	3.56	24	23.91	1.021	0.178	/
			50	0	Front side	1720	0.163	-2.03	22.5	22.45	1.012	0.165	/
			1	0	Back Side	1720	0.449	3.04	24	23.91	1.021	0.458	**24**
			50	0	Back Side	1720	0.431	-0.73	22.5	22.45	1.012	0.436	/
			1	0	Left Side	1720	0.212	2.50	24	23.91	1.021	0.216	/
			50	0	Left Side	1720	0.197	2.90	22.5	22.45	1.012	0.199	/
			1	0	Right Side	1720	0.235	-0.20	24	23.91	1.021	0.240	/
			50	0	Right Side	1720	0.204	2.73	22.5	22.45	1.012	0.206	/
			1	0	Bottom Side	1720	0.258	-1.32	24	23.91	1.021	0.263	**/**
			50	0	Bottom Side	1720	0.221	1.06	22.5	22.45	1.012	0.224	/
LTE Band 71	20M	QPSK	1	0	Front side	673	0.168	2.35	24.5	24.1	1.096	0.184	/
			50	0	Front side	683	0.156	-0.18	23	22.73	1.064	0.166	/
			1	0	Back Side	673	0.448	-1.56	24.5	24.1	1.096	0.491	**26**
			50	0	Back Side	683	0.425	-2.55	23	22.73	1.064	0.452	/
			1	0	Left Side	673	0.215	1.44	24.5	24.1	1.096	0.236	/
			50	0	Left Side	683	0.206	3.12	23	22.73	1.064	0.219	/
			1	0	Right Side	673	0.228	2.97	24.5	24.1	1.096	0.250	/
			50	0	Right Side	683	0.210	2.99	23	22.73	1.064	0.223	/
			1	0	Bottom Side	673	0.269	-0.88	24.5	24.1	1.096	0.295	**/**
			50	0	Bottom Side	683	0.252	-3.98	23	22.73	1.064	0.268	/

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas.No.
2.4GHz WLAN	802.11b	Front Side	2412	0.124	-0.27	14.50	14.45	1.012	0.125	/
		Back Side	2412	0.209	1.90	14.50	14.45	1.012	0.211	**28**
		Right Side	2412	0.145	0.95	14.50	14.45	1.012	0.147	/
		Top Side	2412	0.176	-1.67	14.50	14.45	1.012	0.178	/
5.2GHz WLAN	802.11 n-HT20	Front Side	5180	0.103	-2.58	14.50	14.15	1.084	0.112	/
		Back Side	5180	0.258	2.48	14.50	14.15	1.084	0.280	**30**
		Right Side	5180	0.178	2.15	14.50	14.15	1.084	0.193	/
		Top Side	5180	0.235	2.00	14.50	14.15	1.084	0.255	/
5.8GHz WLAN	802.11ac-VHT20	Front Side	5745	0.087	0.42	12.50	12.16	1.081	0.094	/
		Back Side	5745	0.176	2.38	12.50	12.16	1.081	0.190	**32**
		Right Side	5745	0.155	-3.01	12.50	12.16	1.081	0.168	/
		Top Side	5745	0.162	1.79	12.50	12.16	1.081	0.175	/

12.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 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)]·[√f (GHz) /x] W/kg for test separation distances≤ 50 mm; Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR. b) 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Average Power		Dis.	Frequency(GHz)	Stand alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	0.5	1.122	5	2.402	0.046
	Body			5	2.402	0.046

Simultaneous Mode	Position	Mode	Max. 1-g SAR (W/kg)	1-g Sum SAR (W/kg)
GSM + 2.4G WLAN	Head	GSM	0.307	0.519
		2.4G WLAN	0.212	
	Body	GSM	0.347	0.558
		2.4G WLAN	0.211	
GSM + 5G WLAN	Head	GSM	0.307	0.514
		5G WLAN	0.207	
	Body	GSM	0.347	0.627
		5G WLAN	0.280	
WCDMA + 2.4G WLAN	Head	WCDMA	0.318	0.530
		2.4G WLAN	0.212	
	Body	WCDMA	0.683	0.894
		2.4G WLAN	0.211	
WCDMA + 5G WLAN	Head	WCDMA	0.207	0.414
		5G WLAN	0.207	
	Body	WCDMA	0.683	0.963
		5G WLAN	0.280	
LTE + 2.4G WLAN	Head	LTE	0.260	0.472
		2.4G WLAN	0.212	
	Body	LTE	0.667	0.878
		2.4G WLAN	0.211	
LTE + 5G WLAN	Head	LTE	0.260	0.467
		5G WLAN	0.207	
	Body	LTE	0.667	0.947
		5G WLAN	0.280	
GSM +BT	Head	GSM	0.307	0.353
		BT	0.046	
	Body	GSM	0.347	0.393
		BT	0.046	
WCDMA +BT	Head	WCDMA	0.318	0.364
		BT	0.046	
	Body	WCDMA	0.683	0.729
		BT	0.046	
LTE + BT	Head	LTE	0.260	0.306
		BT	0.046	
	Body	LTE	0.667	0.713
		BT	0.046	

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
750MHz Dipole	MVG	SID750	SN 30/14 DIP0G750-331	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
2450MHzDipole	MVG	SID2450	SN 30/14 DIP2G450-335	2023.07.04	2026.07.03
2600MHz Dipole	MVG	SID2600	SN 30/14 DIP2G600-336	2023.07.04	2026.07.03
Waveguide	MVG	SWG5500	SN 13/14 WGA32	2023.07.04	2026.07.03
E-Field Probe	MVG	SSE2	SN 08/21 EPGO352	2024.09.18	2025.09.17
Dielectric Probe Kit	MVG	SCLMP	SN 32/14 OCPG67	2024.09.18	2025.09.17
Antenna	MVG	ANTA3	SN 07/13 ZNTA52	N/A	N/A
Phantom1	MVG	SAM	SN 32/14 SAM115	N/A	N/A
Phantom3	MVG	SAM	SN 21/21 ELLI48	N/A	N/A
Phone holder	MVG	N/A	SN 32/14 MSH97	N/A	N/A
Laptop holder	MVG	N/A	SN 32/14 LSH29	N/A	N/A
Attenuator	Agilent	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	2024-09-25	2025-09-26
Multi Meter	Keithley	Multi Meter 2000	4050073	2024-09-25	2025-09-26
Signal Generator	Agilent	N5182A	MY50140530	2024-09-25	2025-09-26
Wireless Communication Test Set	R&S	CMW500	156324	2024-09-25	2025-09-26
Power Amplifier	DESAY	ZHL-42W	9638	2024-09-25	2025-09-26
Power Meter	R&S	NRP	100510	2024-09-25	2025-09-26
Power Sensor	R&S	NRP-Z11	101919	2024-09-25	2025-09-26
Power Sensor	Keysight	U2021XA	MY56280002	2024-09-25	2025-09-26
Temperature hygrometer	SuWei	SW-108	N/A	2024.10.15	2025.10.14
Thermograph	Elitech	RC-4	S/N EF7176501537	2024.10.15	2025.10.14

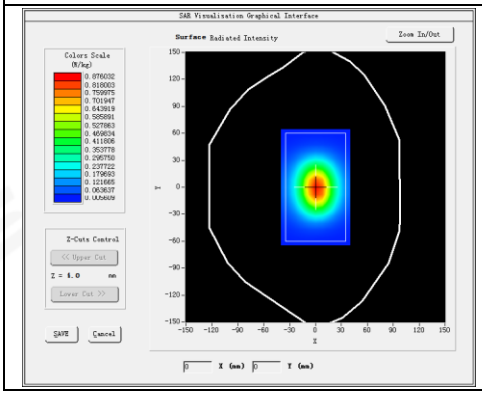
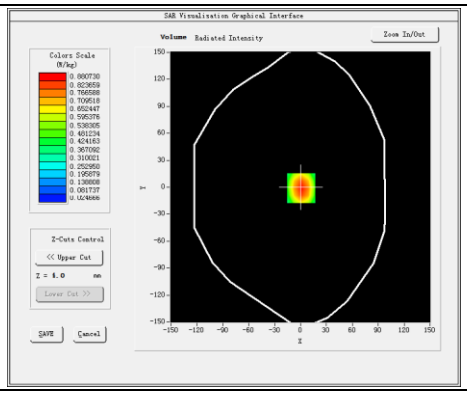
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-16

Experimental conditions

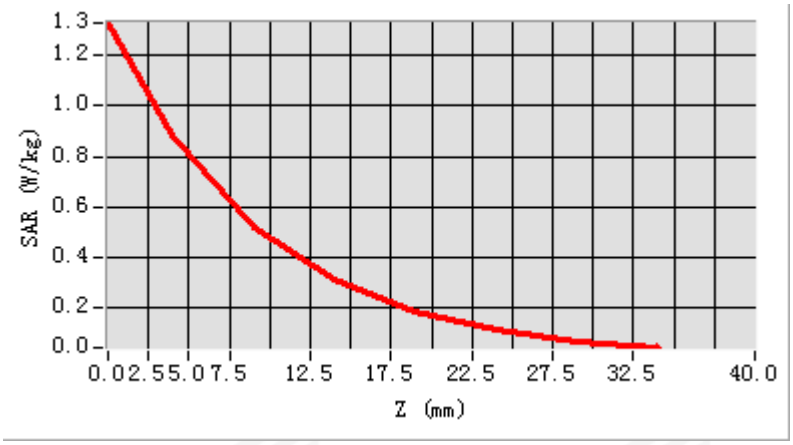
Phantom	Validation plane
Device Position	Dipole
Band	750MHz
Channels	Middle
Signal	CW
Frequency (MHz)	750MHz
Relative permittivity	42.63
Conductivity (S/m)	0.85
Probe	SN 08/21 EPGO352
ConvF	1.56
Crest factor	1:1

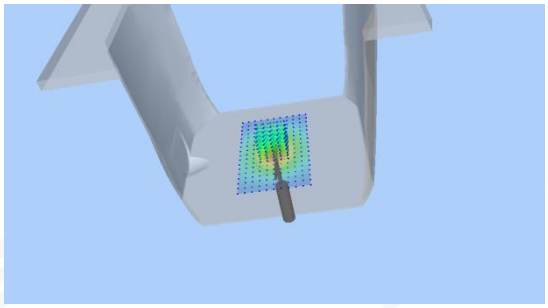
SURFACE SAR	VOLUME SAR
	

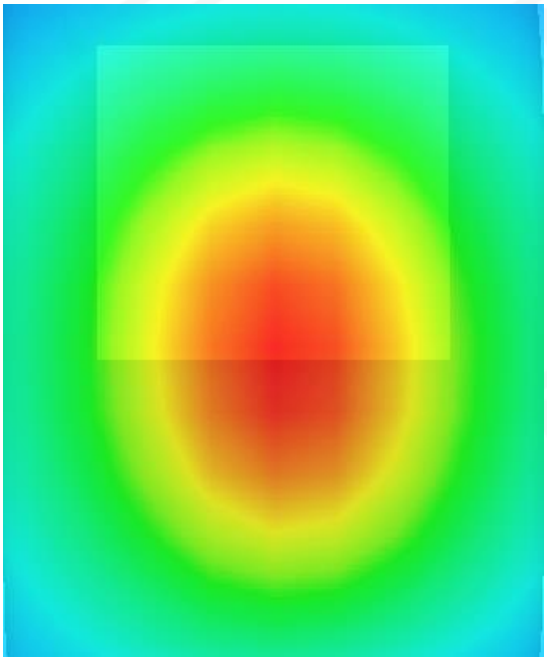
Maximum location: X=2.00, Y=1.00

SAR 10g (W/Kg)	0.564623
SAR 1g (W/Kg)	0.874300

Z Axis Scan


1.3
1.2
1.0
0.8
0.6
0.4
0.2
0.0
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)





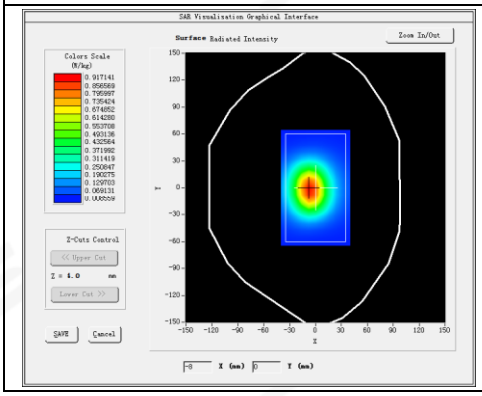
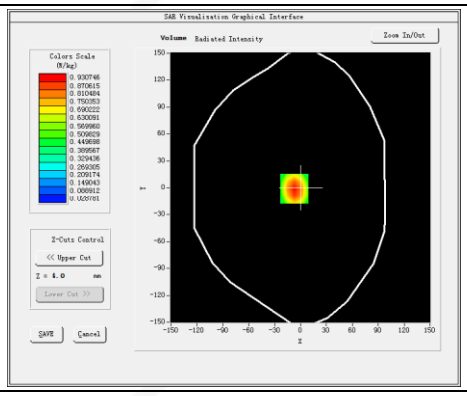
System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-17

Experimental conditions

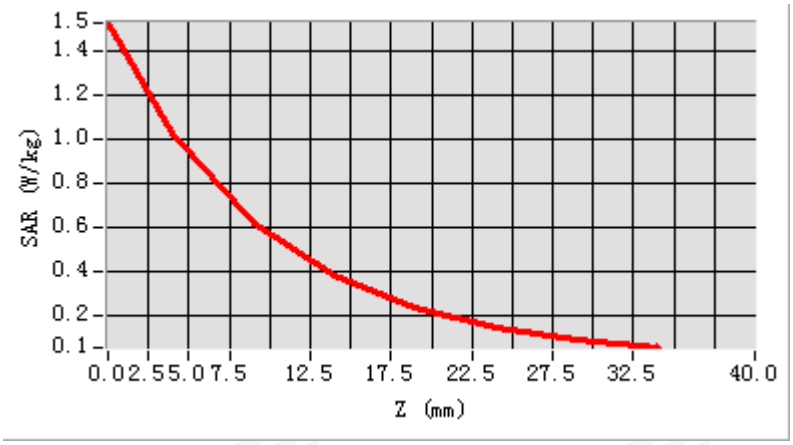
Phantom	Validation plane
Device Position	Dipole
Band	835MHz
Channels	Middle
Signal	CW
Frequency (MHz)	835MHz
Relative permittivity	41.31
Conductivity (S/m)	0.91
Probe	SN 08/21 EPGO352
ConvF	1.44
Crest factor:	1:1

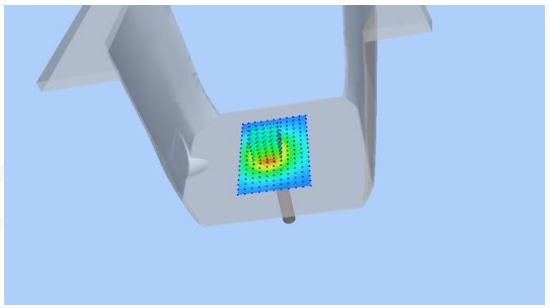
SURFACE SAR	VOLUME SAR
	

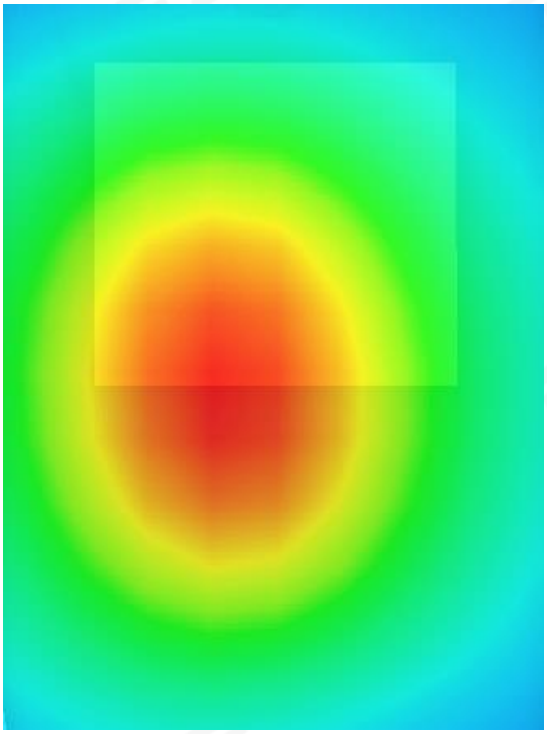
Maximum location: X=-7.00, Y=-1.00

SAR 10g (W/Kg)	0.559866
SAR 1g (W/Kg)	0.939565

Z Axis Scan


1.5
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.1
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



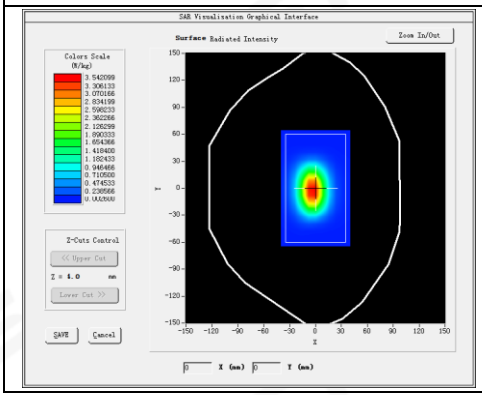
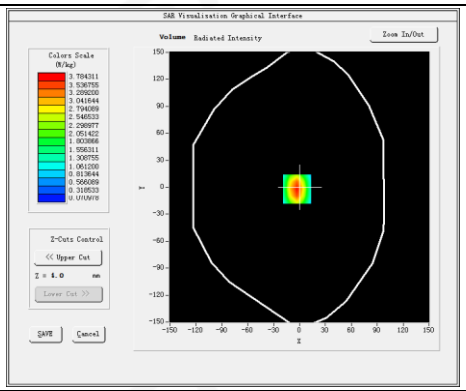


System Performance Check Data(1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-18

Experimental conditions.

