



SAR TEST REPORT

Product Name: Smartphone

Model Number: NEO PRO MAX

FCC ID: 2BO97NEOPROMAX

Issued For : NOVISOLUTIONS CIA LTDA

Ponceano N73 y Mariano Paredes QUITO ECUADOR

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

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Report Number: LGT25K060HA01

Sample Received Date: Nov. 13, 2025

Date of Test Nov. 13, 2025 ~ Nov. 29, 2025

Date of Issue Nov. 29, 2025

Head: 0.961 W/kg

Max. SAR (1g)
Body: 1.091 W/kg

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Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	7
1.3 Test Factory	7
2. Test Standards and Limits	8
3. SAR Measurement System	9
3.1 Definition of Specific Absorption Rate (SAR)	9
3.2 SAR System	9
4. Tissue Simulating Liquids	12
4.1 Simulating Liquids Parameter Check	12
5. SAR System Validation	14
5.1 Validation System	14
5.2 Validation Result	15
6. SAR Evaluation Procedures	16
7. EUT Antenna Location Sketch	17
7.1 SAR test exclusion consider table	18
8. EUT Test Position	23
8.1 Define Two Imaginary Lines on the Handset	23
8.2 Hotspot mode exposure position condition	24
9. Uncertainty	25
9.1 Measurement Uncertainty	25
9.2 System validation Uncertainty	26
10. Conducted Power Measurement	27
10.1 Test Result	27
10.1 Tune up	52
11. EUT and Test Setup Photo	56
11.1 EUT Photos	56
11.2 Setup Photos	59
12. SAR Result Summary	65
12.1 Head SAR	65
12.2 Body-worn and Hotspot SAR	68
12.3 Repeated SAR	73
12.4 Repeated SAR measurement	74
12.5 Simultaneous Multi-band Transmission Evaluation	76
13. Equipment List	78



Appendix A. System Validation Plots	79
Appendix B. SAR Test Plots	97
Appendix C. Probe Calibration and Dipole Calibration Report	133

Revision History

Rev.	Issue Date	Contents
00	Nov. 29, 2025	Initial Issue



TEST REPORT CERTIFICATION

Applicant NOVISOLUTIONS CIA LTDA

Address Ponceano N73 y Mariano Paredes QUITO ECUADOR

Manufacture SHENZHEN TUGAO INTELLIGENT CO.,LTD

Address No. 801, 802, 1001, 1002, Bldg A, Jingang Science & Technology Park, Fuhai Street, Qiaotou Community, Baoan District, Shenzhen, China

Product Name Smartphone

Trademark ENV

Model Number NEO PRO MAX

Sample number LGT2511067-4

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-2019 FCC 47 CFR Part 2 (2.1093) IEEE 1528: 2013	PASS

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Manager





1. General Information

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

1.1 EUT Description

Product Name	Smartphone		
Test Model Number	NEO PRO MAX		
Series Number	N/A		
Model Difference	N/A		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	V1.1		
Software Version	N/A		
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 40: 2305 ~ 2315 MHz / 2350 ~ 2360 MHz LTE Band 66: 1710 ~ 1780 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz		
Max. Reported SAR(1g): (Limit: 1.6W/kg) Test distance: Head: 0mm Body: 10mm	Mode	Head (W/ kg)	Body Worn and Hotspot (W/ kg)
	GSM 850	0.282	1.059
	PCS 1900	0.075	1.091
	WCDMA Band II	0.759	0.884
	WCDMA Band IV	0.562	1.086
	WCDMA Band V	0.228	0.602
	LTE Band 2	0.961	0.974
	LTE Band 4	0.406	0.754
	LTE Band 5	0.161	0.735
	LTE Band 7	0.191	1.047
	LTE Band 38	0.112	0.409
	LTE Band 40	0.214	0.547
	LTE Band 41	0.087	0.397
	LTE Band 66	0.347	0.834
	2.4G WLAN	0.523	0.108
	5.2G WLAN	0.188	0.260



	5.3G WLAN	0.293	0.453
	5.6G WLAN	0.481	0.333
	5.8G WLAN	0.545	0.283
	Bluetooth ^{Note}	0.047	0.047
1-g Sum SAR		1.506	1.544
Battery	Rated Voltage:3.87V Capacity: 5160mAh		
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.		
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 WCDMA: RMC, 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 + $\pi/4$ DQPSK+8DPSK BLE: GFSK		
Antenna Specification	GSM/WCDMA/LTE: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna		
Operating Mode	Maximum continuous output		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time		
Hotspot Mode	Support		
DTM Mode	Not Support		
Note 1: The BT value was Estimated.			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

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



2. Test Standards and Limits

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

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.4 8.0 20.0

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

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

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

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

NOTE
GENERAL POPULATION/UNCONTROLLED EXPOSURE
PARTIAL BODY LIMIT
1.6 W/kg



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

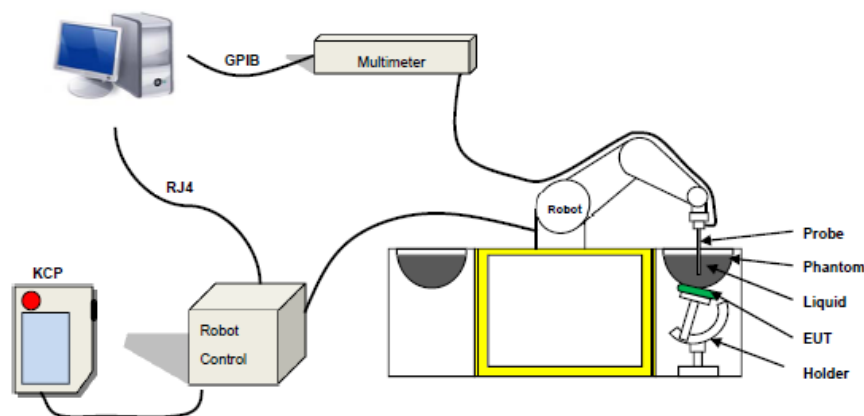
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

ρ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe 2225-EPGO-450 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 0.15 GHz to 7.5 GHz for head simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

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

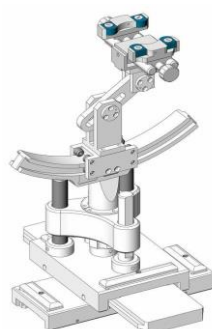


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-11-18	20.3	56	835	20	Permittivity	41.50	42.08	1.40	±5
					Conductivity	0.90	0.91	1.11	±5
2025-11-20	20.6	41	1800	20.3	Permittivity	40.00	40.50	1.25	±5
					Conductivity	1.40	1.37	-2.14	±5
2025-11-21	20.4	42	1900	20.1	Permittivity	40.00	40.31	0.78	±5
					Conductivity	1.40	1.39	-0.71	±5
2025-11-22	21.4	42	2450	21.1	Permittivity	39.20	40.45	3.19	±5
					Conductivity	1.80	1.81	0.56	±5
2025-11-19	23.9	50	2600	23.6	Permittivity	39.00	40.04	2.67	±5
					Conductivity	1.96	2.02	3.06	±5
2025-11-17	21.7	43	5200	21.4	Permittivity	36.00	36.70	1.94	±5
					Conductivity	4.66	4.58	-1.72	±5
2025-11-17	21.3	40	5400	23.1	Permittivity	35.80	36.36	1.56	±5
					Conductivity	4.86	4.83	-0.62	±5
2025-11-15	23.1	56	5600	19.8	Permittivity	35.60	36.58	2.75	±5
					Conductivity	5.06	5.12	1.19	±5
2025-11-15	23.5	49	5800	23.2	Permittivity	35.30	36.48	3.34	±5
					Conductivity	5.27	5.26	-0.19	±5

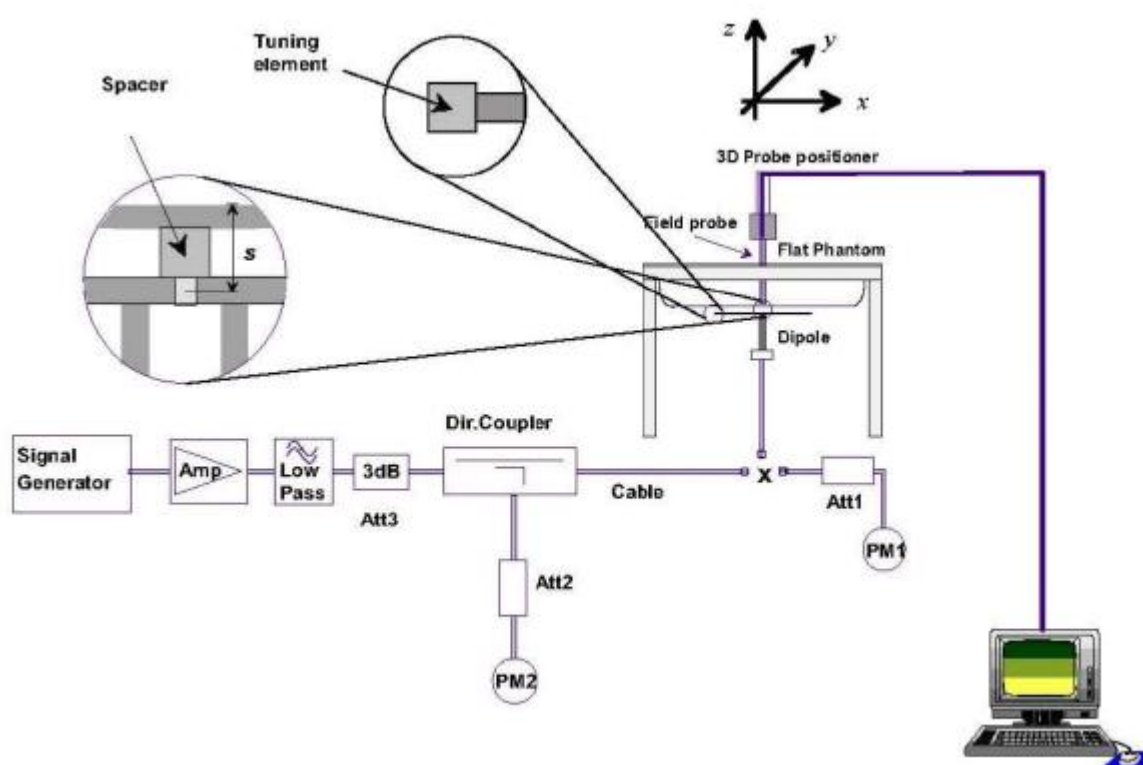


5. SAR System Validation

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

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

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2025-11-18	835	100	0.916	9.16	9.63	-4.88	10
2025-11-20	1800	100	3.669	36.69	36.60	0.25	10
2025-11-21	1900	100	4.019	40.19	40.20	-0.02	10
2025-11-22	2450	100	5.308	53.08	52.98	0.19	10
2025-11-19	2600	100	5.637	56.37	56.15	0.39	10
2025-11-17	5200	100	7.812	78.12	77.84	0.36	10
2025-11-17	5400	100	7.678	76.78	76.82	-0.05	10
2025-11-15	5600	100	8.229	82.29	82.15	0.17	10
2025-11-15	5800	100	8.043	80.43	80.51	-0.10	10

Note:

1. The tolerance limit of System validation $\pm 10\%$.
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 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan& Zoom Scan

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01 quoted below.

When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤5	≤5	45	≤5	≤5	155
WWAN	≤5	≤5	≤5	≤5	155	≤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.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	836.6	1850.2	1852.4	1712.6	846.6
	Maximum Turn-up power (dBm)	33.6	30.1	24	24.4	24.1
	Maximum rated power(mW)	2290.87	1023.29	251.19	275.42	257.04
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	11.03	11.02	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	11.03	11.02	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	11.03	11.02	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	11.03	11.02	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	155	155	155	155	155
	exclusion threshold(mW)	749.62	1160.28	1160.21	1164.62	755.64
	Testing required?	YES	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	11.03	11.02	11.46	16.30
	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 38
	Calculated Frequency (MHz)	1860	1732.5	829	2510	2595
	Maximum Turn-up power (dBm)	22.6	23	24	22	22
	Maximum rated power(mW)	181.97	199.53	251.19	158.49	158.49
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	9.47	9.31
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	9.47	9.31
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	9.47	9.31
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	9.47	9.31
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	155	155	155	155	155
	exclusion threshold(mW)	1159.99	1163.96	745.05	1144.68	1143.12
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	9.47	9.31
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 40	LTE Band 41	LTE Band 66	BT	2.4G WLAN
	Calculated Frequency (MHz)	2355	2680	1720	2441	2437
	Maximum Turn-up power (dBm)	21.3	22.5	22.5	6	17
	Maximum rated power(mW)	134.90	177.83	177.83	3.98	50.12
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.77	9.16	11.44	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.77	9.16	11.44	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Left Edge	Separation distance (mm)	5	5	5	45	45
	exclusion threshold(mW)	9.77	9.16	11.44	86.41	86.48
	Testing required?	YES	YES	YES	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.77	9.16	11.44	9.60	9.61
	Testing required?	YES	YES	YES	NO	YES
Top Edge	Separation distance (mm)	155	155	155	5	5
	exclusion threshold(mW)	1147.75	1141.63	1164.37	9.60	9.61
	Testing required?	NO	NO	NO	NO	YES
Bottom Edge	Separation distance (mm)	5	5	5	155	155
	exclusion threshold(mW)	9.77	9.16	11.44	297.62	297.87
	Testing required?	YES	YES	YES	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	5180	5320	5530	5785
	Maximum Turn-up power (dBm)	13.6	14.2	14.2	14.7
	Maximum rated power(mW)	22.91	26.30	26.30	29.51
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.50	6.38	6.24
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.50	6.38	6.24
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	45	45	45	45
	exclusion threshold(mW)	59.32	58.53	57.41	56.13
	Testing required?	NO	NO	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.50	6.38	6.24
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.50	6.38	6.24
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	155	155	155	155
	exclusion threshold(mW)	204.31	201.60	197.74	193.33
	Testing required?	NO	NO	NO	NO



Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance $\leq 50\text{mm}$ are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] * [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
$$f(\text{GHz}) \text{ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.}$$

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0) to do compare
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a) [threshold at 50mm in step 1] + (test separation distance - 50mm) * (f (MHz)/150) mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step 1] + (test separation distance - 50mm) * 10 mW at > 1500MHz and $\leq 6\text{GHz}$
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 these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.

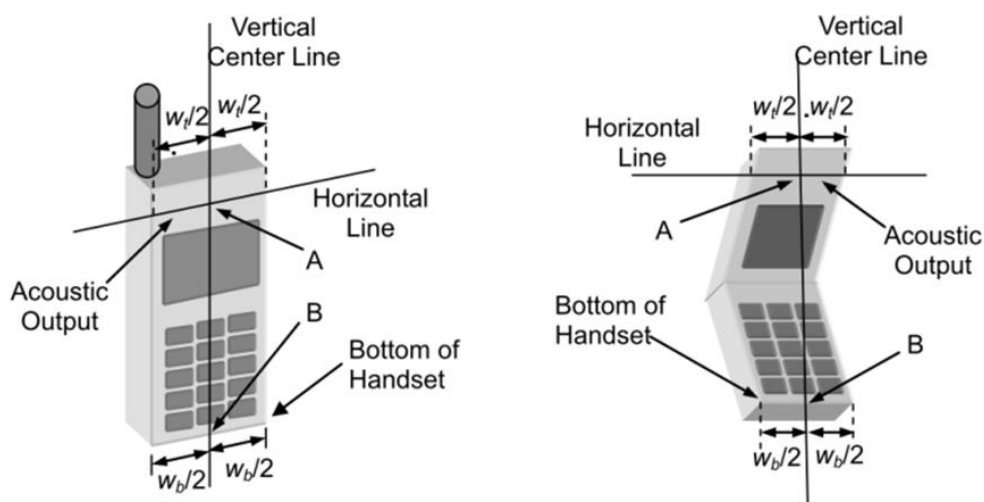


8. EUT Test Position

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

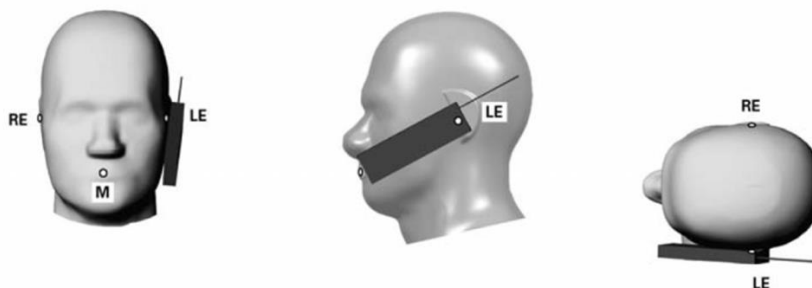
8.1 Define Two Imaginary Lines on the Handset

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



Cheek Position

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





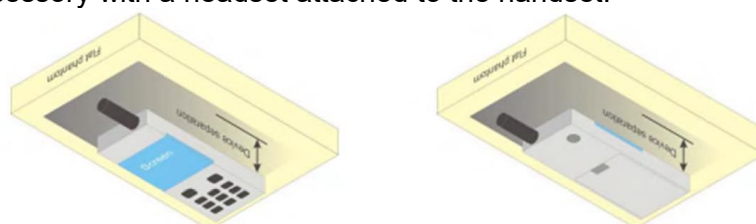
Title Position

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



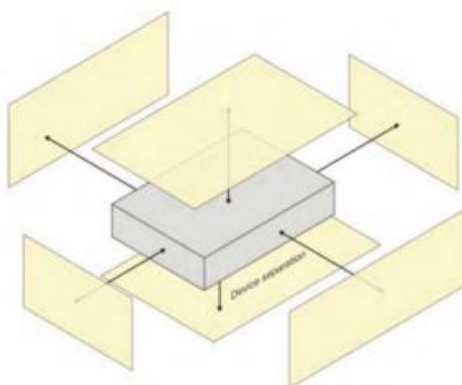
Body-worn Position Conditions:

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



8.2 Hotspot mode exposure position condition

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





9. Uncertainty

9.1 Measurement Uncertainty

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

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



9.2 System validation Uncertainty

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



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	33.01	33.58	33.44	30	29.51	28.96
GPRS (GMSK, 1-Slot)	32.95	33.56	33.38	30.05	29.56	29.03
GPRS (GMSK, 2-Slot)	32.22	32.81	32.67	29.06	28.54	28.03
GPRS (GMSK, 3-Slot)	30.55	31.11	31	27.25	26.73	26.24
GPRS (GMSK, 4-Slot)	29.47	30.04	29.92	26.47	25.94	25.43
EGPRS (8PSK, 1-Slot)	28.67	28.34	28.82	27.32	26.88	26.3
EGPRS (8PSK, 2-Slot)	27.13	27.56	27.34	26.5	25.4	25.02
EGPRS (8PSK, 3-Slot)	25.04	25.31	25.67	23.75	23.53	23.16
EGPRS (8PSK, 4-Slot)	23.95	24.21	24.14	22.51	22.02	21.75
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)	23.98	24.55	24.41	20.97	20.48	19.93
GPRS (GMSK, 1-Slot)	23.92	24.53	24.35	21.02	20.53	20.00
GPRS (GMSK, 2-Slot)	26.20	26.79	26.65	23.04	22.52	22.01
GPRS (GMSK, 3-Slot)	26.29	26.85	26.74	22.99	22.47	21.98
GPRS (GMSK, 4-Slot)	26.46	27.03	26.91	23.46	22.93	22.42
EGPRS (8PSK, 1-Slot)	19.64	19.31	19.79	18.29	17.85	17.27
EGPRS (8PSK, 2-Slot)	21.11	21.54	21.32	20.48	19.38	19.00
EGPRS (8PSK, 3-Slot)	20.78	21.05	21.41	19.49	19.27	18.90
EGPRS (8PSK, 4-Slot)	20.94	21.20	21.13	19.50	19.01	18.74
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	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	23.18	23.36	22.89	24.28	24.06	24.1	23.56	23.47	24.07
HSDPA Subtest-1	24.13	23.68	23.56	24.05	23.78	23.63	23.46	22.97	23.21
HSDPA Subtest-2	23.73	23.14	23.31	23.77	23.6	23.27	22.95	22.91	22.69
HSDPA Subtest-3	23.37	23.14	23	23.4	23.51	22.94	22.88	22.61	22.38
HSDPA Subtest-4	23.13	22.74	22.79	23.41	23.04	23.05	22.41	22.49	22.52
HSUPA Subtest-1	23.83	23.26	23.25	23.85	23.51	23.32	23.36	22.96	23.12
HSUPA Subtest-2	23.88	23.53	23.44	23.95	23.75	23.55	23.28	23.05	23.17
HSUPA Subtest-3	23.74	23.09	23	23.66	23.48	23.23	22.87	22.67	23.15
HSUPA Subtest-4	23.88	23.59	23.44	23.91	23.81	23.56	23.27	22.96	23.19
HSUPA Subtest-5	23.43	22.9	23.09	23.49	23.58	23.26	23.06	22.72	22.98

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

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

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

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

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

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

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



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	16.65	46.24
	6	2437	16.74	47.21
	11	2462	16.5	44.67
802.11g	1	2412	16.07	40.46
	6	2437	16.1	40.74
	11	2462	16.08	40.55
802.11 n-HT20	1	2412	16.1	40.74
	6	2437	16.09	40.64
	11	2462	16.02	39.99
802.11 n-HT40	3	2422	16.25	42.17
	6	2437	16.25	42.17
	9	2452	16.16	41.30

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-1.2	0.76
	39	2441	-1.4	0.72
	78	2480	-1.43	0.72
$\pi/4$ -QPSK(2Mbps)	0	2402	-0.44	0.90
	39	2441	-0.42	0.91
	78	2480	-0.66	0.86
8DPSK(3Mbps)	0	2402	-0.27	0.94
	39	2441	-0.45	0.90
	78	2480	-0.48	0.90

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	5.72	3.73
	19	2440	5.83	3.83
	39	2480	5.55	3.59
GFSK(2Mbps)	0	2402	5.71	3.72
	19	2440	5.84	3.84
	39	2480	5.57	3.61



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	13.57	22.75
	40	5200	13.27	21.23
	48	5240	13.23	21.04
802.11 n-HT20	36	5180	12.17	16.48
	40	5200	12.07	16.11
	48	5240	12.01	15.89
802.11 n-HT40	38	5190	12.21	16.63
	46	5230	12.13	16.33
802.11ac-VHT20	36	5180	12.13	16.33
	40	5200	11.93	15.60
	48	5240	12	15.85
802.11ac-VHT40	38	5190	12.3	16.98
	46	5230	12.16	16.44
802.11ac-VHT80	42	5210	13.46	22.18

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	13.64	23.12
	60	5300	14.07	25.53
	64	5320	14.16	26.06
802.11 n-HT20	52	5260	12.4	17.38
	60	5300	12.65	18.41
	64	5320	12.8	19.05
802.11 n-HT40	54	5270	12.62	18.28
	62	5310	12.2	16.60
802.11ac-VHT20	52	5260	12.49	17.74
	60	5300	12.72	18.71
	64	5320	12.83	19.19
802.11ac-VHT40	54	5270	12.59	18.16
	62	5310	12.26	16.83
802.11ac-VHT80	58	5290	13.65	23.17



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	14.05	25.41
	116	5580	14.15	26.00
	140	5700	13.34	21.58
802.11 n-HT20	100	5500	12.81	19.10
	116	5580	12.23	16.71
	140	5700	11.96	15.70
802.11 n-HT40	102	5510	13.24	21.09
	110	5550	13.18	20.80
	134	5670	12.59	18.16
802.11ac-VHT20	100	5500	12.75	18.84
	116	5580	12.25	16.79
	140	5700	11.93	15.60
802.11ac-VHT40	102	5510	13.26	21.18
	110	5550	13.13	20.56
	134	5670	12.55	17.99
802.11ac-VHT80	106	5530	14.18	26.18
	122	5610	13.5	22.39
	138	5690	14.05	25.41

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	14.6	28.84
	157	5785	14.66	29.24
	165	5825	14.36	27.29
802.11 n-HT20	149	5745	13.2	20.89
	157	5785	13.39	21.83
	165	5825	13.07	20.28
802.11 n-HT40	151	5755	13.91	24.60
	159	5795	13.48	22.28
802.11ac-VHT20	149	5745	13.26	21.18
	157	5785	13.43	22.03
	165	5825	13.11	20.46
802.11ac-VHT40	151	5755	13.93	24.72
	159	5795	13.69	23.39
802.11ac-VHT80	155	5775	14.39	27.48



LTE Conducted Power

General Note:

1. CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
6. Per KDB 941225 D05, 16QAM output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is ≤ 1.45 W/kg; Per KDB 941225 D05, 16QAM SAR testing is not required.
7. Per KDB 941225 D05, Smaller bandwidth output power for each RB allocation configuration is $>$ not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.49	22.21	21.85
1.4	1	2		22.51	22.28	21.94
1.4	1	5		22.46	22.22	21.82
1.4	3	0		22.51	22.31	21.94
1.4	3	1		22.51	22.32	21.97
1.4	3	2		22.49	22.3	21.92
1.4	6	0		21.55	21.32	20.98
1.4	1	0	16-QAM	21.68	21.39	20.79
1.4	1	2		21.71	21.46	20.85
1.4	1	5		21.64	21.46	20.81
1.4	3	0		21.75	21.57	21.12
1.4	3	1		21.76	21.66	21.2
1.4	3	2		21.74	21.6	21.16
1.4	6	0		20.8	20.57	20.25
3	1	0	QPSK	22.24	22.09	21.75
3	1	7		22.31	22.2	21.85
3	1	14		22.09	22.14	21.77
3	8	0		21.5	21.26	21.01
3	8	4		21.52	21.36	21.02
3	8	7		21.48	21.37	21
3	15	0		21.42	21.33	21.03
3	1	0	16-QAM	21.77	21.31	20.73
3	1	7		21.82	21.45	20.79
3	1	14		21.61	21.4	20.72
3	8	0		20.55	20.34	20.01
3	8	4		20.56	20.4	20.07
3	8	7		20.5	20.42	20.02
3	15	0		20.5	20.37	20.13



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.53	22.26	21.53
5	1	12		22.49	22.39	21.59
5	1	24		22.29	22.34	21.51
5	12	0		21.47	21.25	20.64
5	12	6		21.55	21.43	20.64
5	12	11		21.48	21.41	20.58
5	25	0		21.51	21.33	20.59
5	1	0	16-QAM	21.91	21.6	21.13
5	1	12		21.92	21.73	21.22
5	1	24		21.73	21.74	21.1
5	12	0		20.45	20.29	19.66
5	12	6		20.55	20.36	19.69
5	12	11		20.46	20.39	19.6
5	25	0		20.58	20.38	19.6
10	1	0	QPSK	22.39	21.94	22.27
10	1	24		21.75	21.99	21.78
10	1	49		21.56	21.95	21.51
10	25	0		20.68	20.77	20.7
10	25	12		20.71	21.02	20.77
10	25	24		20.57	21.11	20.43
10	50	0		20.62	20.97	20.58
10	1	0	16-QAM	21.72	21.36	21.59
10	1	24		21.02	21.35	21.07
10	1	49		20.84	21.31	20.87
10	25	0		19.73	19.83	19.7
10	25	12		19.79	20.1	19.77
10	25	24		19.64	20.2	19.48
10	50	0		19.66	19.97	19.62



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.17	21.63	21.72
15	1	37		21.82	21.98	21.68
15	1	74		21.58	21.99	21.54
15	36	0		20.78	20.75	20.73
15	36	18		20.75	20.93	20.67
15	36	39		20.6	21.01	20.45
15	75	0		20.69	20.95	20.67
15	1	0	16-QAM	21.14	21.12	20.98
15	1	38		20.93	21.43	20.9
15	1	75		20.72	21.48	20.77
15	36	0		19.76	19.78	19.86
15	36	18		19.72	19.98	19.8
15	36	39		19.6	20.12	19.57
15	75	0		19.74	19.95	19.66
20	1	0	QPSK	22.54	21.84	21.61
20	1	49		22.41	22.02	21.63
20	1	99		22.16	22.11	21.52
20	50	0		21.34	20.78	20.74
20	50	24		21.36	20.97	20.66
20	50	49		21.26	21	20.49
20	100	0		21.23	20.97	20.7
20	1	0	16-QAM	21.46	20.76	21.13
20	1	49		21.21	20.91	21.13
20	1	99		20.98	21	21.07
20	50	0		20.06	19.85	19.85
20	50	24		20.12	20.02	19.76
20	50	49		19.96	20.06	19.59
20	100	0		19.89	19.95	19.7



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.13	22.03	22.24
1.4	1	2		22.19	22.08	22.29
1.4	1	5		22.12	22.03	22.25
1.4	3	0		22.21	22.14	22.23
1.4	3	1		22.22	22.14	22.26
1.4	3	2		22.21	22.1	22.24
1.4	6	0		21.2	21.1	21.32
1.4	1	0	16-QAM	21.28	20.96	21.36
1.4	1	2		21.36	21.01	21.4
1.4	1	5		21.34	20.92	21.37
1.4	3	0		21.49	21.32	21.47
1.4	3	1		21.52	21.34	21.45
1.4	3	2		21.5	21.29	21.43
1.4	6	0		20.43	20.38	20.53
3	1	0	QPSK	21.96	21.91	22.06
3	1	7		22.19	21.99	22.16
3	1	14		22.18	21.85	22.08
3	8	0		21.19	21.12	21.27
3	8	4		21.3	21.19	21.33
3	8	7		21.26	21.16	21.33
3	15	0		21.29	21.14	21.27
3	1	0	16-QAM	20.92	21.49	21.27
3	1	7		21.1	21.5	21.4
3	1	14		21.04	21.36	21.29
3	8	0		20.22	20.22	20.33
3	8	4		20.28	20.24	20.37
3	8	7		20.36	20.2	20.33
3	15	0		20.38	20.19	20.27



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.27	22.26	22.27
5	1	12		22.42	22.24	22.39
5	1	24		22.45	22.11	22.32
5	12	0		21.31	21.18	21.31
5	12	6		21.45	21.3	21.42
5	12	11		21.42	21.28	21.41
5	25	0		21.41	21.25	21.35
5	1	0	16-QAM	21.66	21.65	21.82
5	1	12		21.82	21.68	21.99
5	1	24		21.87	21.55	21.98
5	12	0		20.31	20.24	20.34
5	12	6		20.44	20.35	20.44
5	12	11		20.44	20.33	20.46
5	25	0		20.49	20.28	20.38
10	1	0	QPSK	22.36	22.44	22.2
10	1	24		22.63	22.35	22.31
10	1	49		22.65	22.29	22.36
10	25	0		21.4	21.22	21.26
10	25	12		21.55	21.32	21.35
10	25	24		21.55	21.29	21.36
10	50	0		21.51	21.3	21.36
10	1	0	16-QAM	21.54	21.37	21.7
10	1	24		21.81	21.25	21.8
10	1	49		21.84	21.19	21.88
10	25	0		20.47	20.3	20.27
10	25	12		20.61	20.39	20.46
10	25	24		20.63	20.35	20.44
10	50	0		20.55	20.33	20.37



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.28	22.43	22.07
15	1	37		22.67	22.34	22.29
15	1	74		22.53	22.22	22.35
15	36	0		21.42	21.26	21.12
15	36	18		21.61	21.27	21.3
15	36	39		21.54	21.27	21.36
15	75	0		21.52	21.29	21.29
15	1	0	16-QAM	21.49	21.53	21.52
15	1	38		21.85	21.45	21.77
15	1	75		21.77	21.32	21.82
15	36	0		20.54	20.27	20.16
15	36	18		20.69	20.3	20.34
15	36	39		20.64	20.27	20.42
15	75	0		20.59	20.33	20.3
20	1	0	QPSK	22.76	22.89	22.48
20	1	49		22.73	22.36	22.24
20	1	99		22.38	22.13	22.31
20	50	0		21.59	21.37	21.06
20	50	24		21.69	21.35	21.31
20	50	49		21.52	21.37	21.38
20	100	0		21.51	21.32	21.27
20	1	0	16-QAM	21.99	22.2	21.88
20	1	49		22.06	21.63	21.65
20	1	99		21.66	21.44	21.69
20	50	0		20.58	20.46	20.14
20	50	24		20.7	20.45	20.41
20	50	49		20.56	20.44	20.52
20	100	0		20.61	20.39	20.31



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.77	23.59	23.62
1.4	1	2		23.86	23.65	23.71
1.4	1	5		23.75	23.53	23.62
1.4	3	0		23.9	23.61	23.61
1.4	3	1		23.92	23.63	23.62
1.4	3	2		23.86	23.62	23.61
1.4	6	0		22.92	22.72	22.71
1.4	1	0	16-QAM	22.91	22.39	22.65
1.4	1	2		23.01	22.5	22.75
1.4	1	5		22.93	22.45	22.68
1.4	3	0		23.05	22.76	22.77
1.4	3	1		23.1	22.78	22.79
1.4	3	2		23.06	22.75	22.77
1.4	6	0		22.13	21.91	21.93
3	1	0	QPSK	23.65	23.37	23.36
3	1	7		23.71	23.42	23.42
3	1	14		23.67	23.28	23.36
3	8	0		22.78	22.51	22.53
3	8	4		22.85	22.62	22.62
3	8	7		22.8	22.56	22.6
3	15	0		22.8	22.53	22.57
3	1	0	16-QAM	22.48	22.82	22.53
3	1	7		22.54	22.87	22.59
3	1	14		22.45	22.66	22.59
3	8	0		21.8	21.63	21.59
3	8	4		21.89	21.7	21.69
3	8	7		21.85	21.59	21.63
3	15	0		21.9	21.63	21.55



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.92	23.82	23.7
5	1	12		23.9	23.78	23.75
5	1	24		23.76	23.65	23.83
5	12	0		22.81	22.66	22.58
5	12	6		22.92	22.74	22.66
5	12	11		22.81	22.61	22.57
5	25	0		22.85	22.68	22.58
5	1	0	16-QAM	23.31	22.93	22.46
5	1	12		23.29	22.9	22.52
5	1	24		23.19	22.81	22.58
5	12	0		21.91	21.68	21.65
5	12	6		22.04	21.84	21.7
5	12	11		21.89	21.7	21.66
5	25	0		21.9	21.74	21.61
10	1	0	QPSK	23.88	23.66	23.5
10	1	24		23.94	23.7	23.63
10	1	49		23.82	23.62	23.61
10	25	0		22.89	22.64	22.65
10	25	12		22.87	22.69	22.67
10	25	24		22.88	22.64	22.65
10	50	0		22.87	22.7	22.63
10	1	0	16-QAM	23.33	23.03	22.9
10	1	24		23.42	23.01	22.96
10	1	49		23.34	22.91	22.94
10	25	0		21.83	21.61	21.71
10	25	12		21.92	21.69	21.74
10	25	24		21.93	21.68	21.68
10	50	0		21.89	21.77	21.63



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.66	21.24	21.45
5	1	12		21.81	21.36	21.52
5	1	24		21.76	21.43	21.54
5	12	0		20.75	20.27	20.47
5	12	6		20.82	20.32	20.57
5	12	11		20.74	20.32	20.58
5	25	0		20.74	20.29	20.49
5	1	0	16-QAM	21.17	20.43	20.73
5	1	12		21.3	20.63	20.79
5	1	24		21.24	20.64	20.78
5	12	0		19.73	19.18	19.48
5	12	6		19.8	19.27	19.56
5	12	11		19.74	19.23	19.58
5	25	0		19.71	19.25	19.44
10	1	0	QPSK	21.59	20.92	21.42
10	1	24		21.77	21.41	21.64
10	1	49		21.4	21.54	21.58
10	25	0		20.73	20.16	20.5
10	25	12		20.76	20.39	20.59
10	25	24		20.66	20.36	20.59
10	50	0		20.7	20.23	20.56
10	1	0	16-QAM	20.8	20.18	20.65
10	1	24		20.99	20.69	20.83
10	1	49		20.58	20.84	20.66
10	25	0		19.74	19.13	19.47
10	25	12		19.77	19.38	19.52
10	25	24		19.68	19.36	19.55
10	50	0		19.71	19.18	19.49



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.71	21.14	21.43
15	1	37		21.79	21.46	21.5
15	1	74		21.58	21.63	21.55
15	36	0		20.73	20.25	20.51
15	36	18		20.81	20.41	20.58
15	36	39		20.7	20.42	20.6
15	75	0		20.78	20.35	20.57
15	1	0	16-QAM	20.86	20.1	20.82
15	1	38		20.95	20.44	20.87
15	1	75		20.74	20.62	20.89
15	36	0		19.83	19.14	19.5
15	36	18		19.88	19.34	19.55
15	36	39		19.74	19.39	19.6
15	75	0		19.76	19.28	19.46
20	1	0	QPSK	21.74	21.28	21.49
20	1	49		21.89	21.47	21.57
20	1	99		21.77	21.58	21.64
20	50	0		20.8	20.25	20.45
20	50	24		20.79	20.34	20.55
20	50	49		20.8	20.35	20.62
20	100	0		20.85	20.31	20.54
20	1	0	16-QAM	20.92	19.99	20.82
20	1	49		21.05	20.23	20.93
20	1	99		20.87	20.37	20.93
20	50	0		19.79	19.24	19.48
20	50	24		19.84	19.34	19.56
20	50	49		19.82	19.36	19.63
20	100	0		19.86	19.25	19.49



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.33	21.63	21.6
5	1	12		21.51	21.71	21.76
5	1	24		21.4	21.59	21.67
5	12	0		20.37	20.59	20.66
5	12	6		20.45	20.63	20.75
5	12	11		20.41	20.57	20.71
5	25	0		20.35	20.58	20.7
5	1	0	16-QAM	20.94	20.87	20.94
5	1	12		21.09	20.96	21.08
5	1	24		20.97	20.82	21.01
5	12	0		19.4	19.57	19.72
5	12	6		19.49	19.61	19.79
5	12	11		19.44	19.55	19.75
5	25	0		19.35	19.61	19.71
10	1	0	QPSK	21.43	21.76	21.6
10	1	24		21.56	21.73	21.74
10	1	49		21.55	21.56	21.73
10	25	0		20.41	20.66	20.64
10	25	12		20.47	20.64	20.71
10	25	24		20.48	20.54	20.69
10	50	0		20.46	20.62	20.7
10	1	0	16-QAM	20.54	20.71	21.06
10	1	24		20.65	20.65	21.18
10	1	49		20.68	20.52	21.2
10	25	0		19.46	19.72	19.68
10	25	12		19.55	19.7	19.77
10	25	24		19.52	19.6	19.77
10	50	0		19.49	19.61	19.68



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.29	21.7	21.46
15	1	37		21.62	21.76	21.73
15	1	74		21.4	21.44	21.64
15	36	0		20.45	20.67	20.51
15	36	18		20.55	20.69	20.63
15	36	39		20.51	20.51	20.59
15	75	0		20.48	20.59	20.56
15	1	0	16-QAM	20.55	20.87	20.63
15	1	38		20.88	20.93	20.89
15	1	75		20.64	20.65	20.78
15	36	0		19.53	19.69	19.55
15	36	18		19.65	19.67	19.67
15	36	39		19.6	19.53	19.64
15	75	0		19.48	19.62	19.55
20	1	0	QPSK	21.39	21.77	21.52
20	1	49		21.55	21.75	21.66
20	1	99		21.51	21.49	21.68
20	50	0		20.45	20.66	20.54
20	50	24		20.54	20.65	20.64
20	50	49		20.52	20.55	20.62
20	100	0		20.48	20.63	20.64
20	1	0	16-QAM	20.47	20.92	20.97
20	1	49		20.66	20.87	21.1
20	1	99		20.6	20.66	21.1
20	50	0		19.52	19.66	19.63
20	50	24		19.64	19.65	19.69
20	50	49		19.64	19.56	19.71
20	100	0		19.47	19.65	19.63



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	20.39	20.22	20.17
5	1	12		20.28	20.26	20.26
5	1	24		20.16	20.11	20.14
5	12	0		19.31	19.21	19.15
5	12	6		19.26	19.24	19.17
5	12	11		19.14	19.13	19.13
5	25	0		19.27	19.18	19.1
5	1	0	16-QAM	19.87	19.56	19.78
5	1	12		19.79	19.62	19.89
5	1	24		19.65	19.47	19.75
5	12	0		18.37	18.26	18.22
5	12	6		18.34	18.29	18.22
5	12	11		18.21	18.2	18.17
5	25	0		18.3	18.22	18.15
10	1	0	QPSK	/	20.36	/
10	1	24		/	20.39	/
10	1	49		/	20.22	/
10	25	0		/	19.3	/
10	25	12		/	19.3	/
10	25	24		/	19.2	/
10	50	0		/	19.28	/
10	1	0	16-QAM	/	19.68	/
10	1	24		/	19.72	/
10	1	49		/	19.52	/
10	25	0		/	18.31	/
10	25	12		/	18.29	/
10	25	24		/	18.17	/
10	50	0		/	18.33	/



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.07	21.07	21.07
5	1	12		21.17	21.18	21.14
5	1	24		21.06	21.05	21.06
5	12	0		20.11	20.08	20.04
5	12	6		20.15	20.12	20.08
5	12	11		20.1	20.05	20
5	25	0		20.12	20.04	20.01
5	1	0	16-QAM	20.43	20.66	20.34
5	1	12		20.51	20.78	20.41
5	1	24		20.41	20.68	20.28
5	12	0		19.13	19.07	18.99
5	12	6		19.17	19.1	19.05
5	12	11		19.13	19.06	18.96
5	25	0		19.08	19.01	19.02
10	1	0	QPSK	/	21.19	/
10	1	24		/	21.21	/
10	1	49		/	21.12	/
10	25	0		/	20.13	/
10	25	12		/	20.15	/
10	25	24		/	20.05	/
10	50	0		/	20.11	/
10	1	0	16-QAM	/	20.11	/
10	1	24		/	20.15	/
10	1	49		/	20.04	/
10	25	0		/	19.16	/
10	25	12		/	19.15	/
10	25	24		/	19.07	/
10	50	0		/	19.08	/



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.15	21.42	21.45
5	1	12		21.34	21.5	21.69
5	1	24		21.26	21.29	21.66
5	12	0		20.1	20.44	20.6
5	12	6		20.24	20.46	20.63
5	12	11		20.29	20.37	20.62
5	25	0		20.18	20.4	20.61
5	1	0	16-QAM	20.35	20.75	21.09
5	1	12		20.58	20.86	21.33
5	1	24		20.49	20.64	21.27
5	12	0		19.11	19.49	19.61
5	12	6		19.23	19.54	19.66
5	12	11		19.3	19.44	19.64
5	25	0		19.29	19.37	19.6
10	1	0	QPSK	21.14	21.6	21.57
10	1	24		21.35	21.6	21.65
10	1	49		21.39	21.41	21.75
10	25	0		20.15	20.47	20.62
10	25	12		20.32	20.5	20.62
10	25	24		20.37	20.4	20.58
10	50	0		20.33	20.46	20.63
10	1	0	16-QAM	20.57	20.71	20.59
10	1	24		20.8	20.72	20.63
10	1	49		20.79	20.54	20.75
10	25	0		19.25	19.55	19.65
10	25	12		19.38	19.59	19.66
10	25	24		19.44	19.46	19.62
10	50	0		19.31	19.46	19.62



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.12	21.54	21.8
15	1	37		21.4	21.57	21.83
15	1	74		21.26	21.32	21.86
15	36	0		20.21	20.49	20.72
15	36	18		20.36	20.49	20.72
15	36	39		20.41	20.38	20.69
15	75	0		20.34	20.44	20.74
15	1	0	16-QAM	20.55	20.67	20.99
15	1	38		20.85	20.73	20.98
15	1	75		20.67	20.42	21.03
15	36	0		19.27	19.63	19.74
15	36	18		19.43	19.58	19.74
15	36	39		19.47	19.48	19.7
15	75	0		19.32	19.45	19.79
20	1	0	QPSK	21.56	21.98	22.46
20	1	49		21.45	21.57	21.87
20	1	99		21.08	21.17	21.83
20	50	0		20.11	20.52	20.9
20	50	24		20.34	20.5	20.83
20	50	49		20.32	20.34	20.64
20	100	0		20.21	20.4	20.77
20	1	0	16-QAM	20.67	21.25	21.63
20	1	49		20.6	20.85	21.09
20	1	99		20.19	20.47	21.02
20	50	0		19.19	19.62	19.88
20	50	24		19.4	19.6	19.86
20	50	49		19.37	19.42	19.64
20	100	0		19.26	19.44	19.78



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.94	21.84	21.29
1.4	1	2		22.03	21.9	21.39
1.4	1	5		21.99	21.82	21.33
1.4	3	0		21.97	21.91	21.43
1.4	3	1		22.02	21.95	21.44
1.4	3	2		22	21.94	21.38
1.4	6	0		21.05	20.89	20.39
1.4	1	0	16-QAM	21.1	21.02	20.21
1.4	1	2		21.17	21.1	20.29
1.4	1	5		21.17	21.03	20.23
1.4	3	0		21.22	21.19	20.61
1.4	3	1		21.28	21.22	20.65
1.4	3	2		21.24	21.19	20.62
1.4	6	0		20.26	20.14	19.67
3	1	0	QPSK	21.7	21.68	21.16
3	1	7		21.9	21.8	21.32
3	1	14		21.81	21.66	21.29
3	8	0		20.95	20.87	20.4
3	8	4		21.08	20.97	20.47
3	8	7		21.05	20.96	20.43
3	15	0		20.99	20.9	20.4
3	1	0	16-QAM	21.24	20.92	20.14
3	1	7		21.39	21.02	20.26
3	1	14		21.33	20.96	20.13
3	8	0		20.02	19.94	19.47
3	8	4		20.14	20.01	19.49
3	8	7		20.12	19.95	19.44
3	15	0		20.07	19.89	19.49



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.98	21.84	21.41
5	1	12		22.21	22.02	21.5
5	1	24		22.22	21.91	21.48
5	12	0		21	20.9	20.44
5	12	6		21.21	21.04	20.53
5	12	11		21.21	21.05	20.5
5	25	0		21.17	20.97	20.47
5	1	0	16-QAM	21.36	21.26	21.05
5	1	12		21.59	21.43	21.17
5	1	24		21.59	21.35	21.09
5	12	0		19.99	19.95	19.46
5	12	6		20.21	20.1	19.58
5	12	11		20.17	20.09	19.57
5	25	0		20.21	20	19.48
10	1	0	QPSK	22.14	21.93	21.68
10	1	24		22.38	22.03	21.57
10	1	49		22.41	22.09	21.6
10	25	0		21.1	20.85	20.53
10	25	12		21.26	21.05	20.57
10	25	24		21.29	21.12	20.47
10	50	0		21.26	21.01	20.49
10	1	0	16-QAM	21	21.43	20.88
10	1	24		21.24	21.52	20.77
10	1	49		21.36	21.55	20.75
10	25	0		20.13	19.91	19.59
10	25	12		20.31	20.14	19.62
10	25	24		20.36	20.17	19.57
10	50	0		20.22	20.03	19.6



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.05	21.9	21.78
15	1	37		22.44	22.1	21.62
15	1	74		22.34	22.09	21.48
15	36	0		21.16	20.84	20.66
15	36	18		21.32	21.05	20.59
15	36	39		21.29	21.09	20.55
15	75	0		21.25	20.97	20.61
15	1	0	16-QAM	21.28	21.04	21.28
15	1	38		21.6	21.16	21.15
15	1	75		21.52	21.2	20.98
15	36	0		20.24	19.84	19.74
15	36	18		20.44	20	19.67
15	36	39		20.39	20.07	19.59
15	75	0		20.27	20.07	19.63
20	1	0	QPSK	22.03	21.81	21.79
20	1	49		22.46	22.1	21.7
20	1	99		22.13	22.07	21.37
20	50	0		21.24	20.87	20.86
20	50	24		21.41	21.09	20.77
20	50	49		21.3	21.19	20.58
20	100	0		21.29	21.02	20.72
20	1	0	16-QAM	21.29	21.12	21.17
20	1	49		21.79	21.4	21.12
20	1	99		21.45	21.35	20.81
20	50	0		20.25	19.92	19.95
20	50	24		20.43	20.17	19.84
20	50	49		20.31	20.26	19.63
20	100	0		20.26	20.08	19.75



10.1 Tune up

Mode	GSM850	GSM1900
GSM/PCS	32.6±1dBm	29.1±1dBm
GPRS (1 Slot)	32.6±1dBm	29.1±1dBm
GPRS (2 Slot)	32±1dBm	28.1±1dBm
GPRS (3 Slot)	30.2±1dBm	26.3±1dBm
GPRS (4 Slot)	29.1±1dBm	25.5±1dBm
EDGE (1 Slot)	28±1dBm	26.5±1dBm
EDGE (2 Slot)	26.6±1dBm	25.7±1dBm
EDGE (3 Slot)	24.7±1dBm	23±1dBm
EDGE (4 Slot)	23.3±1dBm	21.6±1dBm

Mode	WCDMA Band II	WCDMA Band IV	WCDMA Band V
RMR	22.5±1dBm	23.4±1dBm	23.1±1dBm
HSDPA Subtest-1	23.2±1dBm	23.1±1dBm	22.5±1dBm
HSDPA Subtest-2	23±1dBm	23±1dBm	22±1dBm
HSDPA Subtest-3	22.5±1dBm	22.6±1dBm	22±1dBm
HSDPA Subtest-4	22.2±1dBm	22.5±1dBm	21.6±1dBm
HSUPA Subtest-1	23±1dBm	23±1dBm	22.5±1dBm
HSUPA Subtest-2	23±1dBm	23±1dBm	22.3±1dBm
HSUPA Subtest-3	23±1dBm	23±1dBm	22.2±1dBm
HSUPA Subtest-4	23±1dBm	23±1dBm	22.3±1dBm
HSUPA Subtest-5	22.5±1dBm	22.6±1dBm	22.1±1dBm

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

Mode	BLE
GFSK(1Mbps)	5±1dBm
GFSK(2Mbps)	5±1dBm



Mode	2.4G WLAN
802.11b	16±1dBm
802.11g	15.2±1dBm
802.11n(HT20)	15.2±1dBm
802.11n(HT40)	15.3±1dBm

Mode	5.2G WLAN
802.11a	12.6±1dBm
802.11 n-HT20	11.2±1dBm
802.11 n-HT40	11.3±1dBm
802.11 ac-VHT20	11.2±1dBm
802.11 ac-VHT40	11.5±1dBm
802.11 ac-VHT80	12.5±1dBm

Mode	5.3G WLAN
802.11a	13.2±1dBm
802.11 n-HT20	12±1dBm
802.11 n-HT40	11.7±1dBm
802.11 ac-VHT20	12±1dBm
802.11 ac-VHT40	11.6±1dBm
802.11 ac-VHT80	12.7±1dBm

Mode	5.6G WLAN
802.11a	13.2±1dBm
802.11 n-HT20	12±1dBm
802.11 n-HT40	12.3±1dBm
802.11 ac-VHT20	12±1dBm
802.11 ac-VHT40	12.3±1dBm
802.11 ac-VHT80	13.2±1dBm

Mode	5.8G WLAN
802.11a	13.7±1dBm
802.11 n-HT20	12.5±1dBm
802.11 n-HT40	13±1dBm
802.11 ac-VHT20	12.5±1dBm
802.11 ac-VHT40	13±1dBm
802.11 ac-VHT80	13.5±1dBm



BW[MHz]	RB Size	Mode	Band 2	Band 4	Band 5	Band 7
1.4	1	QPSK	21.6±1dBm	21.3±1dBm	23±1dBm	N/A
1.4	3		21.6±1dBm	21.3±1dBm	23±1dBm	N/A
1.4	6		20.6±1dBm	20.5±1dBm	22±1dBm	N/A
1.4	1	16- QAM	21±1dBm	20.5±1dBm	22.1±1dBm	N/A
1.4	3		21±1dBm	20.6±1dBm	22.2±1dBm	N/A
1.4	6		20±1dBm	19.6±1dBm	21.2±1dBm	N/A
3	1	QPSK	21.5±1dBm	21.2±1dBm	23±1dBm	N/A
3	8		20.6±1dBm	20.5±1dBm	22±1dBm	N/A
3	15		20.5±1dBm	20.5±1dBm	22±1dBm	N/A
3	1	16- QAM	21±1dBm	20.6±1dBm	22±1dBm	N/A
3	8		19.6±1dBm	19.5±1dBm	21±1dBm	N/A
3	15		19.6±1dBm	19.5±1dBm	21±1dBm	N/A
5	1	QPSK	21.6±1dBm	21.5±1dBm	23±1dBm	21±1dBm
5	12		20.6±1dBm	20.5±1dBm	22±1dBm	20±1dBm
5	25		20.6±1dBm	20.5±1dBm	22±1dBm	20±1dBm
5	1	16- QAM	21±1dBm	21±1dBm	22.5±1dBm	20.5±1dBm
5	12		19.6±1dBm	19.5±1dBm	21.1±1dBm	19±1dBm
5	25		19.6±1dBm	19.5±1dBm	21±1dBm	19±1dBm
10	1	QPSK	21.5±1dBm	21.7±1dBm	23±1dBm	21±1dBm
10	25		20.2±1dBm	20.6±1dBm	22±1dBm	20±1dBm
10	50		20±1dBm	20.6±1dBm	22±1dBm	20±1dBm
10	1	16- QAM	21±1dBm	21±1dBm	22.5±1dBm	20±1dBm
10	25		19.3±1dBm	19.7±1dBm	21±1dBm	19±1dBm
10	50		19±1dBm	19.6±1dBm	21±1dBm	19±1dBm
15	1	QPSK	21.2±1dBm	21.7±1dBm	N/A	21±1dBm
15	36		20.1±1dBm	20.7±1dBm	N/A	20±1dBm
15	75		20±1dBm	20.6±1dBm	N/A	20±1dBm
15	1	16- QAM	20.5±1dBm	21±1dBm	N/A	20±1dBm
15	36		19.2±1dBm	19.7±1dBm	N/A	19±1dBm
15	75		19±1dBm	19.6±1dBm	N/A	19±1dBm
20	1	QPSK	21.6±1dBm	22±1dBm	N/A	21±1dBm
20	50		20.5±1dBm	20.7±1dBm	N/A	20±1dBm
20	100		20.3±1dBm	20.6±1dBm	N/A	20±1dBm
20	1	16- QAM	20.5±1dBm	21.3±1dBm	N/A	20.1±1dBm
20	50		19.2±1dBm	20±1dBm	N/A	19±1dBm
20	100		19±1dBm	19.7±1dBm	N/A	19±1dBm



BW[MHz]	RB Size	Mode	Band 38	Band 40(2305-2315)	Band 40(2350-2360)	Band 41	Band 66
1.4	1	QPSK	N/A	N/A	N/A	N/A	21.1±1dBm
1.4	3		N/A	N/A	N/A	N/A	21.1±1dBm
1.4	6		N/A	N/A	N/A	N/A	20.1±1dBm
1.4	1	16- QAM	N/A	N/A	N/A	N/A	20.2±1dBm
1.4	3		N/A	N/A	N/A	N/A	20.5±1dBm
1.4	6		N/A	N/A	N/A	N/A	119.3±1dBm
3	1	QPSK	N/A	N/A	N/A	N/A	21±1dBm
3	8		N/A	N/A	N/A	N/A	20.1±1dBm
3	15		N/A	N/A	N/A	N/A	20±1dBm
3	1	16- QAM	N/A	N/A	N/A	N/A	20.5±1dBm
3	8		N/A	N/A	N/A	N/A	19.2±1dBm
3	15		N/A	N/A	N/A	N/A	19.1±1dBm
5	1	QPSK	21±1dBm	19.5±1dBm	20.2±1dBm	21±1dBm	21.3±1dBm
5	12		20±1dBm	18.5±1dBm	19.2±1dBm	20±1dBm	20.3±1dBm
5	25		20±1dBm	18.5±1dBm	19.2±1dBm	20±1dBm	20.2±1dBm
5	1	16- QAM	20.1±1dBm	19±1dBm	20±1dBm	20.5±1dBm	20.6±1dBm
5	12		19±1dBm	17.5±1dBm	18.2±1dBm	19±1dBm	19.3±1dBm
5	25		19±1dBm	17.5±1dBm	18.2±1dBm	19±1dBm	19.3±1dBm
10	1	QPSK	21±1dBm	19.5±1dBm	20.3±1dBm	21±1dBm	21.5±1dBm
10	25		20±1dBm	18.5±1dBm	19.2±1dBm	20±1dBm	20.3±1dBm
10	50		20±1dBm	18.5±1dBm	19.2±1dBm	20±1dBm	20.3±1dBm
10	1	16- QAM	20.3±1dBm	19±1dBm	19.2±1dBm	20±1dBm	20.6±1dBm
10	25		19±1dBm	17.5±1dBm	18.2±1dBm	19±1dBm	19.5±1dBm
10	50		19±1dBm	17.5±1dBm	19.1±1dBm	19±1dBm	19.5±1dBm
15	1	QPSK	21±1dBm	N/A	N/A	21±1dBm	21.5±1dBm
15	36		20±1dBm	N/A	N/A	20±1dBm	20.5±1dBm
15	75		20±1dBm	N/A	N/A	20±1dBm	20.5±1dBm
15	1	16- QAM	20±1dBm	N/A	N/A	20.1±1dBm	21±1dBm
15	36		19±1dBm	N/A	N/A	19±1dBm	19.5±1dBm
15	75		19±1dBm	N/A	N/A	19±1dBm	19.5±1dBm
20	1	QPSK	21±1dBm	N/A	N/A	21.5±1dBm	21.5±1dBm
20	50		20±1dBm	N/A	N/A	20±1dBm	20.5±1dBm
20	100		20±1dBm	N/A	N/A	20±1dBm	20.5±1dBm
20	1	16- QAM	20.2±1dBm	N/A	N/A	21±1dBm	21±1dBm
20	50		19±1dBm	N/A	N/A	19±1dBm	19.5±1dBm
20	100		19±1dBm	N/A	N/A	19±1dBm	19.5±1dBm

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

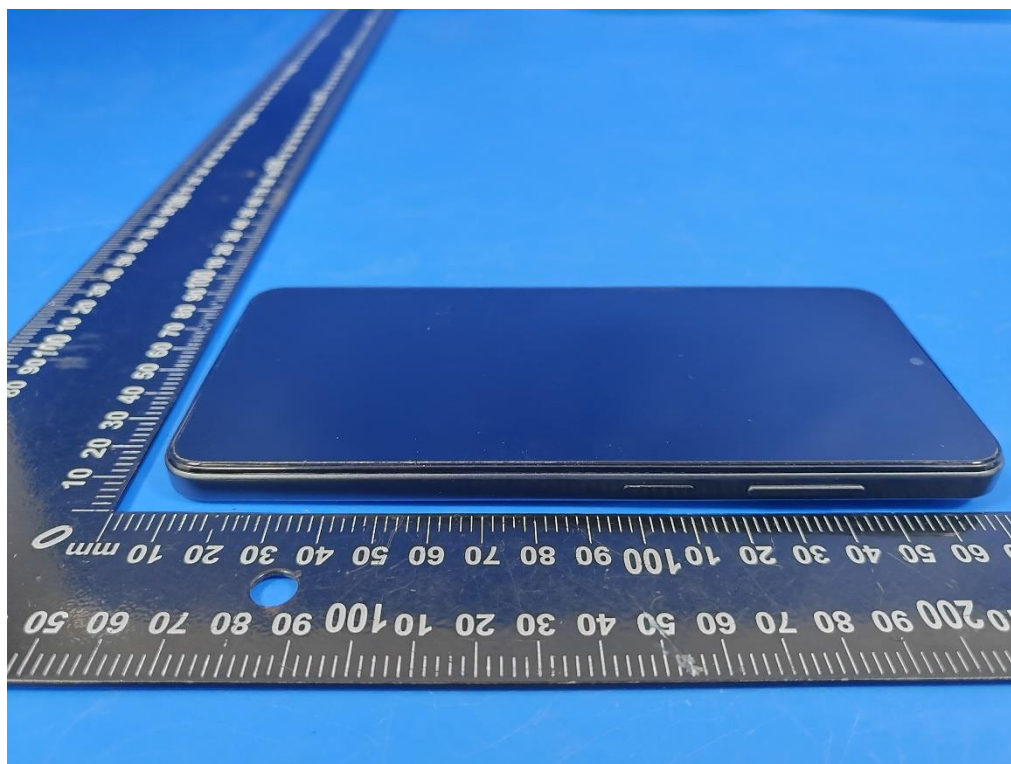


Back side

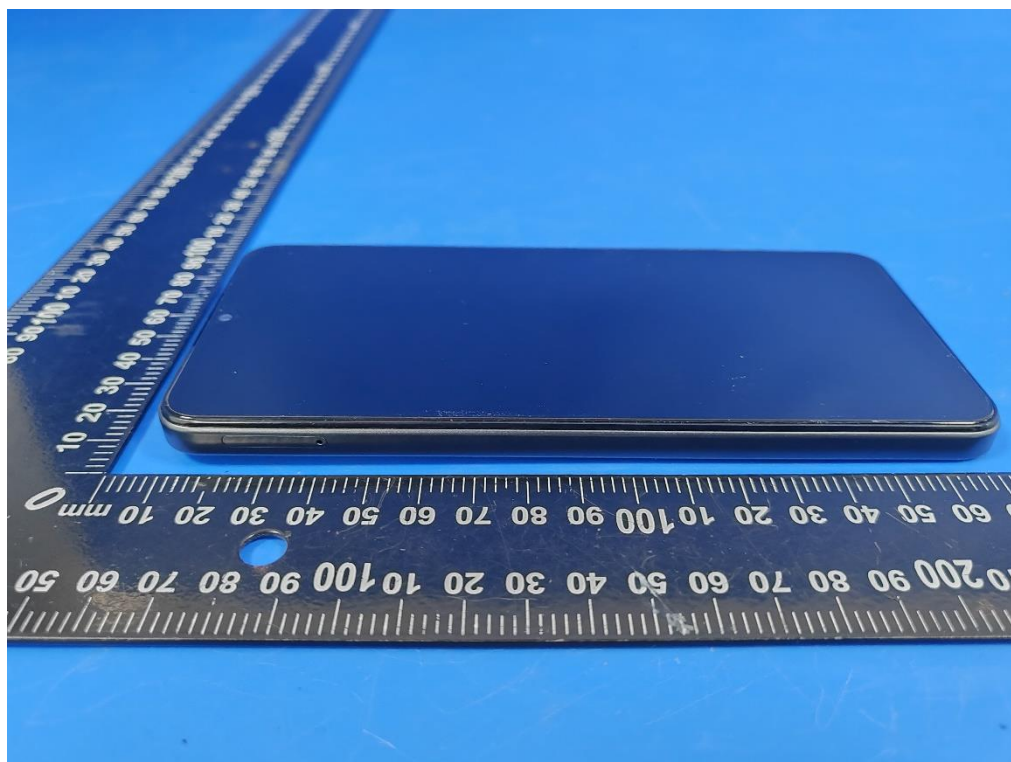




Right Edge

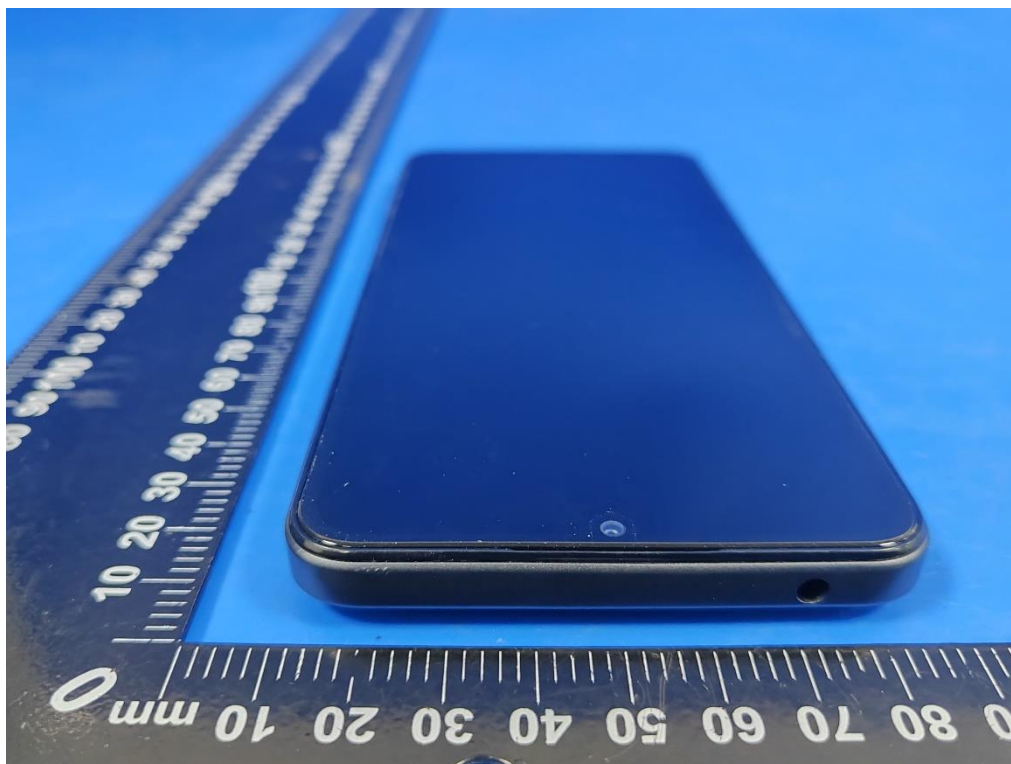


Left Edge





Top Edge

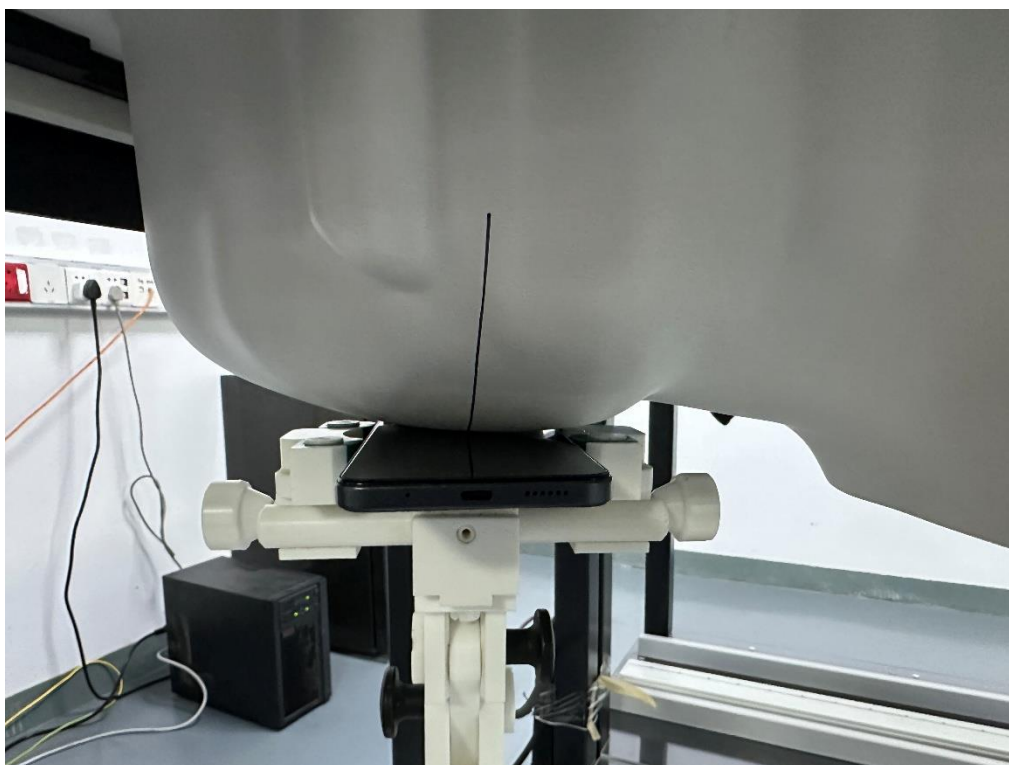


Bottom Edge

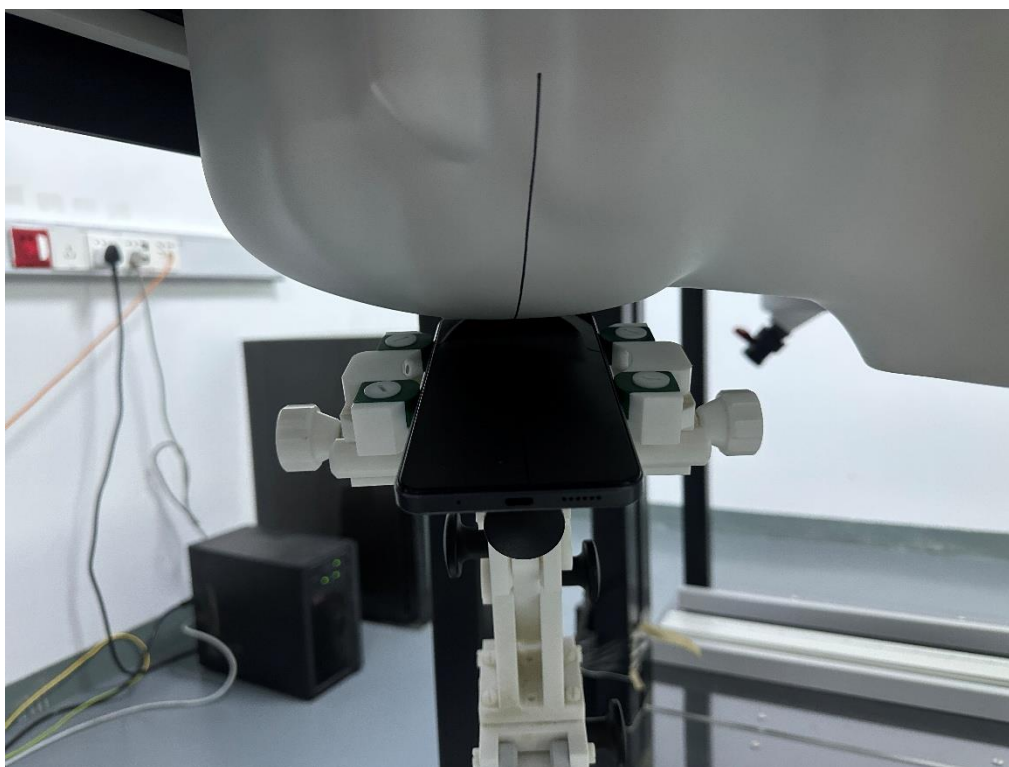


11.2 Setup Photos

Right Touch

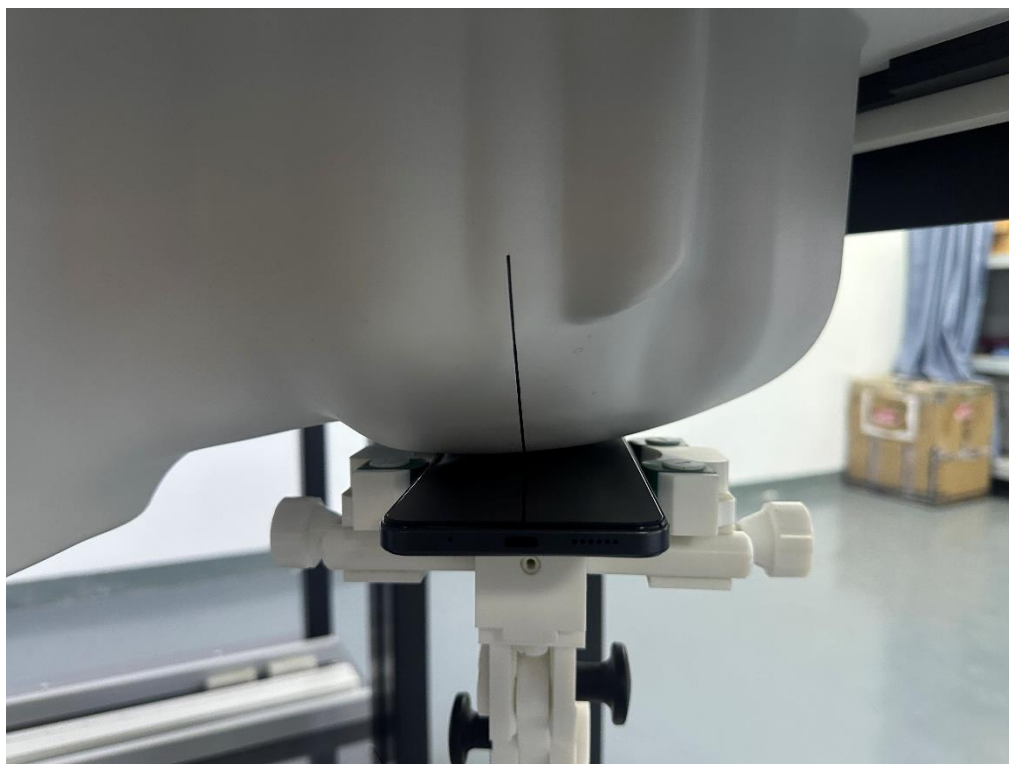


Right Tilt

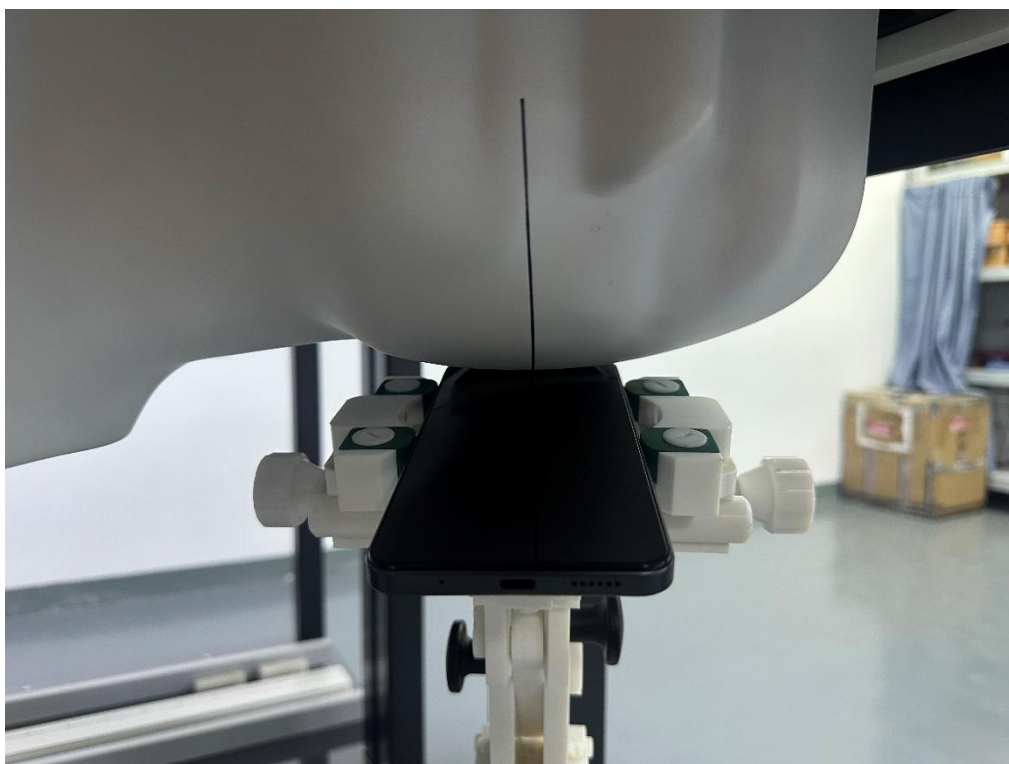




Left Touch

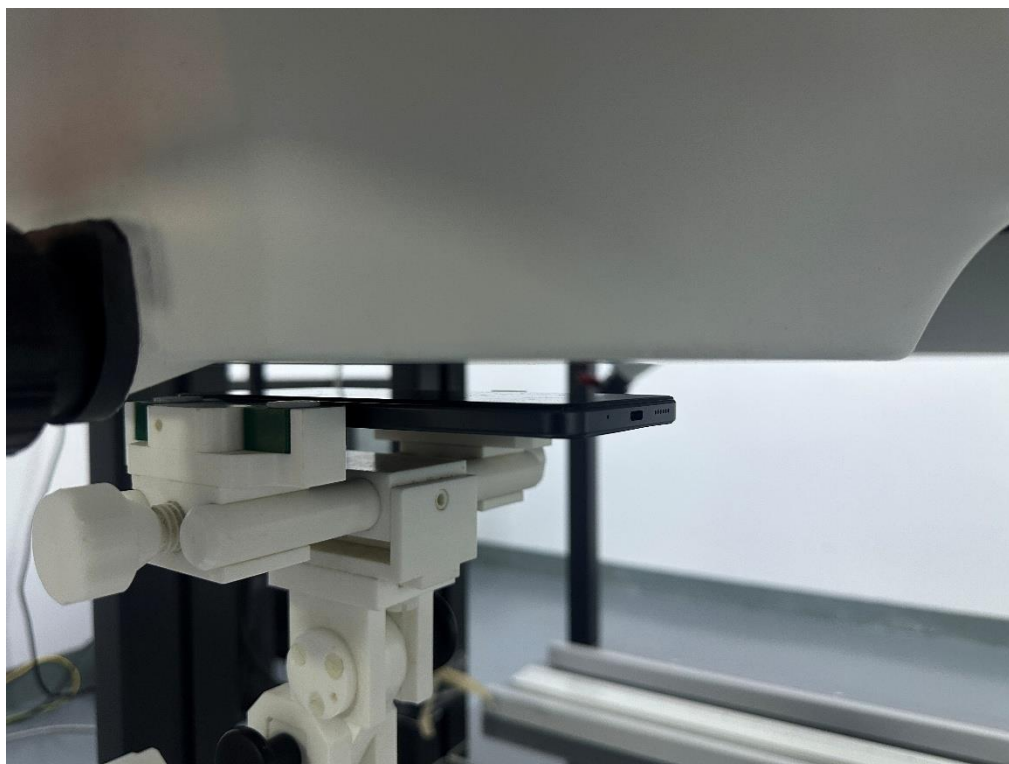


Left Tilt

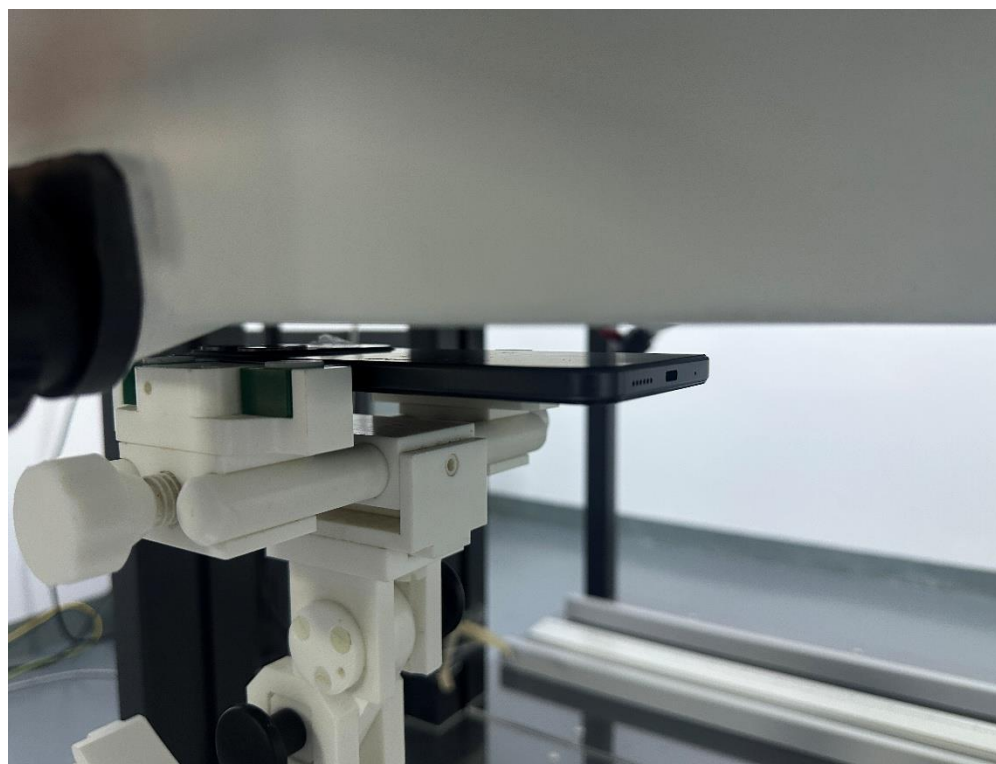




Body Front side (separation distance is 10mm)