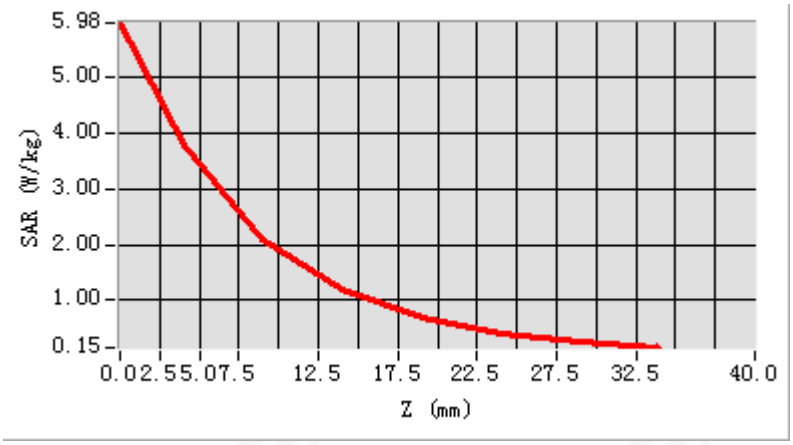
Phantom	Validation plane
Device Position	Dipole
Band	1800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1800MHz
Relative permittivity	40.85
Conductivity (S/m)	1.42
Probe	SN 08/21 EPGO352
ConvF	1.58
Crest factor:	1:1

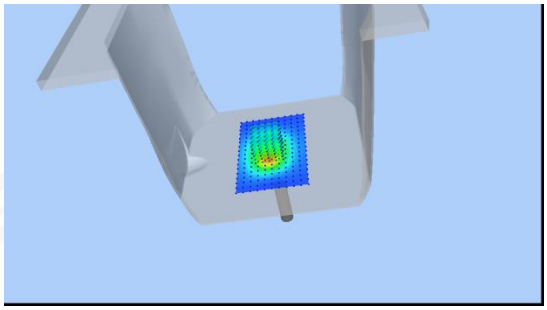
SURFACE SAR	VOLUME SAR
	

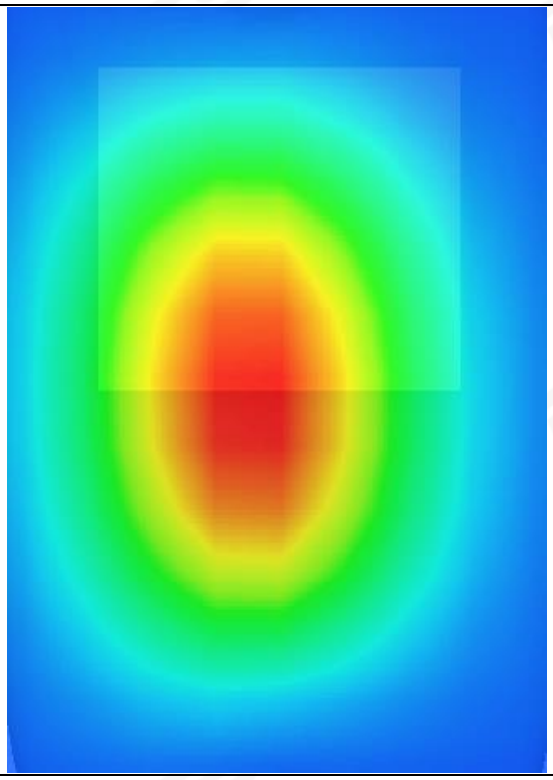
Maximum location: X=5.00, Y=1.00

SAR 10g (W/Kg)	1.945814
SAR 1g (W/Kg)	3.701882

Z Axis Scan


5.98
5.00
4.00
3.00
2.00
1.00
0.15
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



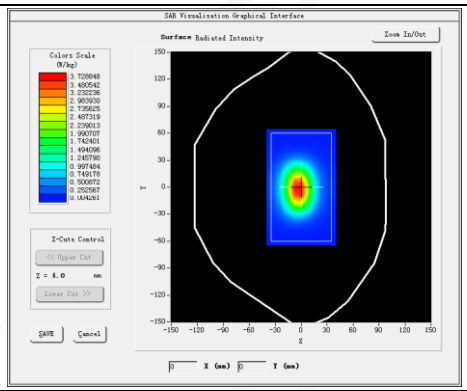
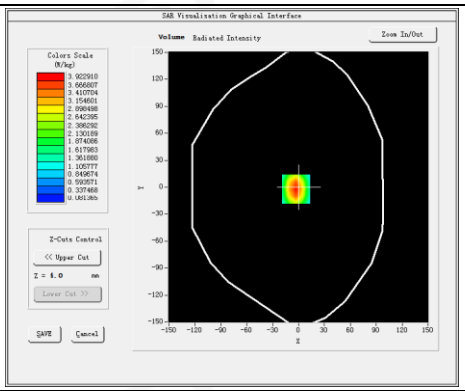


System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-19

Experimental conditions.

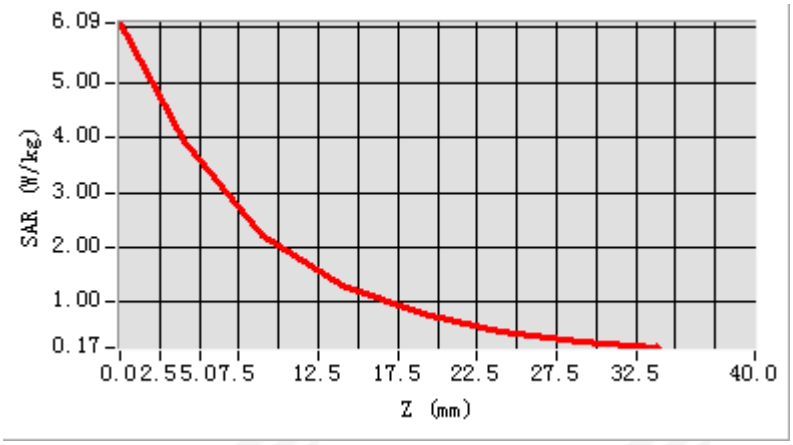
Phantom	Validation plane
Device Position	Dipole
Band	1900MHz
Channels	Middle
Signal	CW
Frequency (MHz)	1900MHz
Relative permittivity	41.20
Conductivity (S/m)	1.36
Probe	SN 08/21 EPGO352
ConvF	1.72
Crest factor:	1:1

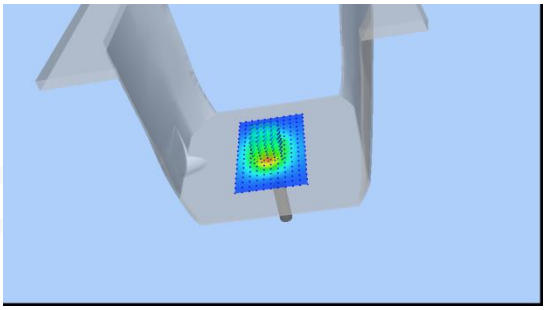
SURFACE SAR	VOLUME SAR
	

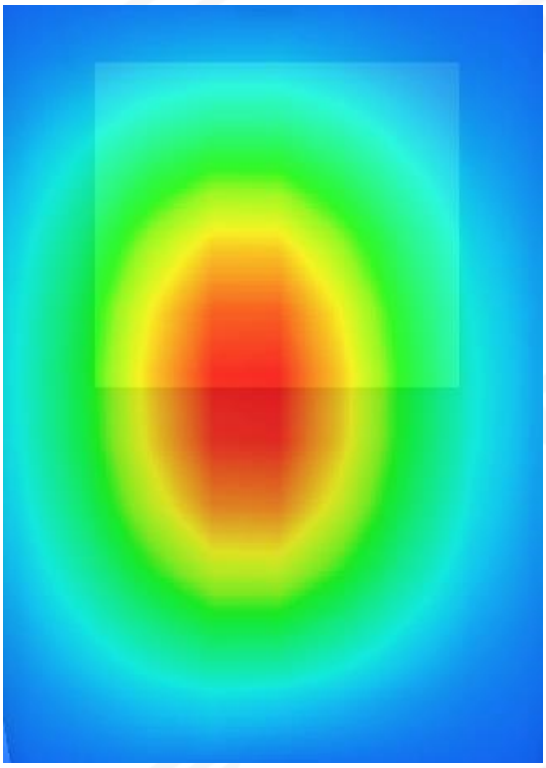
Maximum location: X=3.00, Y=-2.00

SAR 10g (W/Kg)	2.035107
SAR 1g (W/Kg)	3.875793

Z Axis Scan


6.09
5.00
4.00
3.00
2.00
1.00
0.17
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)



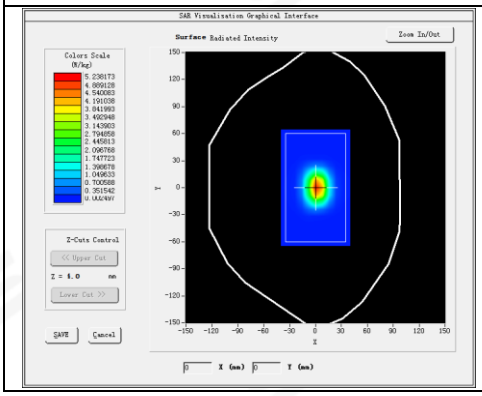
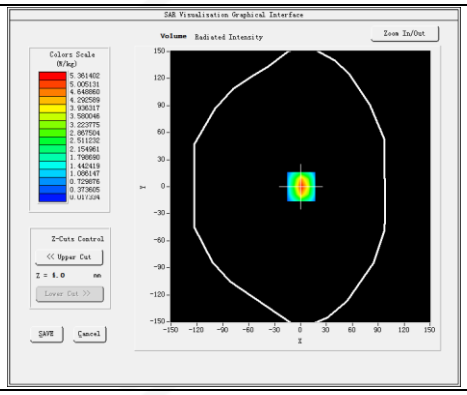


System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-20

Experimental conditions.

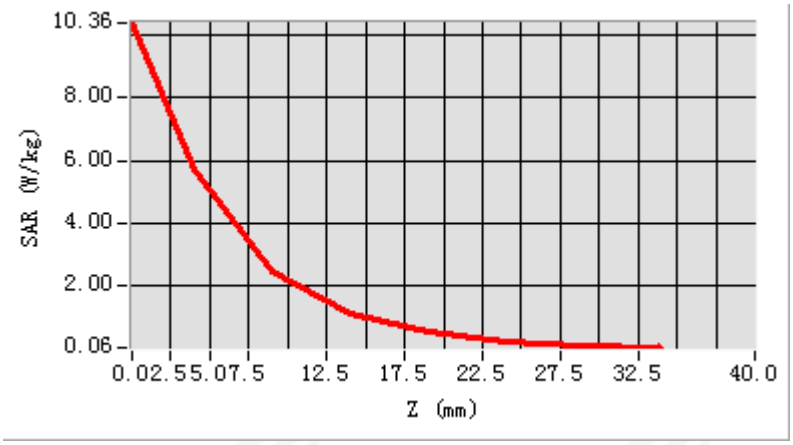
Phantom	Validation plane
Device Position	Dipole
Band	2450MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2450
Relative permittivity	40.13
Conductivity (S/m)	1.76
Probe	SN 08/21 EPGO352
ConvF	1.80
Crest factor:	1:1

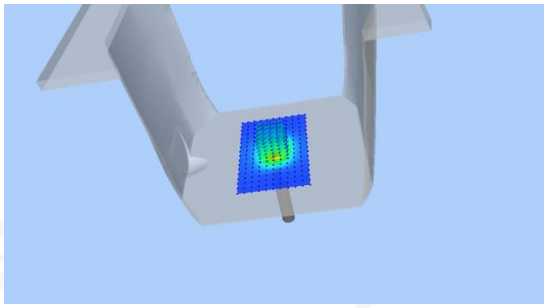
SURFACE SAR	VOLUME SAR
	

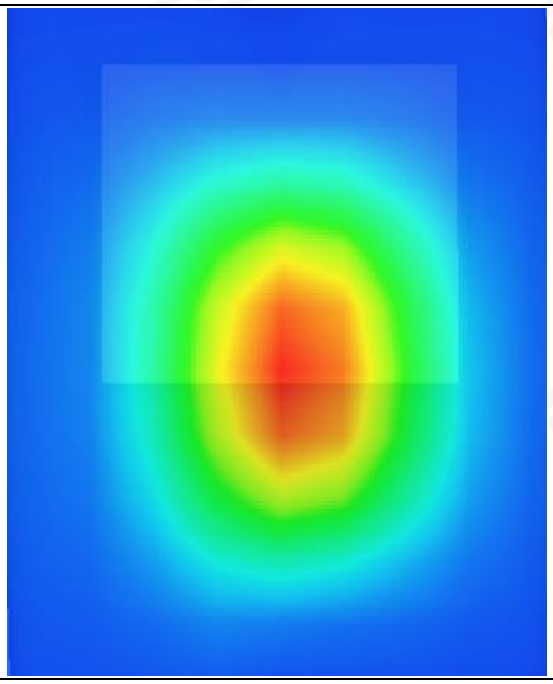
Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.135918
SAR 1g (W/Kg)	5.319774

Z Axis Scan


10.36
8.00
6.00
4.00
2.00
0.06
SAR (W/kg)
0.02.55.07.5
12.5
17.5
22.5
27.5
32.5
40.0
Z (mm)



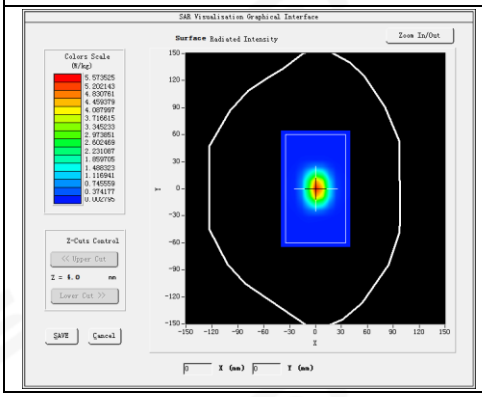
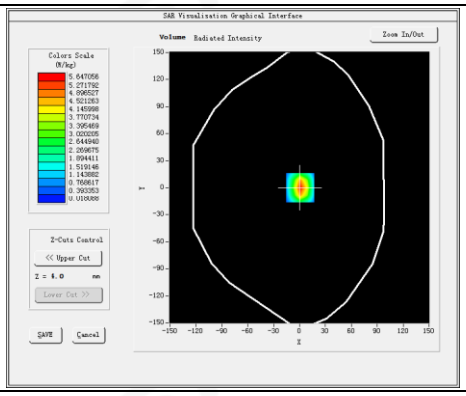


System Performance Check Data(2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-04-20

Experimental conditions.

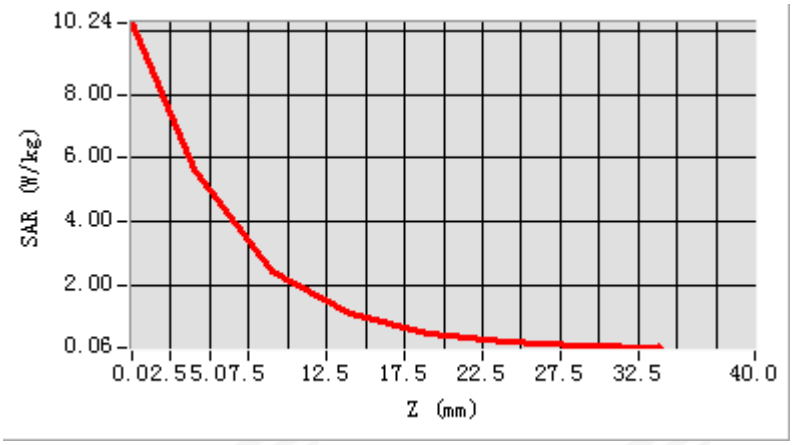
Phantom	Validation plane
Device Position	Dipole
Band	2600MHz
Channels	Middle
Signal	CW
Frequency (MHz)	2600
Relative permittivity	39.60
Conductivity (S/m)	2.02
Probe	SN 08/21 EPGO352
ConvF	1.74
Crest factor:	1:1

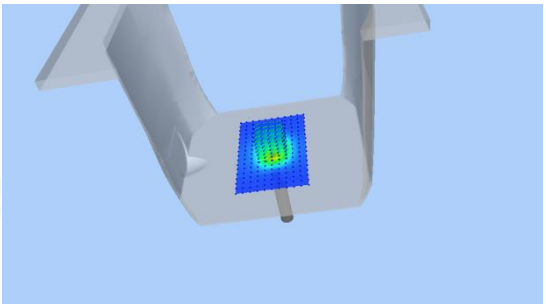
SURFACE SAR	VOLUME SAR
	

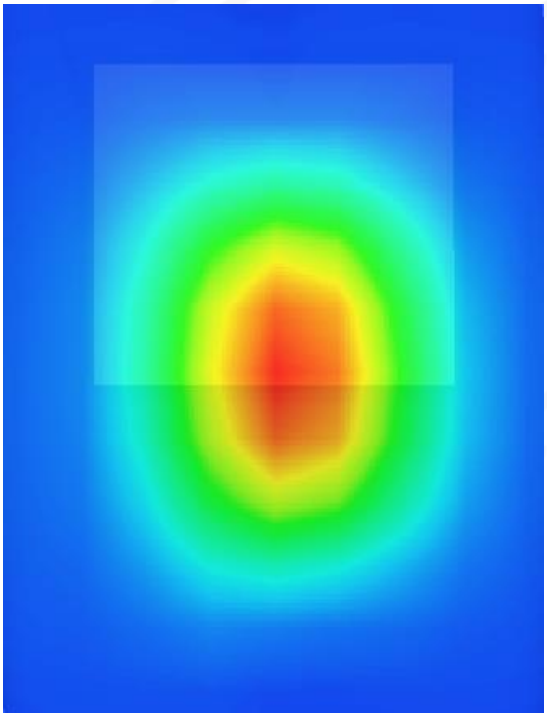
Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	2.359604
SAR 1g (W/Kg)	5.410914

Z Axis Scan


10.24
8.00
6.00
4.00
2.00
0.06
SAR (W/kg)
0.02.55.07.5
12.5
17.5
22.5
27.5
32.5
40.0
Z (mm)



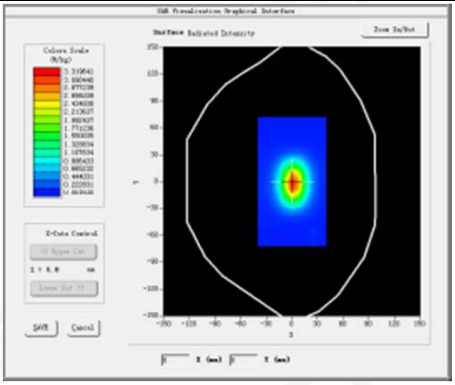
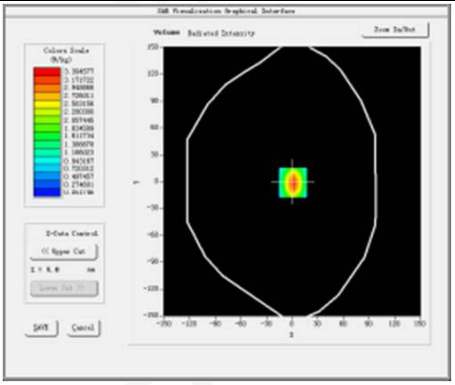


System Performance Check Data (5200MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-04-21

Experimental conditions.