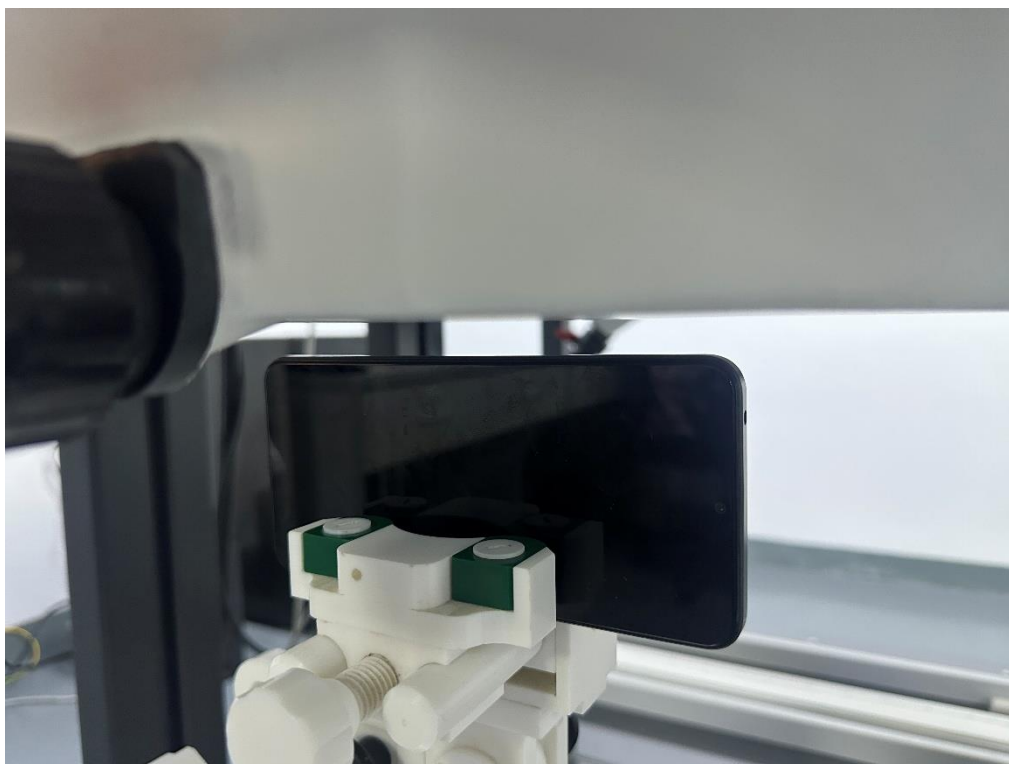


Body Back side (separation distance 10mm)

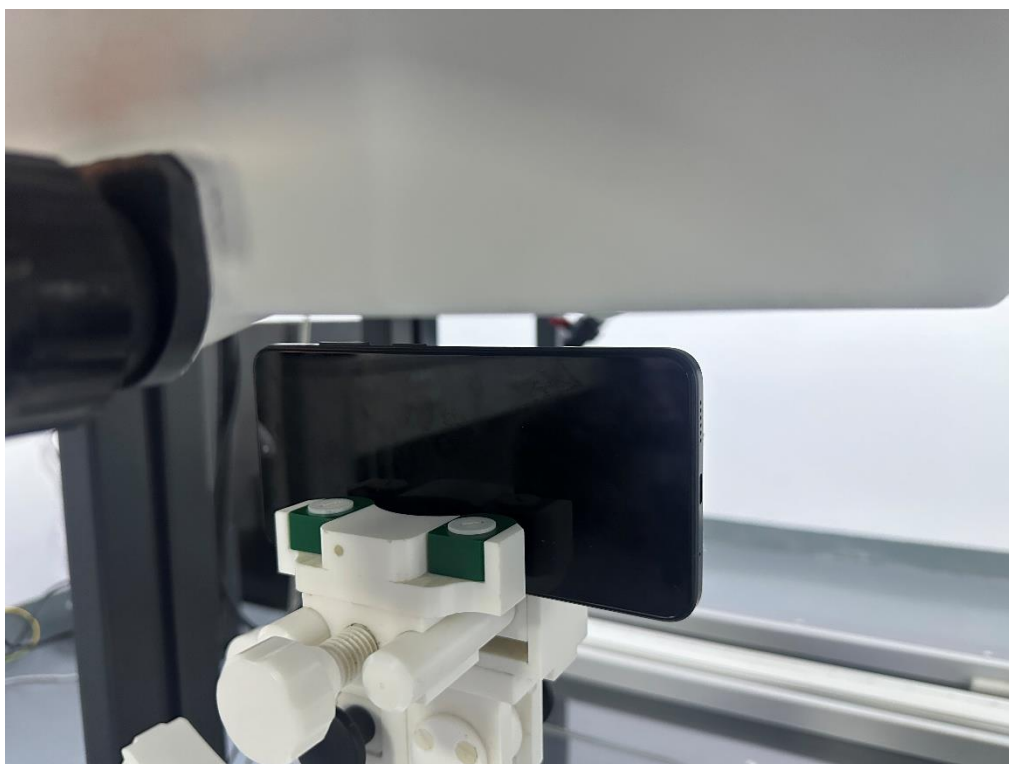




Body Left side (separation distance is 10mm)

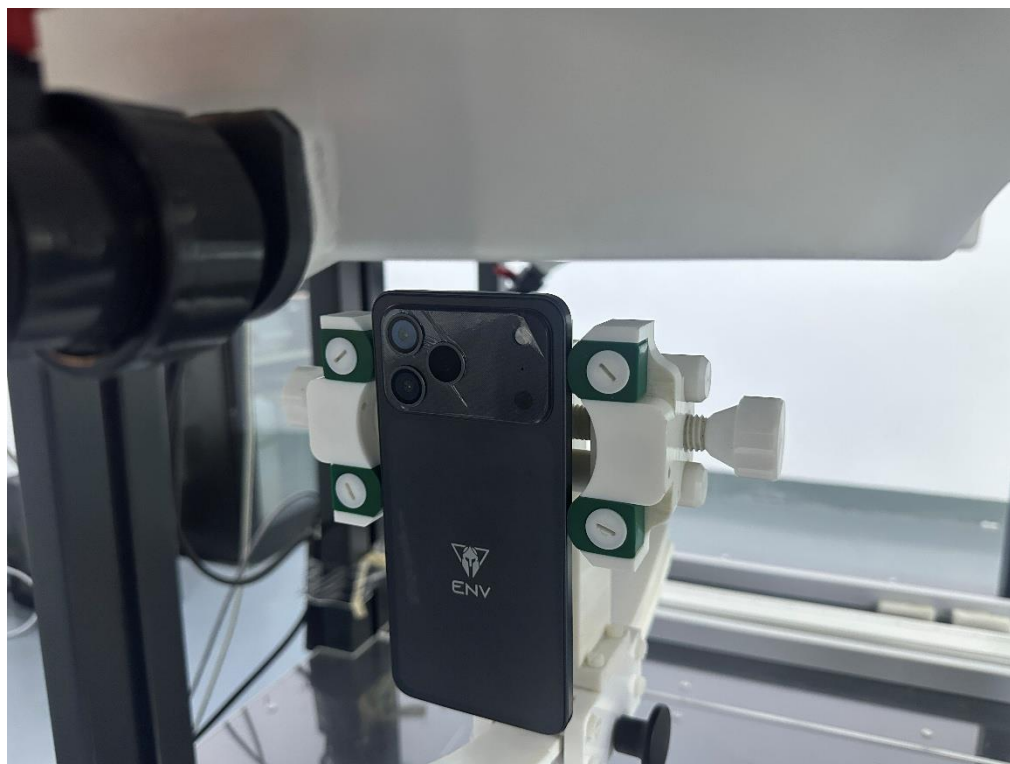


Body Right side (separation distance is 10mm)





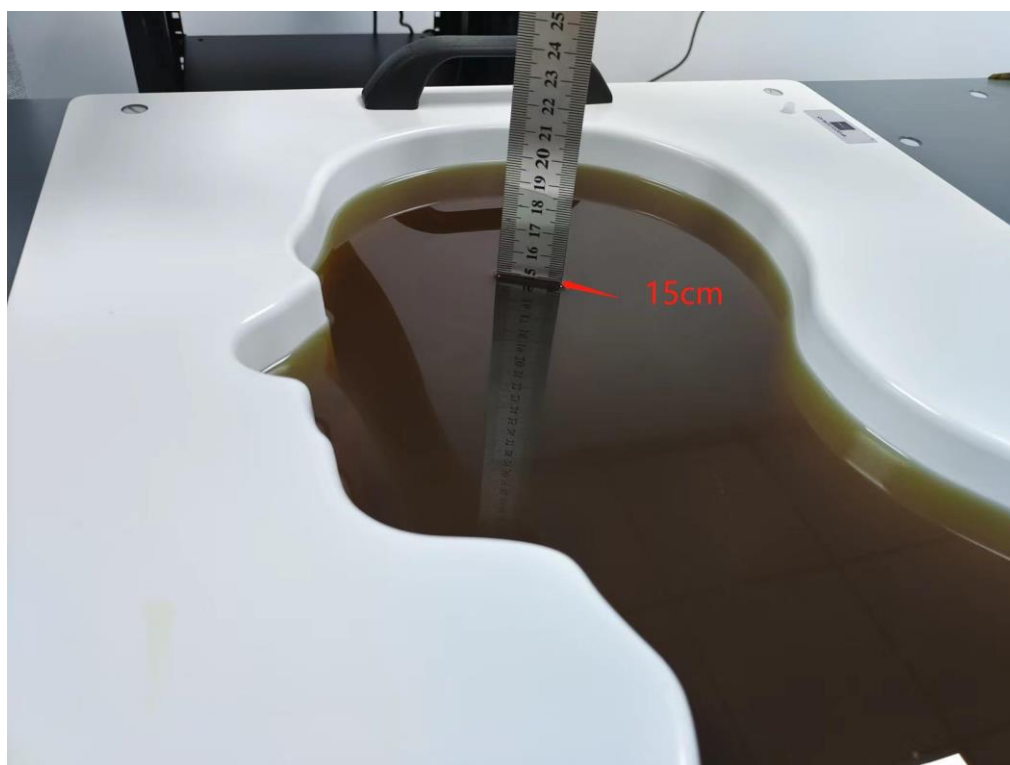
Body Top side (separation distance is 10mm)



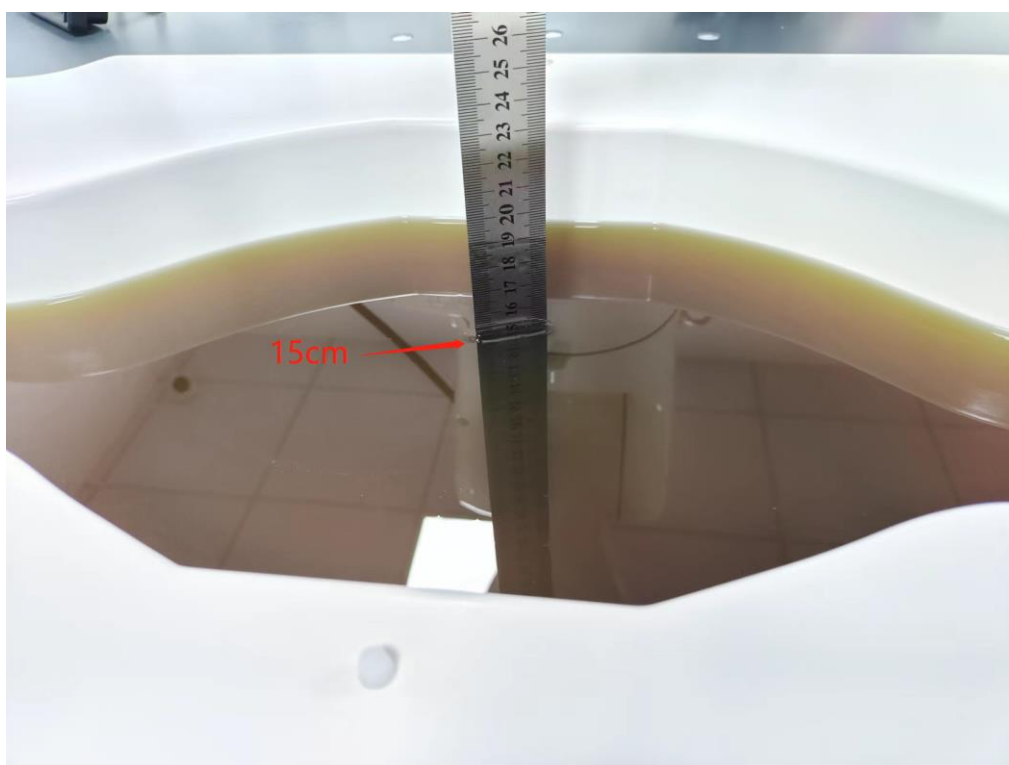
Body Bottom side (separation distance is 10mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GSM	Right Cheek	836.6	0.174	3.22	33.60	33.58	1.005	0.175	/
		Right Tilt	836.6	0.142	-2.94	33.60	33.58	1.005	0.143	/
		Left Cheek	836.6	0.281	0.01	33.60	33.58	1.005	0.282	1
		Left Tilt	836.6	0.146	3.74	33.60	33.58	1.005	0.147	/
PCS 1900	GPRS (GMSK, 1-Slot)	Right Cheek	1850.2	0.05	3.66	30.10	30.05	1.012	0.051	/
		Right Tilt	1850.2	0.041	-3.82	30.10	30.05	1.012	0.041	/
		Left Cheek	1850.2	0.074	-1.02	30.10	30.05	1.012	0.075	3
		Left Tilt	1850.2	0.04	-2.64	30.10	30.05	1.012	0.040	/
WCDMA Band II	HSDPA Subtest-1	Right Cheek	1852.4	0.412	-2.62	24.20	24.13	1.016	0.419	/
		Right Tilt	1852.4	0.212	0.01	24.20	24.13	1.016	0.215	/
		Left Cheek	1852.4	0.747	0.31	24.20	24.13	1.016	0.759	5
		Left Tilt	1852.4	0.378	-2.00	24.20	24.13	1.016	0.384	/
WCDMA Band IV	RMC	Right Cheek	1712.6	0.329	2.48	24.40	24.28	1.028	0.338	/
		Right Tilt	1712.6	0.277	2.71	24.40	24.28	1.028	0.285	/
		Left Cheek	1712.6	0.547	3.34	24.40	24.28	1.028	0.562	7
		Left Tilt	1712.6	0.274	3.13	24.40	24.28	1.028	0.282	/
WCDMA Band V	RMC	Right Cheek	846.6	0.142	2.20	24.10	24.07	1.007	0.143	/
		Right Tilt	846.6	0.114	2.69	24.10	24.07	1.007	0.115	/
		Left Cheek	846.6	0.226	-2.92	24.10	24.07	1.007	0.228	9
		Left Tilt	846.6	0.115	3.48	24.10	24.07	1.007	0.116	/
2.4G WLAN	802.11b	Right Cheek	2437	0.191	0.52	17.00	16.74	1.062	0.203	/
		Right Tilt	2437	0.097	1.98	17.00	16.74	1.062	0.103	/
		Left Cheek	2437	0.493	-2.02	17.00	16.74	1.062	0.523	11
		Left Tilt	2437	0.252	2.57	17.00	16.74	1.062	0.268	/
5.2G WLAN	802.11a	Right Cheek	5180	0.116	1.18	13.60	13.57	1.007	0.117	/
		Right Tilt	5180	0.096	1.44	13.60	13.57	1.007	0.097	/
		Left Cheek	5180	0.187	-1.27	13.60	13.57	1.007	0.188	13
		Left Tilt	5180	0.095	3.79	13.60	13.57	1.007	0.096	/
5.3G WLAN	802.11a	Right Cheek	5320	0.18	0.02	14.20	14.16	1.009	0.182	/
		Right Tilt	5320	0.146	-1.92	14.20	14.16	1.009	0.147	/
		Left Cheek	5320	0.290	-1.56	14.20	14.16	1.009	0.293	15
		Left Tilt	5320	0.148	-3.27	14.20	14.16	1.009	0.149	/
5.6G WLAN	802.11ac-VHT80	Right Cheek	5530	0.292	-2.55	14.20	14.18	1.005	0.293	/
		Right Tilt	5530	0.245	3.12	14.20	14.18	1.005	0.246	/
		Left Cheek	5530	0.479	2.72	14.20	14.18	1.005	0.481	17
		Left Tilt	5530	0.244	-2.37	14.20	14.18	1.005	0.245	/
5.8G WLAN	802.11a	Right Cheek	5785	0.324	-2.13	14.70	14.66	1.009	0.327	/
		Right Tilt	5785	0.274	0.44	14.70	14.66	1.009	0.277	/
		Left Cheek	5785	0.540	-0.72	14.70	14.66	1.009	0.545	19
		Left Tilt	5785	0.272	-2.18	14.70	14.66	1.009	0.275	/



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	0.664	0.77	22.60	22.54	1.014	0.673	/
			50	0	Right Cheek	1860	0.585	0.03	21.50	21.36	1.033	0.604	/
			1	0	Right Tilt	1860	0.505	-1.89	22.60	22.54	1.014	0.512	/
			50	0	Right Tilt	1860	0.447	-2.87	21.50	21.36	1.033	0.462	/
			1	0	Left Cheek	1860	0.948	2.61	22.60	22.54	1.014	0.961	21
			1	0	Left Cheek	1880	0.754	-2.93	22.60	22.11	1.119	0.844	/
			1	0	Left Cheek	1900	0.759	-2.13	22.60	21.63	1.250	0.949	/
			50	0	Left Cheek	1860	0.856	2.97	21.50	21.36	1.033	0.884	/
			50	0	Left Cheek	1880	0.721	3.68	21.50	21.00	1.122	0.809	/
			50	0	Left Cheek	1900	0.648	-0.84	21.50	20.74	1.191	0.772	/
			100	0	Left Cheek	1860	0.811	-3.51	21.30	21.23	1.016	0.824	/
			100	0	Left Cheek	1880	0.703	0.66	21.30	20.97	1.079	0.758	/
			100	0	Left Cheek	1900	0.71	3.65	21.30	20.70	1.148	0.815	/
			1	0	Left Tilt	1860	0.571	1.36	22.60	22.54	1.014	0.579	/
			50	0	Left Tilt	1860	0.427	-3.76	21.50	21.36	1.033	0.441	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1732.5	0.282	-1.31	23.00	22.89	1.026	0.289	/
			50	0	Right Cheek	1720	0.251	2.09	21.70	21.69	1.002	0.252	/
			1	0	Right Tilt	1732.5	0.214	-2.89	23.00	22.89	1.026	0.219	/
			50	0	Right Tilt	1720	0.193	-1.32	21.70	21.69	1.002	0.193	/
			1	0	Left Cheek	1732.5	0.396	-1.54	23.00	22.89	1.026	0.406	23
			50	0	Left Cheek	1720	0.361	-2.45	21.70	21.69	1.002	0.362	/
			1	0	Left Tilt	1732.5	0.241	2.76	23.00	22.89	1.026	0.247	/
			50	0	Left Tilt	1720	0.218	1.50	21.70	21.69	1.002	0.219	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	829	0.116	3.79	24.00	23.94	1.014	0.118	/
			25	0	Right Cheek	829	0.105	1.60	23.00	22.89	1.026	0.108	/
			1	0	Right Tilt	829	0.09	-3.29	24.00	23.94	1.014	0.091	/
			25	0	Right Tilt	829	0.08	1.36	23.00	22.89	1.026	0.082	/
			1	0	Left Cheek	829	0.159	2.16	24.00	23.94	1.014	0.161	25
			25	0	Left Cheek	829	0.148	0.41	23.00	22.89	1.026	0.152	/
			1	0	Left Tilt	829	0.098	2.03	24.00	23.94	1.014	0.099	/
			25	0	Left Tilt	829	0.091	2.71	23.00	22.89	1.026	0.093	/



LTE Band 7	20M	QPSK	1	0	Right Cheek	2510	0.131	0.26	22.00	21.89	1.026	0.134	/
			50	0	Right Cheek	2510	0.116	-1.87	21.00	20.80	1.047	0.121	/
			1	0	Right Tilt	2510	0.1	-3.41	22.00	21.89	1.026	0.103	/
			50	0	Right Tilt	2510	0.089	-2.79	21.00	20.80	1.047	0.093	/
			1	0	Left Cheek	2510	0.186	-3.58	22.00	21.89	1.026	0.191	27
			50	0	Left Cheek	2510	0.171	-0.62	21.00	20.80	1.047	0.179	/
			1	0	Left Tilt	2510	0.112	-3.79	22.00	21.89	1.026	0.115	/
			50	0	Left Tilt	2510	0.105	-1.53	21.00	20.80	1.047	0.110	/
LTE Band 38	20M	QPSK	1	0	Right Cheek	2595	0.074	-1.17	22.00	21.77	1.054	0.078	/
			50	0	Right Cheek	2595	0.068	-2.88	21.00	20.66	1.081	0.074	/
			1	0	Right Tilt	2595	0.056	0.71	22.00	21.77	1.054	0.059	/
			50	0	Right Tilt	2595	0.053	1.54	21.00	20.66	1.081	0.057	/
			1	0	Left Cheek	2595	0.106	1.10	22.00	21.77	1.054	0.112	29
			50	0	Left Cheek	2595	0.097	0.00	21.00	20.66	1.081	0.105	/
			1	0	Left Tilt	2595	0.067	-0.54	22.00	21.77	1.054	0.071	/
			50	0	Left Tilt	2595	0.061	-3.84	21.00	20.66	1.081	0.066	/
LTE Band 40	10M	QPSK	1	0	Right Cheek	2355	0.151	-3.19	21.30	21.21	1.021	0.154	/
			50	0	Right Cheek	2355	0.135	-2.60	20.20	20.15	1.012	0.137	/
			1	0	Right Tilt	2355	0.118	1.37	21.30	21.21	1.021	0.120	/
			50	0	Right Tilt	2355	0.105	0.75	20.20	20.15	1.012	0.106	/
			1	0	Left Cheek	2355	0.210	0.45	21.30	21.21	1.021	0.214	31
			50	0	Left Cheek	2355	0.19	-3.95	20.20	20.15	1.012	0.192	/
			1	0	Left Tilt	2355	0.13	0.73	21.30	21.21	1.021	0.133	/
			50	0	Left Tilt	2355	0.114	2.95	20.20	20.15	1.012	0.115	/
LTE Band 41	20M	QPSK	1	0	Right Cheek	2680	0.063	1.55	22.50	22.46	1.009	0.064	/
			50	0	Right Cheek	2680	0.057	-1.08	21.00	20.90	1.023	0.058	/
			1	0	Right Tilt	2680	0.049	0.33	22.50	22.46	1.009	0.049	/
			50	0	Right Tilt	2680	0.045	-2.62	21.00	20.90	1.023	0.046	/
			1	0	Left Cheek	2680	0.086	-1.72	22.50	22.46	1.009	0.087	33
			50	0	Left Cheek	2680	0.082	-2.68	21.00	20.90	1.023	0.084	/
			1	0	Left Tilt	2680	0.054	-0.95	22.50	22.46	1.009	0.054	/
			50	0	Left Tilt	2680	0.053	-3.69	21.00	20.90	1.023	0.054	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1720	0.244	2.18	22.50	22.46	1.009	0.246	/
			50	0	Right Cheek	1720	0.22	-3.65	21.50	21.41	1.021	0.225	/
			1	0	Right Tilt	1720	0.188	-0.82	22.50	22.46	1.009	0.190	/
			50	0	Right Tilt	1720	0.17	-1.52	21.50	21.41	1.021	0.174	/
			1	0	Left Cheek	1720	0.344	-0.23	22.50	22.46	1.009	0.347	35
			50	0	Left Cheek	1720	0.314	-0.44	21.50	21.41	1.021	0.321	/
			1	0	Left Tilt	1720	0.208	-2.49	22.50	22.46	1.009	0.210	/
			50	0	Left Tilt	1720	0.193	0.96	21.50	21.41	1.021	0.197	/

Note:

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

a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.

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

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



12.2 Body-worn and Hotspot 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-4 Slot	Front Side	836.6	0.596	3.74	30.10	30.04	1.014	0.604	/
		Back Side	824.2	0.908	3.48	30.10	29.47	1.156	1.050	/
		Back Side	836.6	1.044	3.80	30.10	30.04	1.014	1.059	2
		Back Side	848.8	1.009	3.54	30.10	29.92	1.042	1.052	/
		Left Side	836.6	0.516	0.11	30.10	30.04	1.014	0.523	/
		Right Side	836.6	0.43	0.03	30.10	30.04	1.014	0.436	/
		Top Side	836.6	0.101	-1.84	30.10	30.04	1.014	0.102	/
		Bottom Side	836.6	0.251	-1.53	30.10	30.04	1.014	0.254	/
PCS 1900	GPRS Data-4 Slot	Front Side	1850.2	1.083	-1.38	26.50	26.47	1.007	1.091	4
		Front Side	1880	0.840	-2.02	26.50	25.94	1.138	0.956	/
		Front Side	1909.8	0.845	-0.14	26.50	25.43	1.279	1.081	/
		Back Side	1850.2	0.382	0.07	26.50	26.47	1.007	0.385	/
		Left Side	1850.2	0.307	-2.42	26.50	26.47	1.007	0.309	/
		Right Side	1850.2	0.65	0.34	26.50	26.47	1.007	0.655	/
		Bottom Side	1850.2	0.704	2.17	26.50	26.47	1.007	0.709	/
WCDMA Band II	RMC	Front Side	1852.4	0.870	-1.66	24.20	24.13	1.016	0.884	6
		Front Side	1880	0.756	1.61	24.20	23.68	1.127	0.852	/
		Front Side	1907.6	0.761	1.85	24.20	23.56	1.159	0.882	/
		Back Side	1852.4	0.305	-2.48	24.20	24.13	1.016	0.310	/
		Left Side	1852.4	0.248	-2.94	24.20	24.13	1.016	0.252	/
		Right Side	1852.4	0.192	-3.74	24.20	24.13	1.016	0.195	/
		Bottom Side	1852.4	0.669	-3.23	24.20	24.13	1.016	0.680	/
WCDMA Band IV	RMC	Front Side	1712.6	1.056	2.56	24.40	24.28	1.028	1.086	8
		Front Side	1740	0.986	-0.52	24.40	24.06	1.081	1.066	/
		Front Side	1752.4	0.999	-2.02	24.40	24.10	1.072	1.070	/
		Back Side	1712.6	0.371	3.97	24.40	24.28	1.028	0.381	/
		Left Side	1712.6	0.298	3.10	24.40	24.28	1.028	0.306	/
		Right Side	1712.6	0.633	3.00	24.40	24.28	1.028	0.651	/
		Bottom Side	1712.6	0.688	-1.75	24.40	24.28	1.028	0.707	/
WCDMA Band V	RMC	Front Side	846.6	0.290	-2.42	24.10	24.07	1.007	0.292	/
		Back Side	846.6	0.598	0.58	24.10	24.07	1.007	0.602	10
		Left Side	846.6	0.182	-0.50	24.10	24.07	1.007	0.183	/
		Right Side	846.6	0.509	1.61	24.10	24.07	1.007	0.513	/
		Bottom Side	846.6	0.371	-1.75	24.10	24.07	1.007	0.374	/
2.4GHz WLAN	802.11b	Front Side	2437	0.045	1.38	17.00	16.74	1.062	0.048	/
		Back Side	2437	0.102	-1.39	17.00	16.74	1.062	0.108	12
		Right Side	2437	0.029	2.97	17.00	16.74	1.062	0.031	/
		Top Side	2437	0.094	2.08	17.00	16.74	1.062	0.100	/
5.2GHz WLAN	802.11a	Front Side	5180	0.151	1.49	13.60	13.57	1.007	0.152	/
		Back Side	5180	0.258	-3.12	13.60	13.57	1.007	0.260	14
		Right Side	5180	0.11	3.91	13.60	13.57	1.007	0.111	/
		Top Side	5180	0.071	-0.13	13.60	13.57	1.007	0.071	/
5.3GHz WLAN	802.11a	Front Side	5320	0.304	1.18	14.20	14.16	1.009	0.307	/
		Back Side	5320	0.449	-2.45	14.20	14.16	1.009	0.453	16
		Right Side	5320	0.218	-1.58	14.20	14.16	1.009	0.220	/
		Top Side	5320	0.143	-0.32	14.20	14.16	1.009	0.144	/



5.6GHz WLAN	802.11ac-VHT80	Front Side	5530	0.191	-0.07	14.20	14.18	1.005	0.192	/
		Back Side	5530	0.331	-0.86	14.20	14.18	1.005	0.333	18
		Right Side	5530	0.138	-3.71	14.20	14.18	1.005	0.139	/
		Top Side	5530	0.091	0.85	14.20	14.18	1.005	0.091	/
5.8GHz WLAN	802.11a	Front Side	5785	0.16	-3.94	14.70	14.66	1.009	0.161	/
		Back Side	5785	0.280	2.14	14.70	14.66	1.009	0.283	20
		Right Side	5785	0.115	1.03	14.70	14.66	1.009	0.116	/
		Top Side	5785	0.078	2.62	14.70	14.66	1.009	0.079	/

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	0.961	2.77	22.60	22.54	1.014	0.974	22
			1	0	Front side	1880	0.768	-2.51	22.60	22.11	1.119	0.860	/
			1	0	Front side	1900	0.777	1.14	22.60	21.63	1.250	0.971	/
			50	0	Front side	1860	0.871	3.40	21.50	21.36	1.033	0.900	/
			50	0	Front side	1880	0.734	-1.15	21.50	21.00	1.122	0.824	/
			50	0	Front side	1900	0.66	0.62	21.50	20.74	1.191	0.786	/
			100	0	Front side	1860	0.82	-0.01	21.30	21.23	1.016	0.833	/
			100	0	Front side	1880	0.699	-0.76	21.30	20.97	1.079	0.754	/
			100	0	Front side	1900	0.707	-0.55	21.30	20.70	1.148	0.812	/
			1	0	Back Side	1860	0.76	2.91	22.60	22.54	1.014	0.771	/
			50	0	Back Side	1860	0.671	-1.05	21.50	21.36	1.033	0.693	/
			1	0	Left Side	1860	0.742	-1.06	22.60	22.54	1.014	0.752	/
			50	0	Left Side	1860	0.659	-1.42	21.50	21.36	1.033	0.681	/
			1	0	Right Side	1860	0.194	-3.17	22.60	22.54	1.014	0.197	/
			50	0	Right Side	1860	0.17	3.83	21.50	21.36	1.033	0.176	/
			1	0	Bottom Side	1860	0.676	3.55	22.60	22.54	1.014	0.685	/
			50	0	Bottom Side	1860	0.598	0.35	21.50	21.36	1.033	0.618	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	0.735	0.26	23.00	22.89	1.026	0.754	24
			50	0	Front side	1720	0.65	-0.06	21.70	21.69	1.002	0.651	/
			1	0	Back Side	1732.5	0.582	-2.57	23.00	22.89	1.026	0.597	/
			50	0	Back Side	1720	0.515	2.52	21.70	21.69	1.002	0.516	/
			1	0	Left Side	1732.5	0.567	0.62	23.00	22.89	1.026	0.582	/
			50	0	Left Side	1720	0.5	-2.07	21.70	21.69	1.002	0.501	/
			1	0	Right Side	1732.5	0.156	-1.74	23.00	22.89	1.026	0.160	/
			50	0	Right Side	1720	0.136	2.67	21.70	21.69	1.002	0.136	/



			1	0	Bottom Side	1732.5	0.519	3.54	23.00	22.89	1.026	0.532	/
			50	0	Bottom Side	1720	0.461	-2.10	21.70	21.69	1.002	0.462	/
LTE Band 5	10M	QPSK	1	0	Front side	829	0.509	3.75	24.00	23.94	1.014	0.516	/
			25	0	Front side	829	0.45	-0.58	23.00	22.89	1.026	0.462	/
			1	0	Back Side	829	0.725	-2.92	24.00	23.94	1.014	0.735	26
			25	0	Back Side	829	0.64	2.82	23.00	22.89	1.026	0.656	/
			1	0	Left Side	829	0.582	1.72	24.00	23.94	1.014	0.590	/
			25	0	Left Side	829	0.516	-0.92	23.00	22.89	1.026	0.529	/
			1	0	Right Side	829	0.596	-2.43	24.00	23.94	1.014	0.604	/
			25	0	Right Side	829	0.529	-3.55	23.00	22.89	1.026	0.543	/
			1	0	Bottom Side	829	0.582	-1.40	24.00	23.94	1.014	0.590	/
			25	0	Bottom Side	829	0.516	2.69	23.00	22.89	1.026	0.529	/
LTE Band 7	20M	QPSK	1	0	Front side	2510	1.021	-1.35	22.00	21.89	1.026	1.047	28
			1	0	Front side	2535	0.944	2.37	22.00	21.59	1.099	1.037	/
			1	0	Front side	2560	0.956	-0.04	22.00	21.64	1.086	1.039	/
			50	0	Front side	2510	0.921	-2.64	21.00	20.80	1.047	0.964	/
			50	0	Front side	2535	0.821	-2.24	21.00	20.35	1.161	0.954	/
			50	0	Front side	2560	0.879	1.27	21.00	20.62	1.091	0.959	/
			100	0	Front side	2510	0.924	-3.56	21.00	20.85	1.035	0.956	/
			100	0	Front side	2535	0.795	1.91	21.00	20.31	1.172	0.932	/
			100	0	Front side	2560	0.844	-1.59	21.00	20.54	1.112	0.938	/
			1	0	Back Side	2510	0.808	-3.26	22.00	21.89	1.026	0.829	/
			50	0	Back Side	2510	0.715	-1.09	21.00	20.80	1.047	0.749	/
			1	0	Left Side	2510	0.788	2.89	22.00	21.89	1.026	0.808	/
			50	0	Left Side	2510	0.694	0.06	21.00	20.80	1.047	0.727	/
			1	0	Right Side	2510	0.214	-2.32	22.00	21.89	1.026	0.219	/
			50	0	Right Side	2510	0.188	-3.62	21.00	20.80	1.047	0.197	/
			1	0	Bottom Side	2510	0.715	0.66	22.00	21.89	1.026	0.733	/
			50	0	Bottom Side	2510	0.631	-1.91	21.00	20.80	1.047	0.661	/
LTE Band 38	20M	QPSK	1	0	Front side	2595	0.388	2.13	22.00	21.77	1.054	0.409	30
			50	0	Front side	2595	0.346	2.04	21.00	20.66	1.081	0.374	/
			1	0	Back Side	2595	0.306	2.40	22.00	21.77	1.054	0.323	/
			50	0	Back Side	2595	0.272	0.11	21.00	20.66	1.081	0.294	/



			1	0	Left Side	2595	0.301	3.80	22.00	21.77	1.054	0.317	/
			50	0	Left Side	2595	0.27	0.99	21.00	20.66	1.081	0.292	/
			1	0	Right Side	2595	0.083	0.53	22.00	21.77	1.054	0.088	/
			50	0	Right Side	2595	0.071	1.66	21.00	20.66	1.081	0.077	/
			1	0	Bottom Side	2595	0.274	0.32	22.00	21.77	1.054	0.289	/
			50	0	Bottom Side	2595	0.247	3.36	21.00	20.66	1.081	0.267	/
LTE Band 40	10M	QPSK	1	0	Front side	2355	0.536	3.39	21.30	21.21	1.021	0.547	32
			50	0	Front side	2355	0.476	1.31	20.20	20.15	1.012	0.482	/
			1	0	Back Side	2355	0.424	-1.98	21.30	21.21	1.021	0.433	/
			50	0	Back Side	2355	0.378	1.36	20.20	20.15	1.012	0.382	/
			1	0	Left Side	2355	0.415	-1.13	21.30	21.21	1.021	0.424	/
			50	0	Left Side	2355	0.367	3.78	20.20	20.15	1.012	0.371	/
			1	0	Right Side	2355	0.116	2.63	21.30	21.21	1.021	0.118	/
			50	0	Right Side	2355	0.1	2.88	20.20	20.15	1.012	0.101	/
			50	0	Top Side	2355	0.358	3.29	20.20	20.15	1.012	0.362	/
			1	0	Bottom Side	2355	0.377	1.00	21.30	21.21	1.021	0.385	/
LTE Band 41	20M	QPSK	1	0	Front side	2680	0.393	-1.26	22.50	22.46	1.009	0.397	34
			50	0	Front side	2680	0.347	1.38	21.00	20.90	1.023	0.355	/
			1	0	Back Side	2680	0.312	3.58	22.50	22.46	1.009	0.315	/
			50	0	Back Side	2680	0.277	-0.69	21.00	20.90	1.023	0.283	/
			1	0	Left Side	2680	0.306	-0.84	22.50	22.46	1.009	0.309	/
			50	0	Left Side	2680	0.271	-1.32	21.00	20.90	1.023	0.277	/
			1	0	Right Side	2680	0.088	-0.49	22.50	22.46	1.009	0.089	/
			50	0	Right Side	2680	0.076	0.75	21.00	20.90	1.023	0.078	/
			1	0	Bottom Side	2680	0.277	2.29	22.50	22.46	1.009	0.280	/
			50	0	Bottom Side	2680	0.247	3.46	21.00	20.90	1.023	0.253	/
LTE Band 66	20M	QPSK	1	0	Front side	1720	0.826	-1.36	22.50	22.46	1.009	0.834	36
			1	0	Front side	1745	0.694	0.58	22.50	22.10	1.096	0.761	/
			1	0	Front side	1770	0.701	3.75	22.50	21.79	1.178	0.826	/
			50	0	Front side	1720	0.73	-3.19	21.50	21.41	1.021	0.745	/
			1	0	Back Side	1720	0.652	0.60	22.50	22.46	1.009	0.658	/
			50	0	Back Side	1720	0.578	3.33	21.50	21.41	1.021	0.590	/
			1	0	Left Side	1720	0.636	-1.70	22.50	22.46	1.009	0.642	/



			50	0	Left Side	1720	0.565	1.29	21.50	21.41	1.021	0.577	/
			1	0	Right Side	1720	0.177	-2.09	22.50	22.46	1.009	0.179	/
			50	0	Right Side	1720	0.153	-1.44	21.50	21.41	1.021	0.156	/
			1	0	Bottom Side	1720	0.579	-3.50	22.50	22.46	1.009	0.584	/
			50	0	Bottom Side	1720	0.512	-0.37	21.50	21.41	1.021	0.523	/

Note:

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



12.3 Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
GSM 850	GPRS Data-4 Slot	Back Side	824.2	0.875	-1.10	30.10	29.47	1.156	1.012
		Back Side	836.6	1.033	2.99	30.10	30.04	1.014	1.047
		Back Side	848.8	0.959	-1.50	30.10	29.92	1.042	0.999
PCS 1900	GPRS Data-4 Slot	Front Side	1850.2	1.031	-1.20	26.50	26.47	1.007	1.038
		Front Side	1880	0.812	-0.07	26.50	25.94	1.138	0.924
		Front Side	1909.8	0.845	-3.77	26.50	25.43	1.279	1.081
WCDMA Band II	RMC	Front Side	1852.4	0.870	-1.40	24.20	24.13	1.016	0.884
		Front Side	1880	0.747	-3.01	24.20	23.68	1.127	0.842
		Front Side	1907.6	0.725	-3.16	24.20	23.56	1.159	0.840
WCDMA Band IV	RMC	Front Side	1712.6	1.056	0.21	24.40	24.28	1.028	1.086
		Front Side	1740	0.966	3.12	24.40	24.06	1.081	1.044
		Front Side	1752.4	0.971	-0.10	24.40	24.10	1.072	1.041

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)
LTE Band 2	20M	QPSK	1	0	Left Cheek	1860	0.918	-2.59	22.60	22.54	1.014	0.931
			1	0	Left Cheek	1880	0.727	3.71	22.60	22.11	1.119	0.814
			1	0	Left Cheek	1900	0.758	-3.72	22.60	21.63	1.250	0.948
			50	0	Left Cheek	1860	0.820	3.89	21.50	21.36	1.033	0.847
			50	0	Left Cheek	1880	0.701	-0.90	21.50	21.00	1.122	0.787
			50	0	Left Cheek	1900	0.622	1.62	21.50	20.74	1.191	0.741
			100	0	Left Cheek	1860	0.771	3.85	21.30	21.23	1.016	0.783
			100	0	Left Cheek	1880	0.672	-2.10	21.30	20.97	1.079	0.725
			100	0	Left Cheek	1900	0.675	-1.27	21.30	20.70	1.148	0.775
LTE Band 2	20M	QPSK	1	0	Front side	1860	0.928	-1.27	22.60	22.54	1.014	0.941
			1	0	Front side	1880	0.764	0.25	22.60	22.11	1.119	0.855
			1	0	Front side	1900	0.767	-3.64	22.60	21.63	1.250	0.959
			50	0	Front side	1860	0.867	-3.86	21.50	21.36	1.033	0.896
			50	0	Front side	1880	0.710	0.22	21.50	21.00	1.122	0.797
			50	0	Front side	1900	0.650	1.63	21.50	20.74	1.191	0.774
			100	0	Front side	1860	0.796	0.65	21.30	21.23	1.016	0.809
			100	0	Front side	1880	0.699	0.35	21.30	20.97	1.079	0.754
			100	0	Front side	1900	0.679	-3.10	21.30	20.70	1.148	0.779
LTE Band 7	20M	QPSK	1	0	Front side	2510	0.976	-1.00	22.00	21.89	1.026	1.001



			1	0	Front side	2535	0.926	3.24	22.00	21.59	1.099	1.018
			1	0	Front side	2560	0.919	-0.72	22.00	21.64	1.086	0.998
			50	0	Front side	2510	0.877	2.31	21.00	20.80	1.047	0.918
			50	0	Front side	2535	0.785	2.90	21.00	20.35	1.161	0.911
			50	0	Front side	2560	0.859	-2.45	21.00	20.62	1.091	0.937
			100	0	Front side	2510	0.916	2.68	21.00	20.85	1.035	0.948
			100	0	Front side	2535	0.789	-3.75	21.00	20.31	1.172	0.925
			100	0	Front side	2560	0.832	2.29	21.00	20.54	1.112	0.925
LTE Band 66	20M	QPSK	1	0	Front side	1720	0.823	2.31	22.50	22.46	1.009	0.830
			1	0	Front side	1745	0.690	3.87	22.50	22.10	1.096	0.756
			1	0	Front side	1770	0.668	-0.58	22.50	21.79	1.178	0.787

12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g (W/kg)	1 st Repeated SAR 1g	Ratio
GSM 850	GPRS Data-4 Slot	Back Side	824.2	0.908	0.875	1.038
		Back Side	836.6	1.044	1.033	1.010
		Back Side	848.8	1.009	0.959	1.052
PCS 1900	GPRS Data-4 Slot	Front Side	1850	1.083	1.031	1.051
		Front Side	1880	0.840	0.812	1.035
		Front Side	1910	0.845	0.845	1.000
WCDMA Band II	RMC	Front Side	1852	0.870	0.870	1.000
		Front Side	1880	0.756	0.747	1.013
		Front Side	1908	0.761	0.725	1.049
WCDMA Band IV	RMC	Front Side	1713	1.056	1.056	1.000
		Front Side	1740	0.986	0.966	1.021
		Front Side	1752	0.999	0.971	1.029

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g (W/kg) 1g (W/Kg)	1 st Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Left Cheek	1860	0.948	0.918	1.032
			1	0	Left Cheek	1880	0.755	0.727	1.038
			1	0	Left Cheek	1900	0.761	0.758	1.004
			50	0	Left Cheek	1860	0.856	0.820	1.044
			50	0	Left Cheek	1880	0.722	0.701	1.030
			50	0	Left Cheek	1900	0.647	0.622	1.040
			100	0	Left Cheek	1860	0.807	0.771	1.047
			100	0	Left Cheek	1880	0.698	0.672	1.039
LTE Band 2	20M	QPSK	100	0	Left Cheek	1900	0.703	0.675	1.041
			1	0	Front side	1860	0.961	0.928	1.036
			1	0	Front side	1880	0.768	0.764	1.005



			1	0	Front side	1900	0.777	0.767	1.013
			50	0	Front side	1860	0.868	0.867	1.002
			50	0	Front side	1880	0.732	0.710	1.030
			50	0	Front side	1900	0.664	0.650	1.021
			100	0	Front side	1860	0.818	0.796	1.028
			100	0	Front side	1880	0.7	0.699	1.001
			100	0	Front side	1900	0.707	0.679	1.042
LTE Band 7	20M	QPSK	1	0	Front side	2510	1.021	0.976	1.046
			1	0	Front side	2535	0.944	0.926	1.019
			1	0	Front side	2560	0.956	0.919	1.040
			50	0	Front side	2510	0.923	0.877	1.052
			50	0	Front side	2535	0.821	0.785	1.046
			50	0	Front side	2560	0.879	0.859	1.023
			100	0	Front side	2510	0.919	0.916	1.004
			100	0	Front side	2535	0.795	0.789	1.007
			100	0	Front side	2560	0.844	0.832	1.015
LTE Band 66	20M	QPSK	1	0	Front side	1720	0.826	0.823	1.004
			1	0	Front side	1745	0.694	0.690	1.006
			1	0	Front side	1770	0.701	0.668	1.049

Note:

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



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
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) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $>50 \text{ mm}$.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	0.5	1.122	5	2.48	0.047
	Body			5	2.48	0.047



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN	Head	GSM	0.282	0.805
		2.4G WLAN	0.523	
	Body	GSM	1.091	1.199
		2.4G WLAN	0.108	
GSM + Bluetooth	Head	GSM	0.282	0.329
		BT	0.047	
	Body	GSM	1.091	1.138
		BT	0.047	
GSM + 5G WLAN	Head	GSM	0.282	0.827
		5G WLAN	0.545	
	Body	GSM	1.091	1.544
		5G WLAN	0.453	
WCDMA + 2.4G WLAN	Head	WCDMA	0.759	1.282
		2.4G WLAN	0.523	
	Body	WCDMA	1.086	1.194
		2.4G WLAN	0.108	
WCDMA + Bluetooth	Head	WCDMA	0.759	0.806
		BT	0.047	
	Body	WCDMA	1.086	1.133
		BT	0.047	
WCDMA + 5G WLAN	Head	WCDMA	0.759	1.304
		5G WLAN	0.545	
	Body	WCDMA	1.086	1.539
		5G WLAN	0.453	
LTE + 2.4G WLAN	Head	LTE	0.961	1.484
		2.4G WLAN	0.523	
	Body	LTE	1.047	1.155
		2.4G WLAN	0.108	
LTE + Bluetooth	Head	LTE	0.961	1.008
		BT	0.047	
	Body	LTE	1.047	1.094
		BT	0.047	
LTE + 5G WLAN	Head	LTE	0.961	1.506
		5G WLAN	0.545	
	Body	LTE	1.047	1.500
		5G WLAN	0.453	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.05.22	2028.05.21
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04



Appendix A. System Validation Plots

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

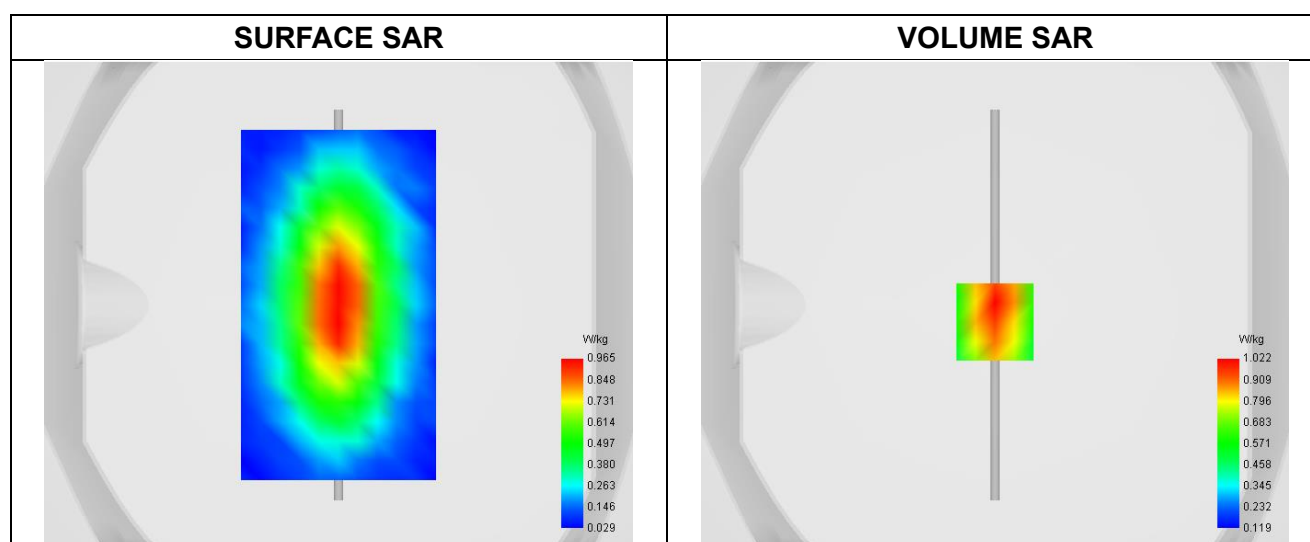
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-11-18

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.08
Conductivity (S/m)	0.91
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

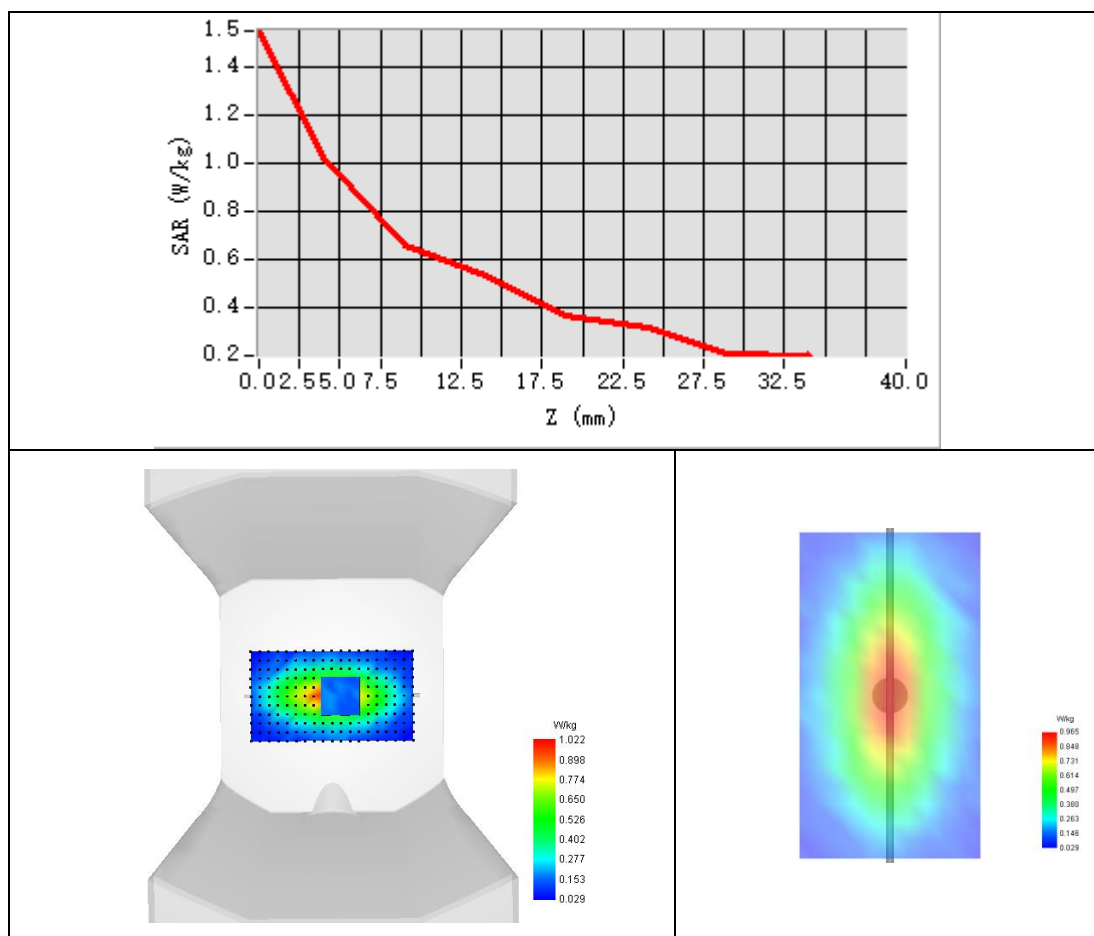


Maximum location: X=0.00, Y=-7.00 ; SAR Peak: 1.49 W/kg

SAR 10g (W/Kg)	0.603
SAR 1g (W/Kg)	0.916



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

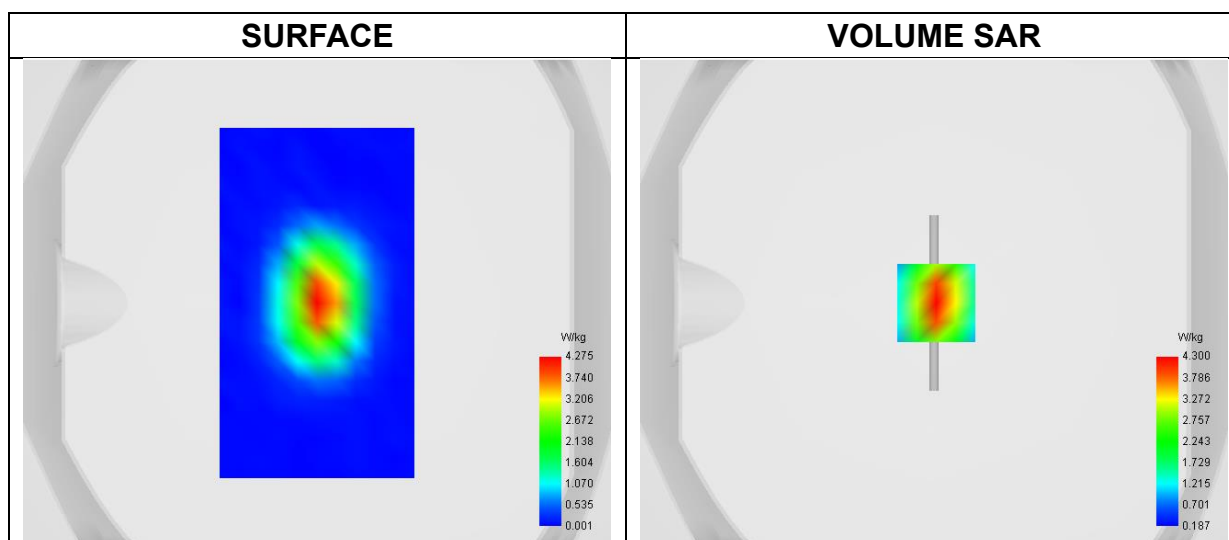
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.50
Conductivity (S/m)	1.37
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

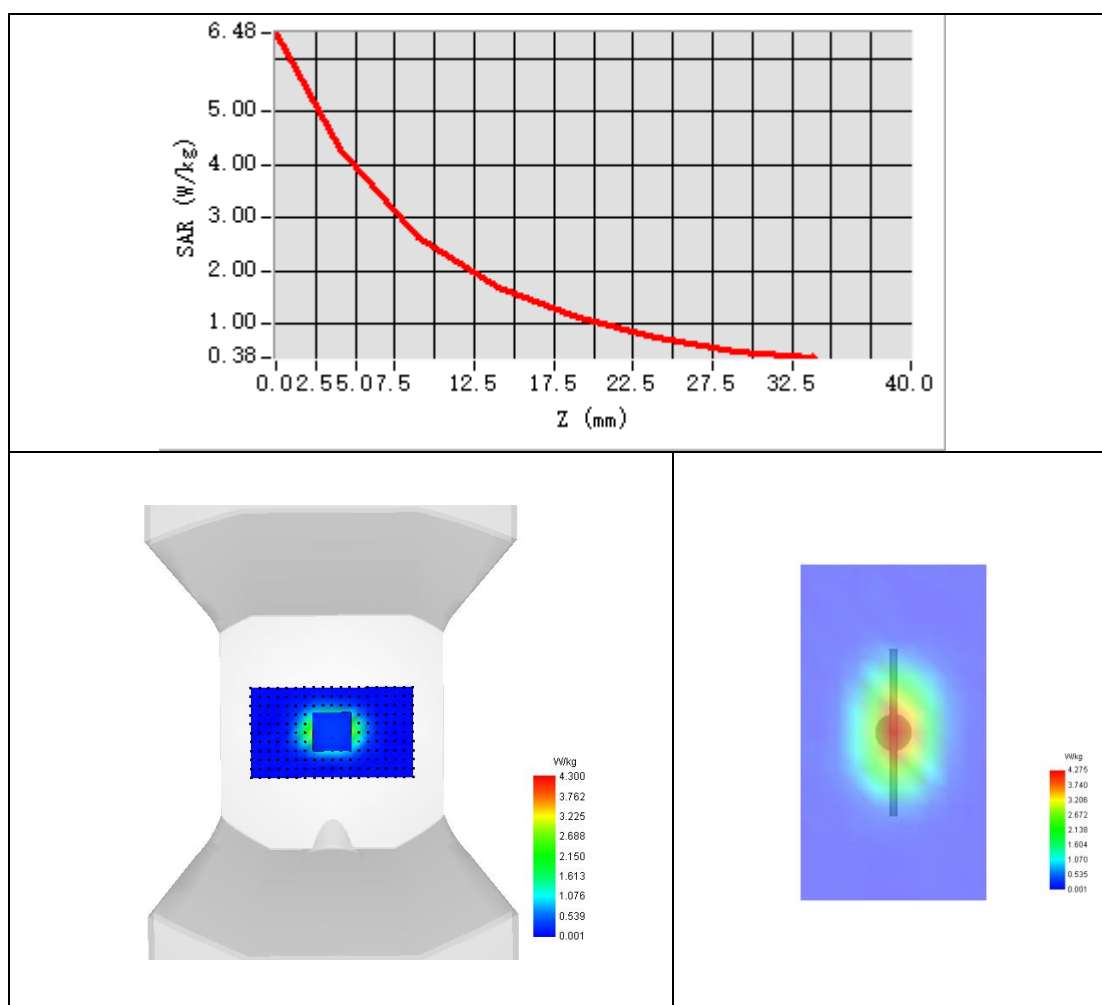


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.41 W/kg

SAR 10g (W/Kg)	1.927
SAR 1g (W/Kg)	3.669



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

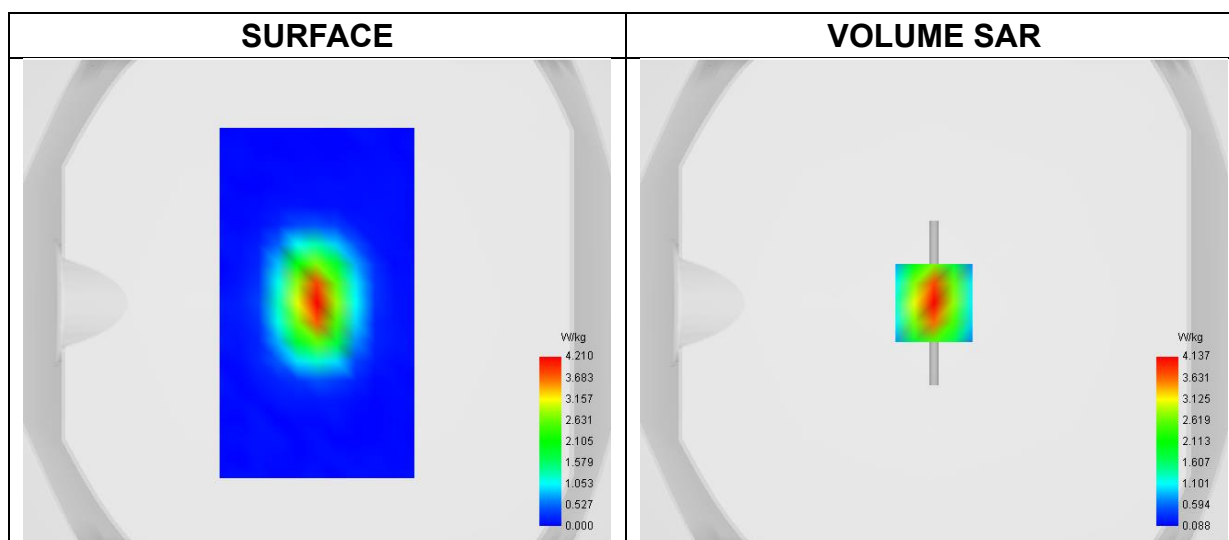
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-21

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.31
Conductivity (S/m)	1.39
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

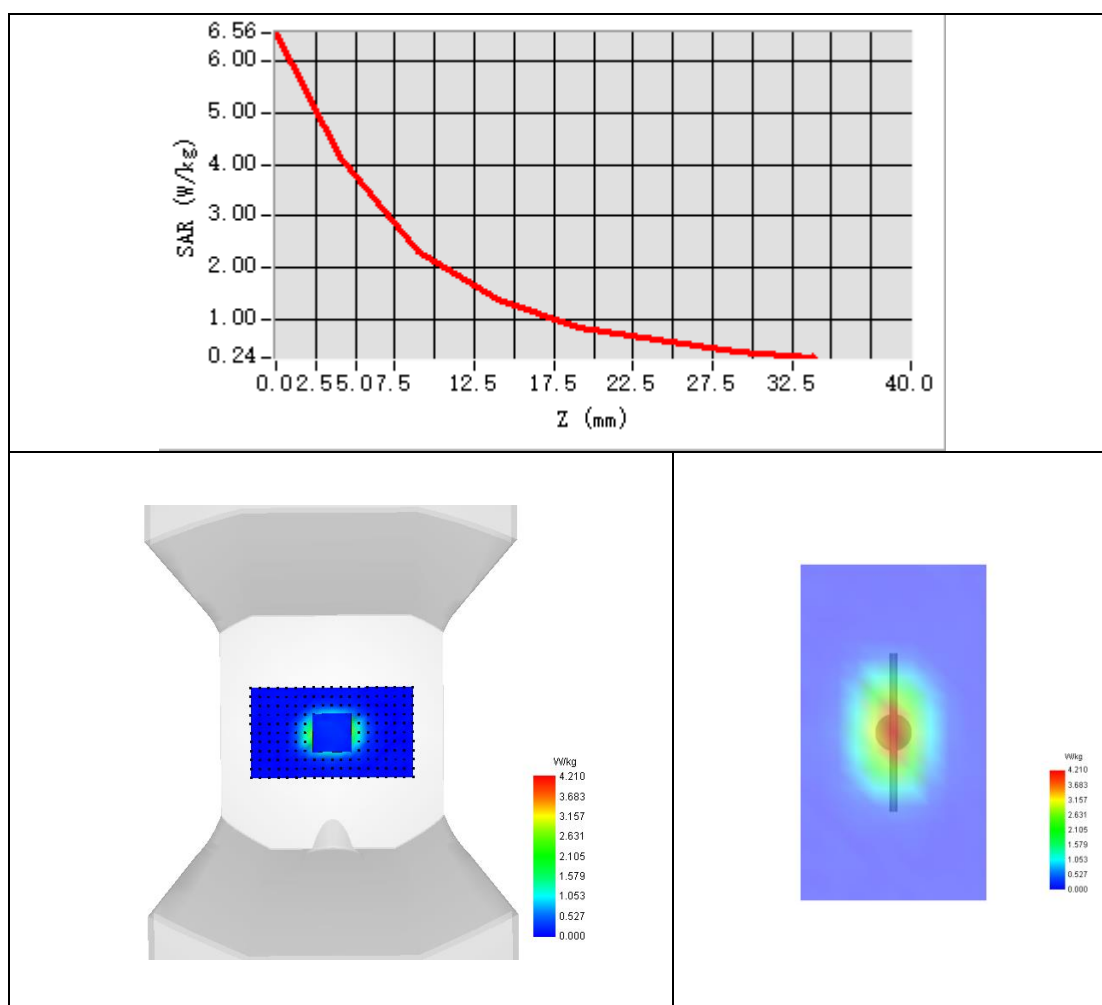


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.51 W/kg

SAR 10g (W/Kg)	2.080
SAR 1g (W/Kg)	4.019



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

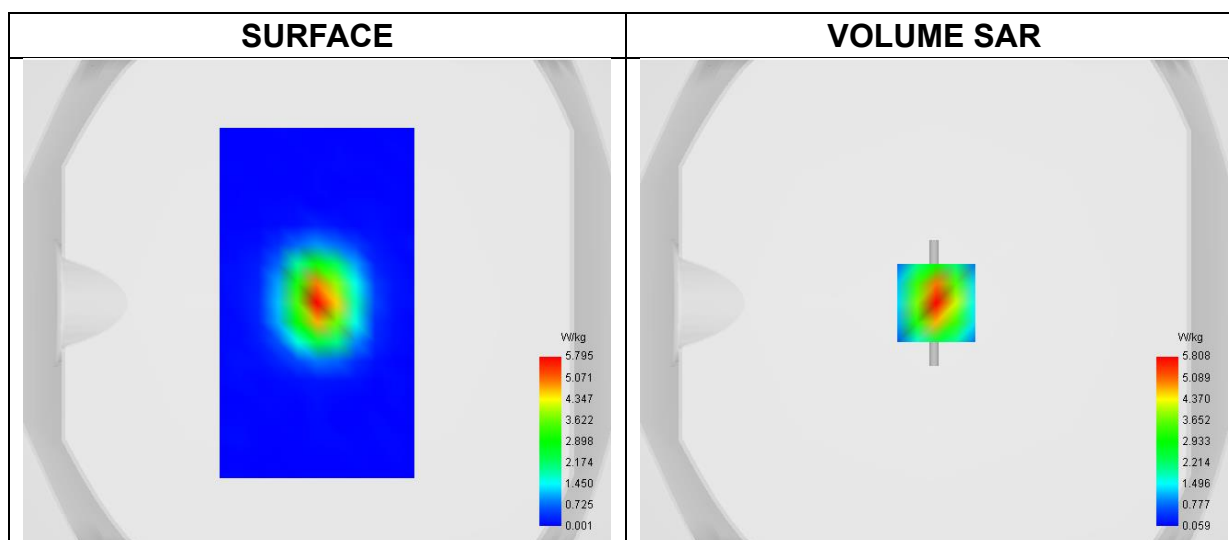
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.45
Conductivity (S/m)	1.81
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

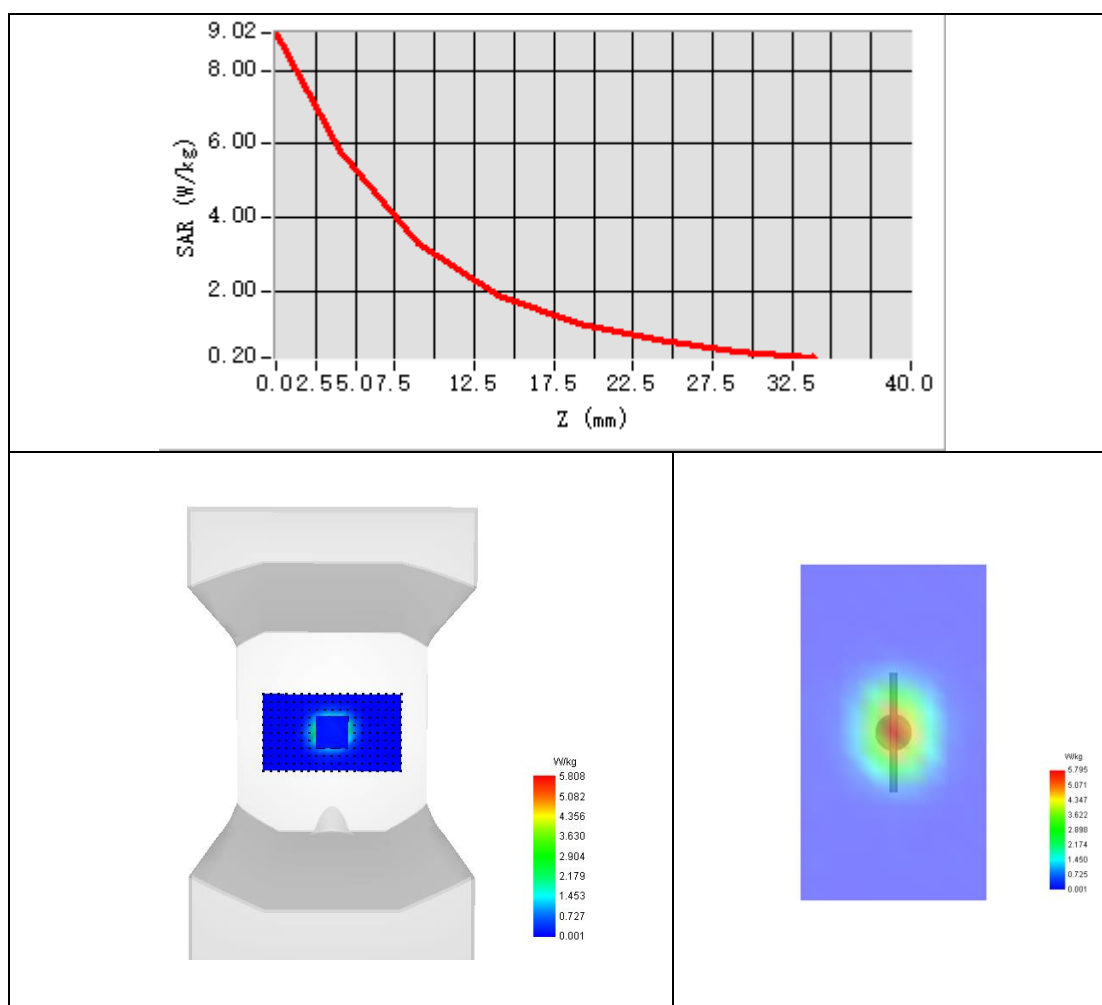


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.89 W/kg

SAR 10g (W/Kg)	2.496
SAR 1g (W/Kg)	5.308



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

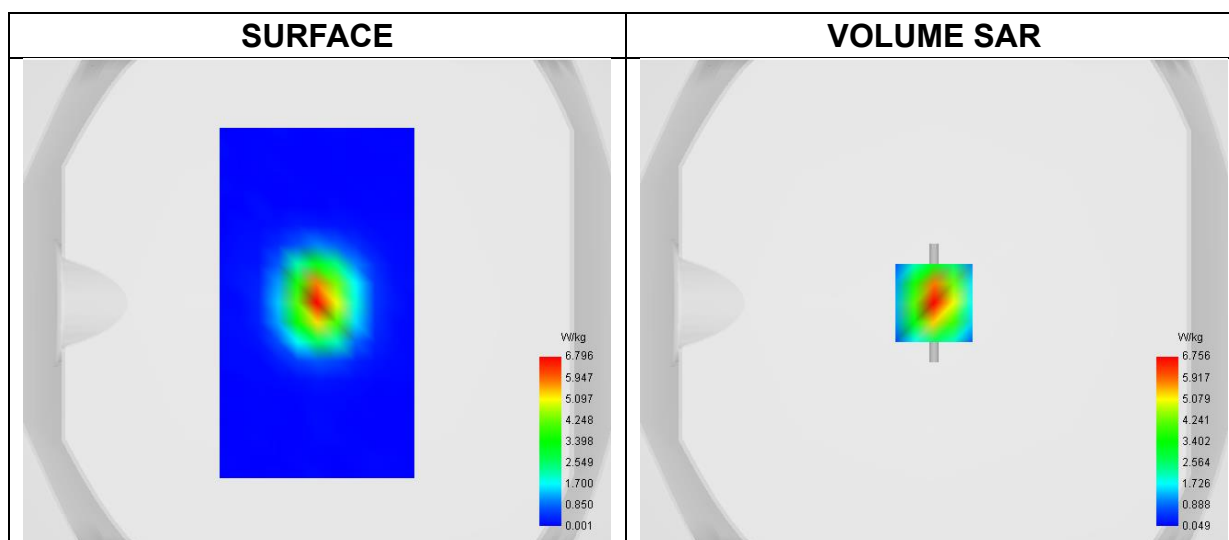
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	40.04
Conductivity (S/m)	2.02
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

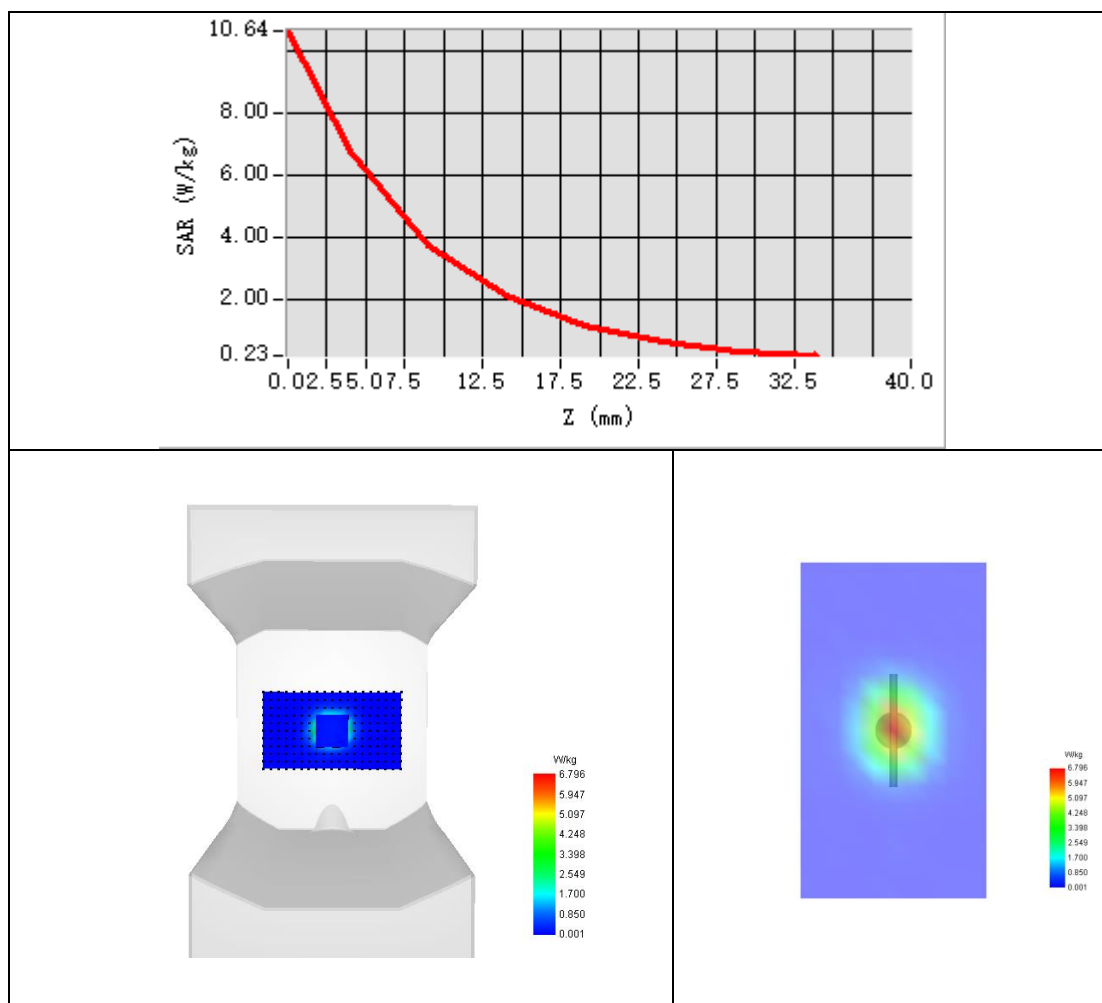


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.62 W/kg

SAR 10g (W/Kg)	2.559
SAR 1g (W/Kg)	5.637



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

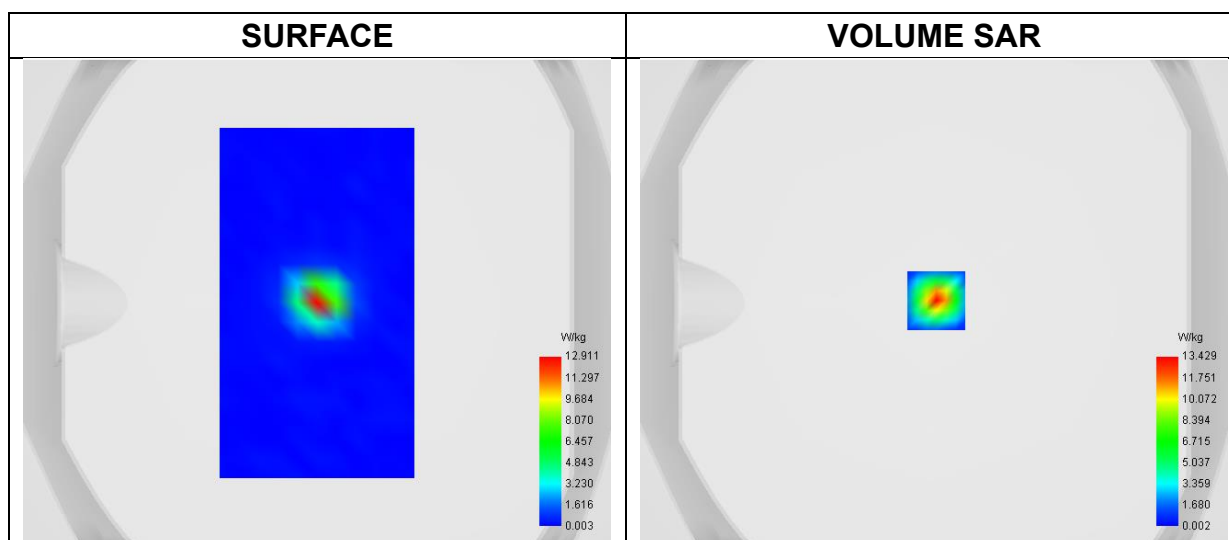
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.70
Conductivity (S/m)	4.58
Probe	2225-EPGO-450
ConvF	1.58
Crest factor:	1:1

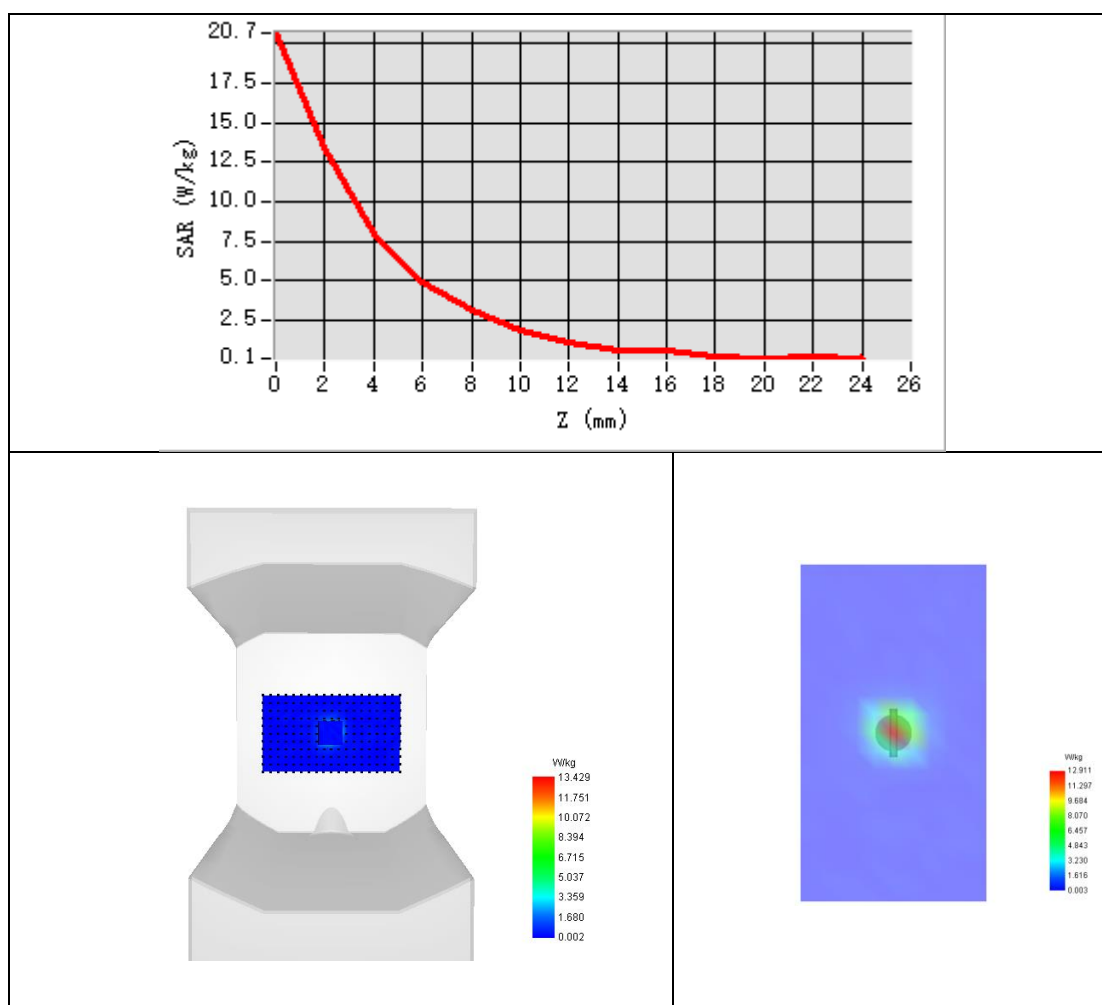


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 21.72 W/kg

SAR 10g (W/Kg)	2.269
SAR 1g (W/Kg)	7.812



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

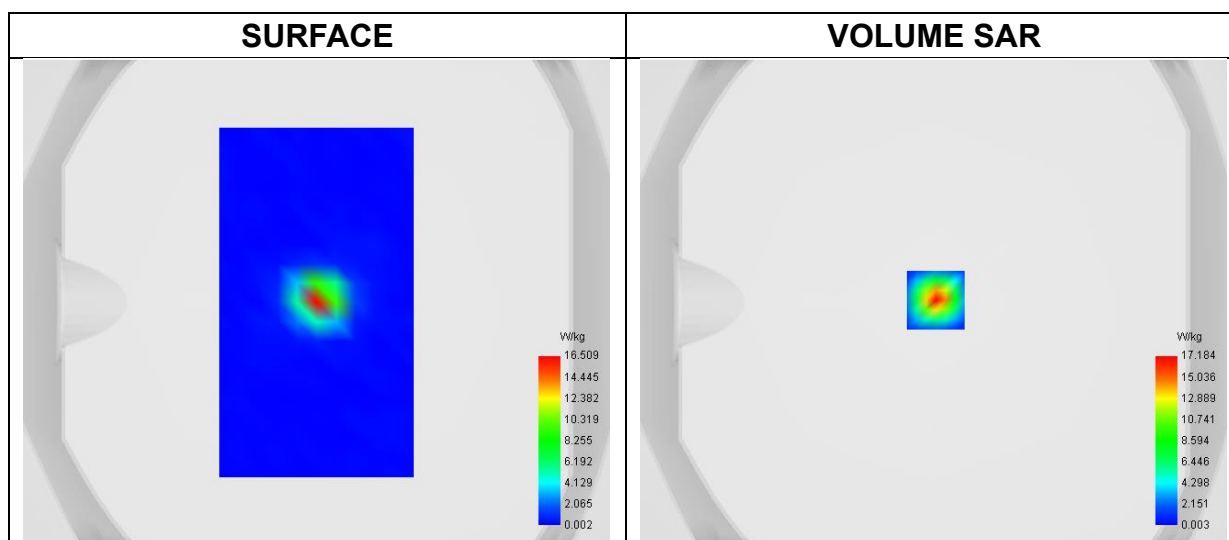
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-17

Experimental conditions.