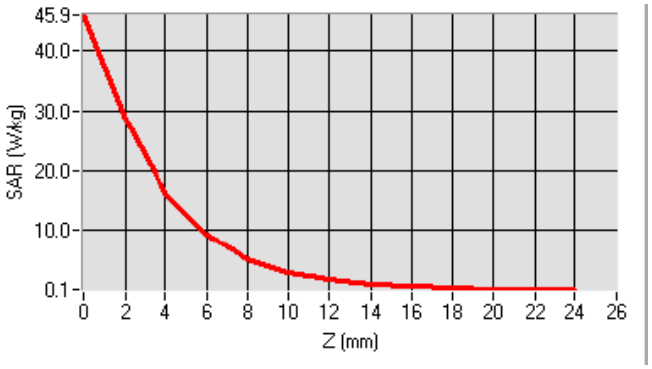
Phantom	Validation plane
Device Position	Dipole
Band	5200MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5200
Relative permittivity	35.75
Conductivity (S/m)	4.64
Probe	SN 08/21 EPGO352
ConvF	1.33}
Crest factor:	1:1

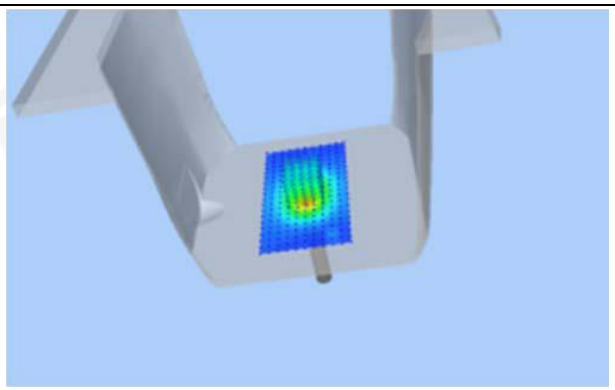
SURFACE SAR	VOLUME SAR
	

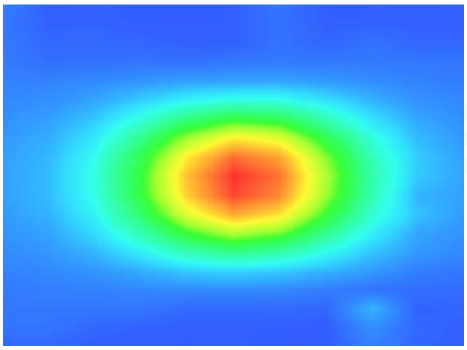
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	5.509445
SAR 1g (W/Kg)	15.981937

Z Axis Scan





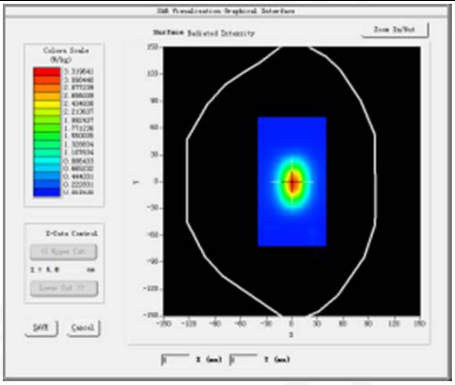
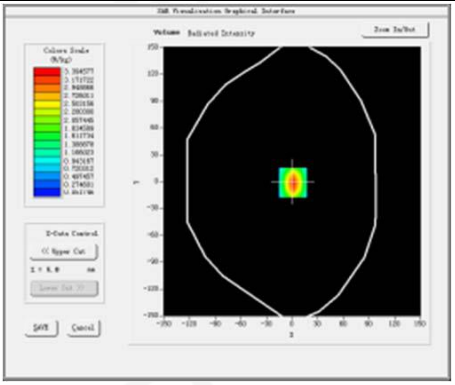


System Performance Check Data (5800MHz)

Type: Dipole measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=4mm, dy=4mm, dz=2mm
Date of measurement: 2025-04-21

Experimental conditions.

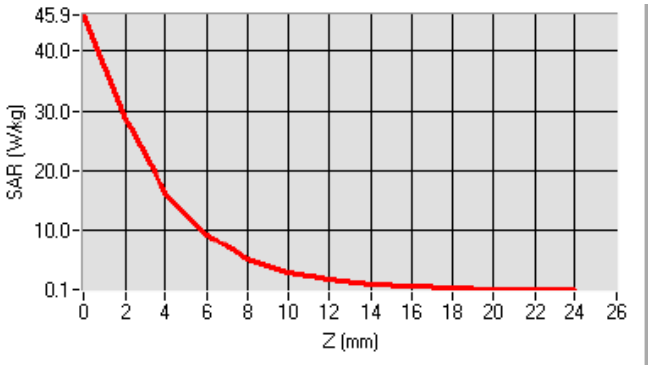
Phantom	Validation plane
Device Position	Dipole
Band	5800MHz
Channels	Middle
Signal	CW
Frequency (MHz)	5800
Relative permittivity	36.10
Conductivity (S/m)	5.26
Probe	SN 08/21 EPGO352
ConvF	1.35
Crest factor:	1:1

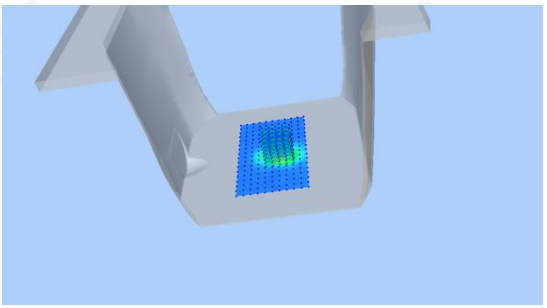
SURFACE SAR	VOLUME SAR
	

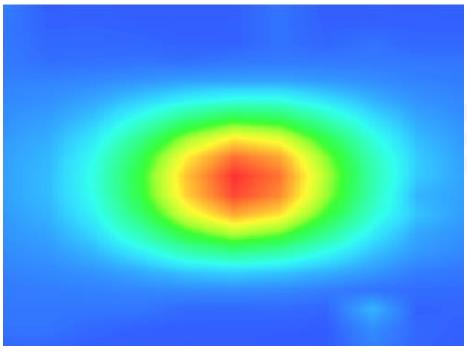
Maximum location: X=7.00, Y=2.00

SAR 10g (W/Kg)	6.397032
SAR 1g (W/Kg)	18.567998

Z Axis Scan







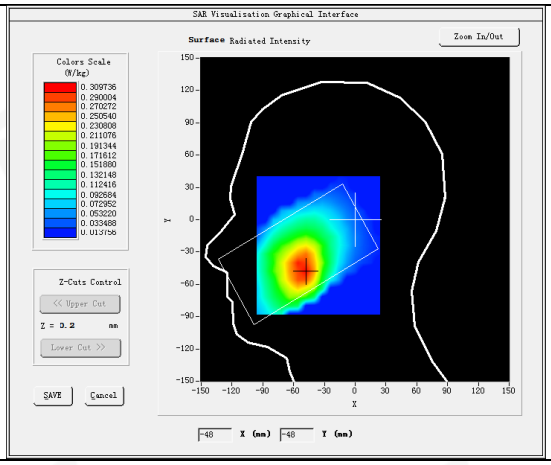
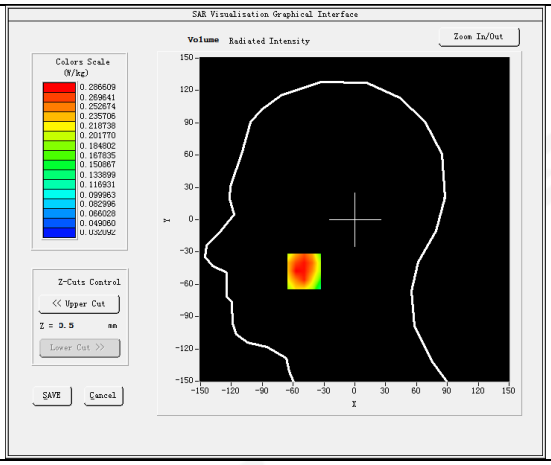
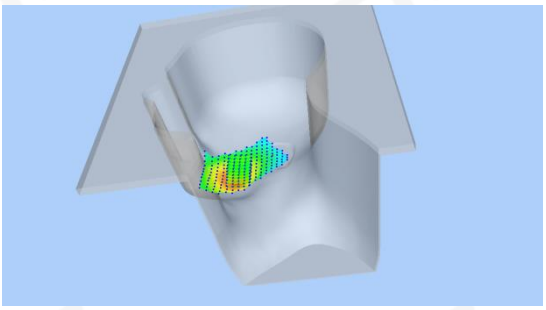
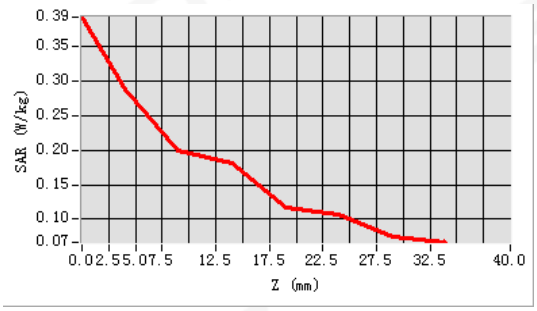
Appendix B. SAR Test Plots

Plot 1: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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)	836.6
Relative permittivity (real part)	40.83
Conductivity (S/m)	0.91

Maximum location: X=-49.00, Y=-48.00
SAR Peak: 0.39 W/kg

SAR 10g (W/Kg)	0.203827
SAR 1g (W/Kg)	0.283741

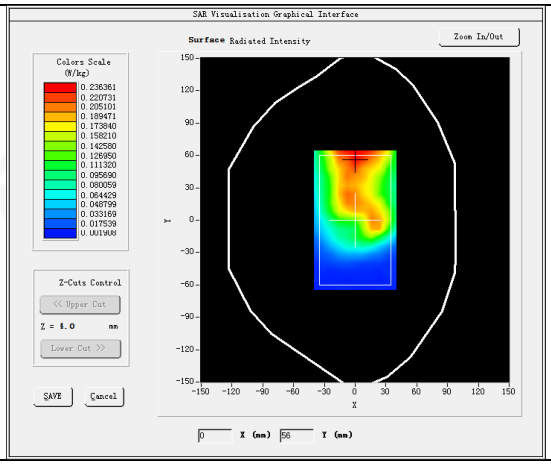
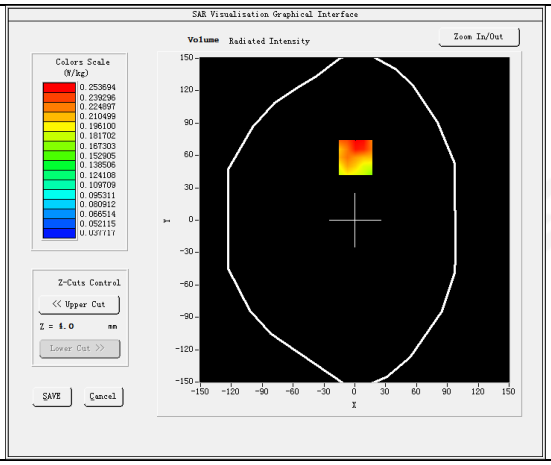
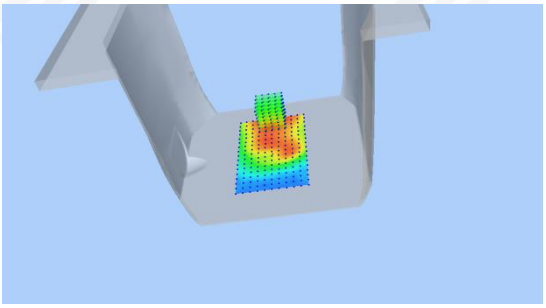
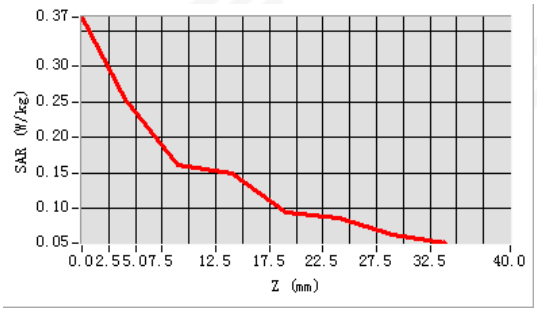
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 2: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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)	836.6
Relative permittivity (real part)	40.83
Conductivity (S/m)	0.91

Maximum location: X=1.00, Y=58.00
SAR Peak: 0.34 W/kg

SAR 10g (W/Kg)	0.173419
SAR 1g (W/Kg)	0.247499

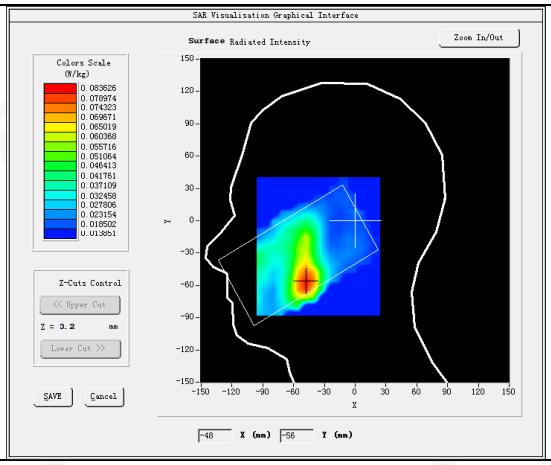
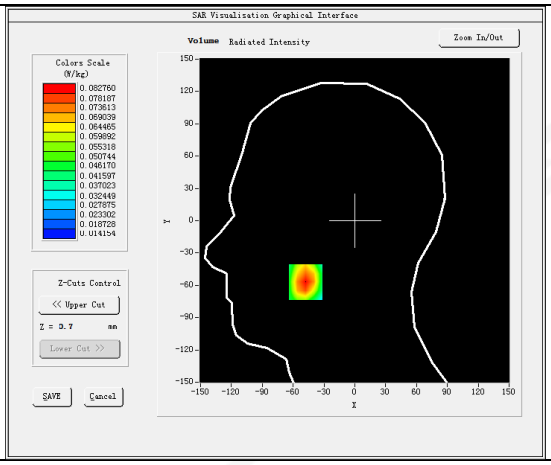
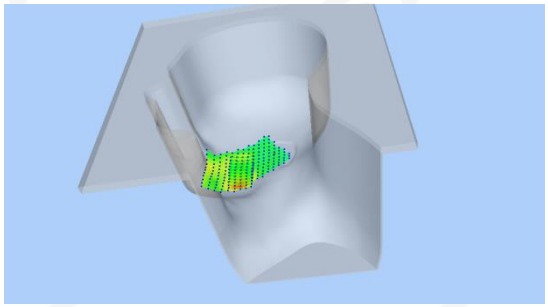
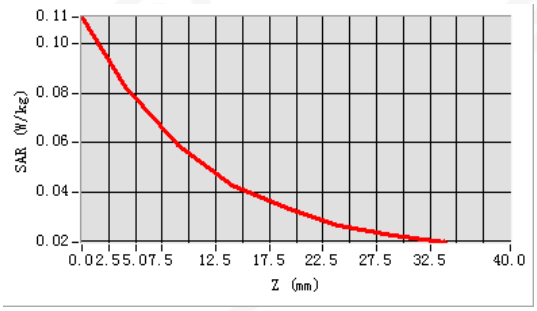
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 3: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.72
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 Head
Device Position	Cheek
Band	GPRS 1900
Signal	Duty Cycle: 2.00 (Crest factor: 2.0)
Frequency (MHz)	1880
Relative permittivity (real part)	40.93
Conductivity (S/m)	1.43

Maximum location: X=-48.00, Y=-57.00
SAR Peak: 0.11 W/kg

SAR 10g (W/Kg)	0.052229
SAR 1g (W/Kg)	0.079256

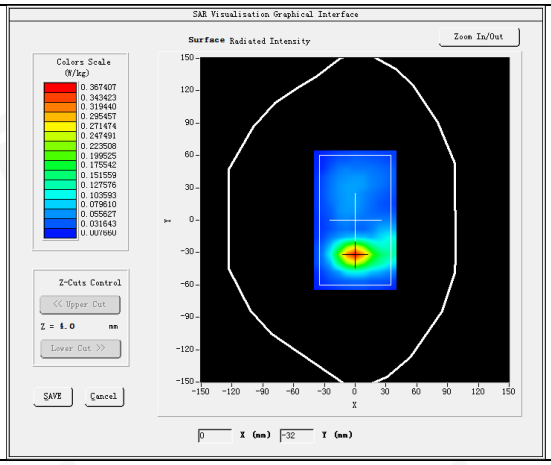
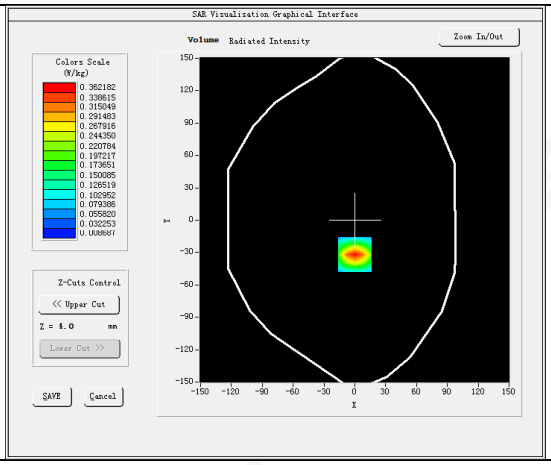
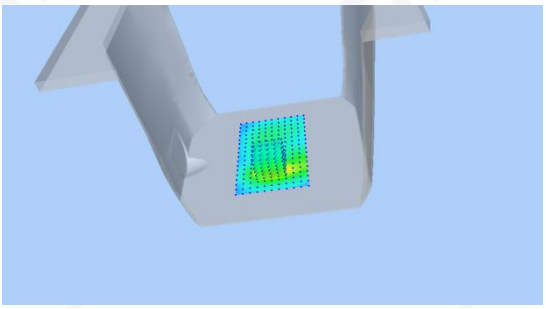
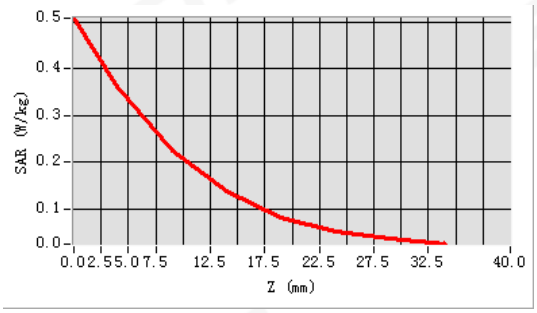
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 4: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.72
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)	40.93
Conductivity (S/m)	1.43

Maximum location: X=0.00, Y=-32.00
SAR Peak: 0.52 W/kg

SAR 10g (W/Kg)	0.172157
SAR 1g (W/Kg)	0.328723

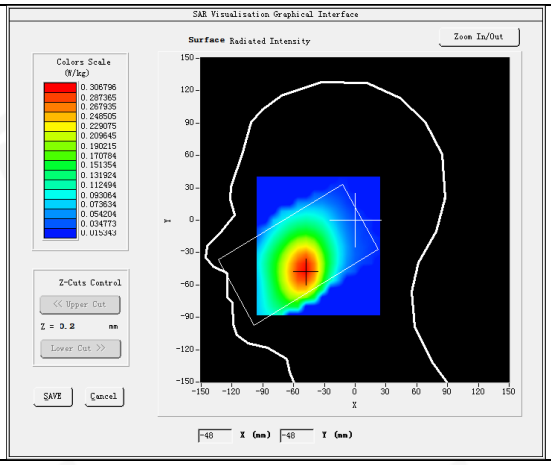
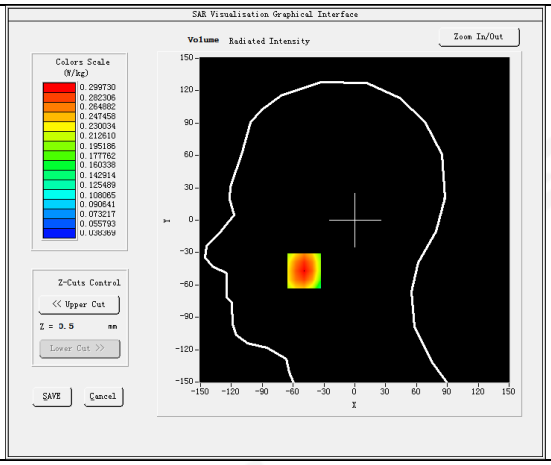
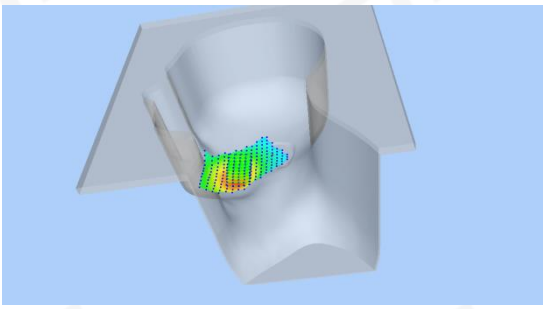
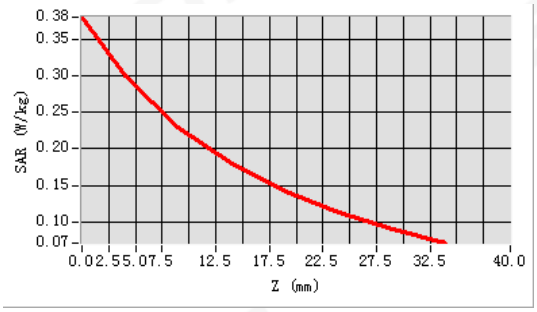
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 5: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.72
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 Head
Device Position	Cheek
Band	WCDMA II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.95
Conductivity (S/m)	1.45

Maximum location: X=-49.00, Y=-47.00
SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.212654
SAR 1g (W/Kg)	0.294286

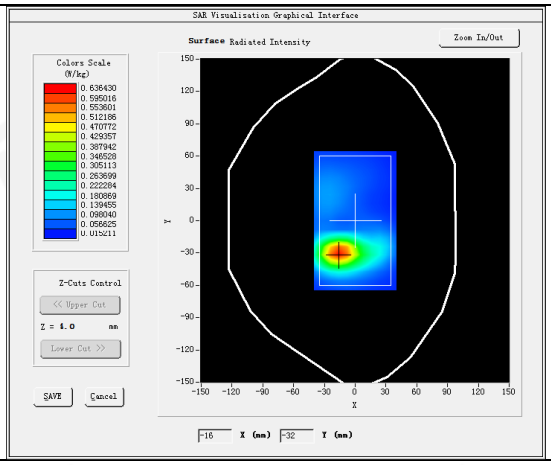
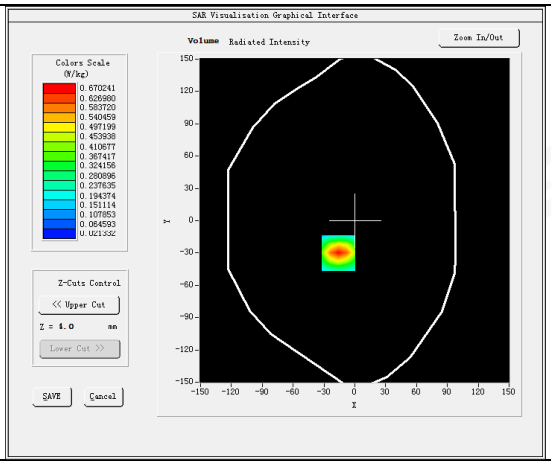
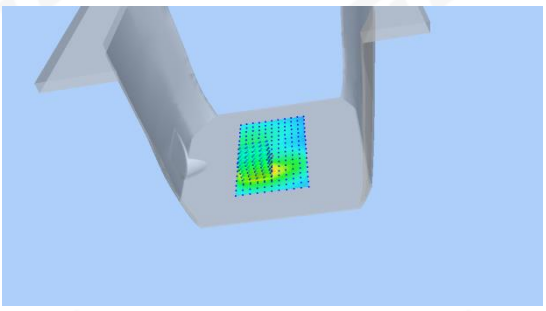
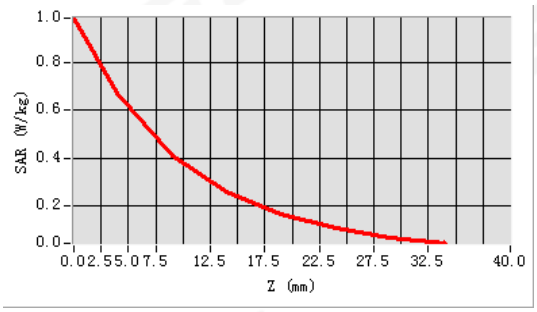
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 6: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.72
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 II
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1852.4
Relative permittivity (real part)	40.95
Conductivity (S/m)	1.45

Maximum location: X=-16.00, Y=-30.00
SAR Peak: 0.98 W/kg

SAR 10g (W/Kg)	0.345056
SAR 1g (W/Kg)	0.631907

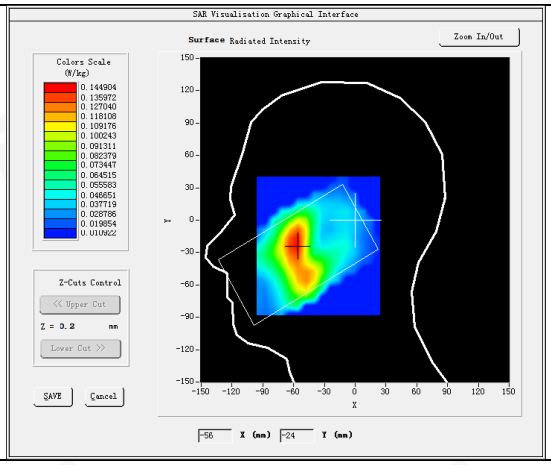
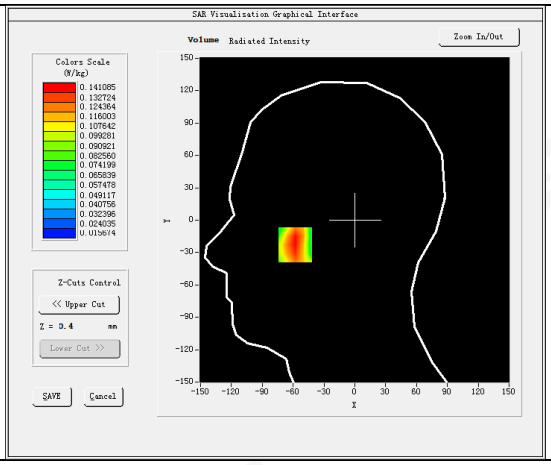
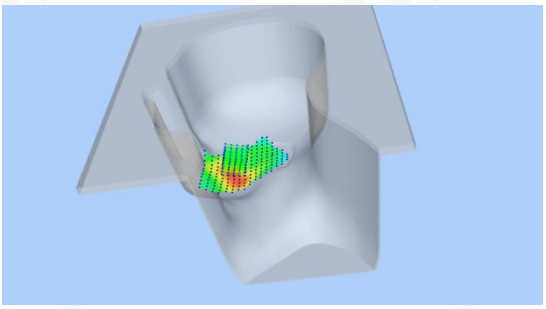
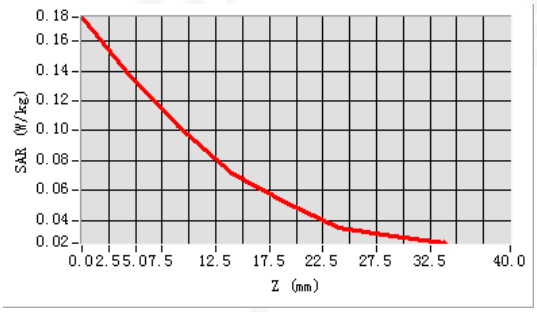
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 7: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 Head
Device Position	Cheek
Band	WCDMA IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	40.68
Conductivity (S/m)	1.30

Maximum location: X=-58.00, Y=-23.00
SAR Peak: 0.18 W/kg

SAR 10g (W/Kg)	0.088753
SAR 1g (W/Kg)	0.134590

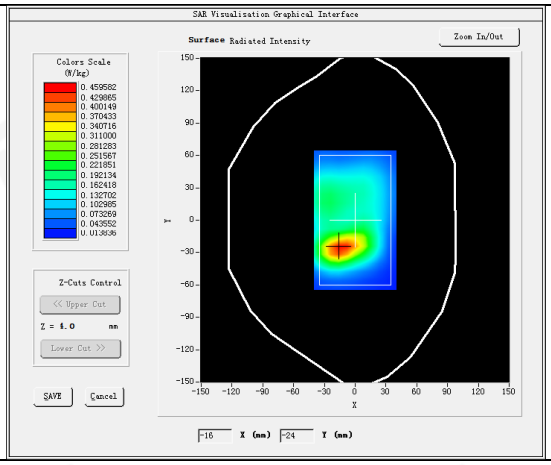
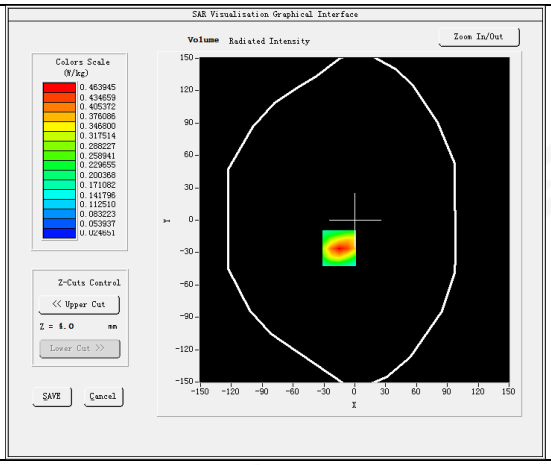
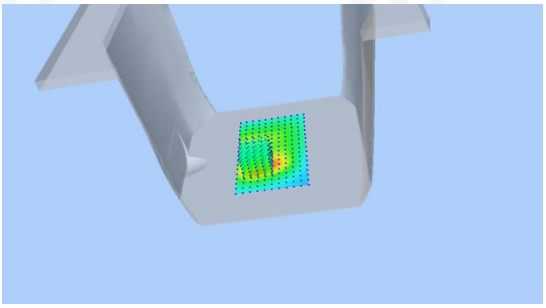
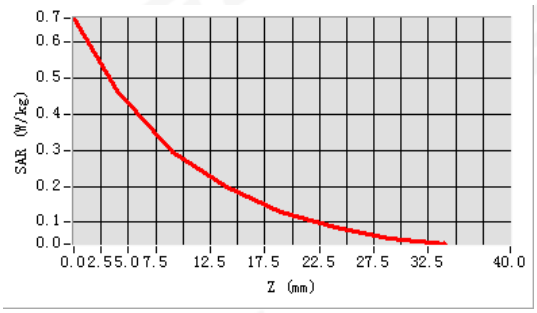
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 8: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 IV
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	1712.6
Relative permittivity (real part)	40.68
Conductivity (S/m)	1.30

Maximum location: X=-15.00, Y=-26.00
SAR Peak: 0.66 W/kg

SAR 10g (W/Kg)	0.254736
SAR 1g (W/Kg)	0.438098

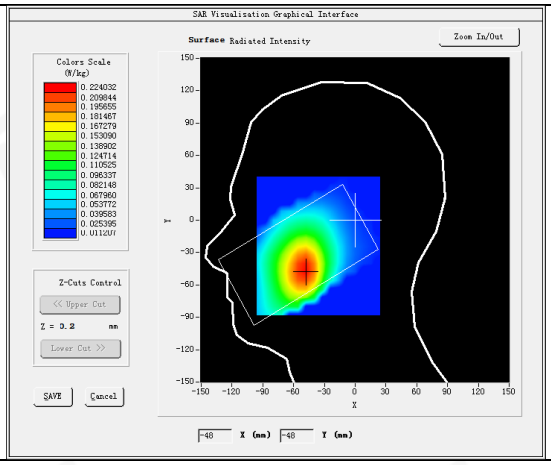
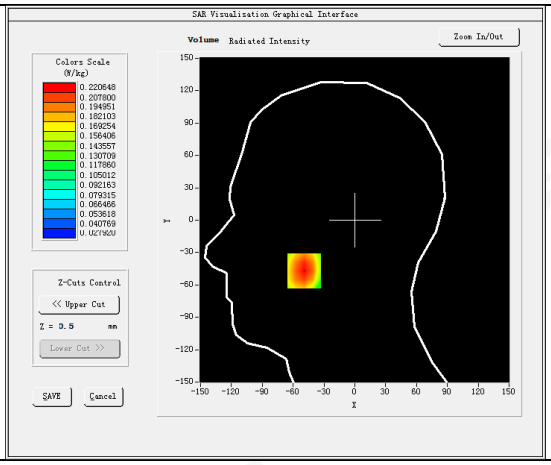
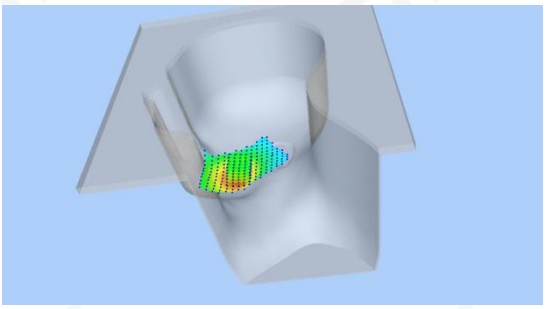
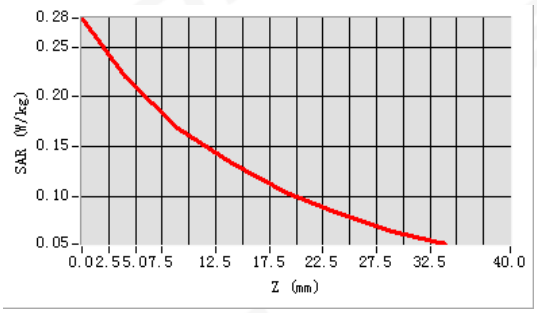
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 9: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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 Head
Device Position	Cheek
Band	WCDMA V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	41.22
Conductivity (S/m)	0.90

Maximum location: X=-49.00, Y=-47.00
SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.155827
SAR 1g (W/Kg)	0.214978