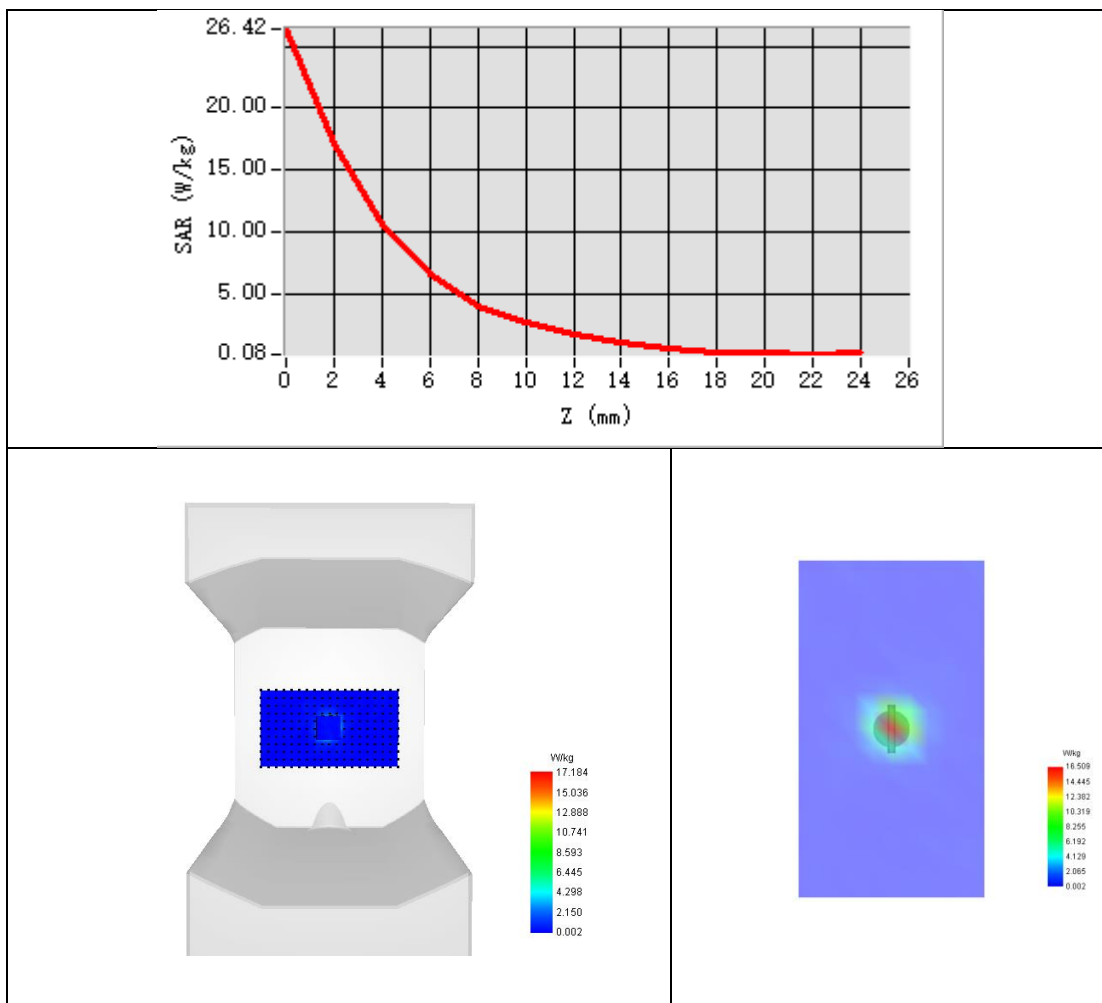
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.36
Conductivity (S/m)	4.83
Probe	2225-EPGO-450
ConvF	1.60
Crest factor:	1:1



Maximum location: X=1.00, Y=1.00 ; SAR Peak: 26.39 W/kg

SAR 10g (W/Kg)	2.210
SAR 1g (W/Kg)	7.678

Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

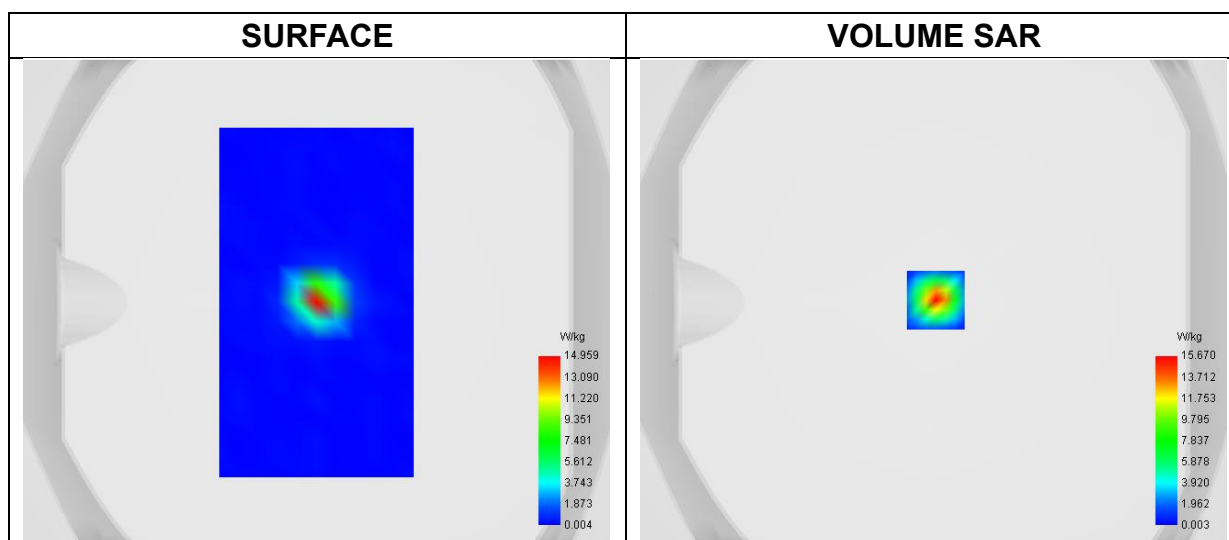
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-15

Experimental conditions.

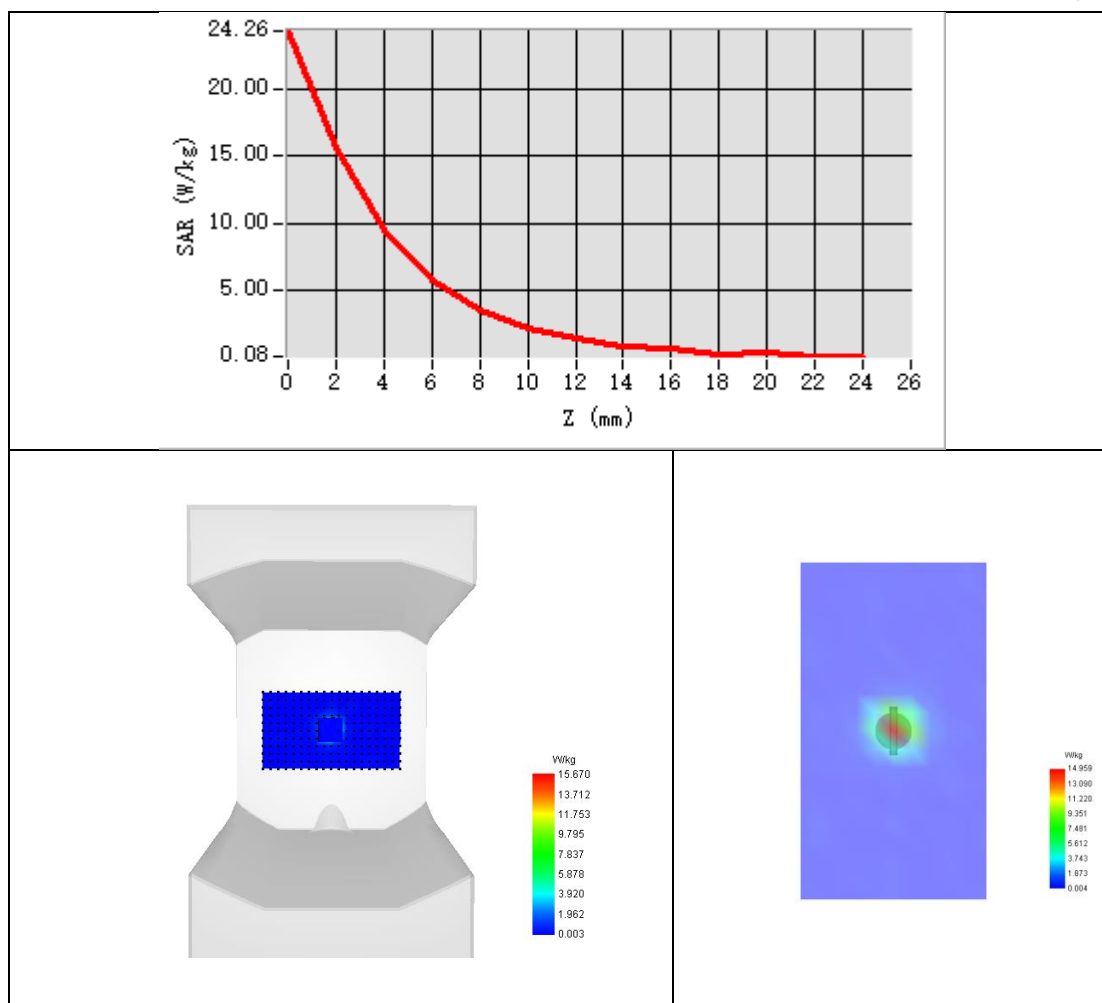
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.58
Conductivity (S/m)	5.12
Probe	2225-EPGO-450
ConvF	1.63
Crest factor:	1:1



Maximum location: X=1.00, Y=1.00 ; SAR Peak: 24.86 W/kg

SAR 10g (W/Kg)	2.374
SAR 1g (W/Kg)	8.229

Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

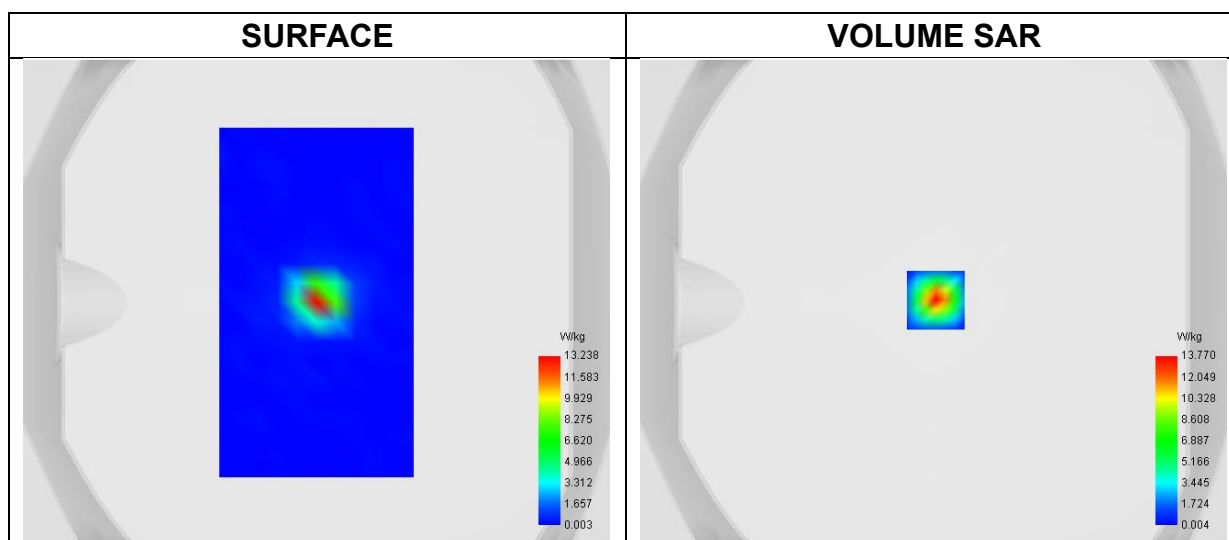
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-11-15

Experimental conditions.

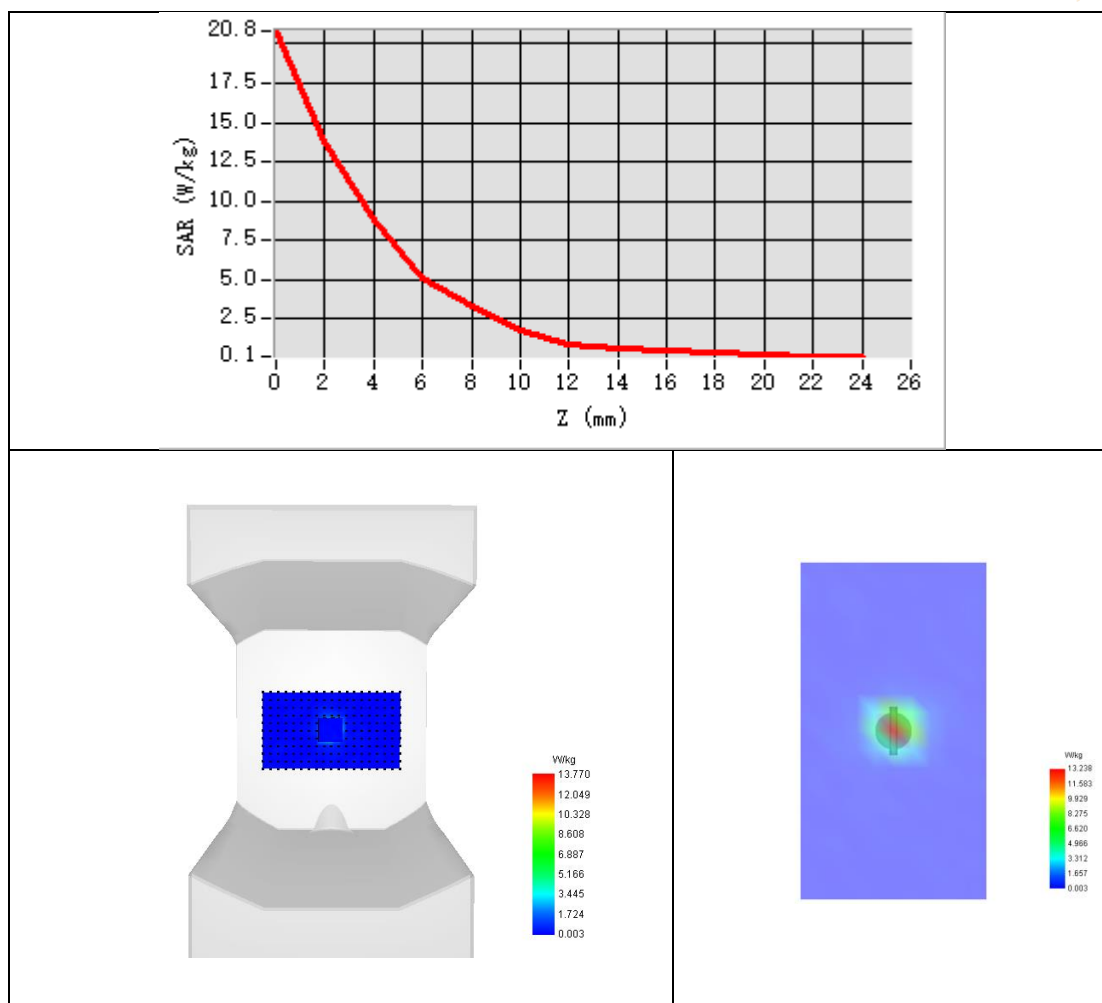
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.48
Conductivity (S/m)	5.26
Probe	2225-EPGO-450
ConvF	1.62
Crest factor:	1:1



Maximum location: X=1.00, Y=1.00 ; SAR Peak: 21.19 W/kg

SAR 10g (W/Kg)	2.351
SAR 1g (W/Kg)	8.043

Z Axis Scan



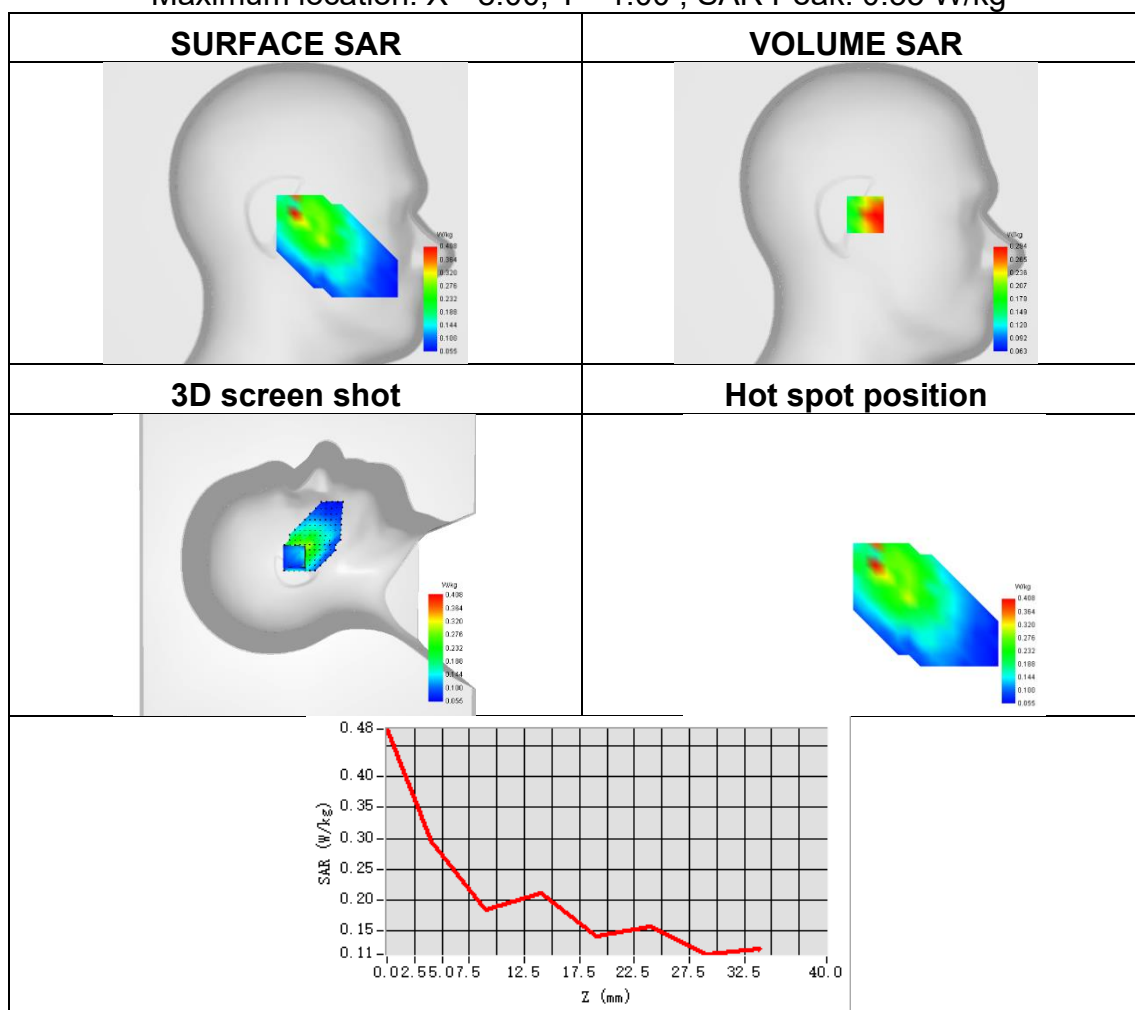


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.281
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

Maximum location: X=-8.00, Y=-1.00 ; SAR Peak: 0.35 W/kg

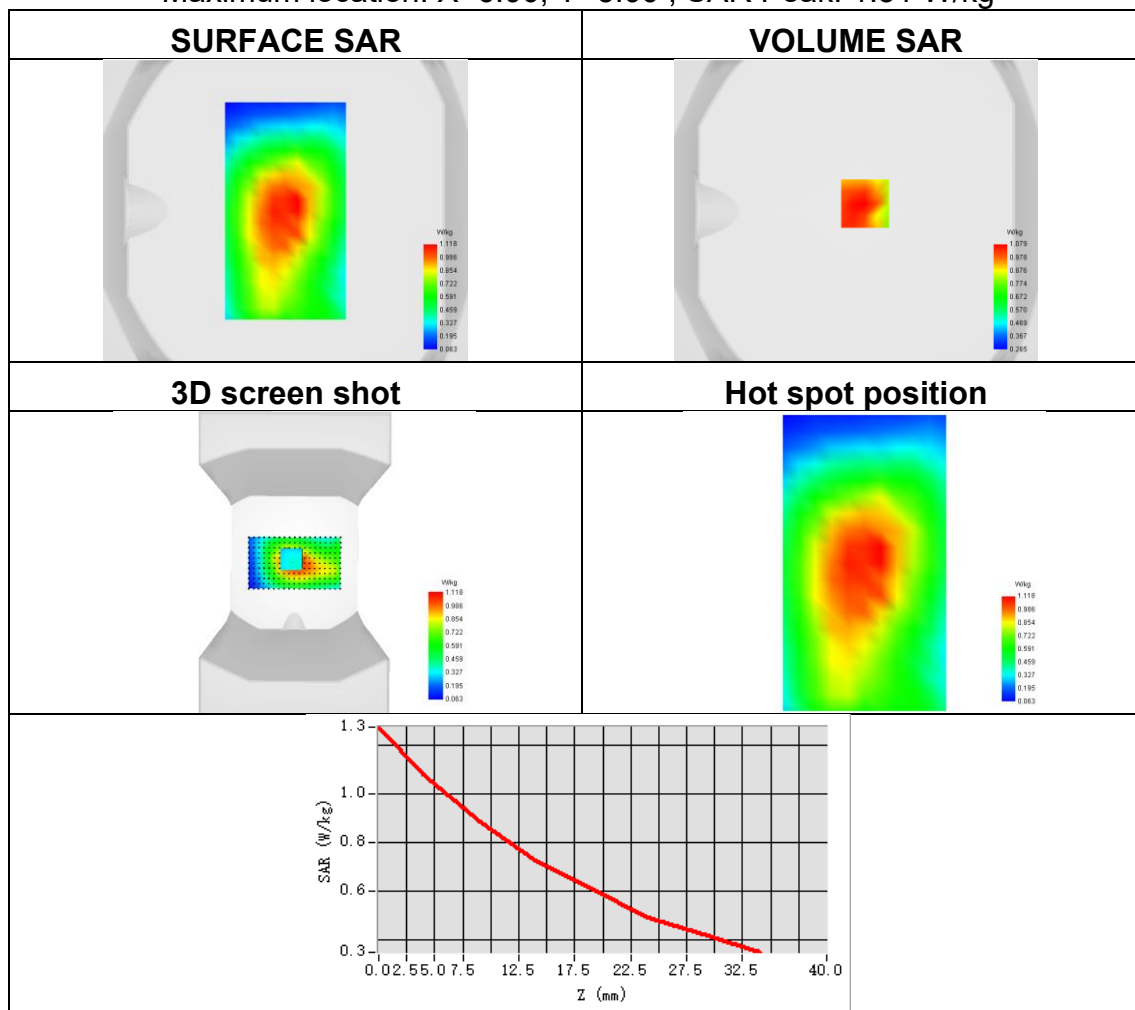




Plot 2:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.779
SAR 1g (W/Kg)	1.044
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

Maximum location: X=6.00, Y=5.00 ; SAR Peak: 1.31 W/kg

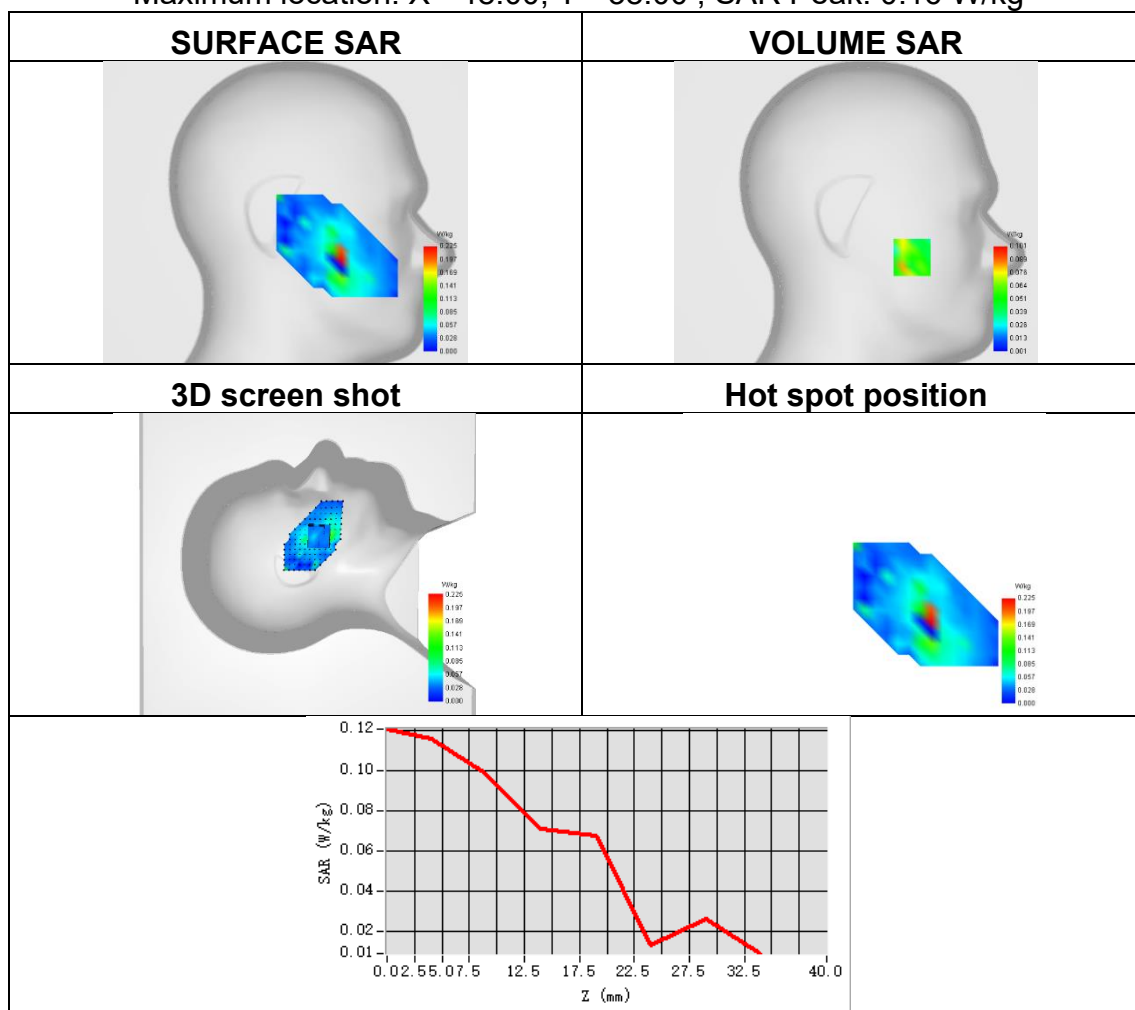




Plot 3:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.046
SAR 1g (W/Kg)	0.074
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-48.00, Y=-38.00 ; SAR Peak: 0.16 W/kg

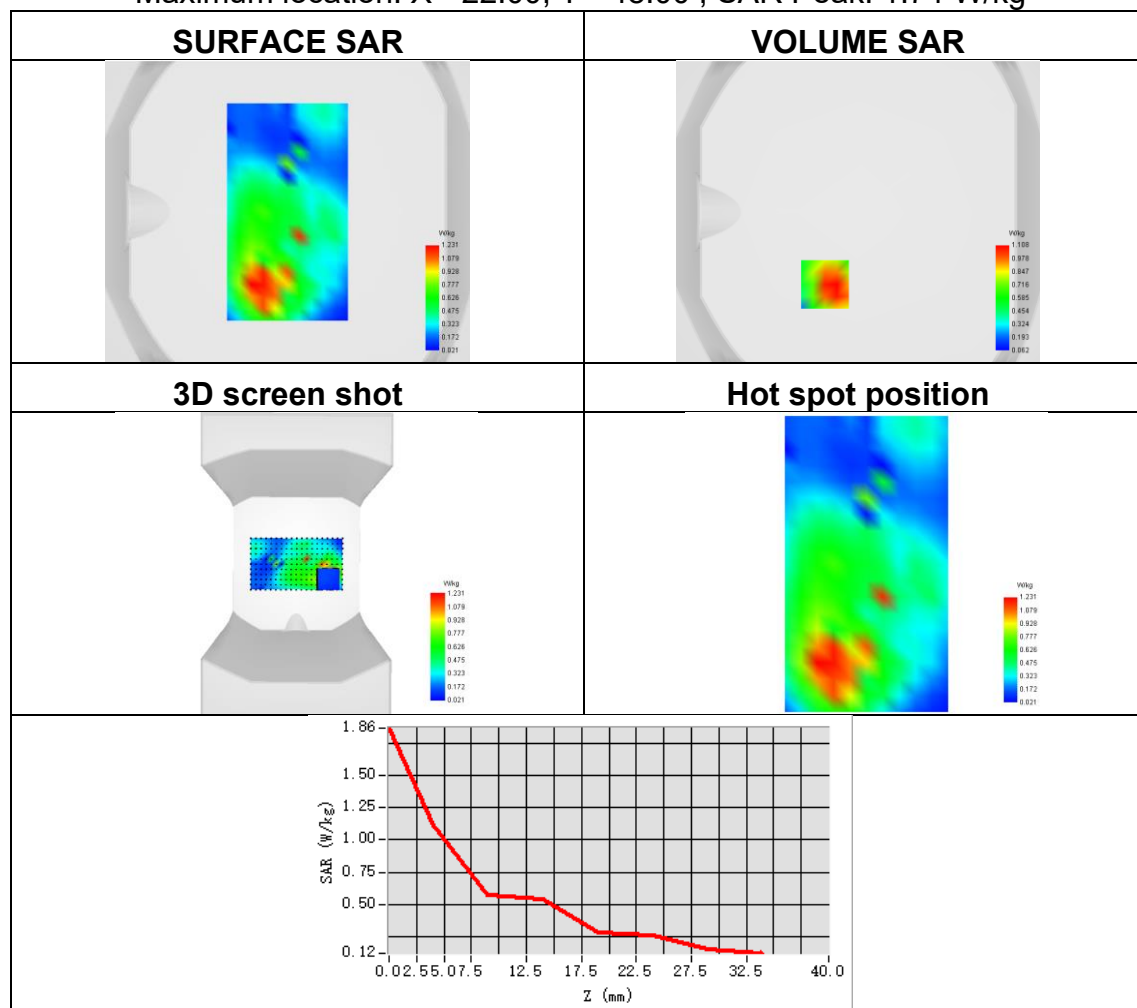




Plot 4:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1850.2
SAR 10g (W/Kg)	0.641
SAR 1g (W/Kg)	1.083
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-22.00, Y=-48.00 ; SAR Peak: 1.74 W/kg

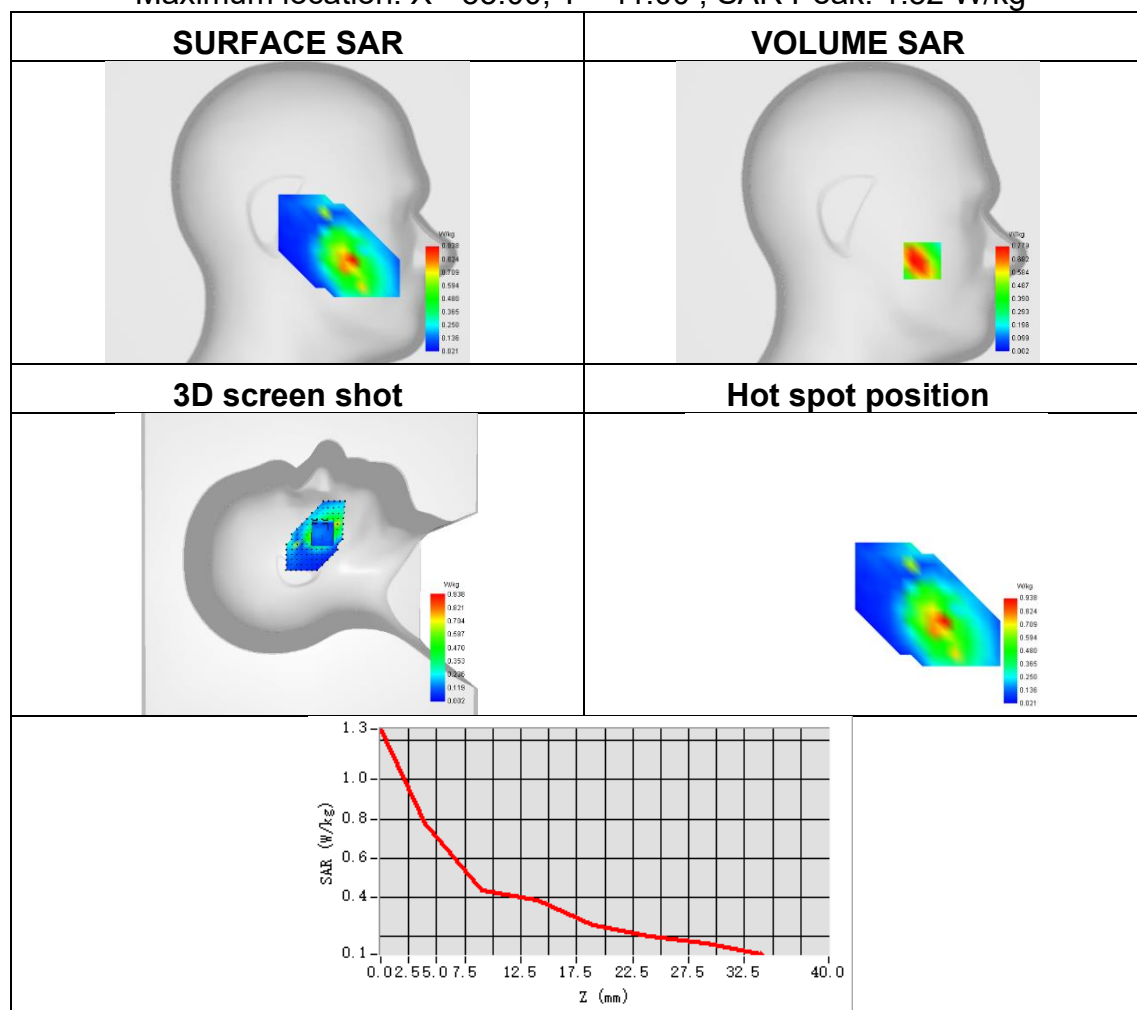




Plot 5:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1852.4
SAR 10g (W/Kg)	0.413
SAR 1g (W/Kg)	0.747
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-55.00, Y=-41.00 ; SAR Peak: 1.52 W/kg

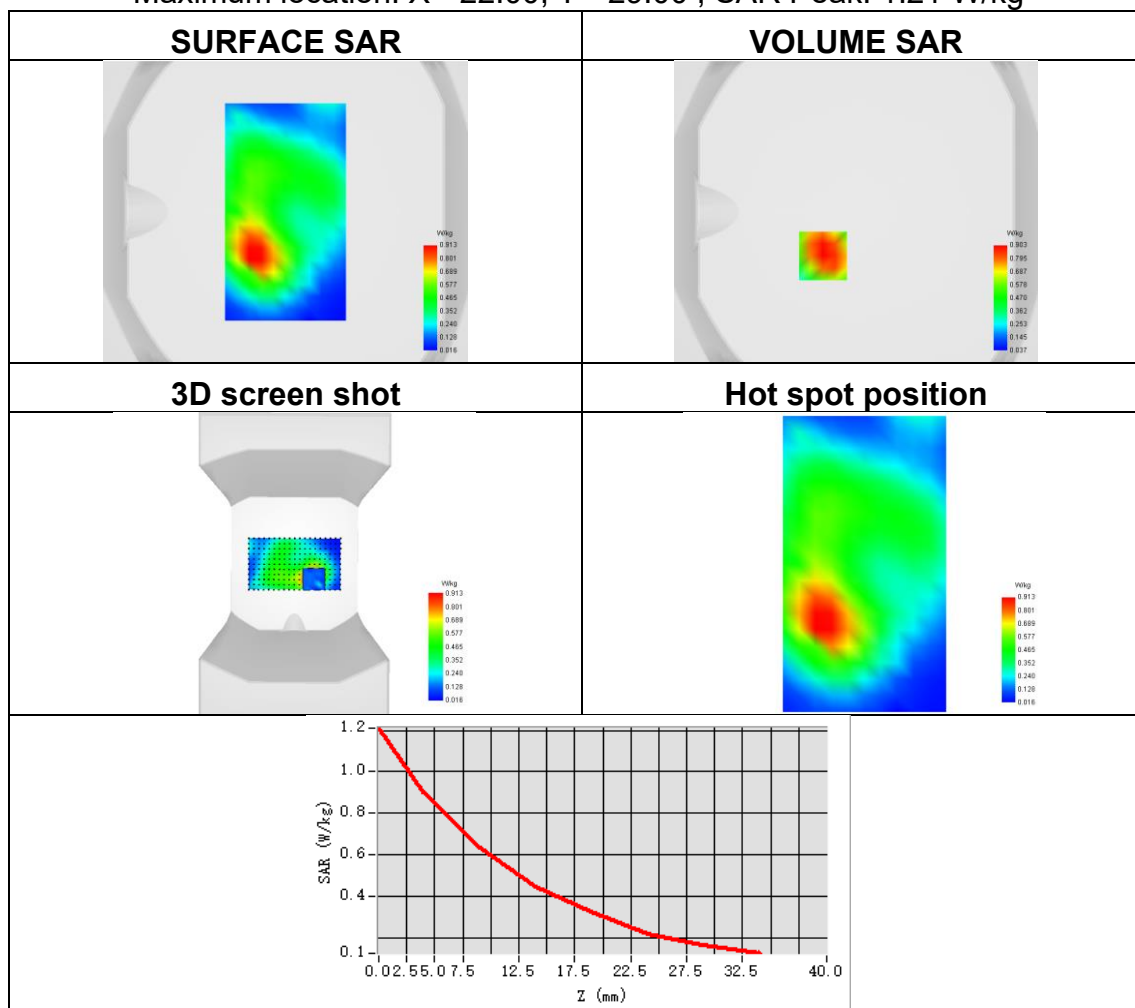




Plot 6:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1852.4
SAR 10g (W/Kg)	0.580
SAR 1g (W/Kg)	0.870
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-22.00, Y=-29.00 ; SAR Peak: 1.21 W/kg

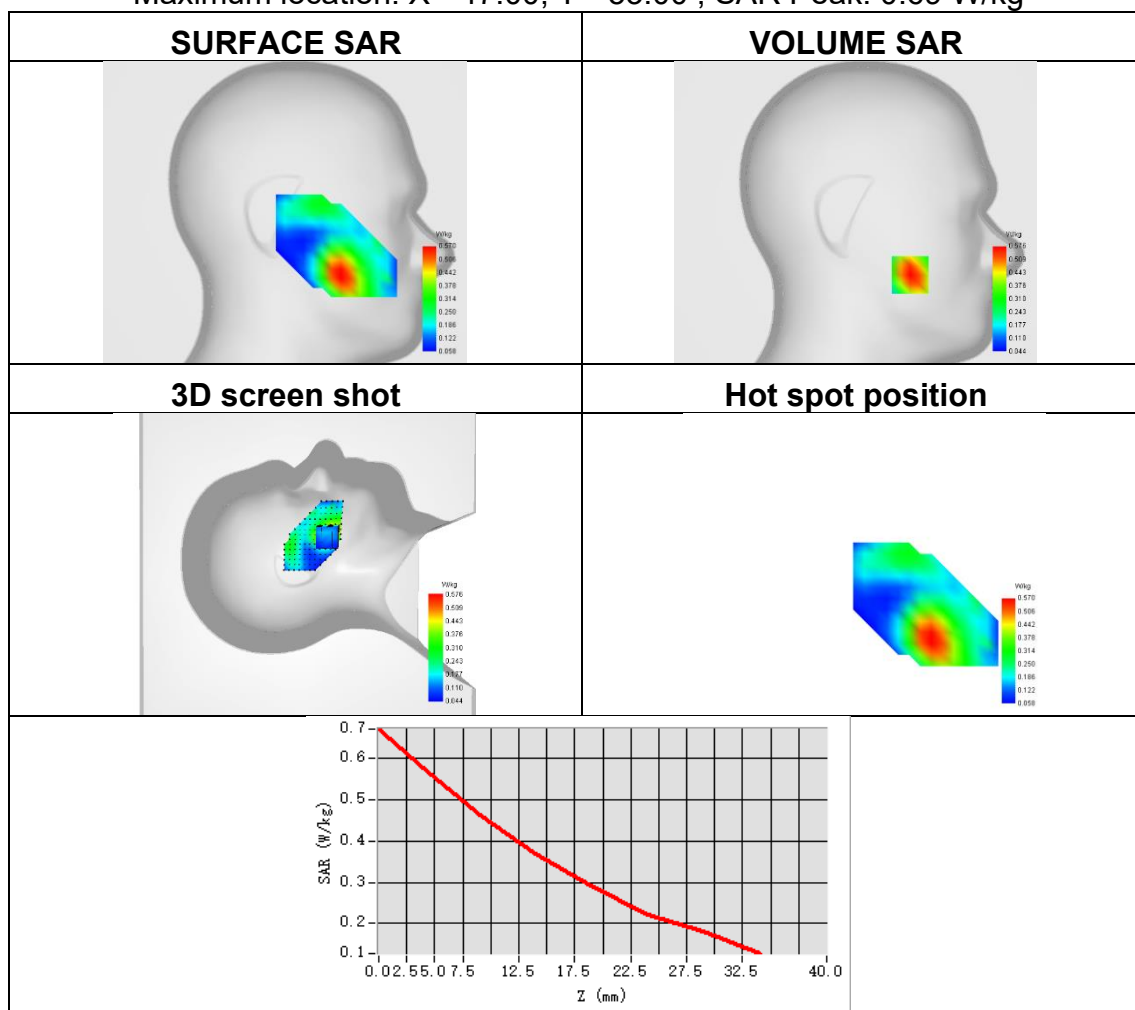




Plot 7:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1712.6
SAR 10g (W/Kg)	0.392
SAR 1g (W/Kg)	0.547
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=-47.00, Y=-53.00 ; SAR Peak: 0.69 W/kg

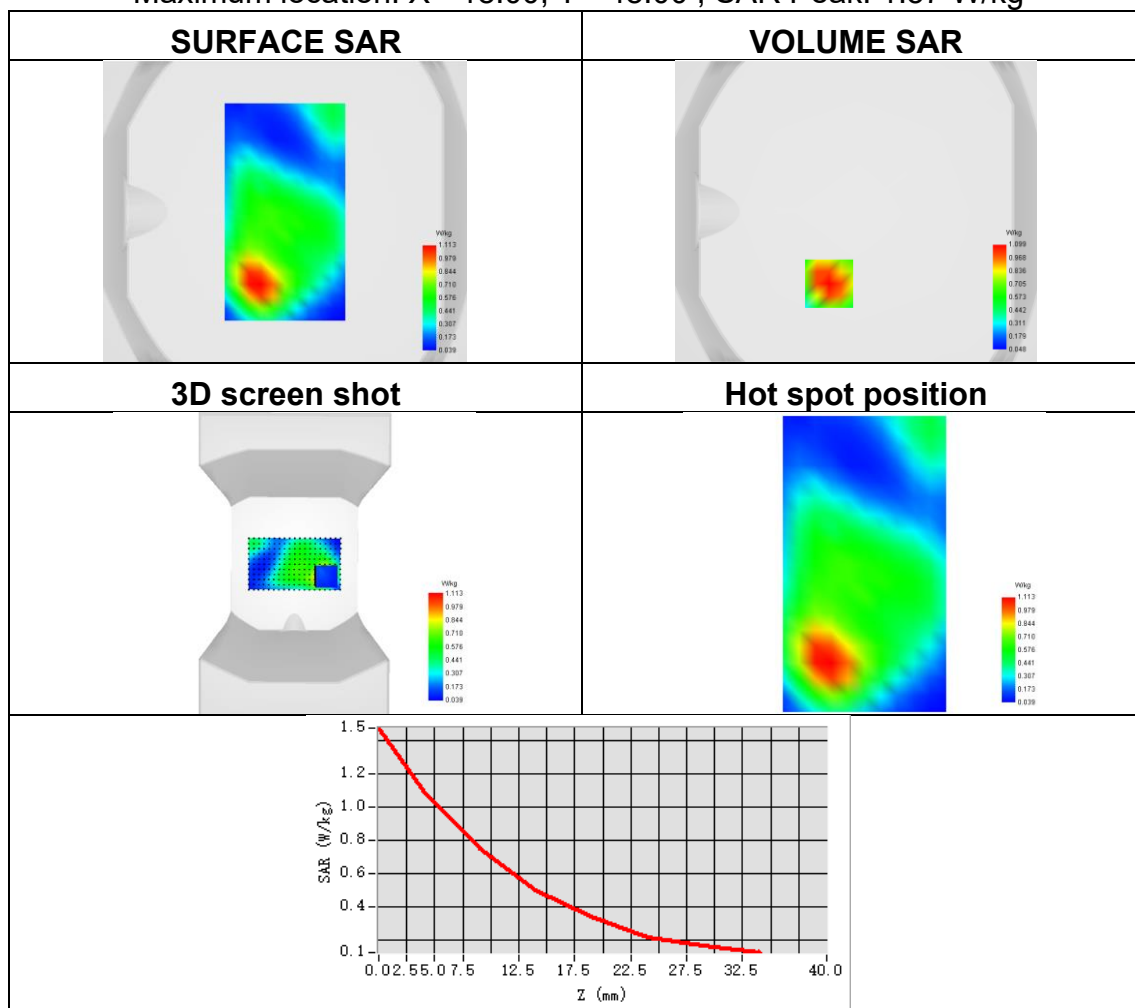




Plot 8:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front Side
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1712.6
SAR 10g (W/Kg)	0.660
SAR 1g (W/Kg)	1.056
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=-18.00, Y=-48.00 ; SAR Peak: 1.57 W/kg

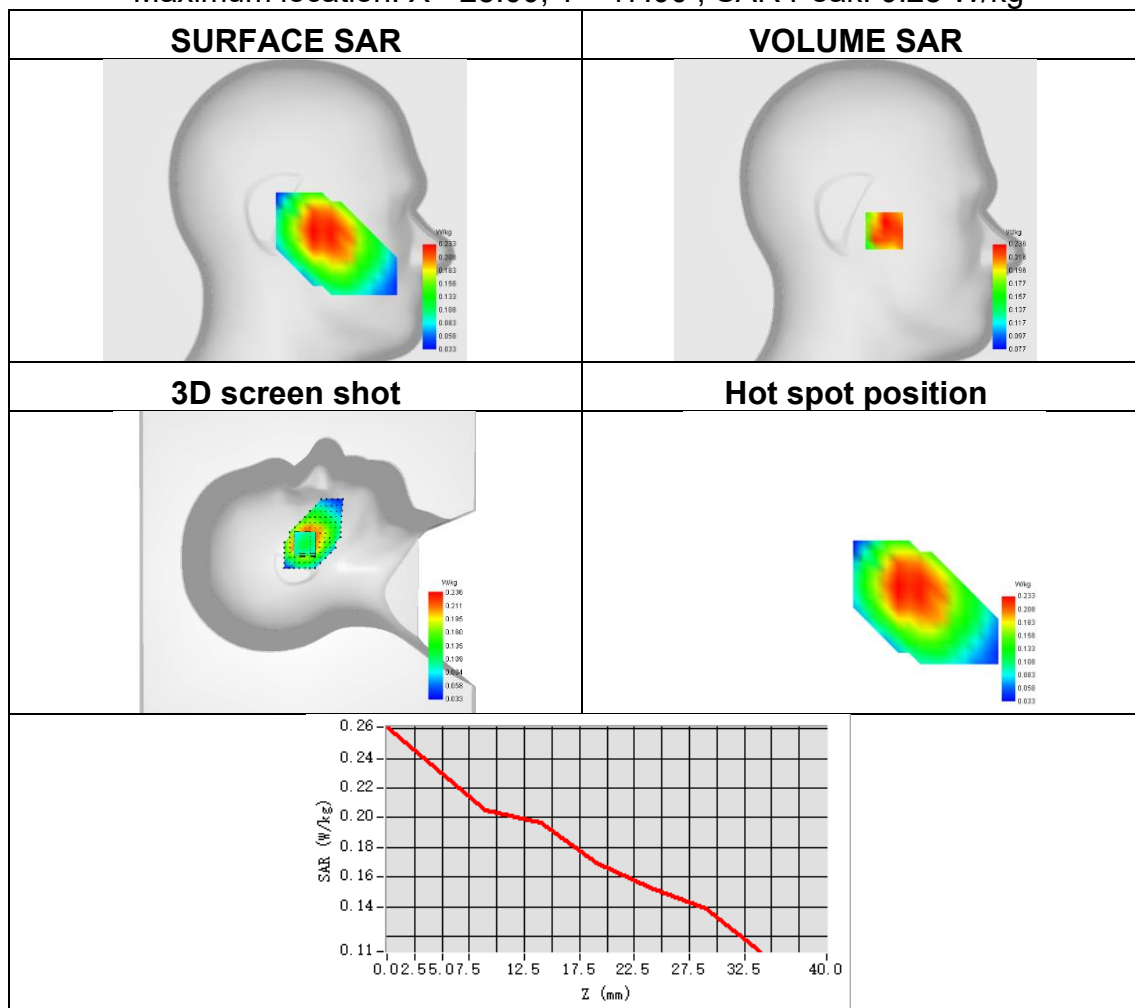




Plot 9:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.188
SAR 1g (W/Kg)	0.226
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

Maximum location: X=-25.00, Y=-17.00 ; SAR Peak: 0.28 W/kg

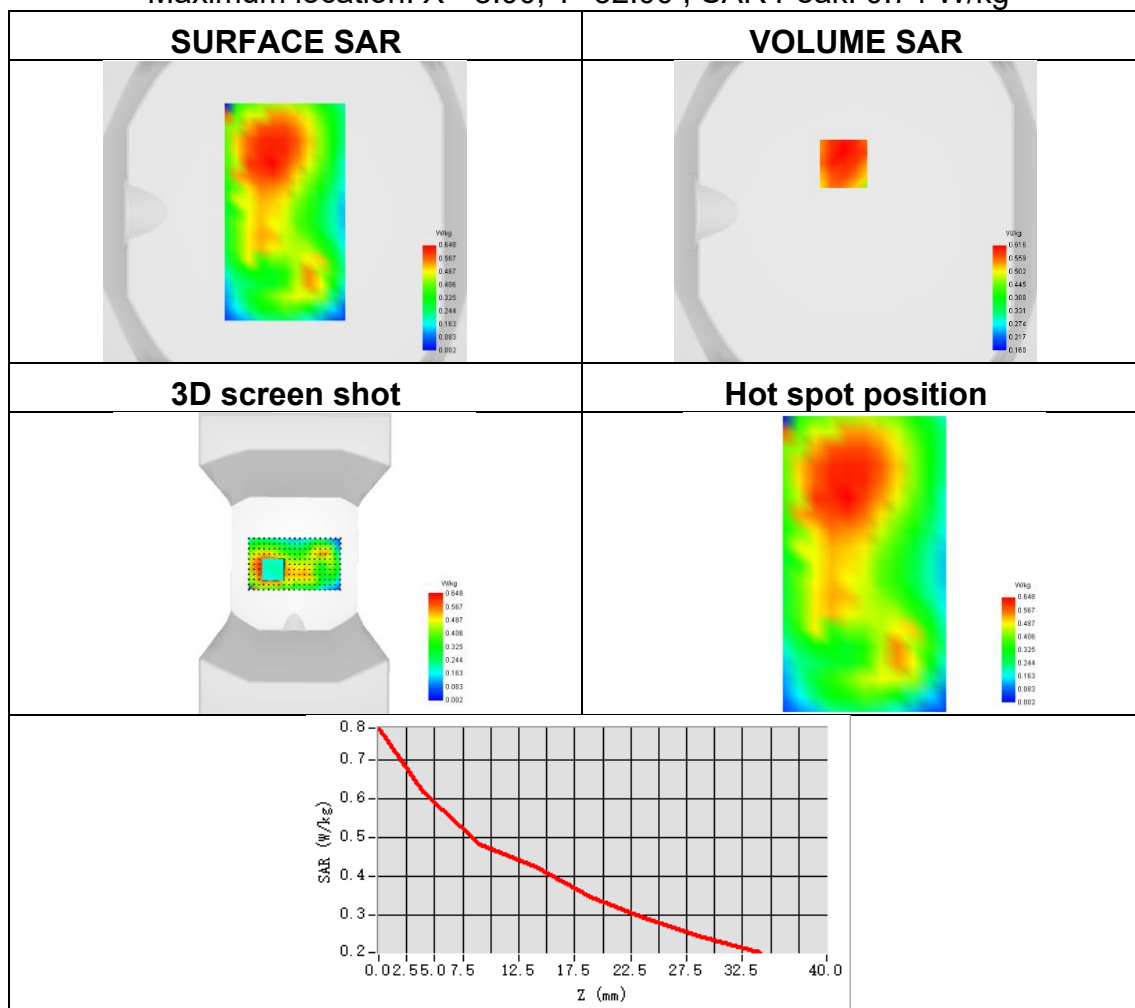




Plot 10:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.441
SAR 1g (W/Kg)	0.598
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

Maximum location: X=-8.00, Y=32.00 ; SAR Peak: 0.74 W/kg

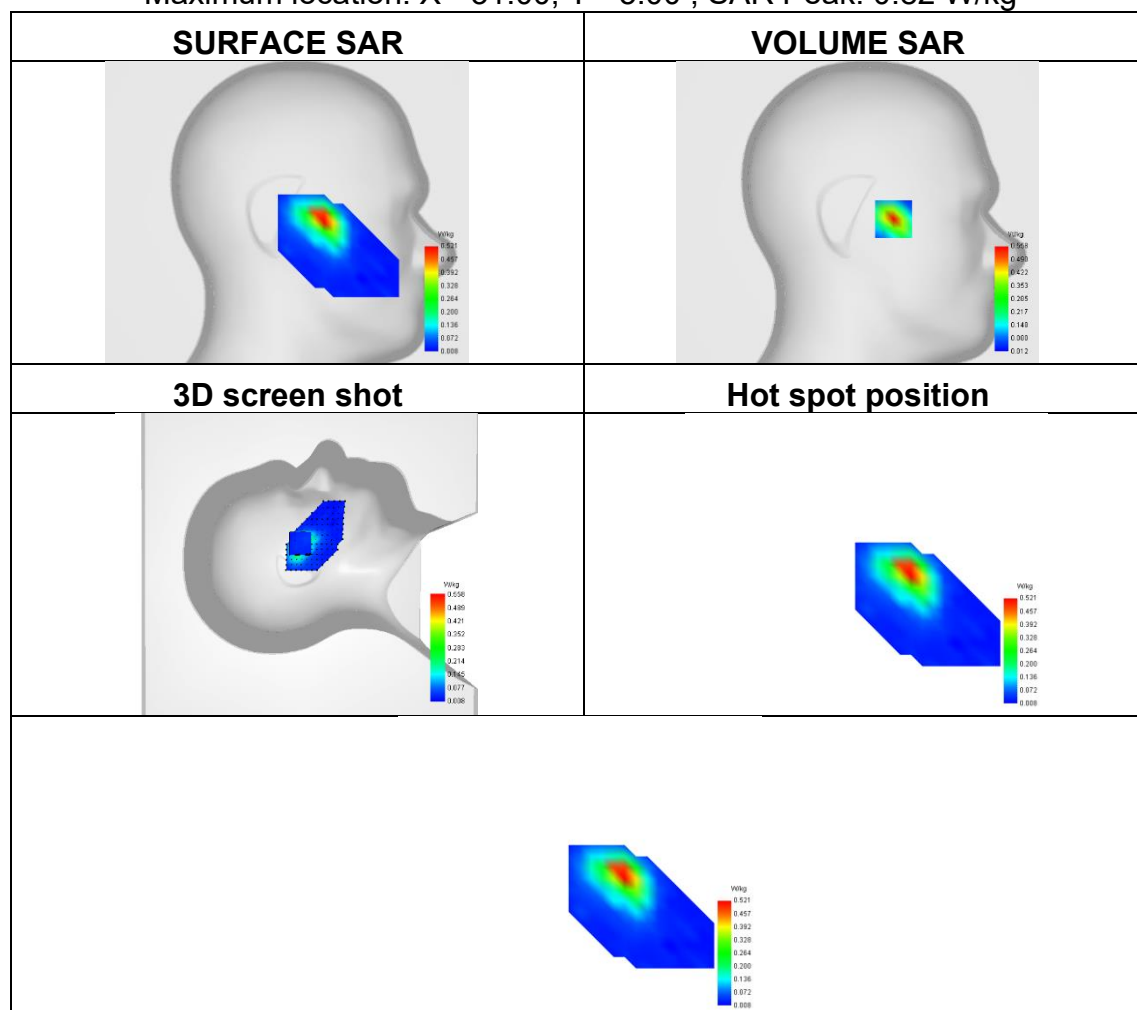




Plot 11:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.248
SAR 1g (W/Kg)	0.493
ConvF	1.51
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=-31.00, Y=-5.00 ; SAR Peak: 0.82 W/kg

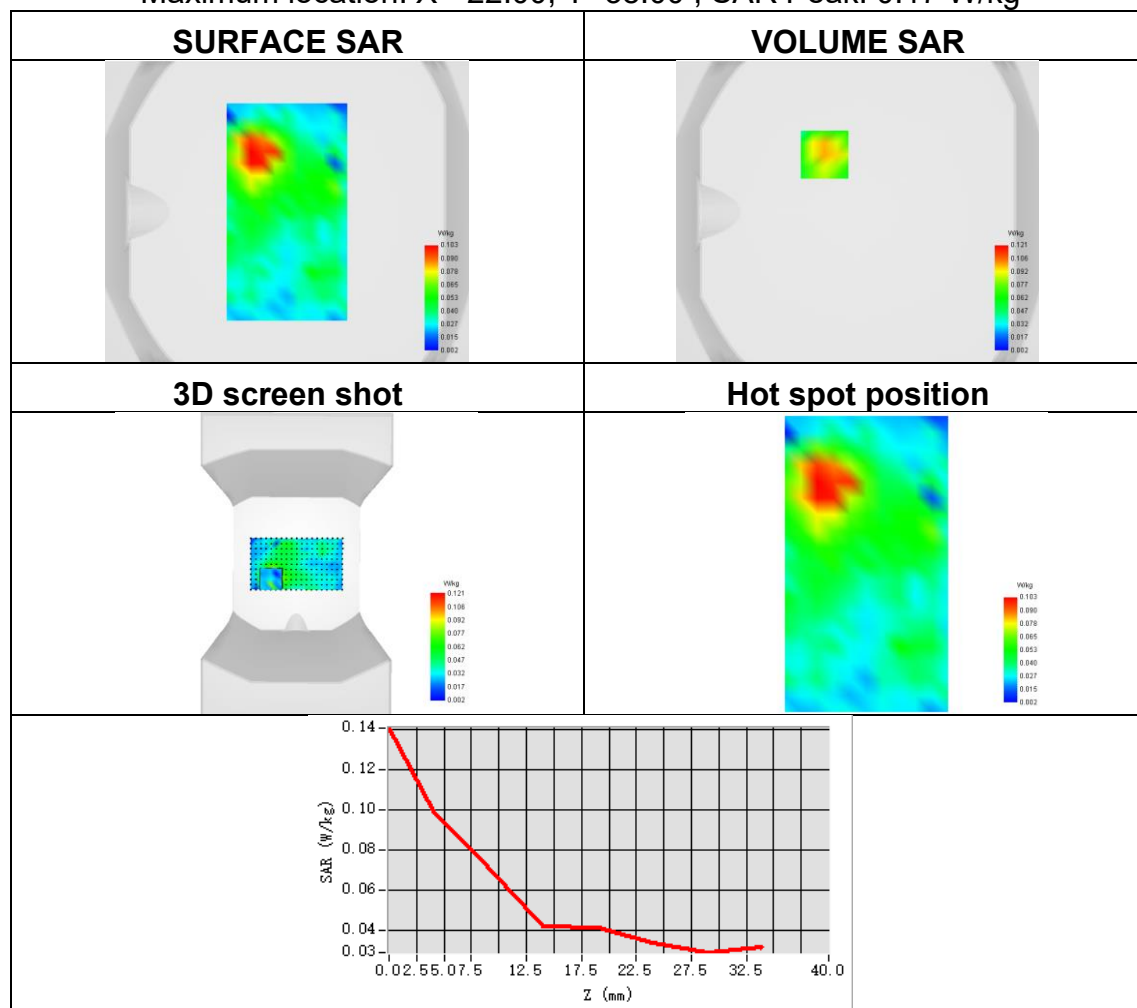




Plot 12:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	ISM
Signal	IEEE 802.11b
Frequency	2437
SAR 10g (W/Kg)	0.061
SAR 1g (W/Kg)	0.102
ConvF	1.51
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=-22.00, Y=38.00 ; SAR Peak: 0.17 W/kg

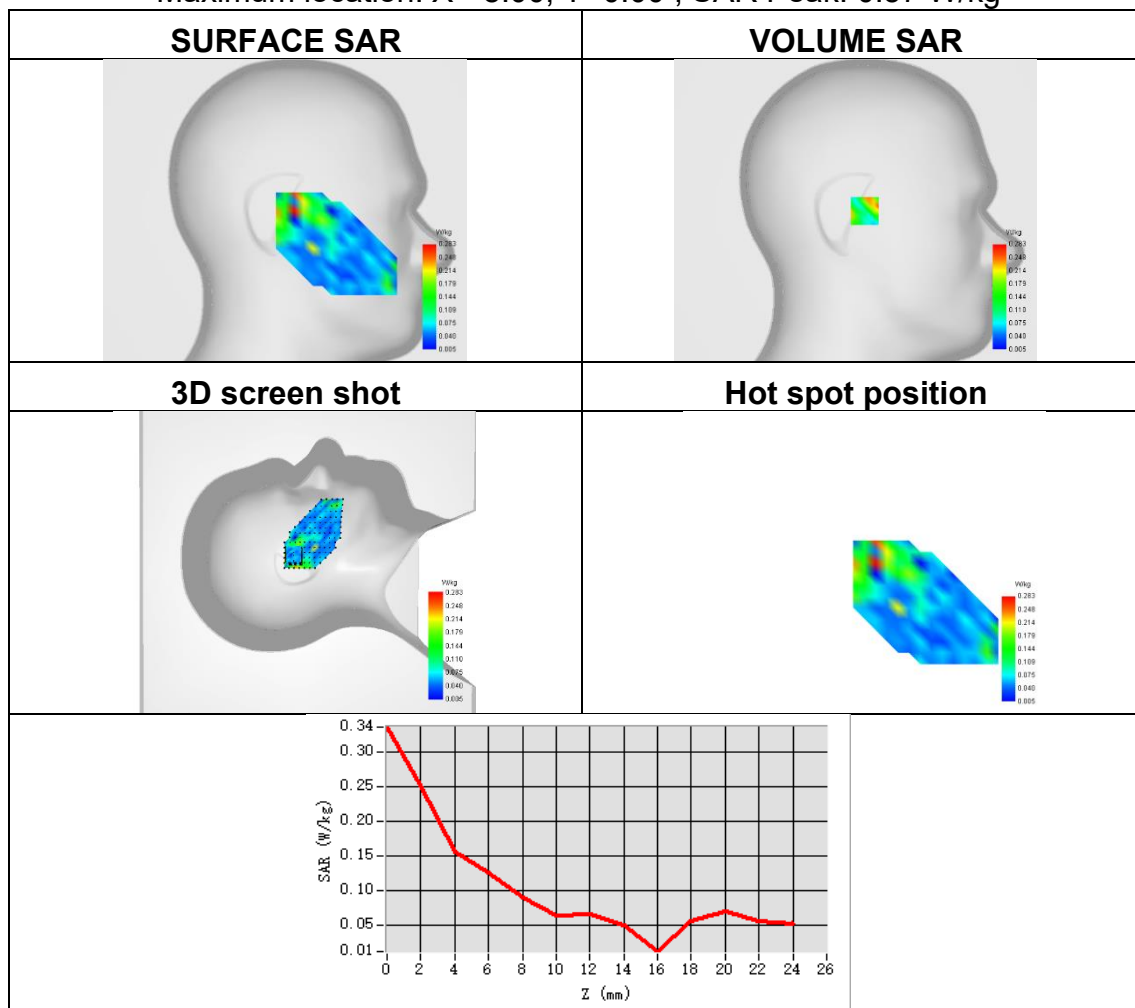




Plot 13:

Test Date	2025-11-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.187
ConvF	1.58
Relative permittivity	36.70
Conductivity (S/m)	4.58

Maximum location: X=-8.00, Y=0.00 ; SAR Peak: 0.57 W/kg

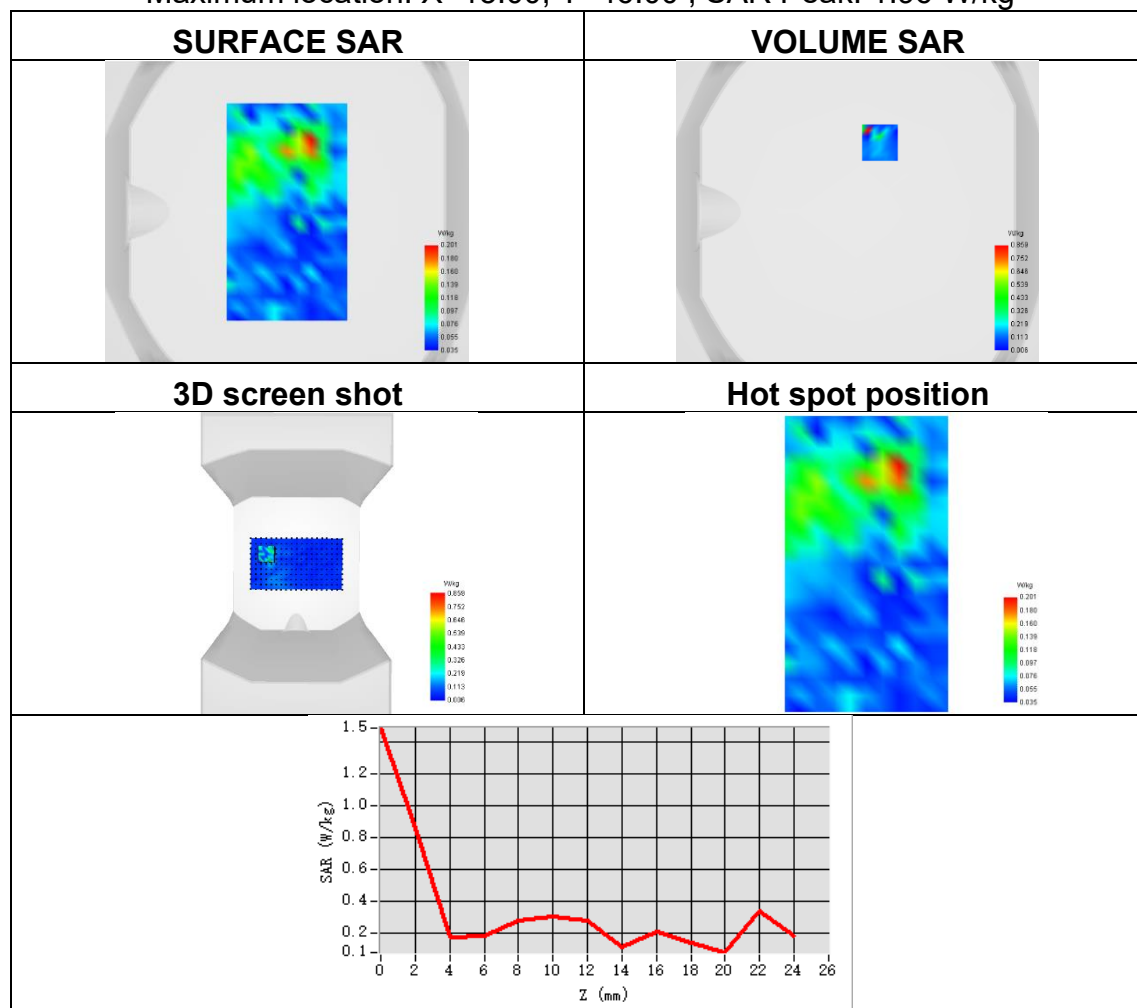




Plot 14:

Test Date	2025-11-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.138
SAR 1g (W/Kg)	0.258
ConvF	1.58
Relative permittivity	36.70
Conductivity (S/m)	4.58

Maximum location: X=15.00, Y=46.00 ; SAR Peak: 1.96 W/kg

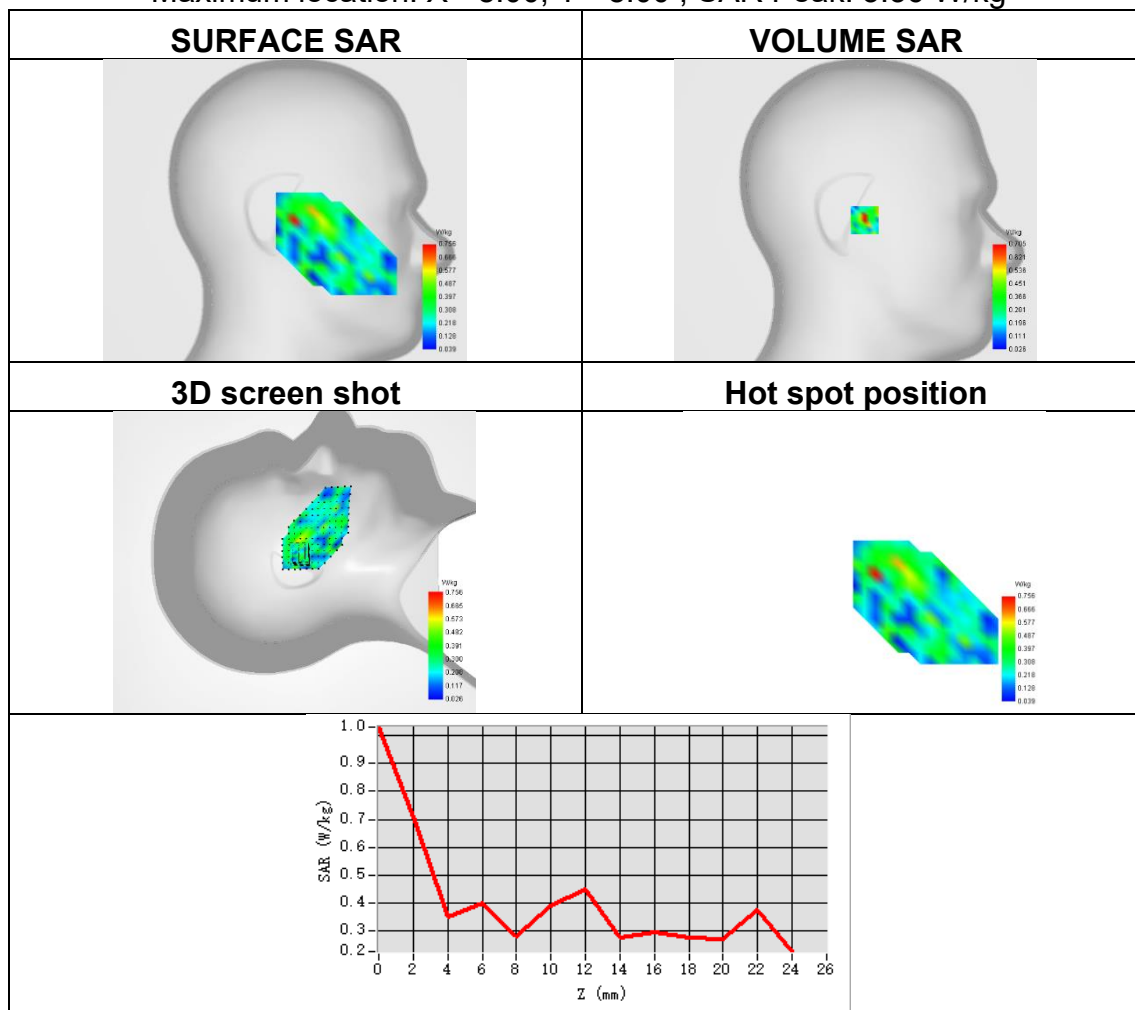




Plot 15:

Test Date	2025-11-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.202
SAR 1g (W/Kg)	0.290
ConvF	1.60
Relative permittivity	36.36
Conductivity (S/m)	4.83