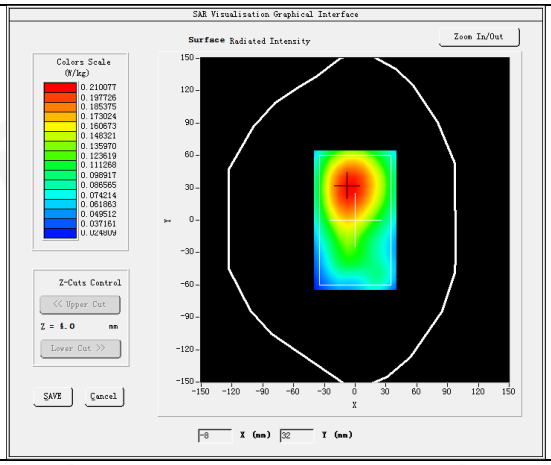
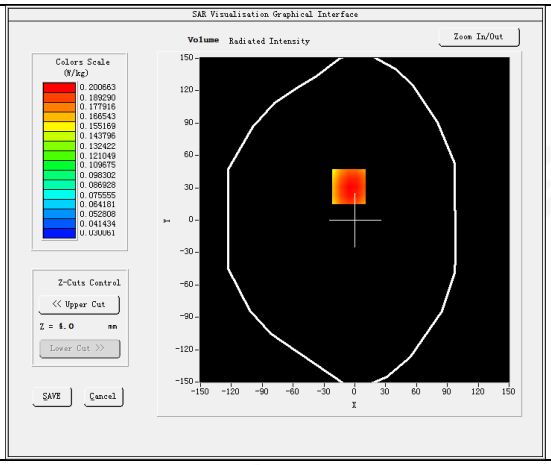
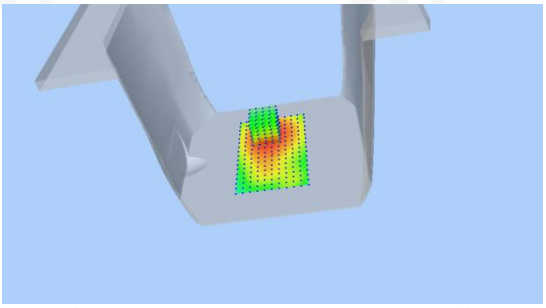
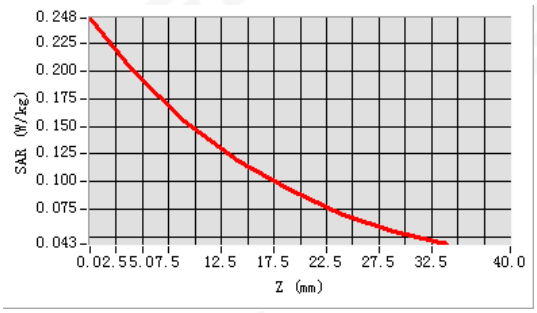
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 10: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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 V
Signal	WCDMA (Crest factor: 1.0)
Frequency (MHz)	826.4
Relative permittivity (real part)	41.22
Conductivity (S/m)	0.90

Maximum location: X=-6.00, Y=31.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.146581
SAR 1g (W/Kg)	0.196680

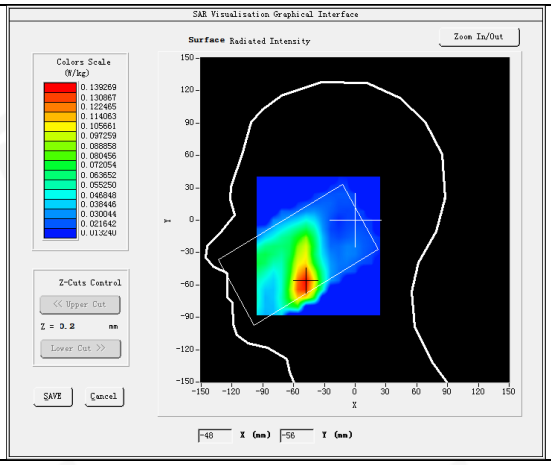
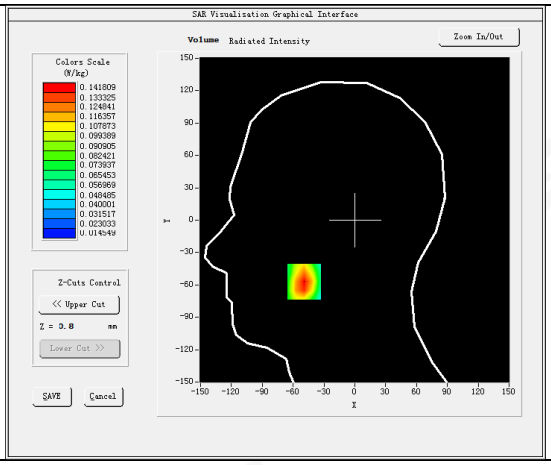
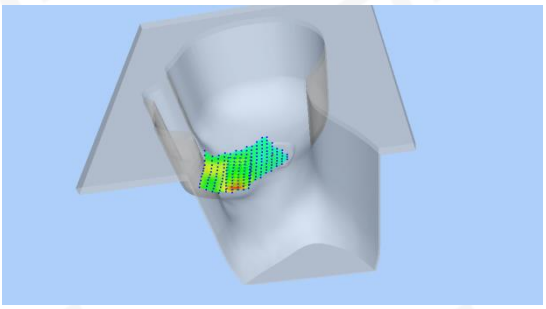
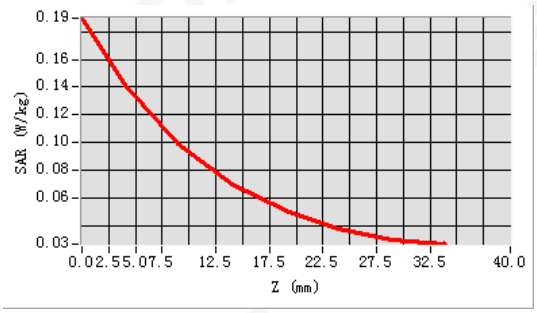
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 11: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.58
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 Head
Device Position	Cheek
Band	LTE Band 2 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1860
Relative permittivity (real part)	40.36
Conductivity (S/m)	1.39

Maximum location: X=-49.00, Y=-57.00
SAR Peak: 0.20 W/kg

SAR 10g (W/Kg)	0.084883
SAR 1g (W/Kg)	0.136269

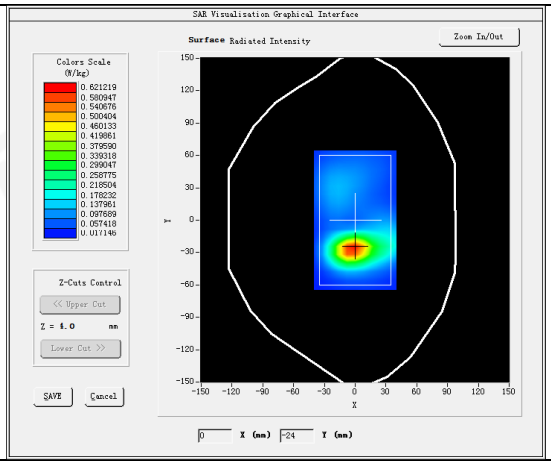
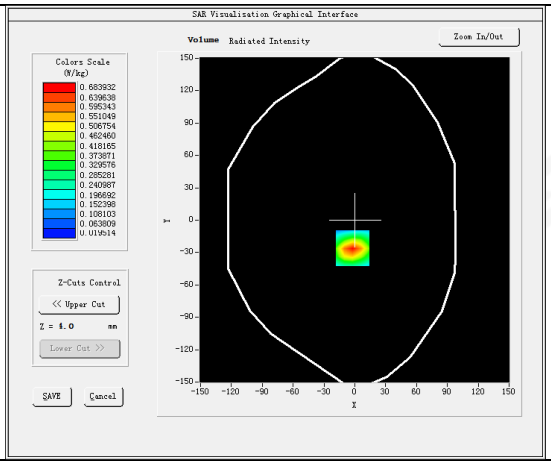
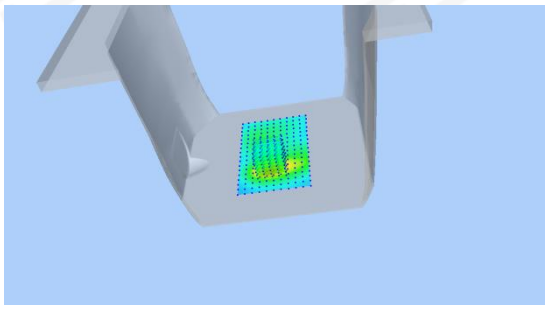
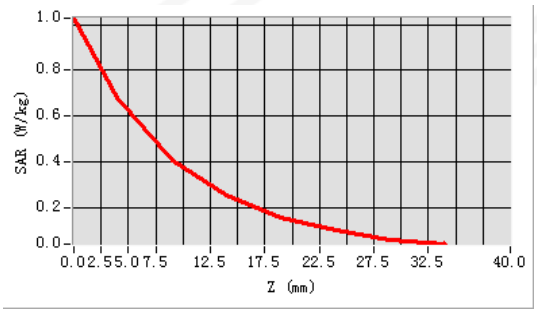
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 12: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-19
ConvF	1.58
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)	1860
Relative permittivity (real part)	40.36
Conductivity (S/m)	1.39

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.337021
SAR 1g (W/Kg)	0.633965

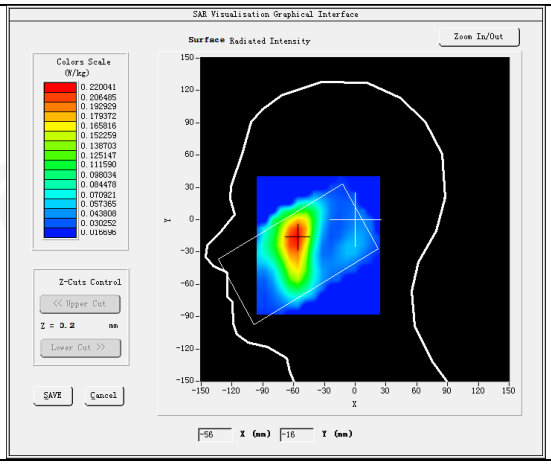
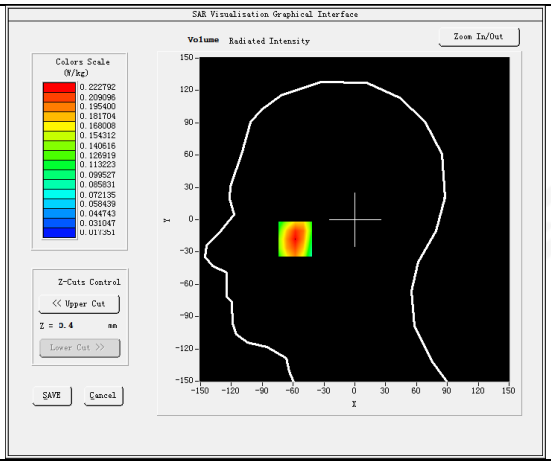
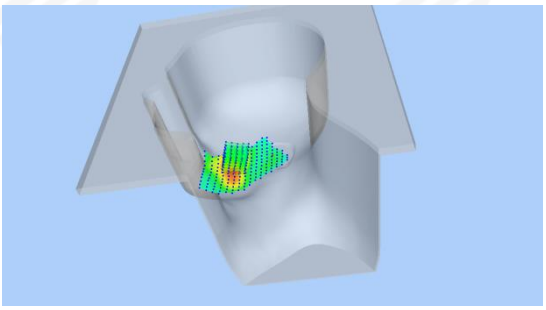
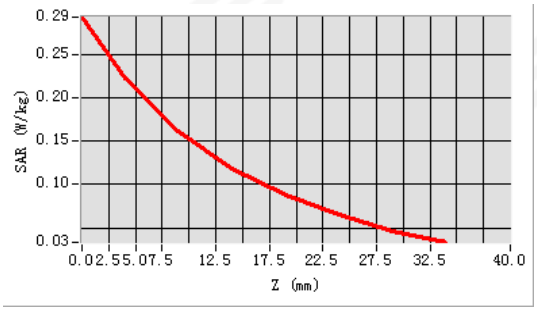
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 13: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 Head
Band	LTE Band 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.46
Conductivity (S/m)	1.33

Maximum location: X=-58.00, Y=-17.00
SAR Peak: 0.30 W/kg

SAR 10g (W/Kg)	0.140612
SAR 1g (W/Kg)	0.213656

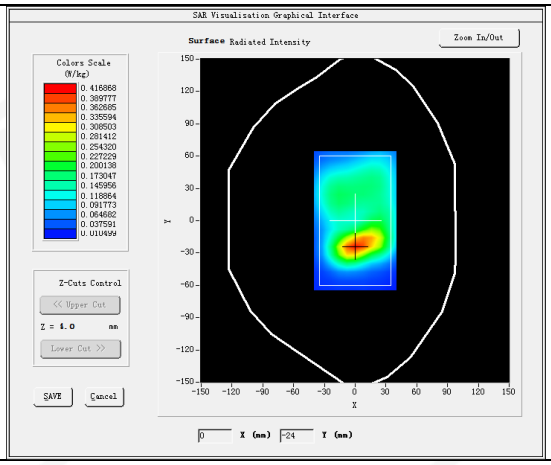
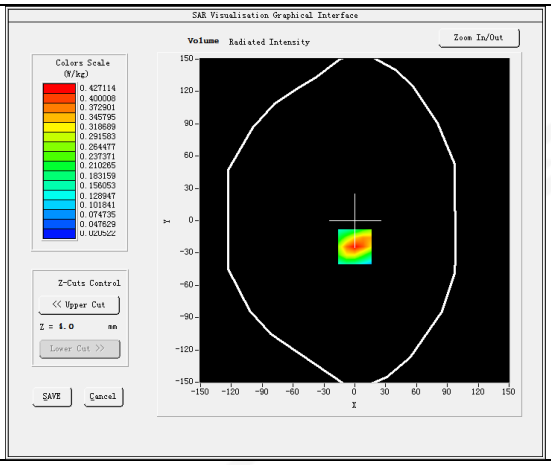
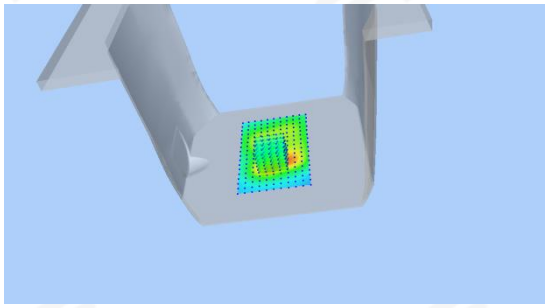
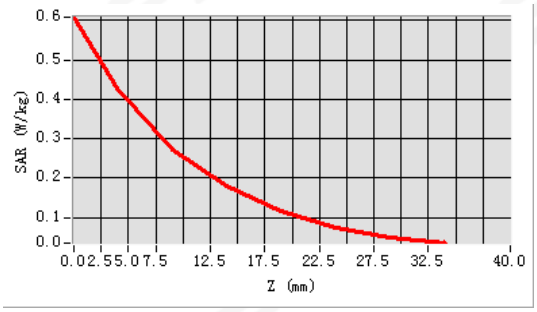
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 14: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 4 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1732.5
Relative permittivity (real part)	40.46
Conductivity (S/m)	1.33

Maximum location: X=0.00, Y=-24.00
SAR Peak: 0.60 W/kg

SAR 10g (W/Kg)	0.229655
SAR 1g (W/Kg)	0.397804

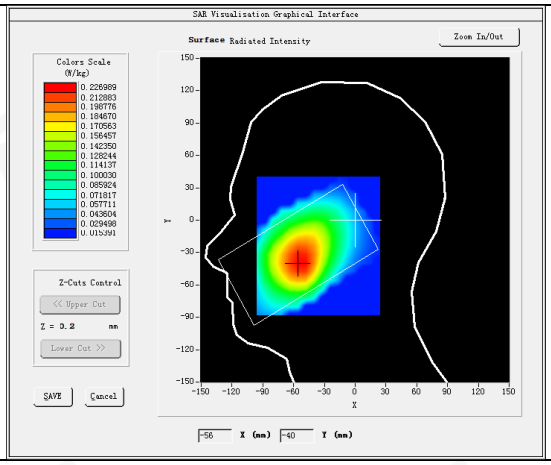
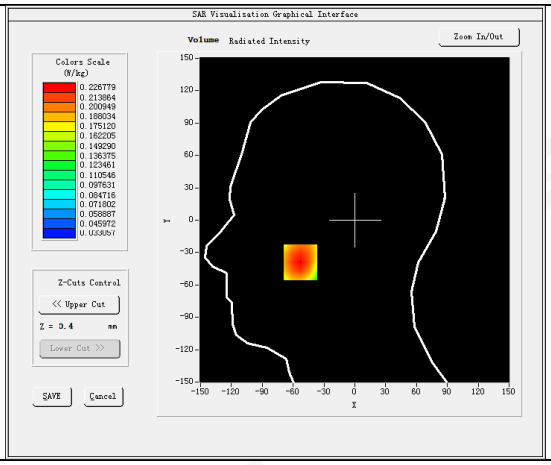
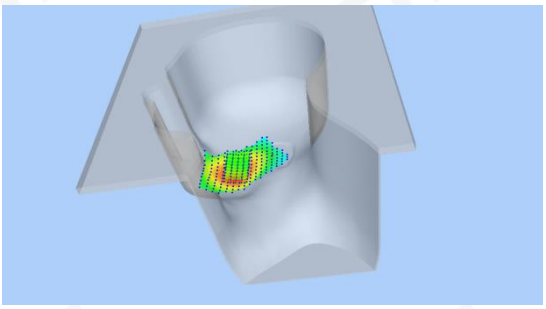
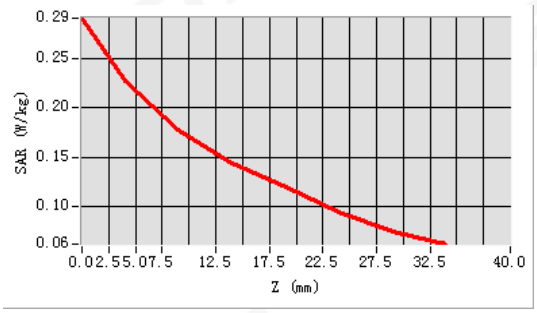
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 15: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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 Head
Device Position	Cheek
Band	LTE Band 5 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	829
Relative permittivity (real part)	41.84
Conductivity (S/m)	0.89