Maximum location: X=-8.00, Y=-8.00 ; SAR Peak: 3.36 W/kg

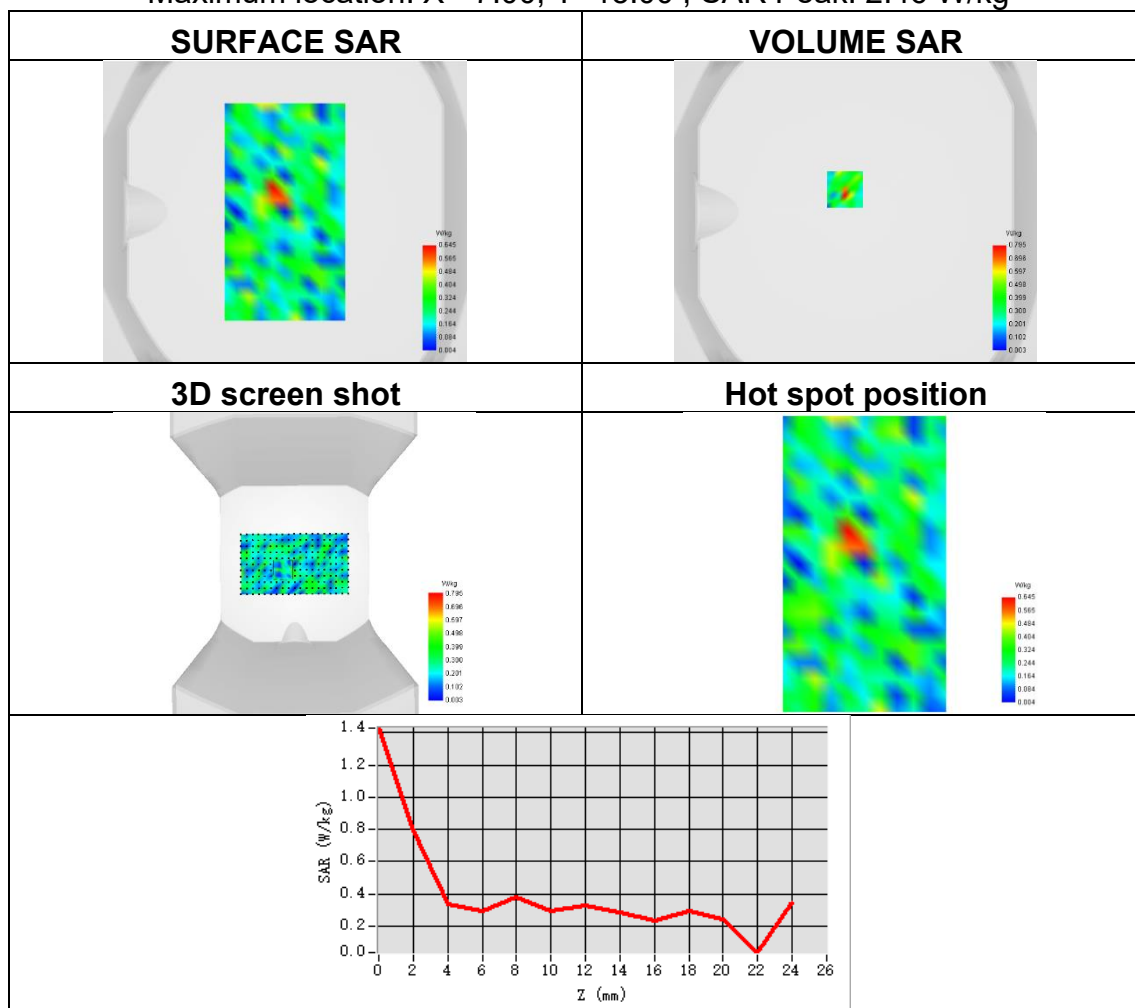




Plot 16:

Test Date	2025-11-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.216
SAR 1g (W/Kg)	0.449
ConvF	1.60
Relative permittivity	36.36
Conductivity (S/m)	4.83

Maximum location: X=-7.00, Y=15.00 ; SAR Peak: 2.46 W/kg

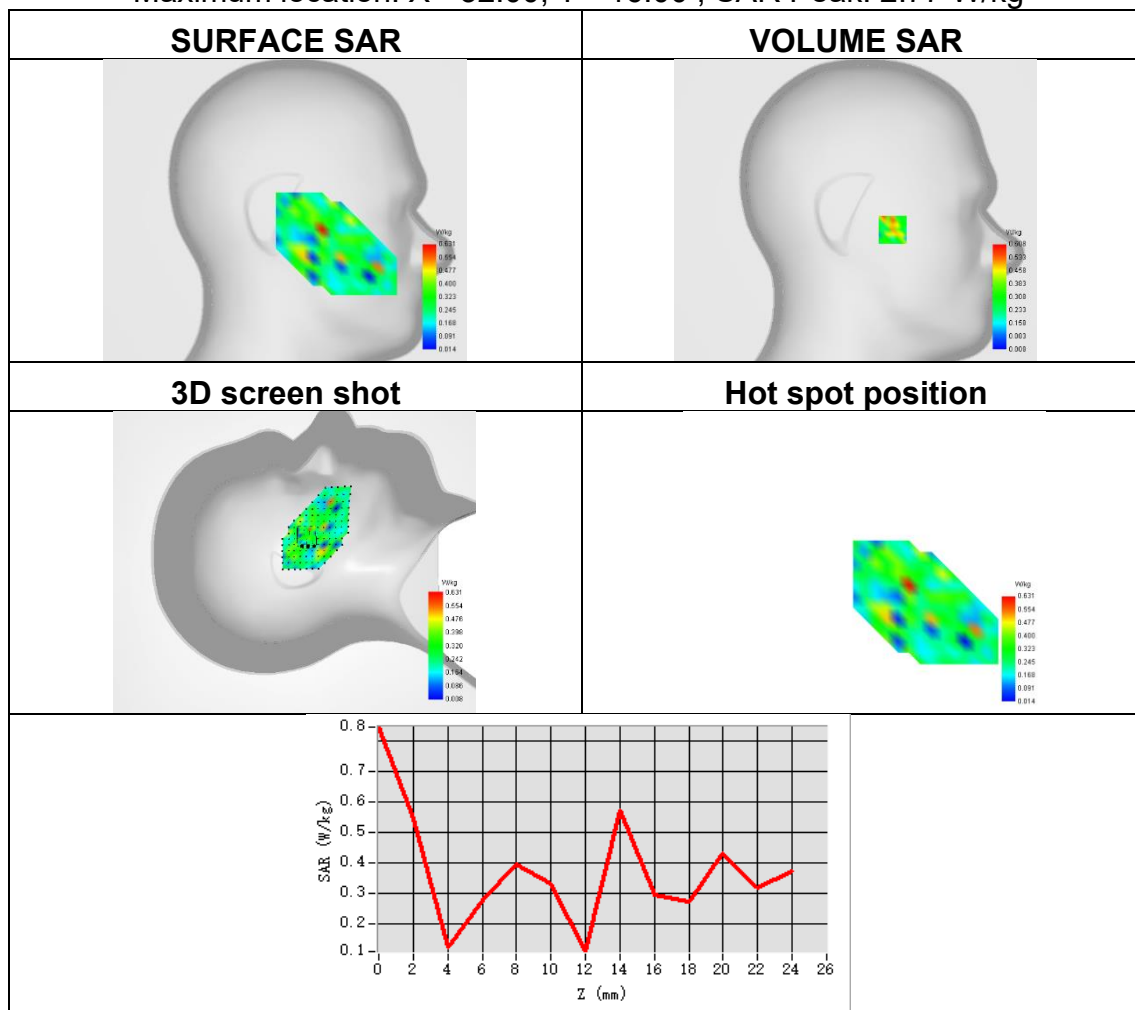




Plot 17:

Test Date	2025-11-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-2c
Signal	IEEE 802.11ac
Frequency	5530
SAR 10g (W/Kg)	0.243
SAR 1g (W/Kg)	0.479
ConvF	1.63
Relative permittivity	36.58
Conductivity (S/m)	5.12

Maximum location: X=-32.00, Y=-16.00 ; SAR Peak: 2.77 W/kg

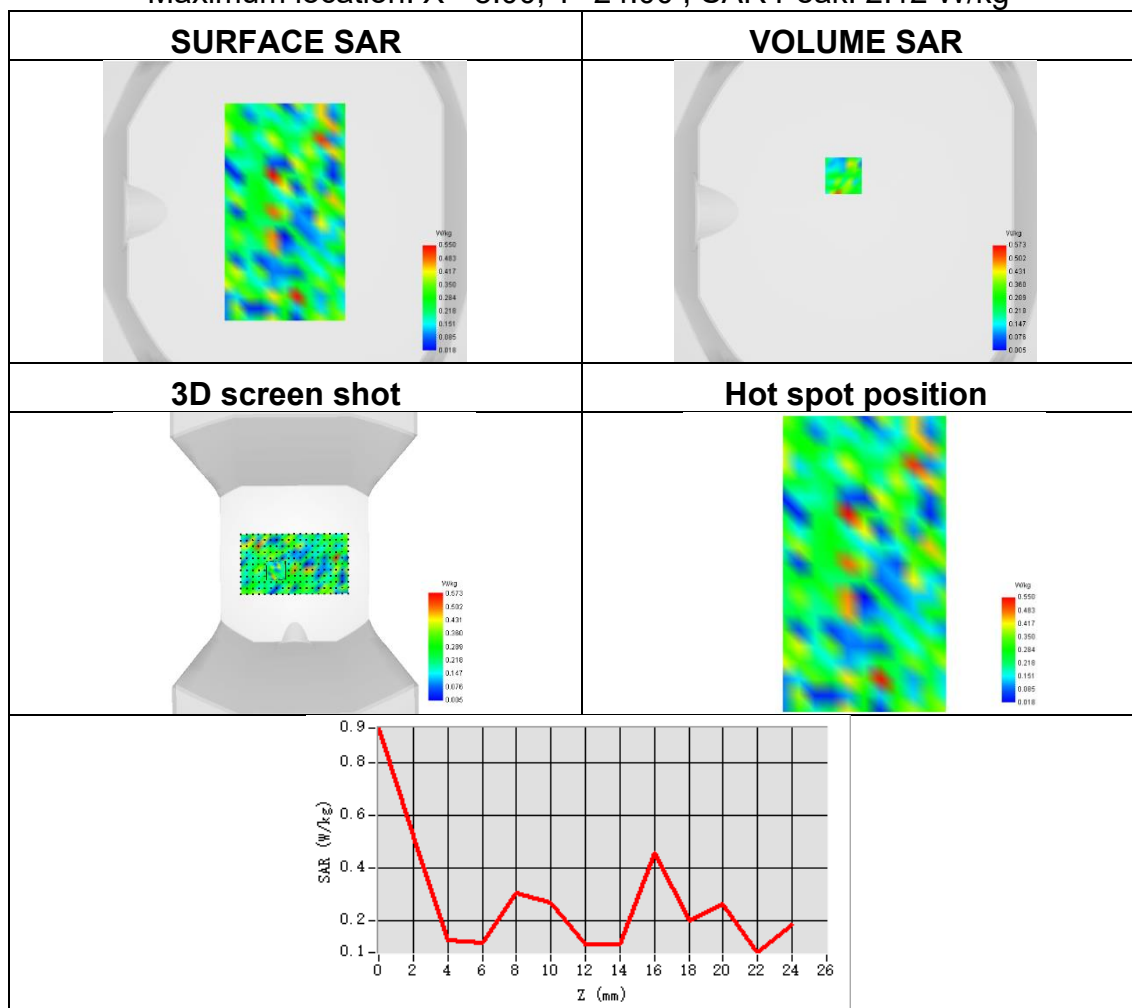




Plot 18:

Test Date	2025-11-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-2c
Signal	IEEE 802.11ac
Frequency	5530
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.331
ConvF	1.63
Relative permittivity	36.58
Conductivity (S/m)	5.12

Maximum location: X=-8.00, Y=24.00 ; SAR Peak: 2.12 W/kg

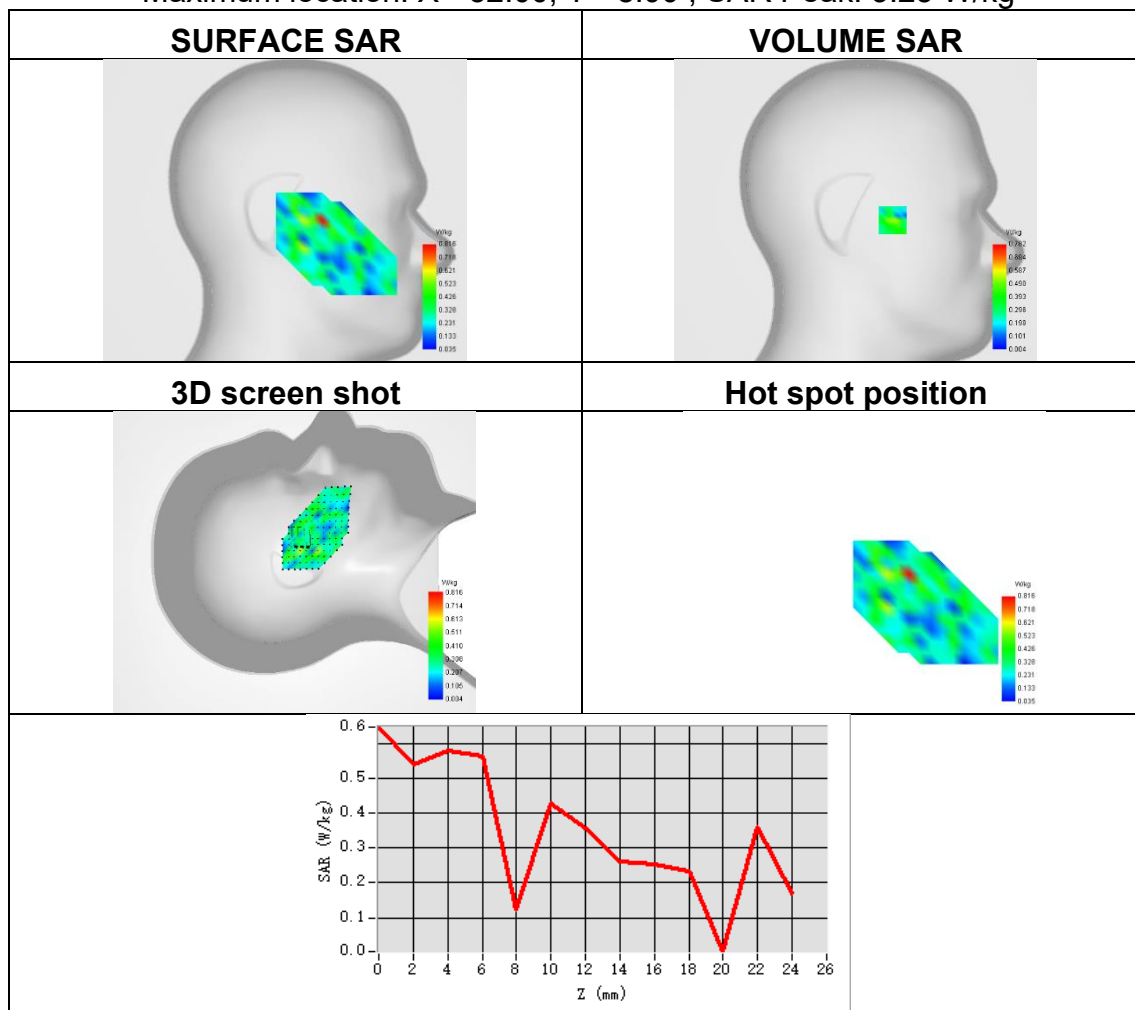




Plot 19:

Test Date	2025-11-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.247
SAR 1g (W/Kg)	0.540
ConvF	1.62
Relative permittivity	36.48
Conductivity (S/m)	5.26

Maximum location: X=-32.00, Y=-8.00 ; SAR Peak: 3.25 W/kg

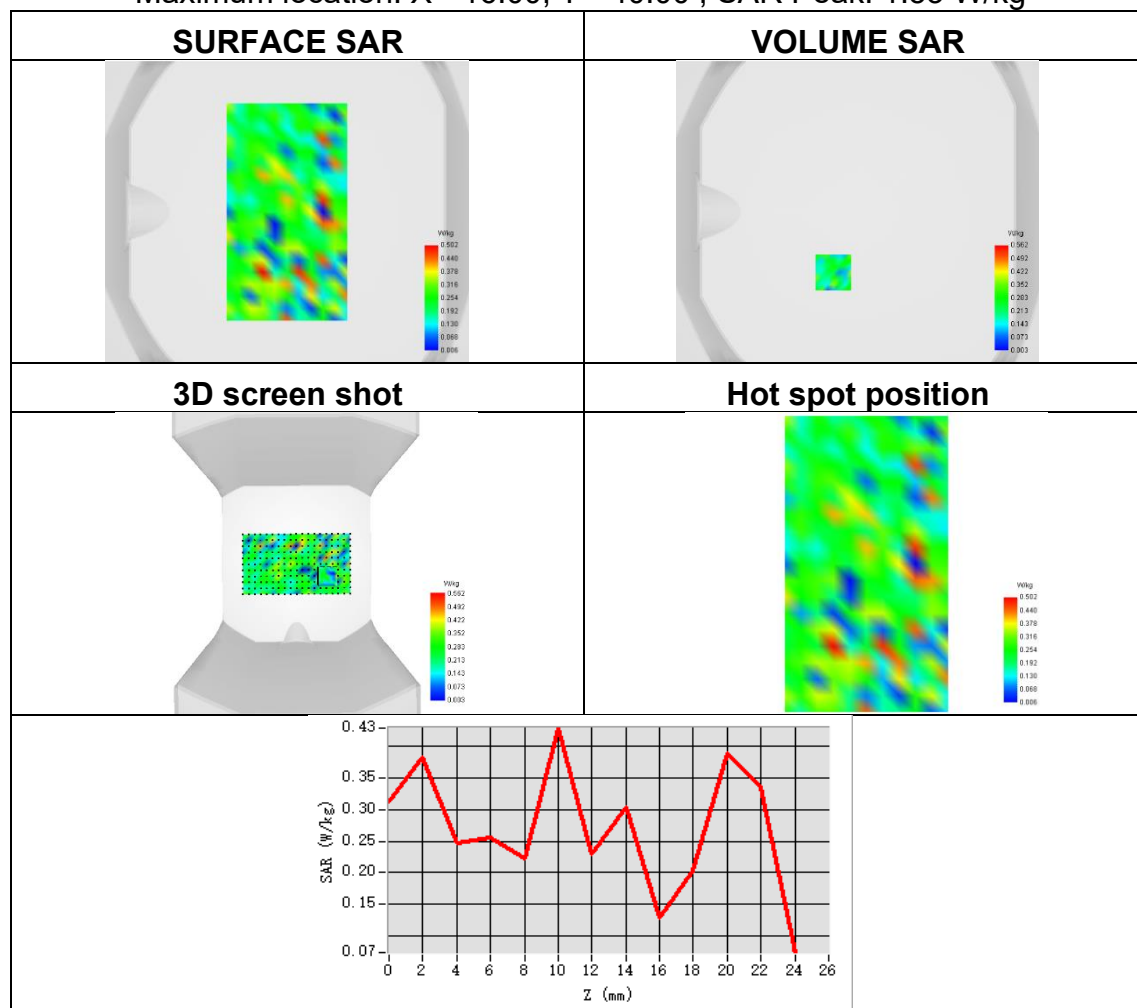




Plot 20:

Test Date	2025-11-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Back Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.280
ConvF	1.62
Relative permittivity	36.48
Conductivity (S/m)	5.26

Maximum location: X=-16.00, Y=-40.00 ; SAR Peak: 1.53 W/kg

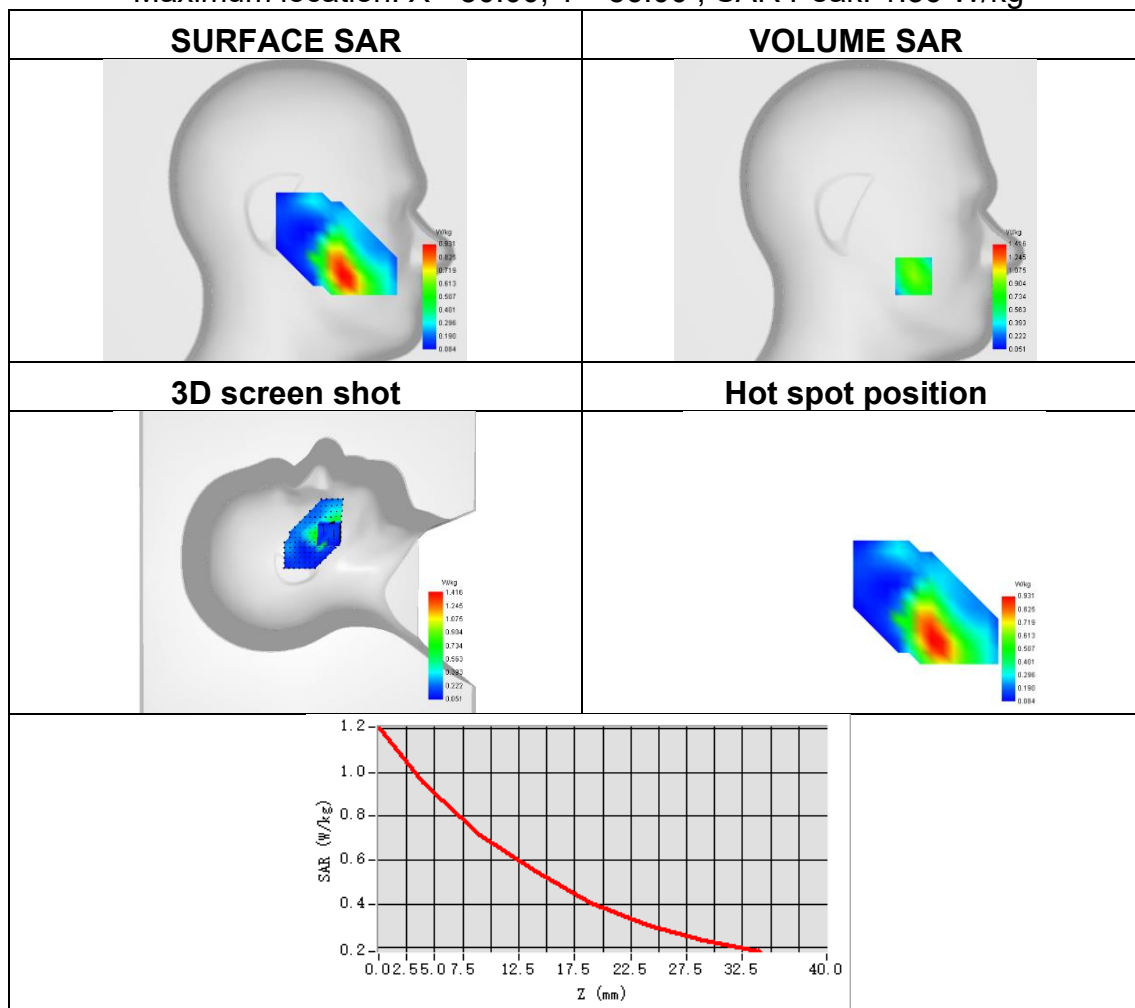




Plot 21:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.550
SAR 1g (W/Kg)	0.948
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-50.00, Y=-56.00 ; SAR Peak: 1.36 W/kg

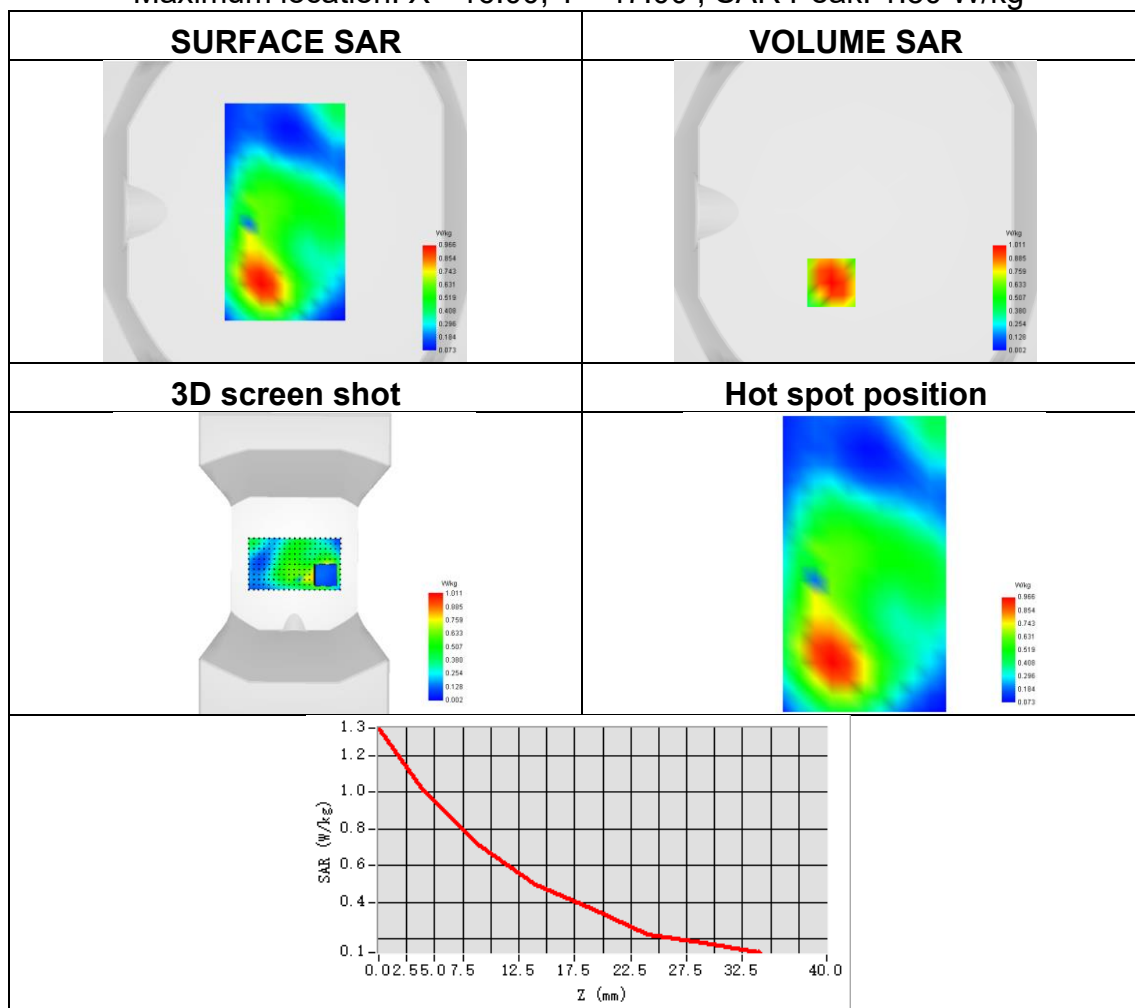




Plot 22:

Test Date	2025-11-21
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.577
SAR 1g (W/Kg)	0.961
ConvF	1.34
Relative permittivity	40.31
Conductivity (S/m)	1.39

Maximum location: X=-16.00, Y=-47.00 ; SAR Peak: 1.50 W/kg

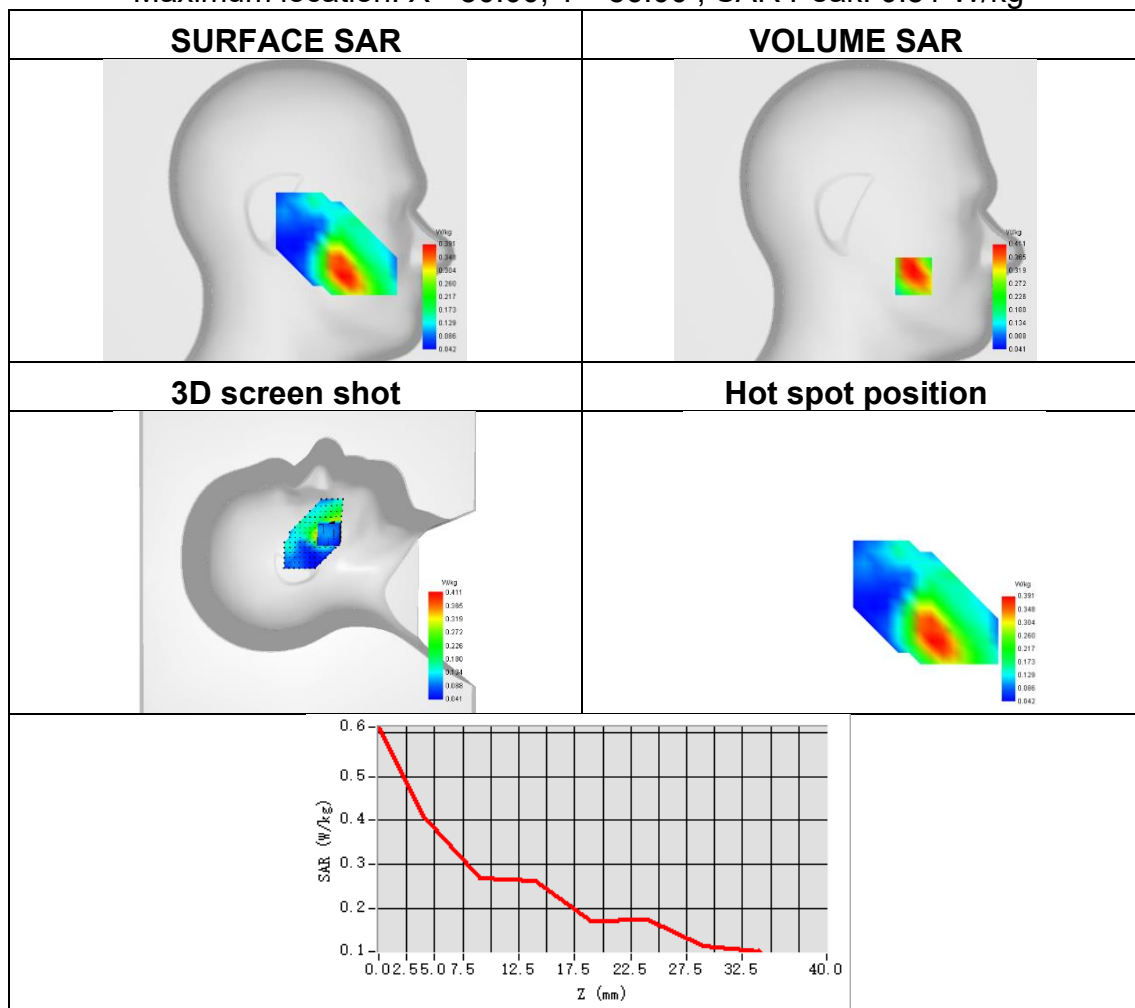




Plot 23:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.274
SAR 1g (W/Kg)	0.396
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=-50.00, Y=-56.00 ; SAR Peak: 0.51 W/kg

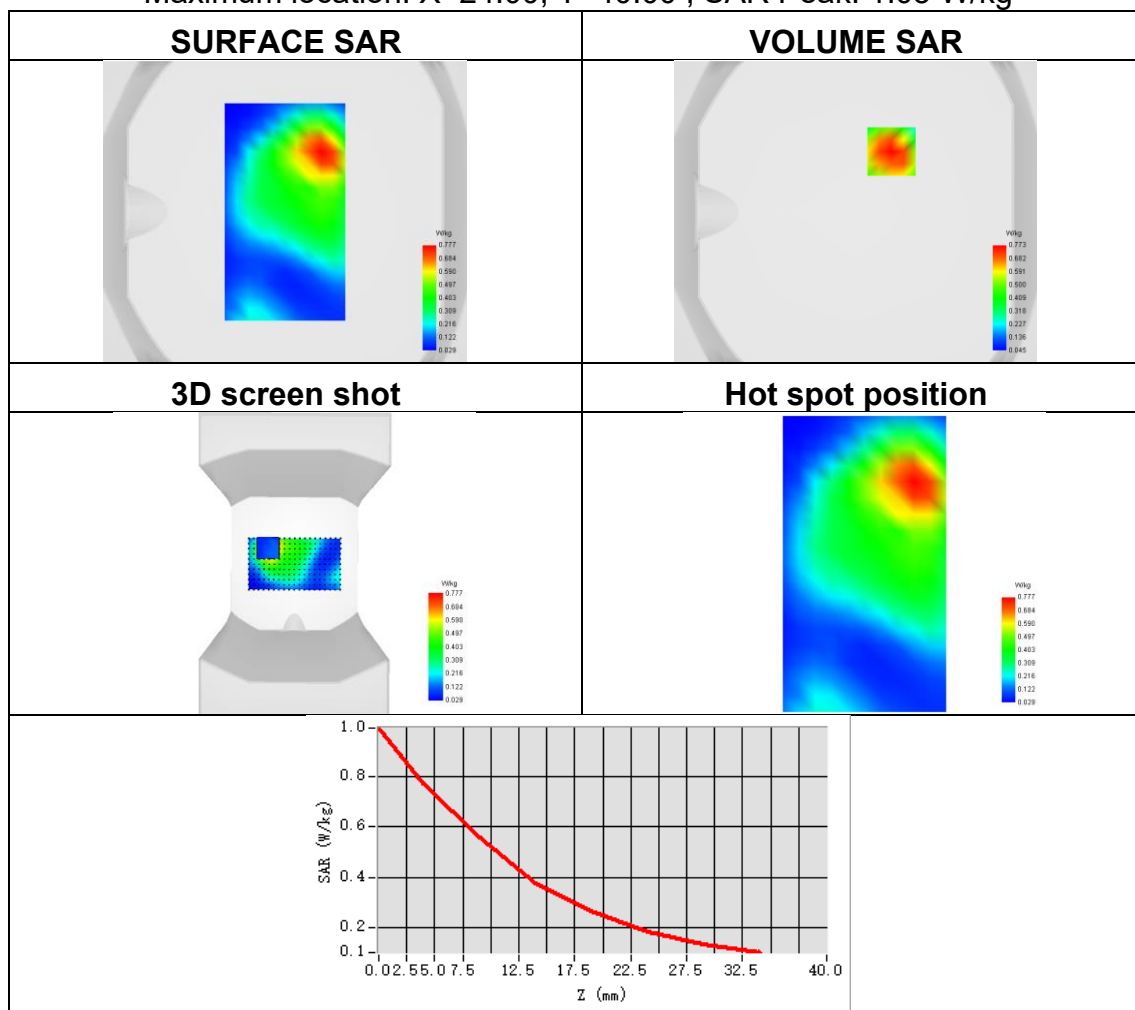




Plot 24:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 4
Signal	LTE FDD
Frequency	1732.5
SAR 10g (W/Kg)	0.481
SAR 1g (W/Kg)	0.735
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=24.00, Y=40.00 ; SAR Peak: 1.05 W/kg

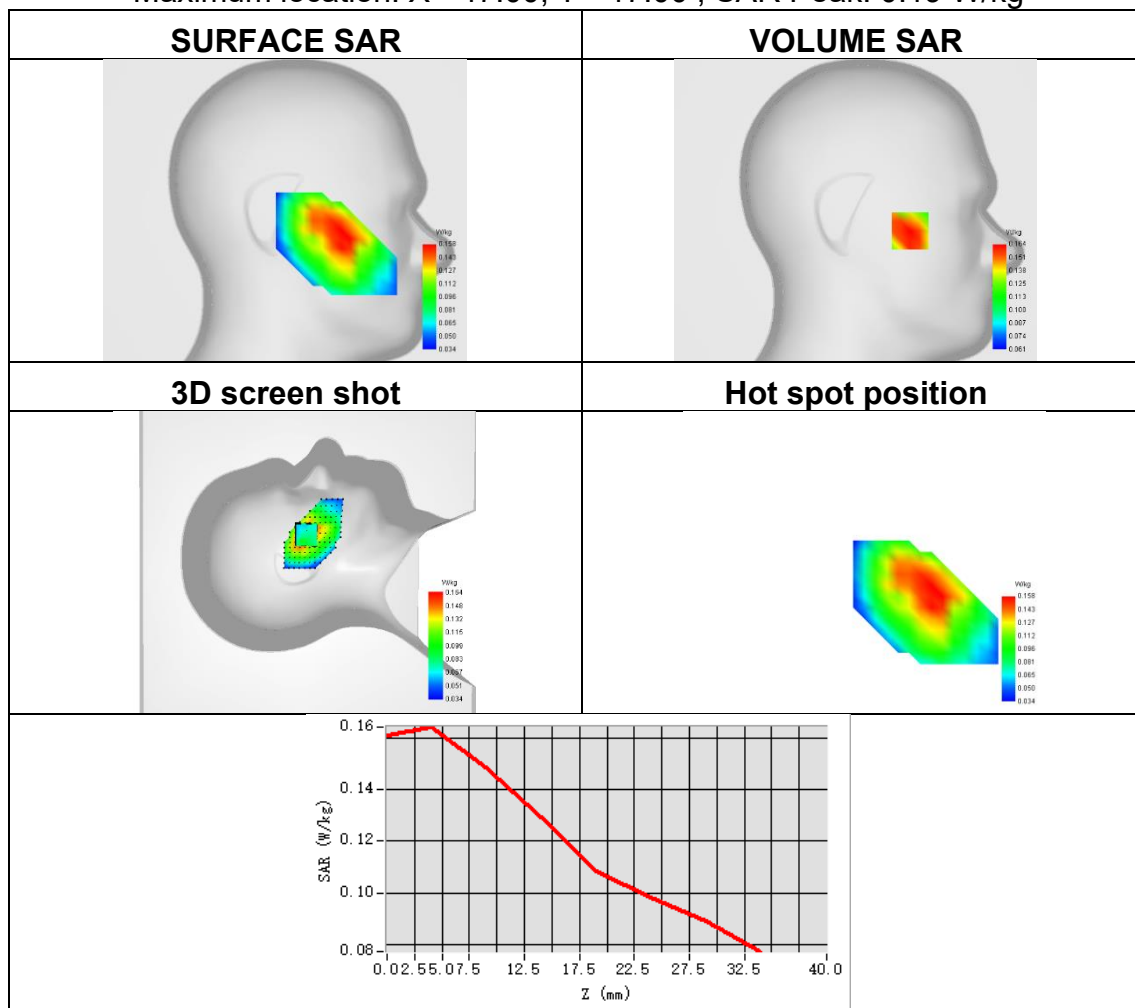




Plot 25:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.131
SAR 1g (W/Kg)	0.159
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

Maximum location: X=-47.00, Y=-17.00 ; SAR Peak: 0.19 W/kg

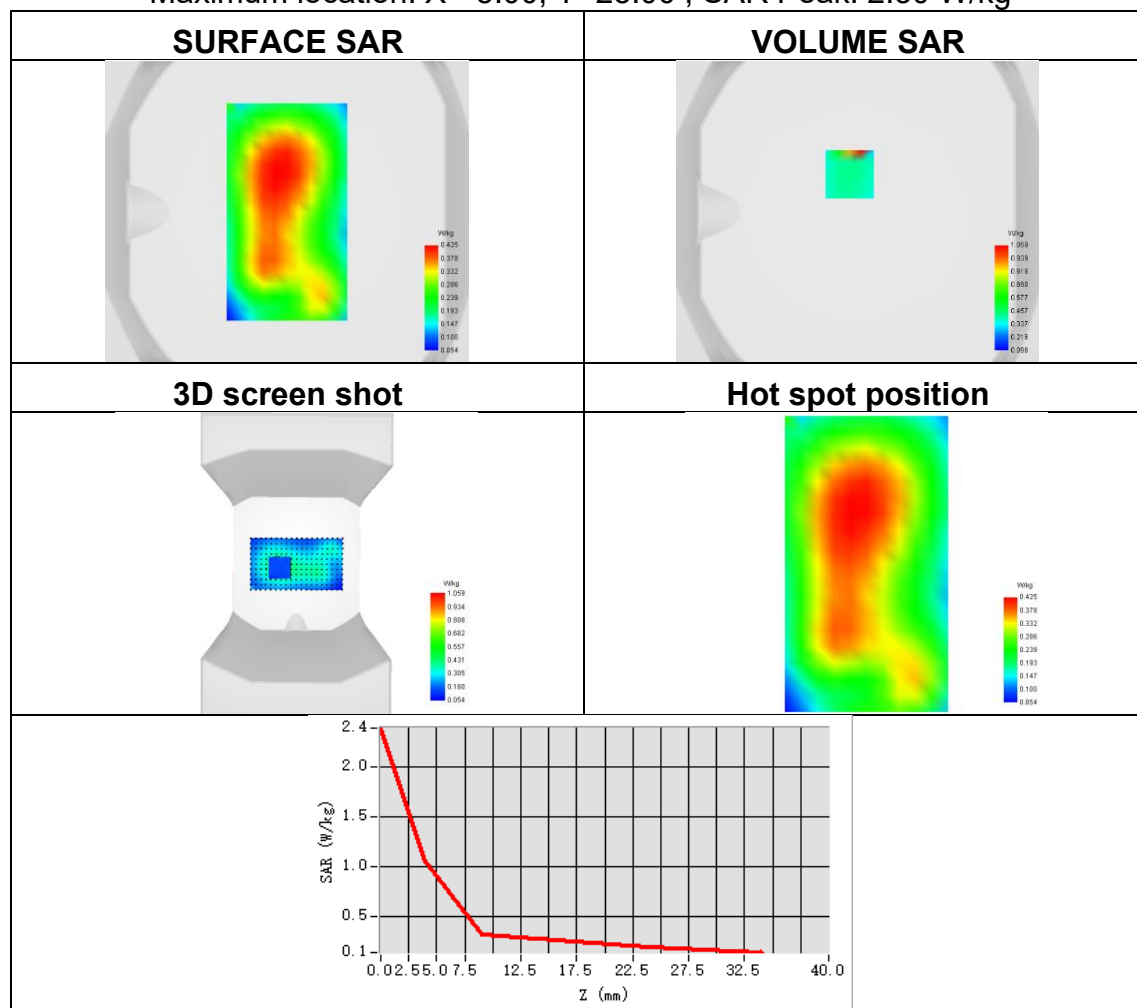




Plot 26:

Test Date	2025-11-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.305
SAR 1g (W/Kg)	0.725
ConvF	1.02
Relative permittivity	42.08
Conductivity (S/m)	0.91

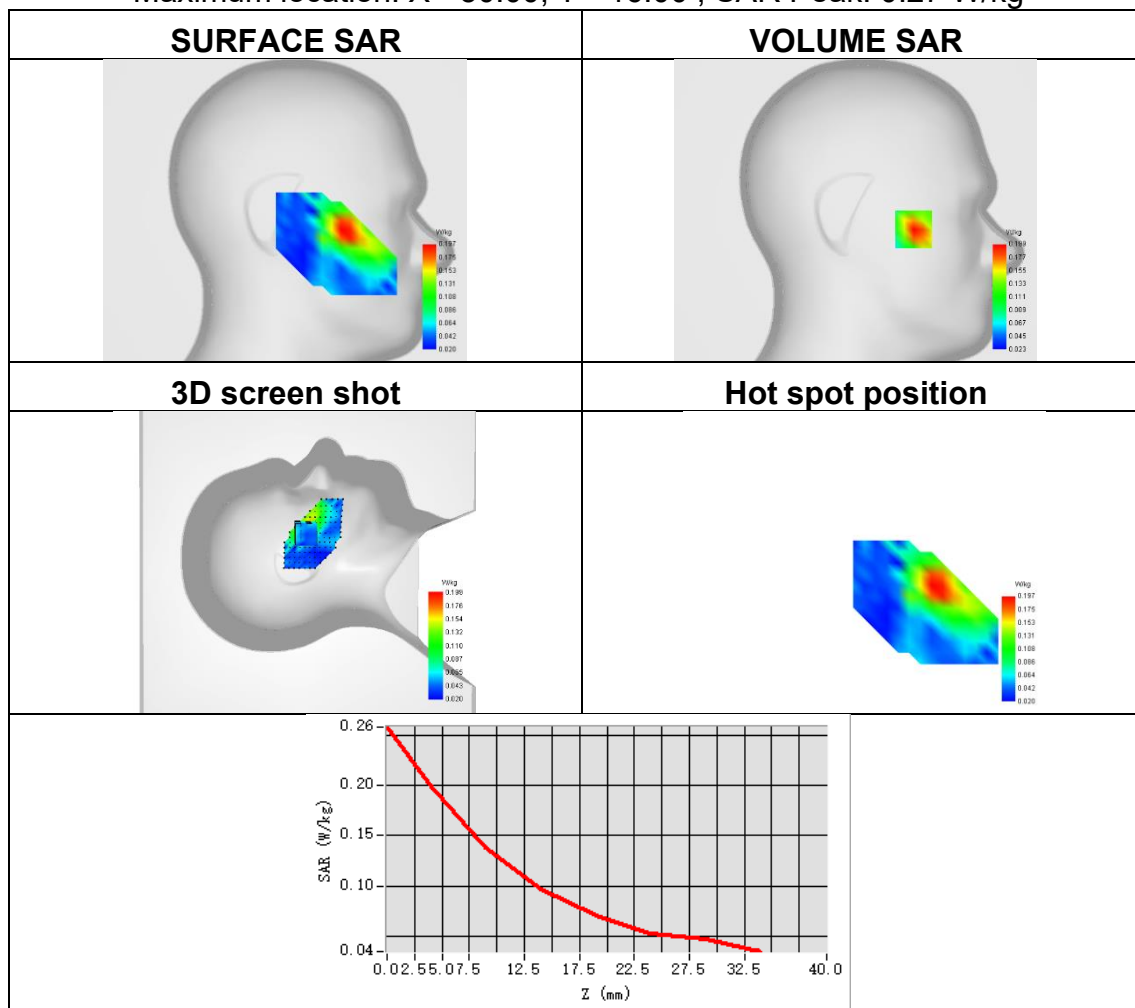
Maximum location: X=-5.00, Y=25.00 ; SAR Peak: 2.30 W/kg



Plot 27:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.116
SAR 1g (W/Kg)	0.186
ConvF	1.44
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=-50.00, Y=-16.00 ; SAR Peak: 0.27 W/kg

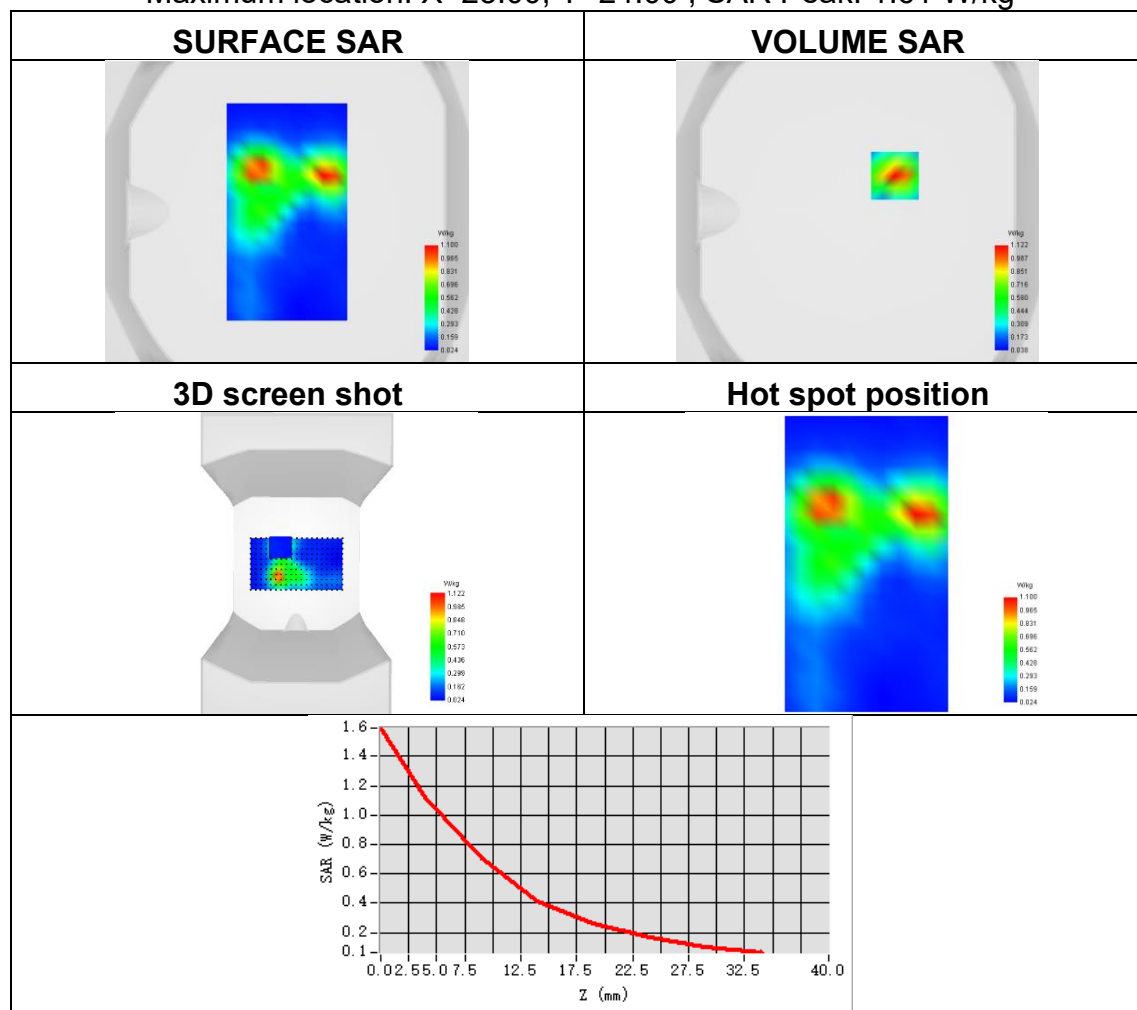




Plot 28:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.538
SAR 1g (W/Kg)	1.021
ConvF	1.44
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=25.00, Y=24.00 ; SAR Peak: 1.61 W/kg

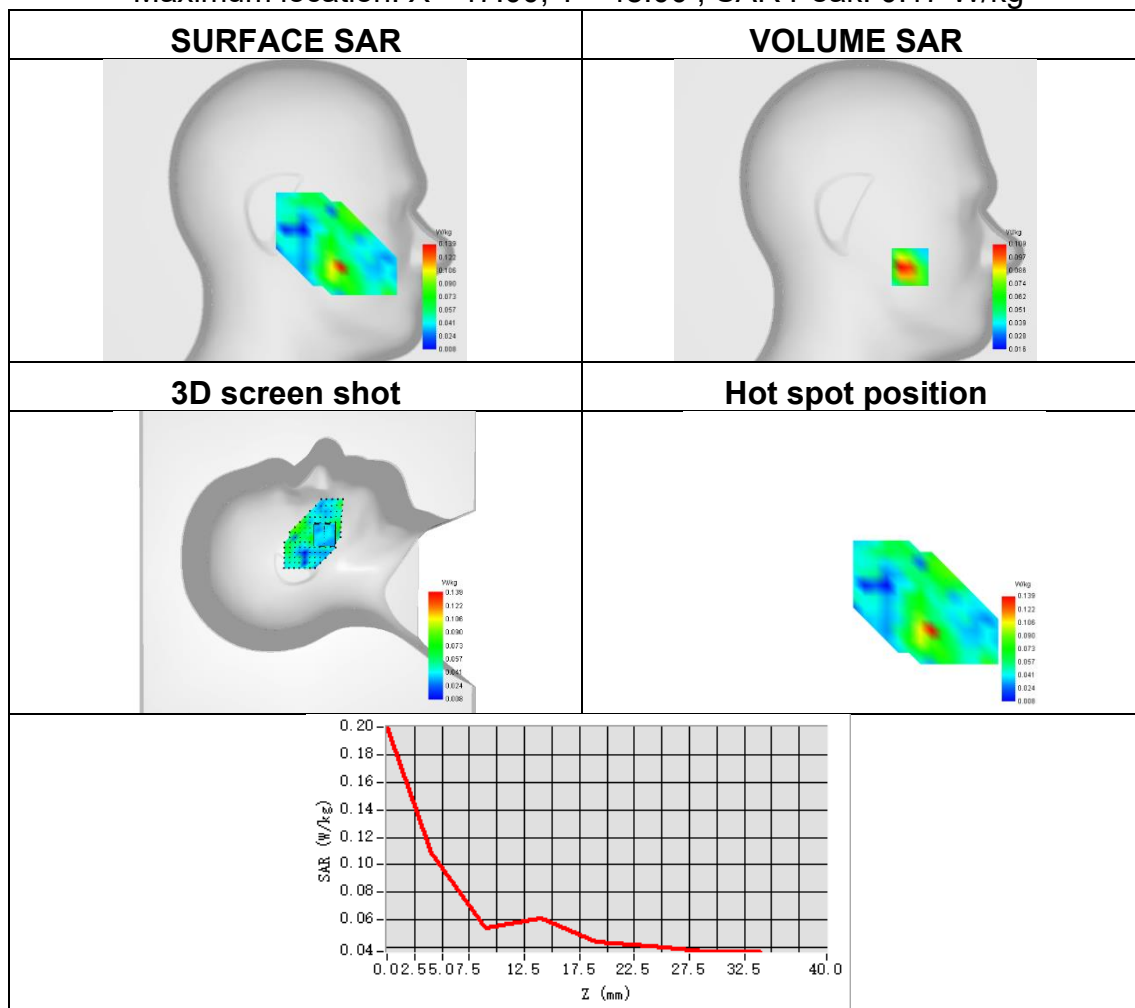




Plot 29:

Test Date	2025-11-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 38
Signal	LTE TDD
Frequency	2595
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.106
ConvF	1.44
Relative permittivity	40.04
Conductivity (S/m)	2.02

Maximum location: X=-47.00, Y=-48.00 ; SAR Peak: 0.17 W/kg

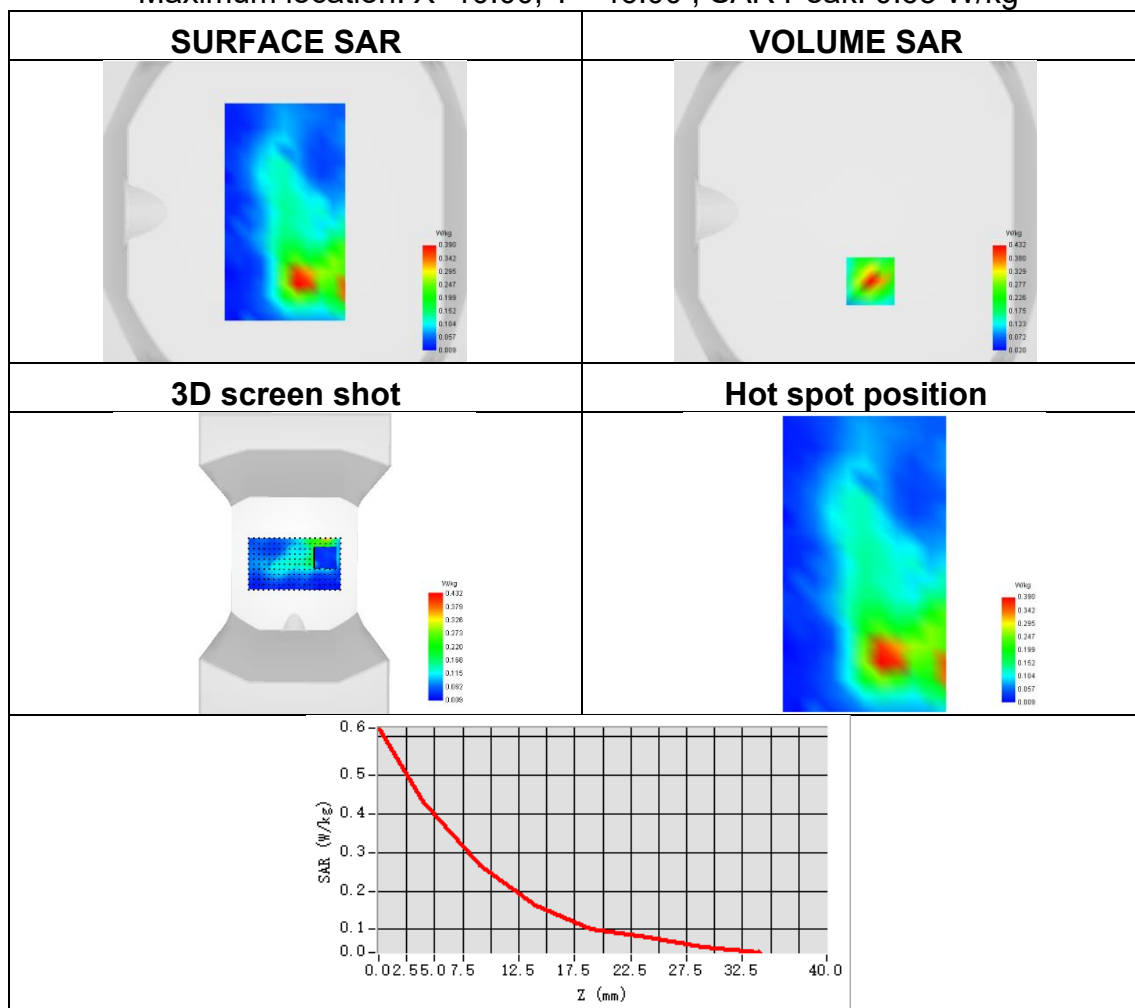




Plot 30:

Test Date	2025-11-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 38
Signal	LTE TDD
Frequency	2595
SAR 10g (W/Kg)	0.209
SAR 1g (W/Kg)	0.388
ConvF	1.44
Relative permittivity	40.04
Conductivity (S/m)	2.02

Maximum location: X=10.00, Y=-46.00 ; SAR Peak: 0.63 W/kg

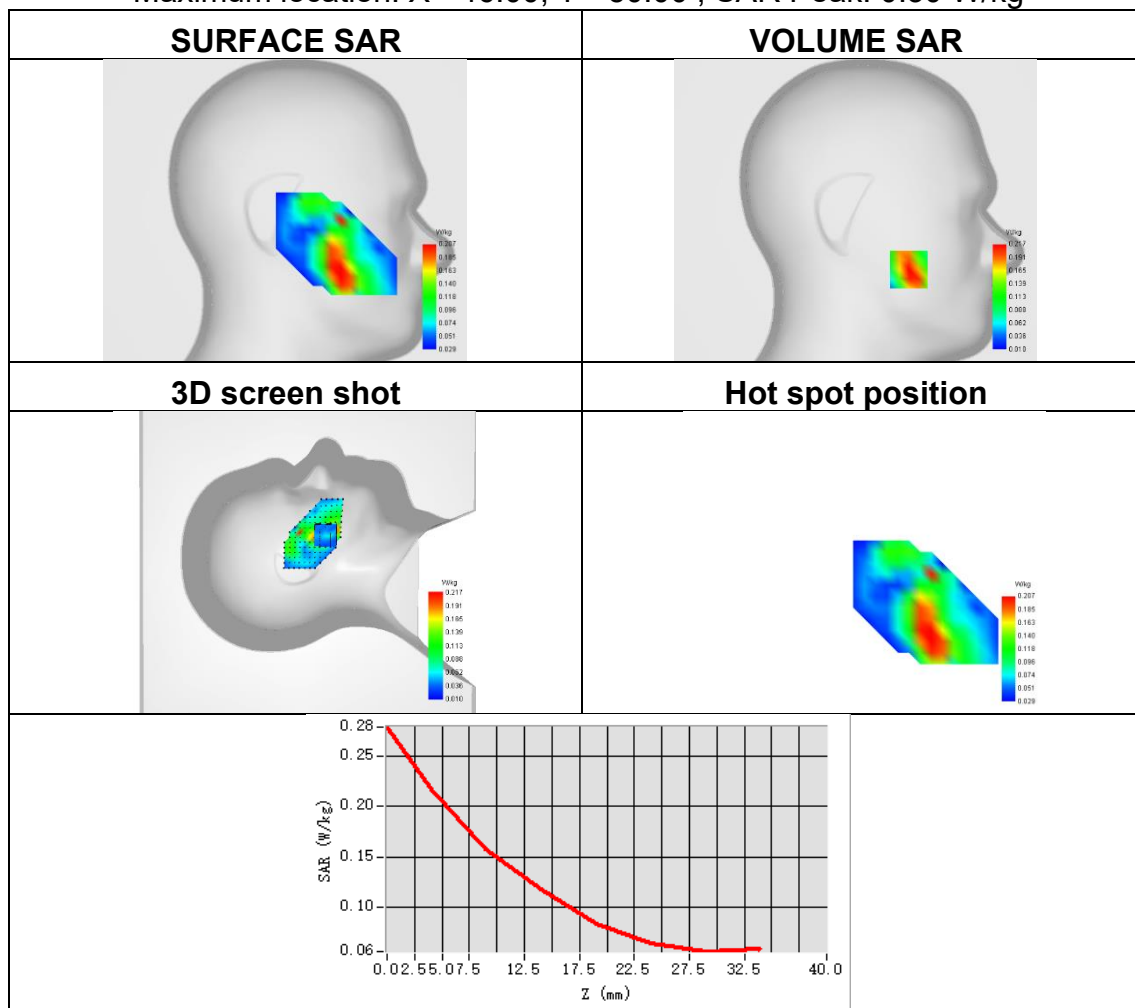




Plot 31:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 40
Signal	LTE TDD
Frequency	2355
SAR 10g (W/Kg)	0.131
SAR 1g (W/Kg)	0.210
ConvF	1.51
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=-46.00, Y=-50.00 ; SAR Peak: 0.30 W/kg

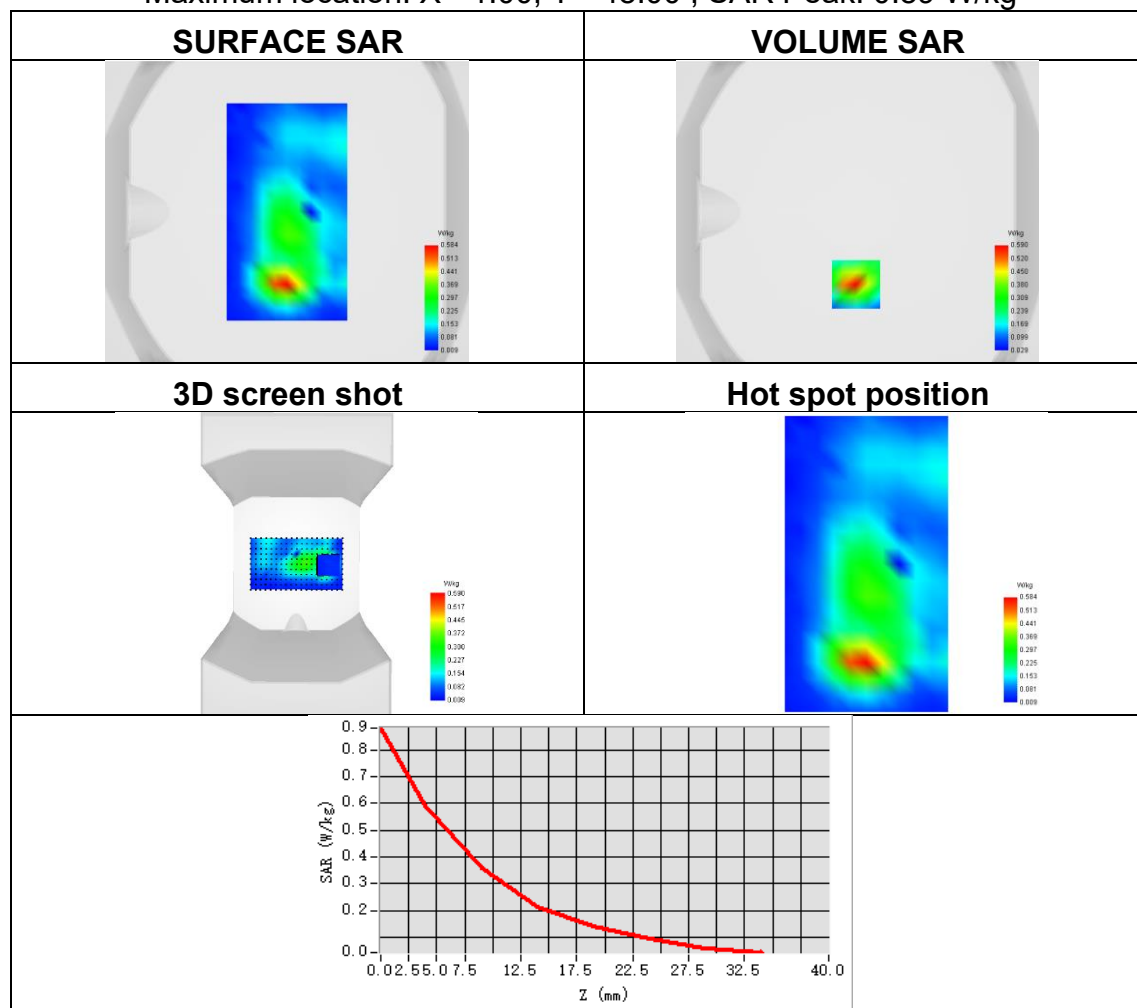




Plot 32:

Test Date	2025-11-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 40
Signal	LTE TDD
Frequency	2355
SAR 10g (W/Kg)	0.278
SAR 1g (W/Kg)	0.536
ConvF	1.51
Relative permittivity	40.45
Conductivity (S/m)	1.81

Maximum location: X=-1.00, Y=-48.00 ; SAR Peak: 0.89 W/kg

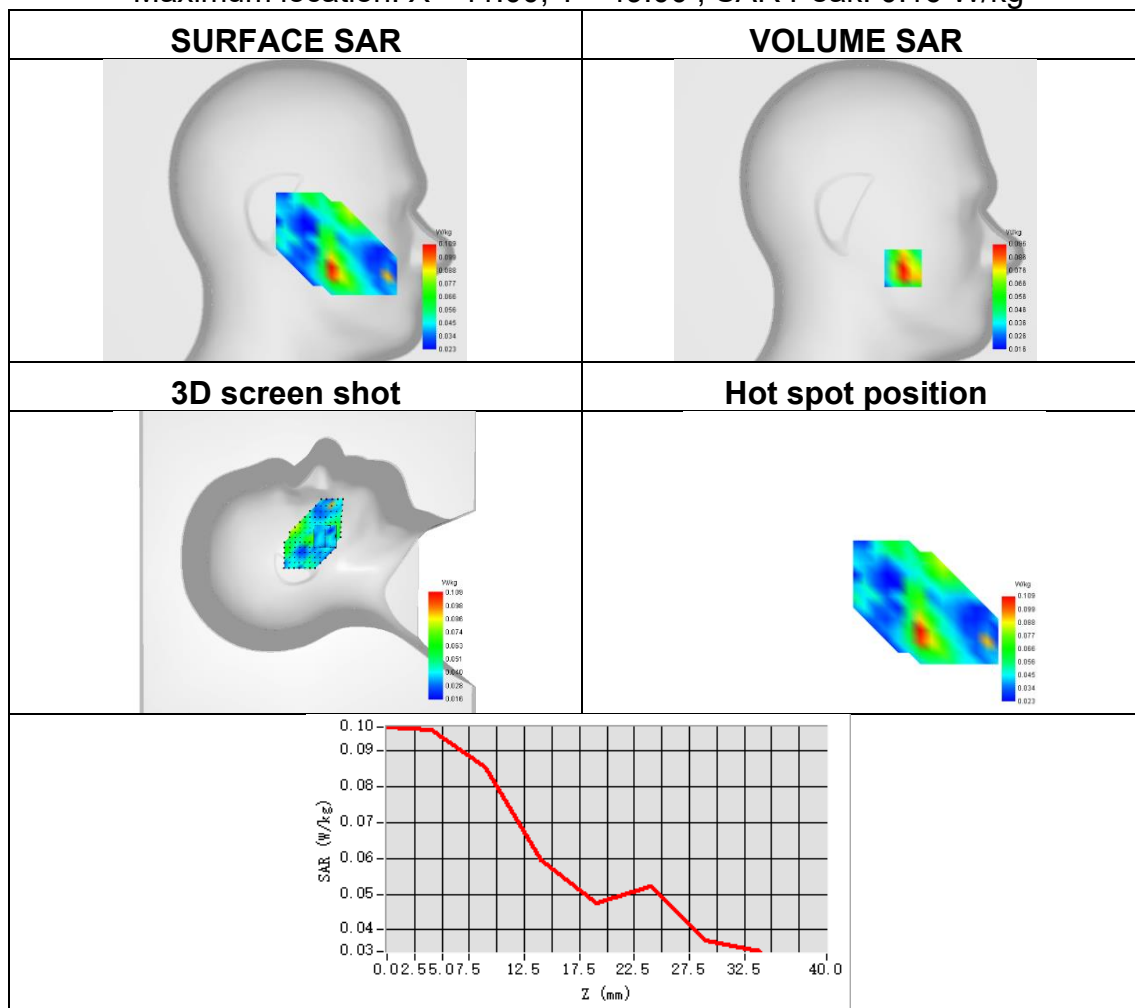




Plot 33:

Test Date	2025-11-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 41
Signal	LTE TDD
Frequency	2680
SAR 10g (W/Kg)	0.057
SAR 1g (W/Kg)	0.086
ConvF	1.44
Relative permittivity	40.04
Conductivity (S/m)	2.02

Maximum location: X=-41.00, Y=-49.00 ; SAR Peak: 0.16 W/kg

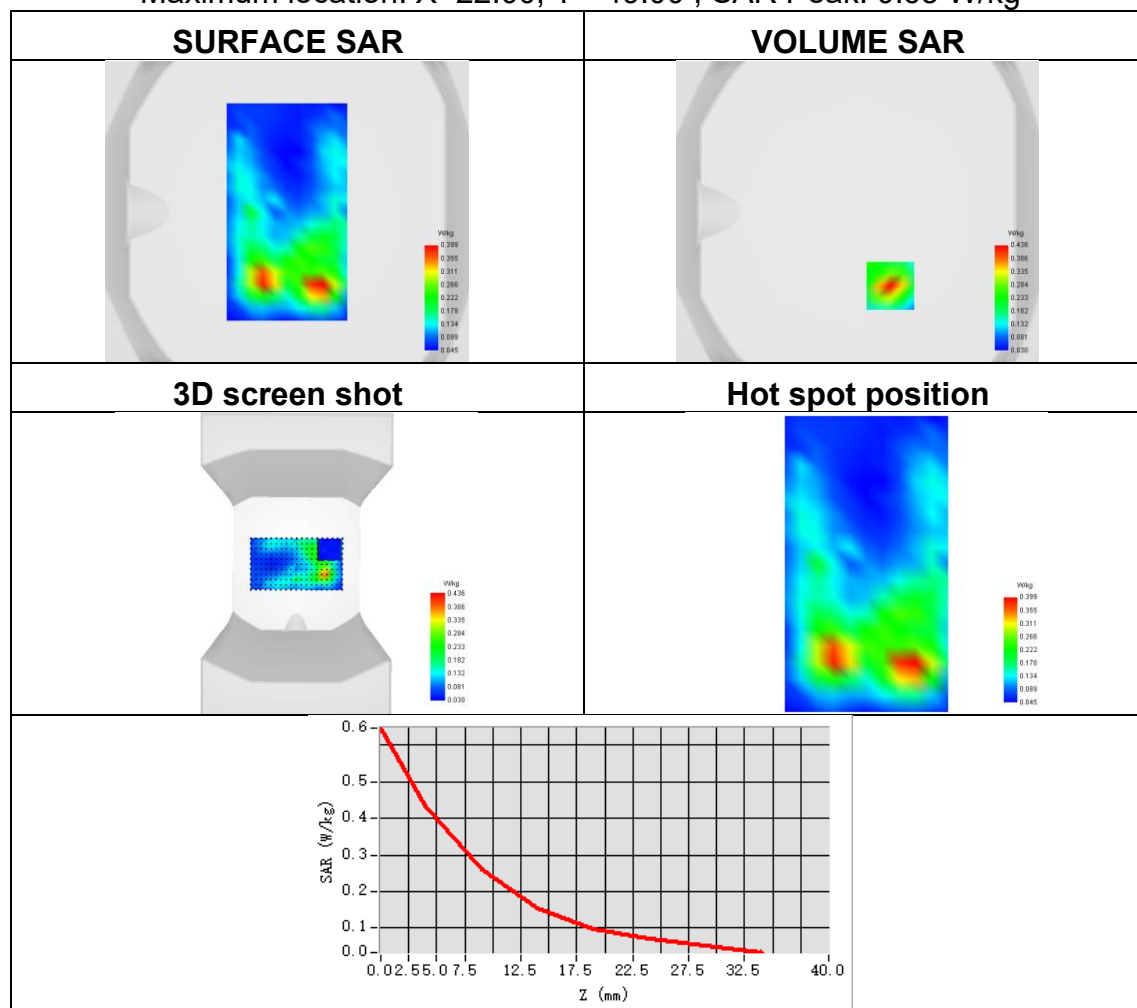




Plot 34:

Test Date	2025-11-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 41
Signal	LTE TDD
Frequency	2680
SAR 10g (W/Kg)	0.208
SAR 1g (W/Kg)	0.393
ConvF	1.44
Relative permittivity	40.04
Conductivity (S/m)	2.02

Maximum location: X=22.00, Y=-49.00 ; SAR Peak: 0.65 W/kg

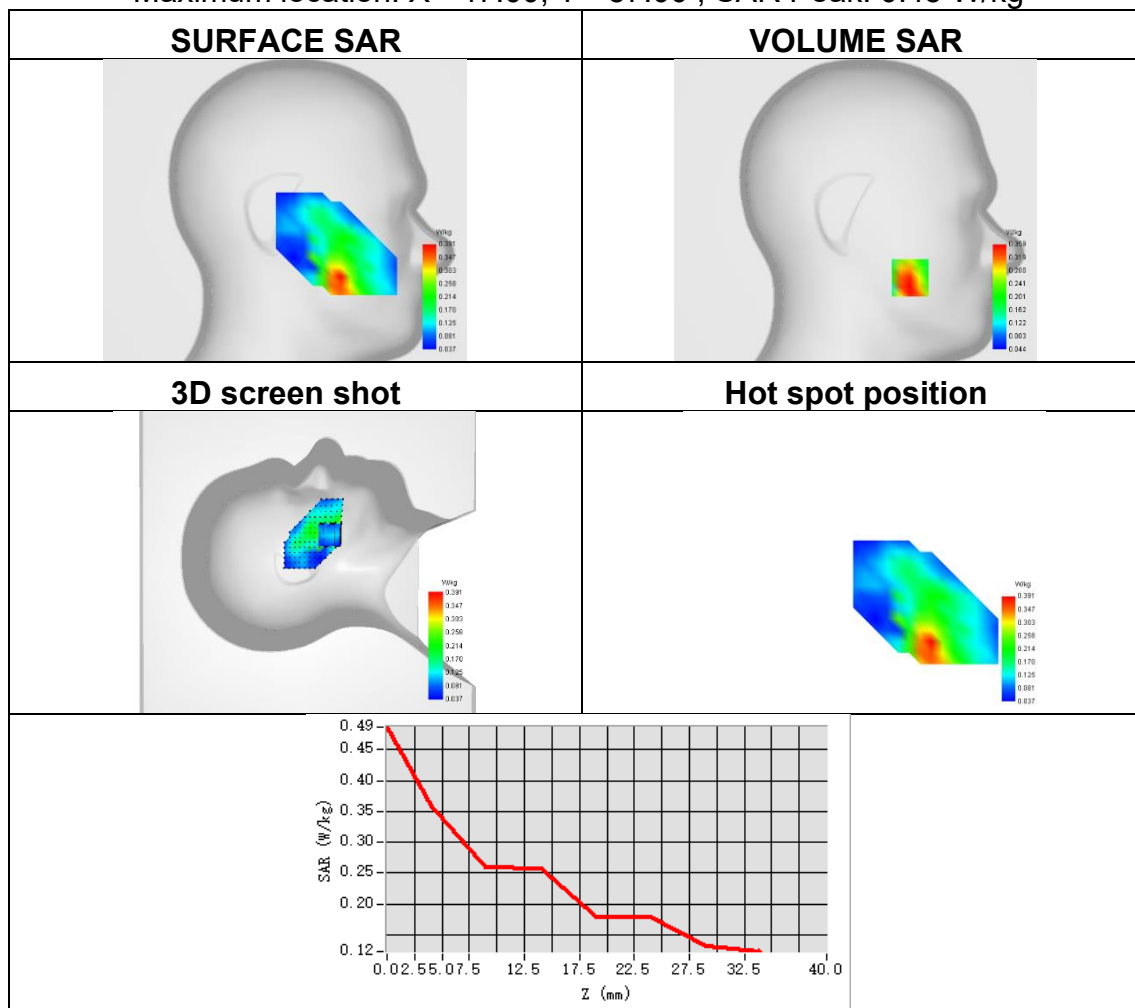




Plot 35:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 66
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.239
SAR 1g (W/Kg)	0.344
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=-47.00, Y=-57.00 ; SAR Peak: 0.45 W/kg

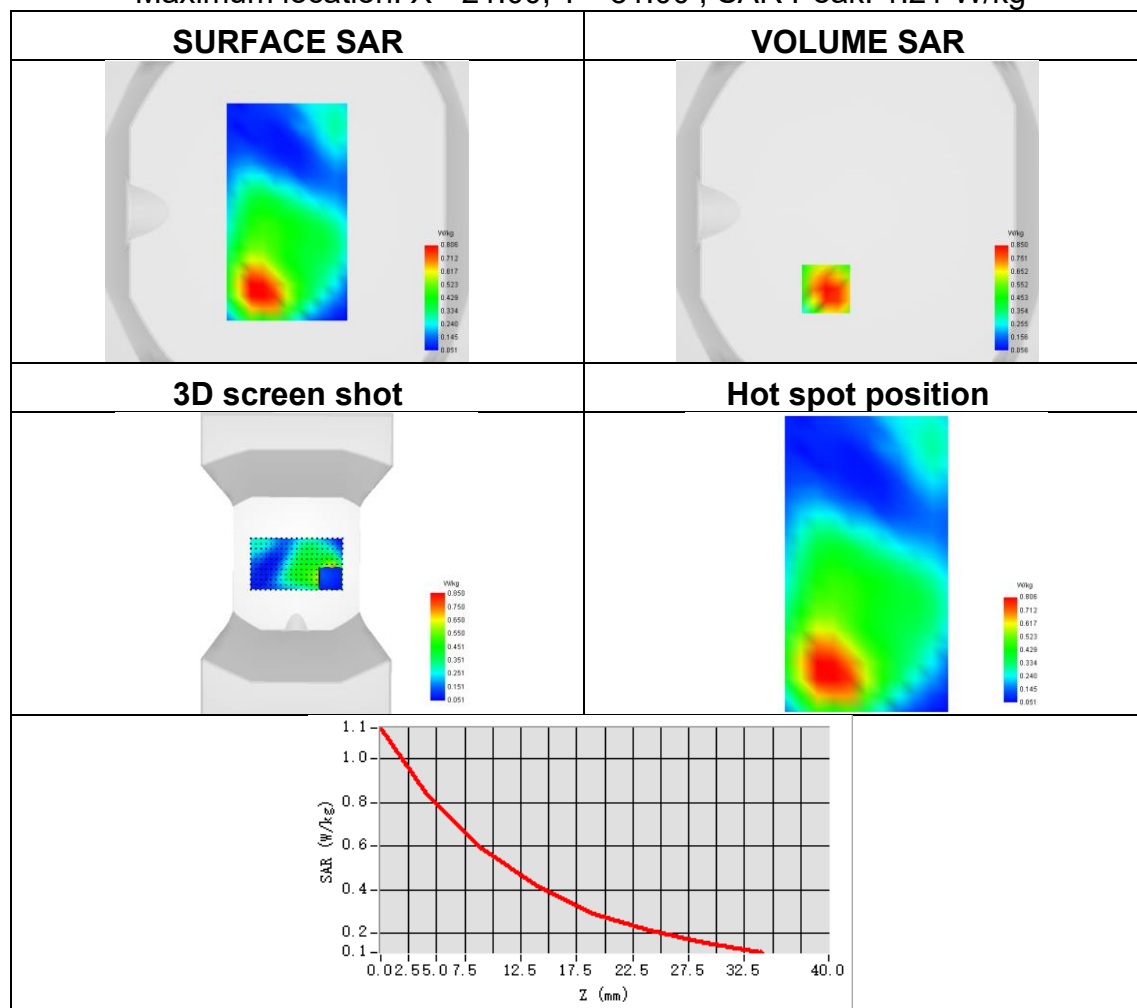




Plot 36:

Test Date	2025-11-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Front side
Band	LTE band 66
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.536
SAR 1g (W/Kg)	0.826
ConvF	1.21
Relative permittivity	40.50
Conductivity (S/m)	1.37

Maximum location: X=-21.00, Y=-51.00 ; SAR Peak: 1.21 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※