Maximum location: X=-53.00, Y=-39.00
SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.169757
SAR 1g (W/Kg)	0.225748

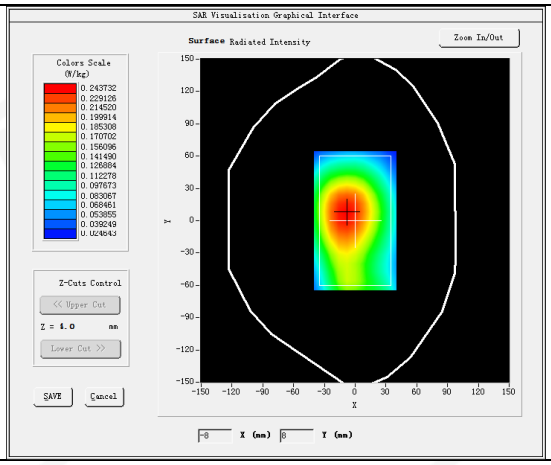
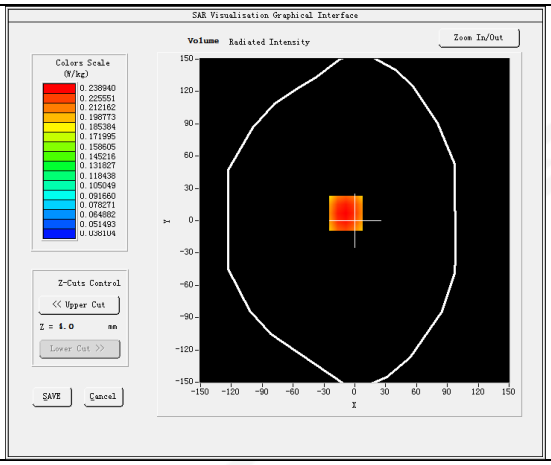
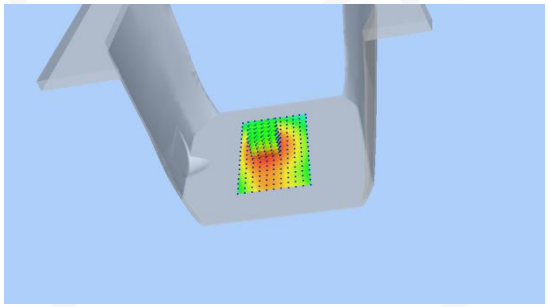
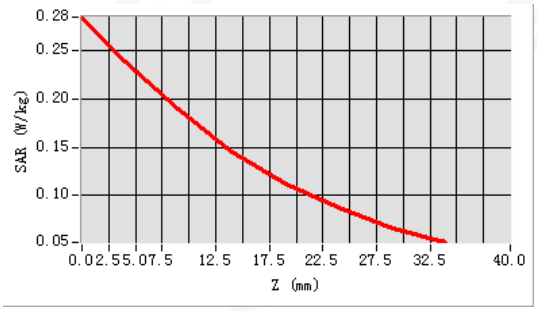
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 16: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-17
ConvF	1.44
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)	829
Relative permittivity (real part)	41.84
Conductivity (S/m)	0.89

Maximum location: X=-9.00, Y=7.00
SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.174331
SAR 1g (W/Kg)	0.233137

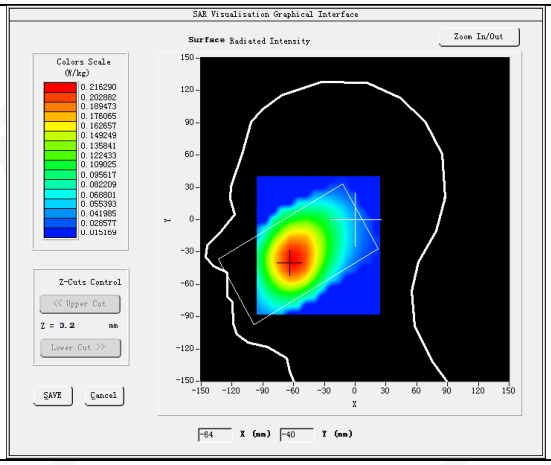
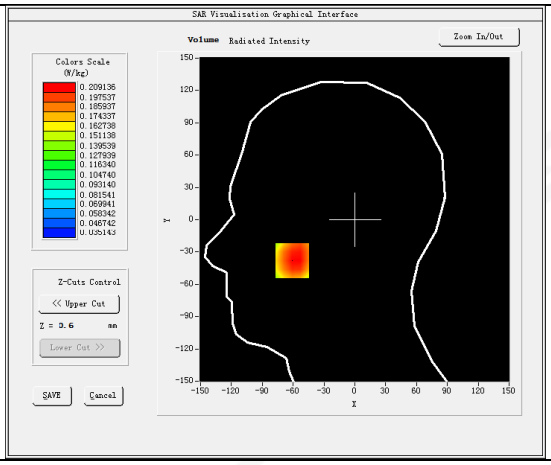
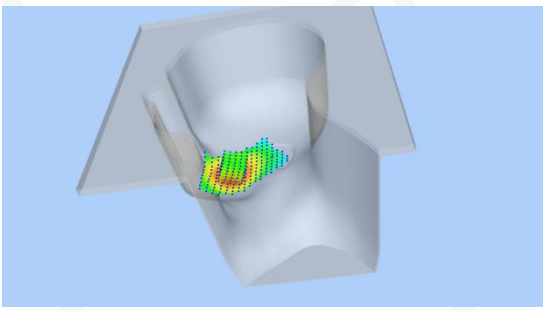
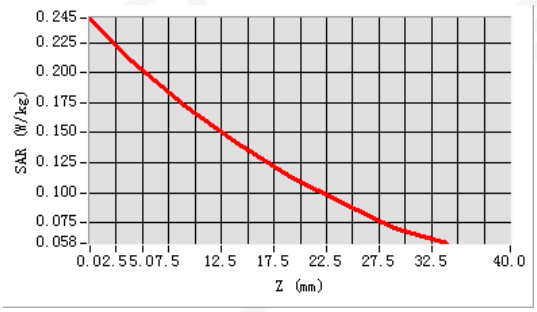
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 17: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-20
ConvF	1.74
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 Head
Device Position	Cheek
Band	LTE Band 7 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	2535
Relative permittivity (real part)	39.54
Conductivity (S/m)	1.93

Maximum location: X=-61.00, Y=-38.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.160967
SAR 1g (W/Kg)	0.210639

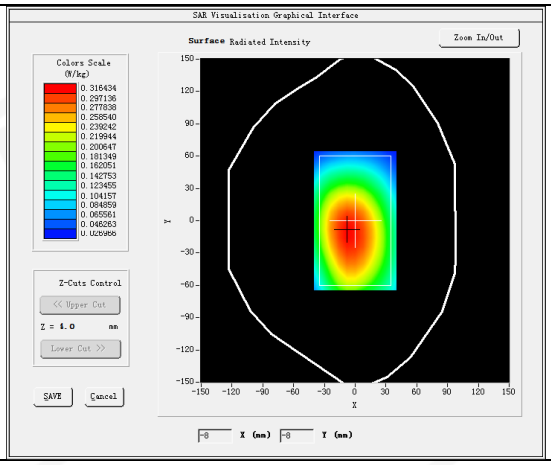
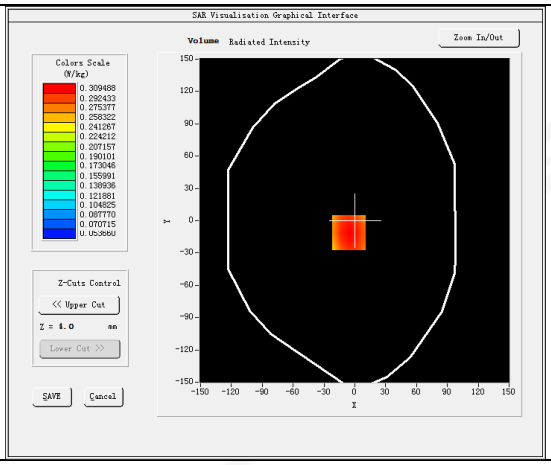
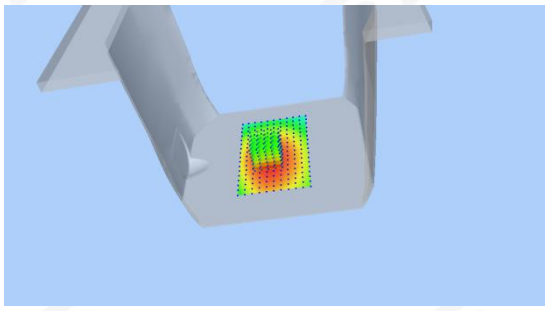
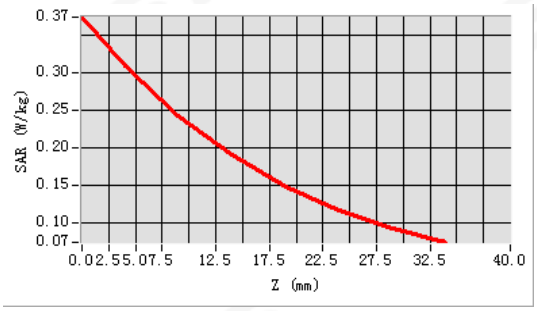
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 18: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-20
ConvF	1.74
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)	2535
Relative permittivity (real part)	39.54
Conductivity (S/m)	1.93

Maximum location: X=-6.00, Y=-11.00
SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.230594
SAR 1g (W/Kg)	0.306248

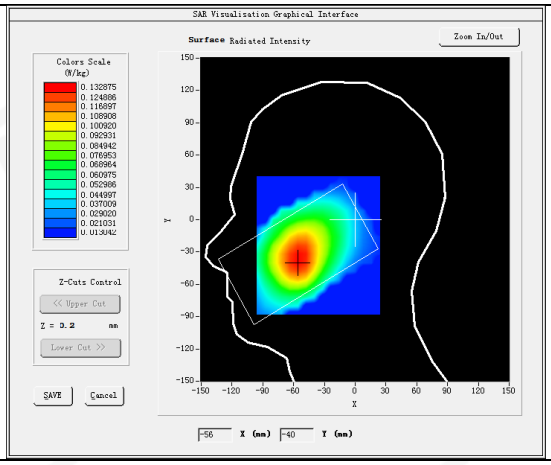
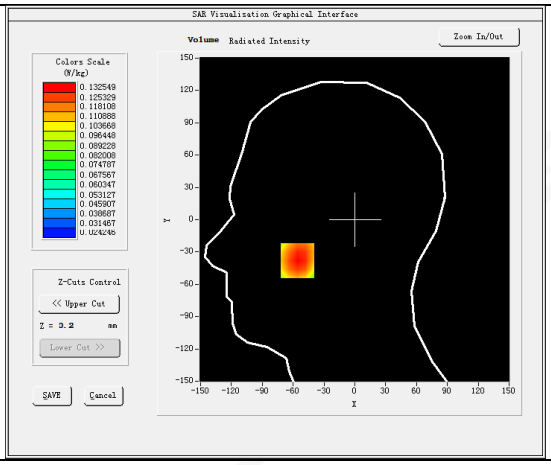
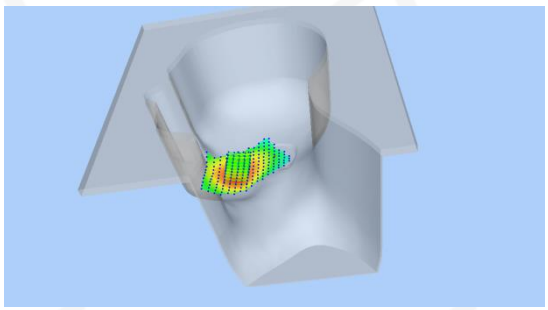
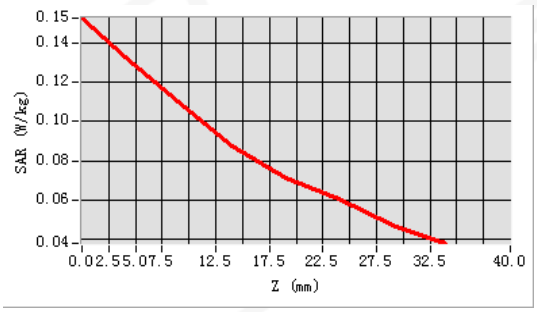
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 19: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 Head
Device Position	Cheek
Band	LTE Band 12 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	42.51
Conductivity (S/m)	0.87

Maximum location: X=-56.00, Y=-38.00
SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)	0.099424
SAR 1g (W/Kg)	0.128309

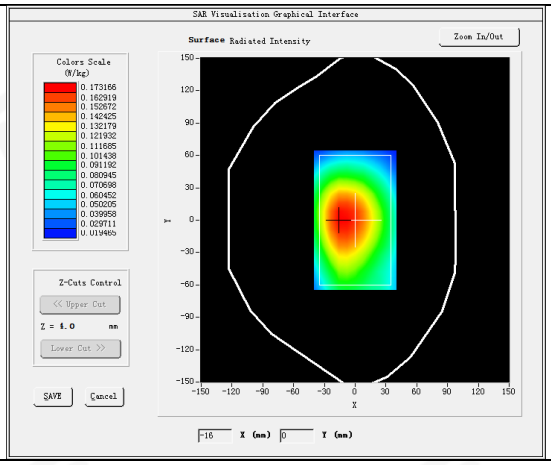
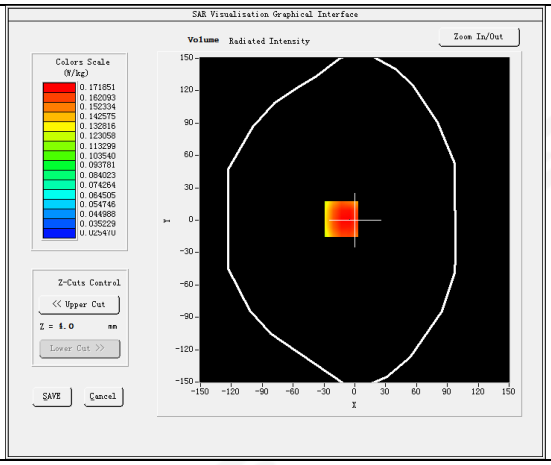
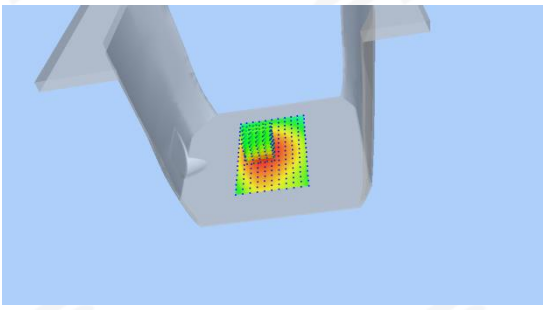
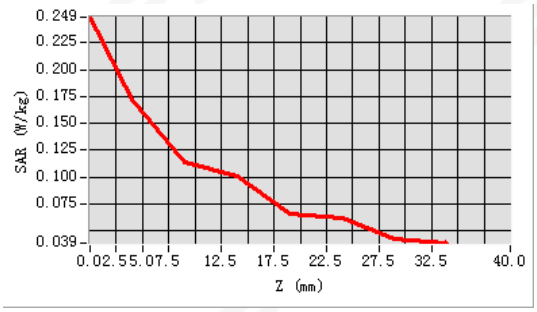
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 20: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	704
Relative permittivity (real part)	42.51
Conductivity (S/m)	0.87

Maximum location: X=-13.00, Y=1.00
SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.123301
SAR 1g (W/Kg)	0.168310

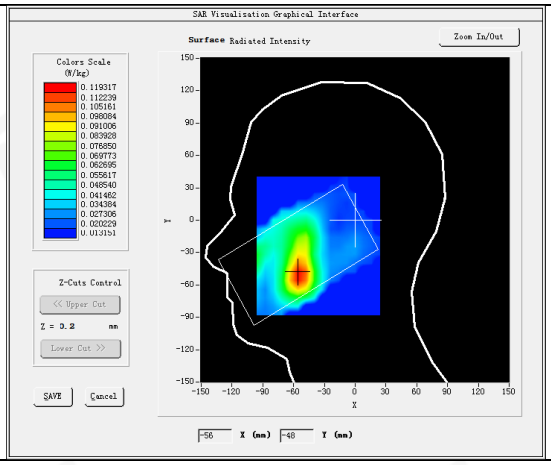
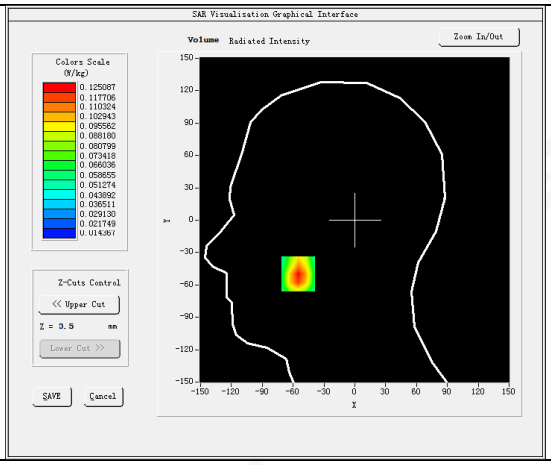
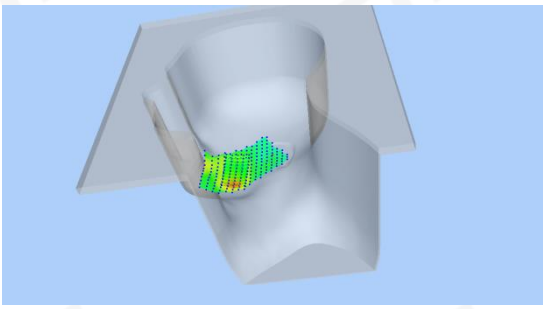
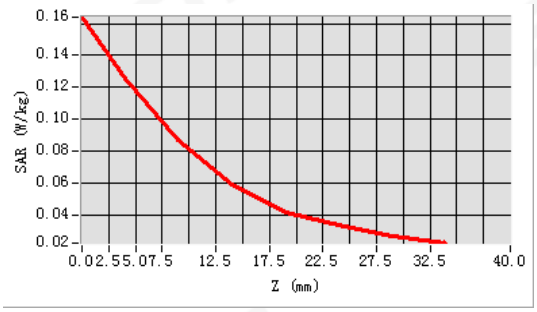
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 21: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 Head
Device Position	Cheek
Band	LTE Band 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.15
Conductivity (S/m)	0.89

Maximum location: X=-55.00, Y=-50.00
SAR Peak: 0.17 W/kg

SAR 10g (W/Kg)	0.073536
SAR 1g (W/Kg)	0.117406

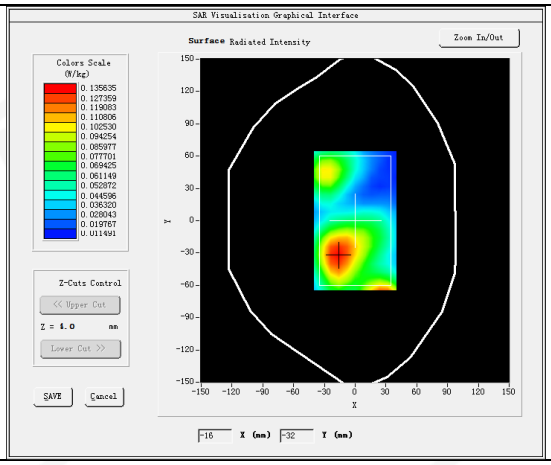
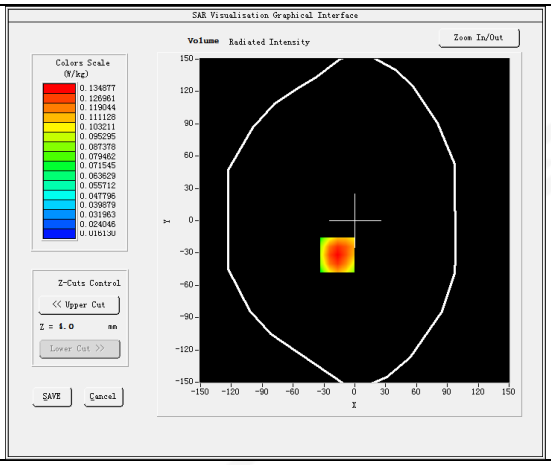
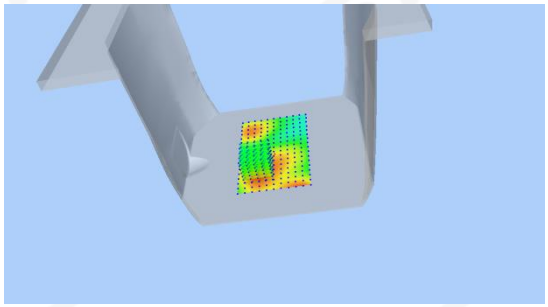
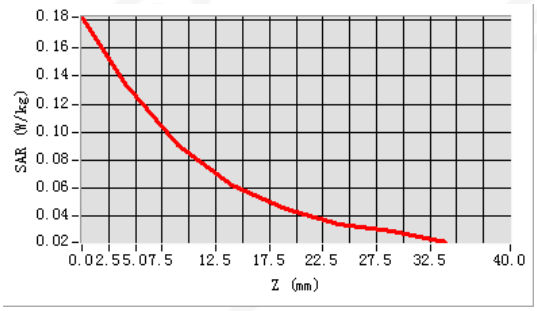
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 22: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 17 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	709
Relative permittivity (real part)	42.15
Conductivity (S/m)	0.89

Maximum location: X=-17.00, Y=-32.00
SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.083948
SAR 1g (W/Kg)	0.128867

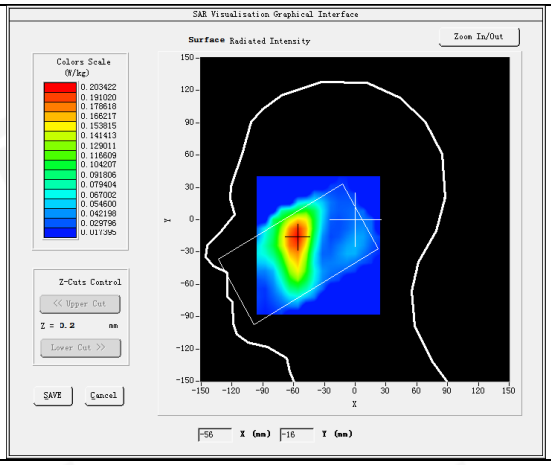
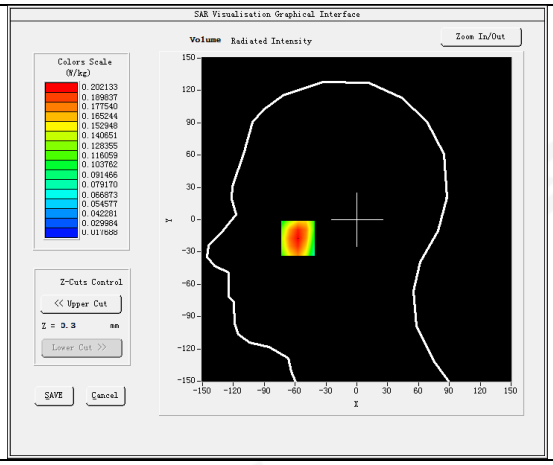
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 23: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 Head
Device Position	Cheek
Band	LTE Band 66 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.98
Conductivity (S/m)	1.39

Maximum location: X=-57.00, Y=-16.00
SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)	0.128494
SAR 1g (W/Kg)	0.193623

SURFACE SAR	VOLUME SAR
	
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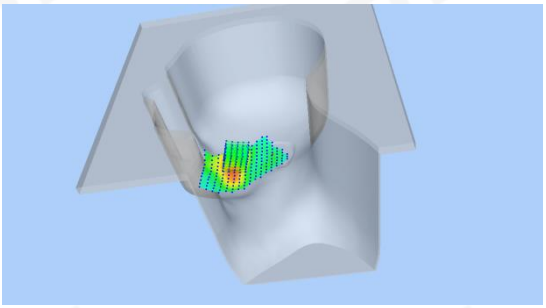
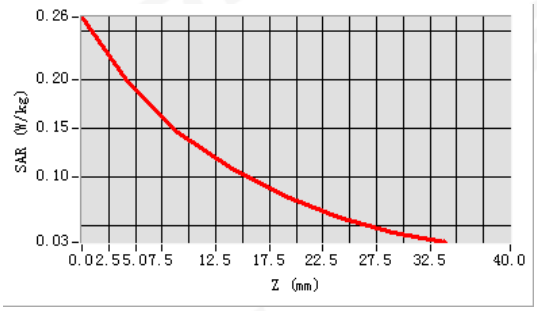
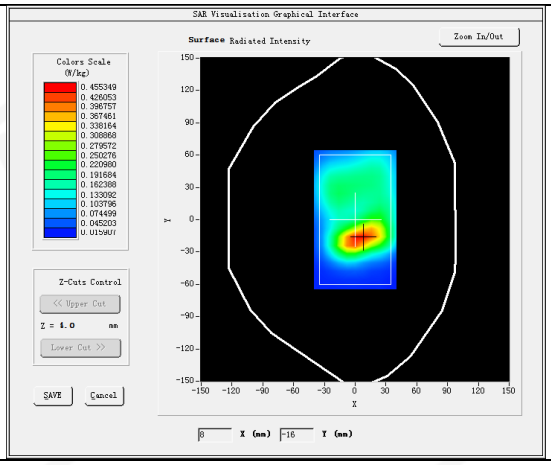
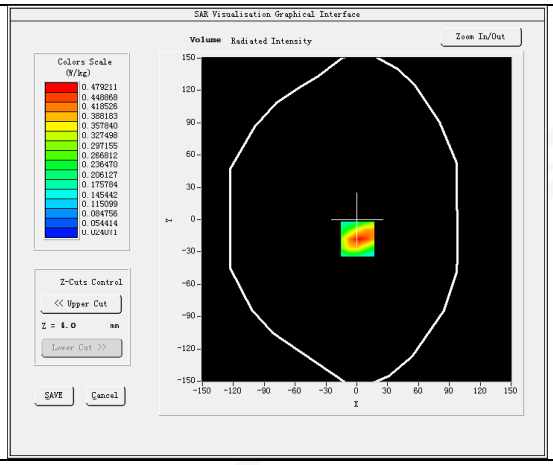
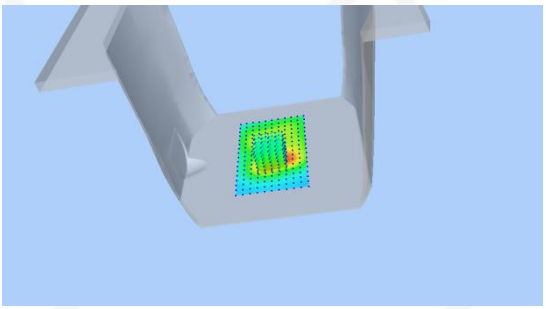
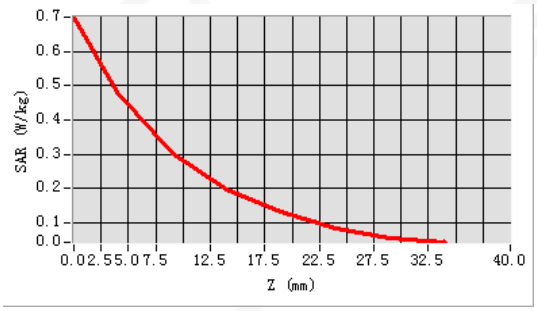
	

Plot 24: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-18
ConvF	1.58
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 (RB 1)
Signal	LTE (Cr est factor: 1.0)
Frequency (MHz)	1720
Relative permittivity (real part)	40.98
Conductivity (S/m)	1.39

Maximum location: X=1.00, Y=-18.00
SAR Peak: 0.69 W/kg

SAR 10g (W/Kg)	0.258057
SAR 1g (W/Kg)	0.448513

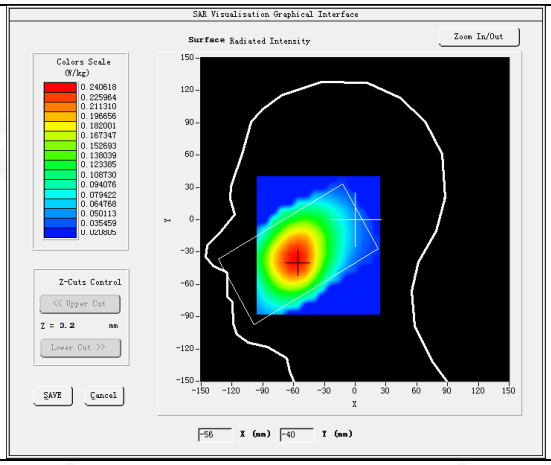
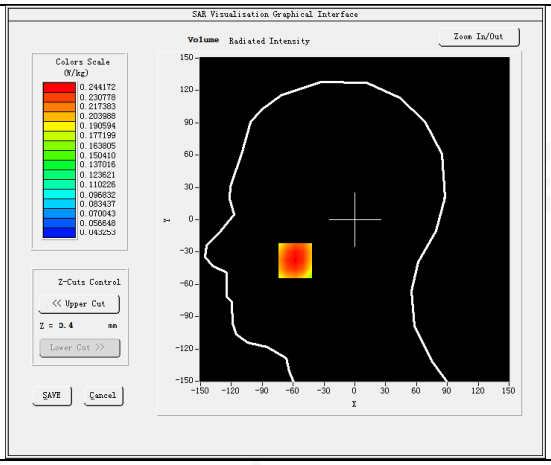
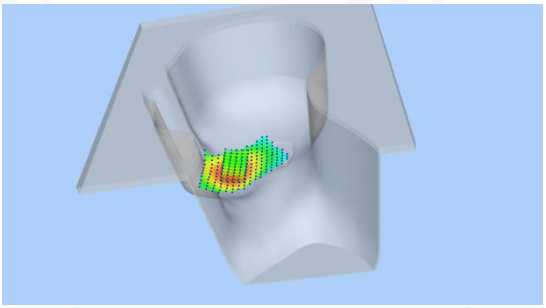
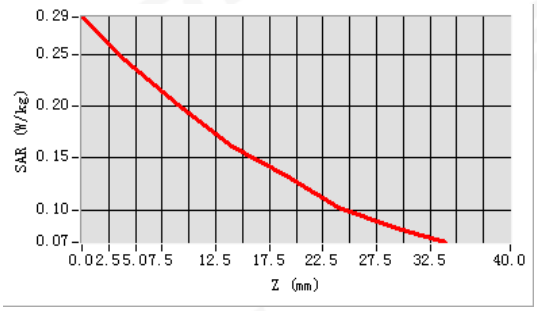
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 25: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 Head
Device Position	Cheek
Band	LTE Band 71 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	43.04
Conductivity (S/m)	0.87

Maximum location: X=-58.00, Y=-38.00
SAR Peak: 0.29 W/kg

SAR 10g (W/Kg)	0.183729
SAR 1g (W/Kg)	0.237304

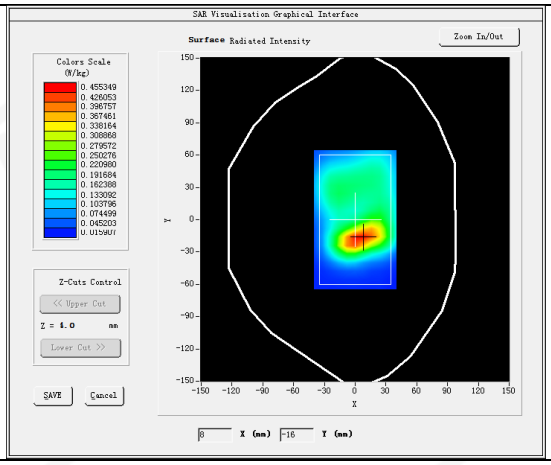
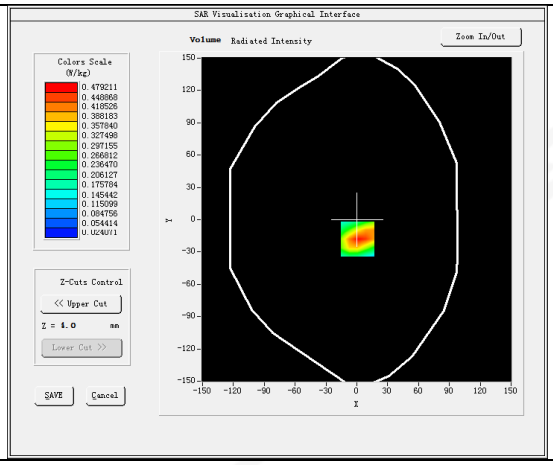
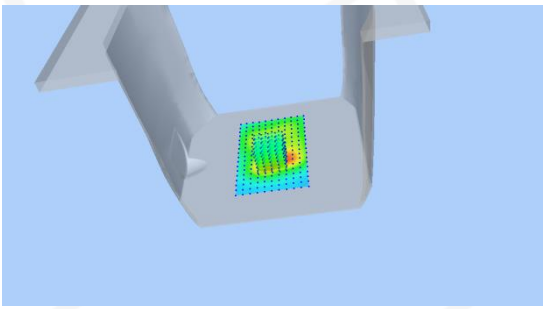
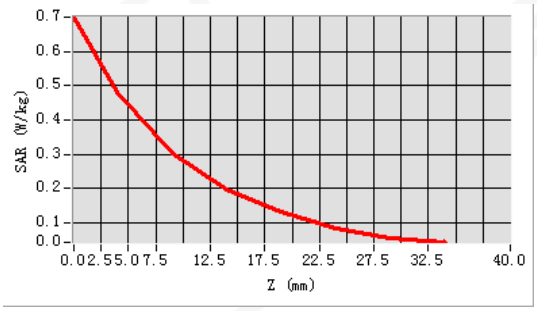
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 26: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-16
ConvF	1.56
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 71 (RB 1)
Signal	LTE (Crest factor: 1.0)
Frequency (MHz)	673
Relative permittivity (real part)	43.04
Conductivity (S/m)	0.87

Maximum location: X=1.00, Y=-18.00
SAR Peak: 0.69 W/kg

SAR 10g (W/Kg)	0.258057
SAR 1g (W/Kg)	0.448513

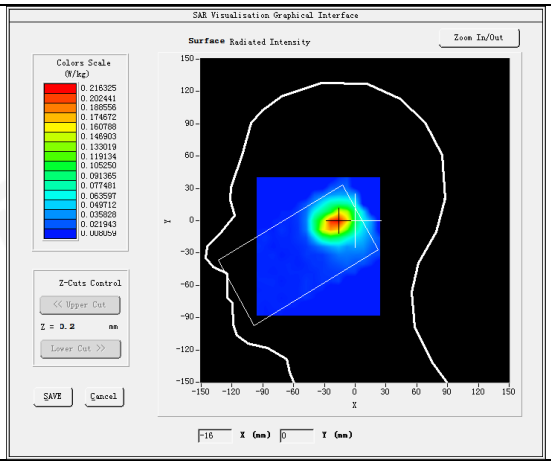
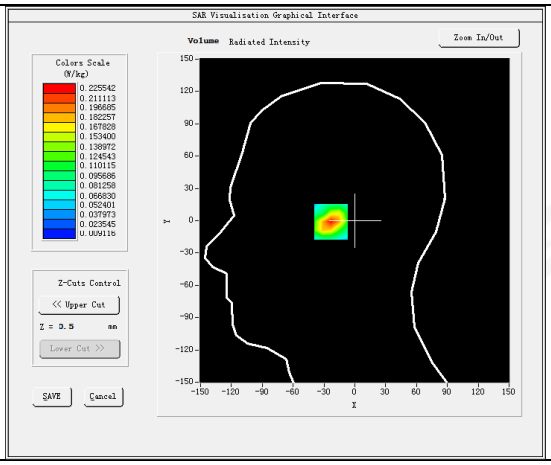
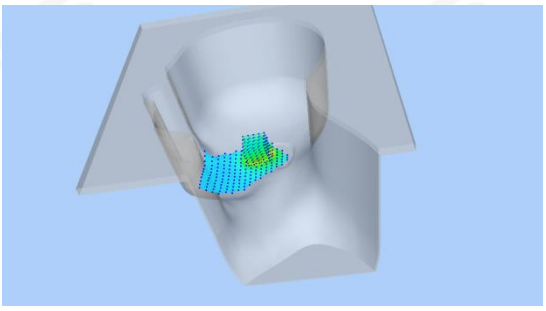
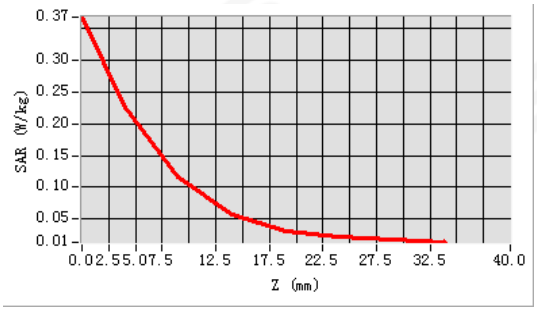
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 27: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-20
	1.80
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 Head
Device Position	Cheek
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	39.27
Conductivity (S/m)	1.74

Maximum location: X=-19.00, Y=-1.00
SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.105151
SAR 1g (W/Kg)	0.210078

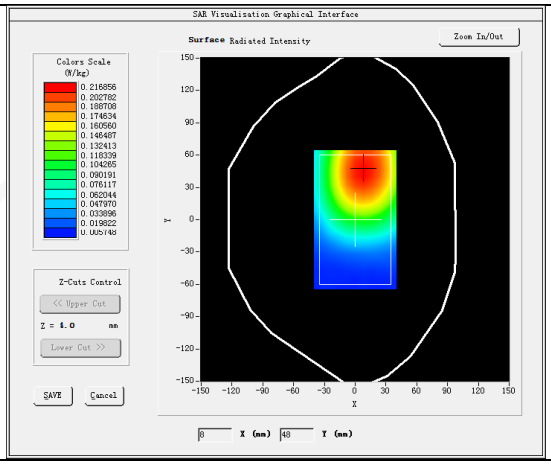
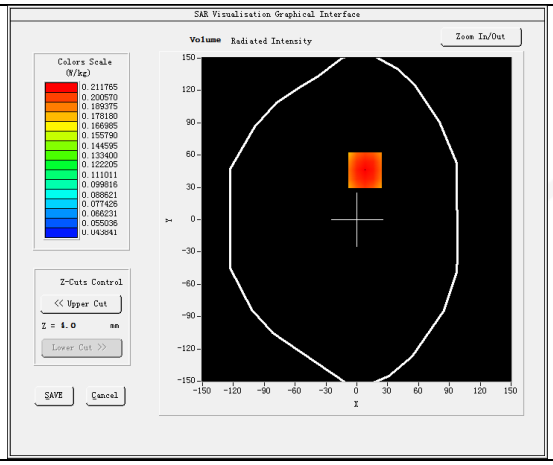
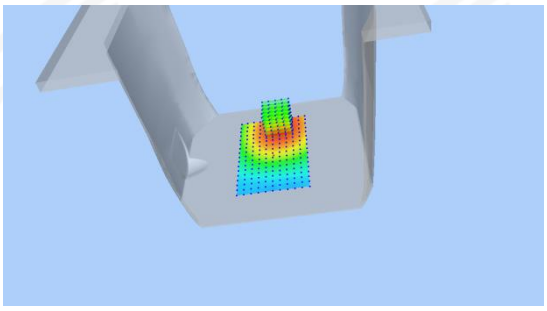
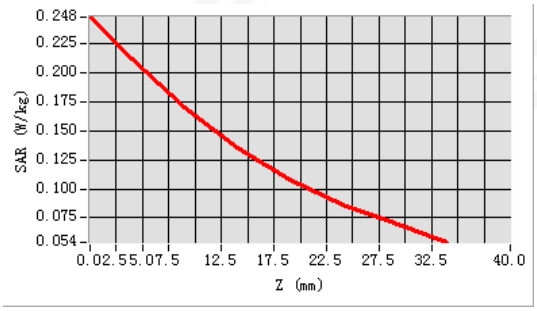
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 28: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-20
ConvF	1.80
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	5x5x7, dx=8mm, dy=8mm, dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11b ISM
Signal	IEEE802.b (Crest factor: 1.0)
Frequency (MHz)	2412
Relative permittivity (real part)	39.27
Conductivity (S/m)	1.74

Maximum location: X=8.00, Y=46.00
SAR Peak: 0.25 W/kg

SAR 10g (W/Kg)	0.161061
SAR 1g (W/Kg)	0.208977

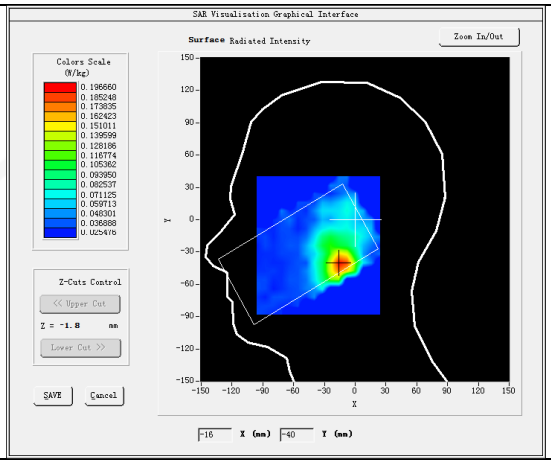
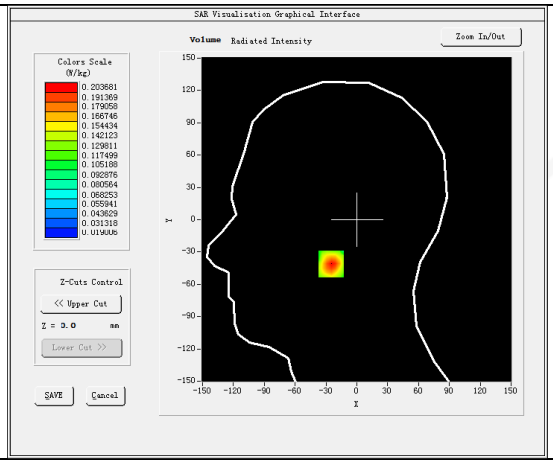
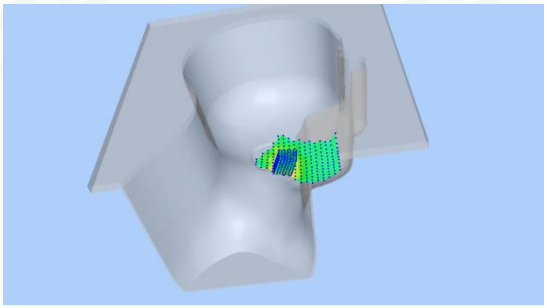
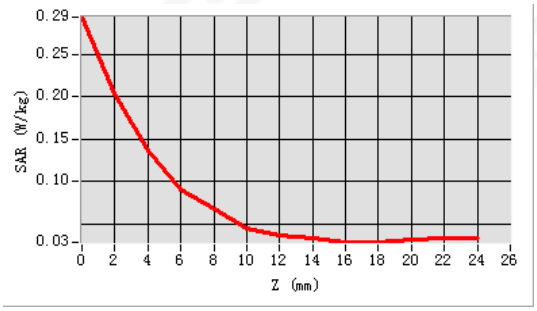
SURFACE SAR	VOLUME SAR
	
3D	**Z AZxis Scan**
	

Plot 29: DUT: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-21
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.62
Conductivity (S/m)	4.63

Maximum location: X=-14.00, Y=-41.00
SAR Peak: 0.42 W/kg

SAR 10g (W/Kg)	0.095371
SAR 1g (W/Kg)	0.191475

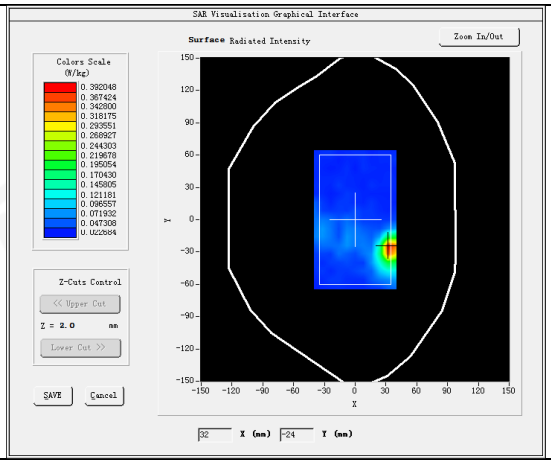
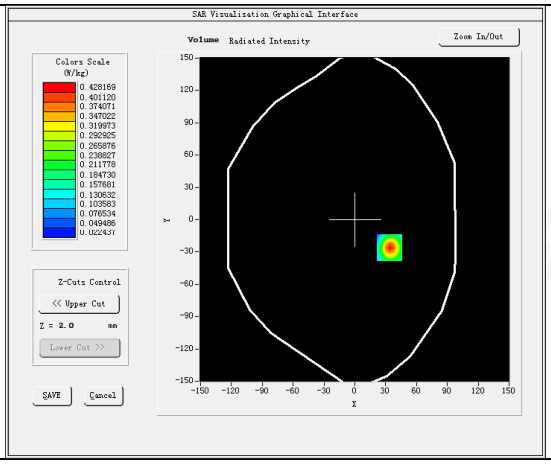
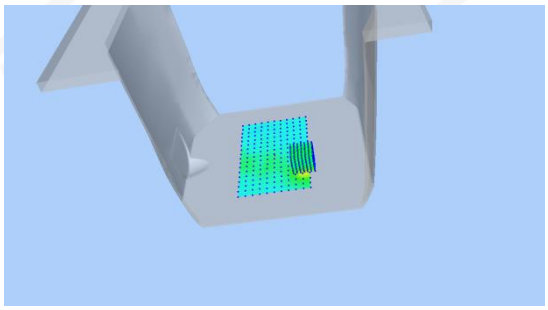
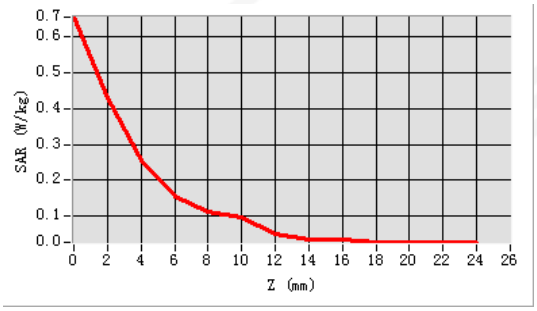
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 30: DUT: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-21
ConvF	1.33
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5180
Relative permittivity (real part)	36.62
Conductivity (S/m)	4.63

Maximum location: X=34.00, Y=-26.00
SAR Peak: 0.68 W/kg

SAR 10g (W/Kg)	0.106085
SAR 1g (W/Kg)	0.258366

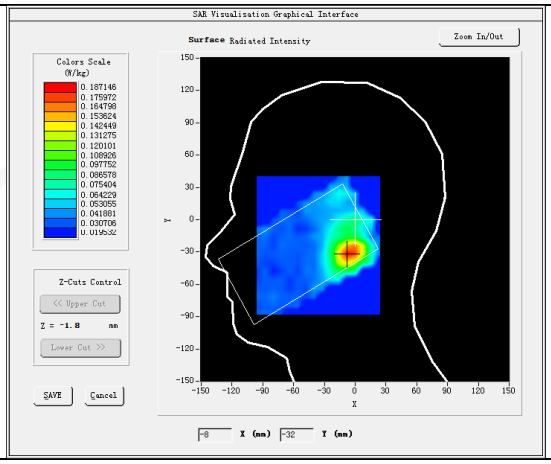
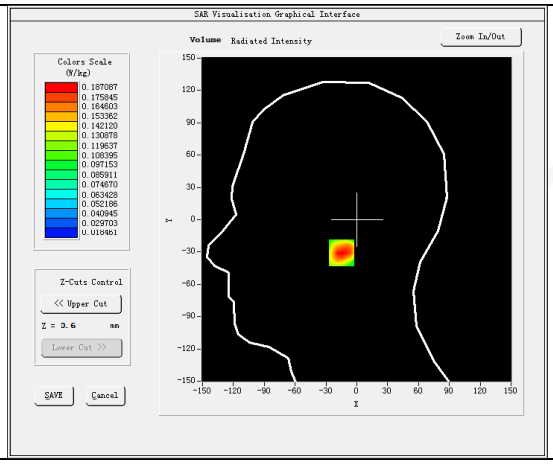
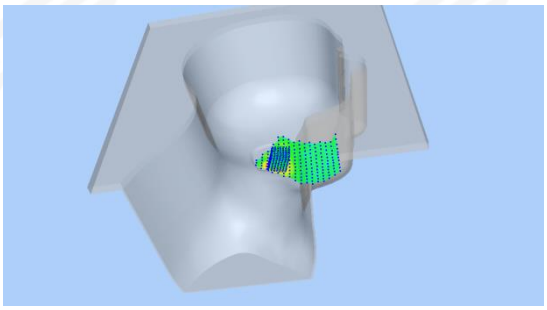
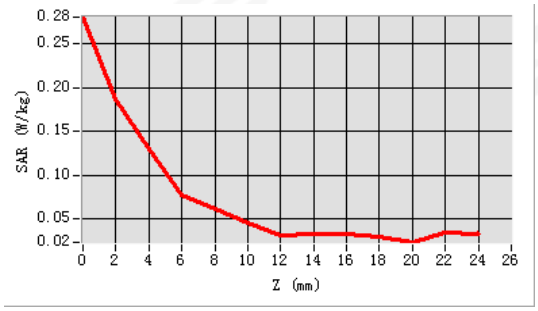
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 31: DUT: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-21
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Right Cheek
Device Position	Cheek
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	36.20
Conductivity (S/m)	5.23

Maximum location: X=-6.00, Y=-31.00
SAR Peak: 0.41 W/kg

SAR 10g (W/Kg)	0.091191
SAR 1g (W/Kg)	0.182182

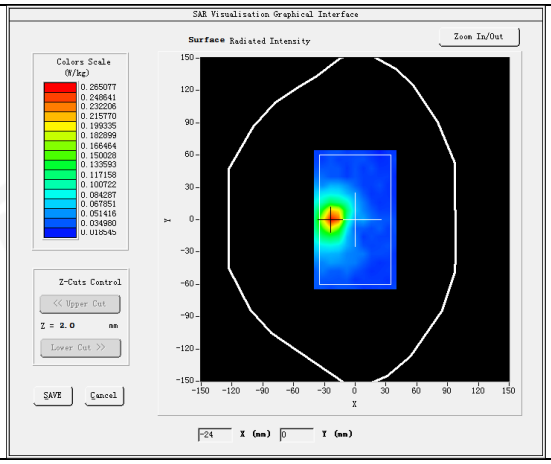
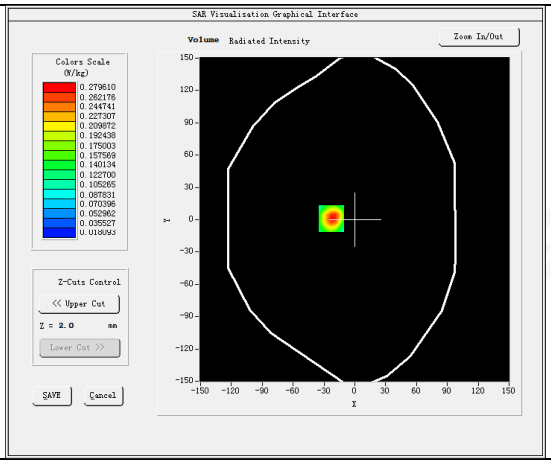
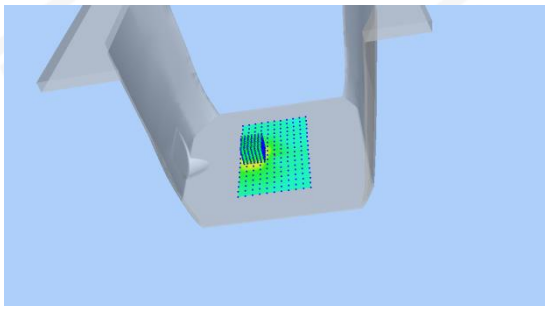
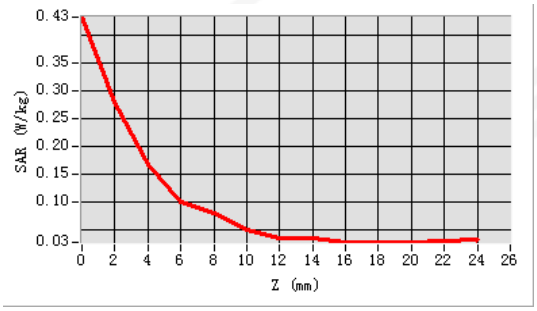
SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Plot 32: DUT: DUT: 4G smart phone; EUT Model: Prime

Test Date	2025-04-21
ConvF	1.35
Probe	SN 08/21 EPGO352
Area Scan	dx=8mm, dy=8mm, h= 5.00 mm
Zoom Scan	7x7x12, dx=4mm, dy=4mm, dz=2mm,
Phantom	Validation plane
Device Position	Back Side
Band	IEEE 802.11a ISM
Signal	IEEE802.a (Crest factor: 1.0)
Frequency (MHz)	5745
Relative permittivity (real part)	36.20
Conductivity (S/m)	5.23

Maximum location: X=-23.00, Y=1.00
SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)	0.081066
SAR 1g (W/Kg)	0.175504

SURFACE SAR	VOLUME SAR
	
3D	**Z Axis Scan**
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※

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