



SAR TEST REPORT

Product Name: Smart phone

Model Name: OB-A93, HIKE

FCC ID: 2BAVY-OBA93

Issued For : Shenzhen OBLUE Communication Technology Co.,Ltd.

Room 702, Hepingdayou industrial and trade industrial park,
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Issued By : Shenzhen LGT Test Service Co., Ltd.

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Date of Issue Jun. 19, 2025

Max. SAR (1g) Head:0.867 W/kg
Body:0.922 W/kg

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Rev.	Issue Date	Contents
00	Jun. 19, 2025	Initial Issue



TEST REPORT CERTIFICATION

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Product Name Smart phone

Trademark 8849, Unihertz, iHunt

Model Name OB-A93, HIKE

Sample number LGT2505102

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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1. General Information

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

1.1 EUT Description

Product Name	Smart phone		
Trademark	8849, Unihertz, iHunt		
Model Name	OB-A93		
Series Model	HIKE		
Model Difference	Only the market models are different		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	G92_V1.2		
Software Version	OB-A93_20250522		
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 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 814 ~ 824 MHz / 824 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 40: 2305 ~ 2315 MHz / 2350 ~ 2360 MHz LTE Band 41: 2555 ~ 2655 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 NFC: 13.56 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	0.197	0.464
	PCS 1900	0.191	0.735
	WCDMA Band II	0.343	0.730
	WCDMA Band IV	0.176	0.922
	WCDMA Band V	0.258	0.267
	LTE Band 2	0.254	0.861
	LTE Band 4	0.189	0.811
	LTE Band 5	0.867	0.415



	LTE Band 7	0.179	0.354
	LTE Band 12	0.147	0.197
	LTE Band 13	0.137	0.264
	LTE Band 17	0.218	0.218
	LTE Band 25	0.273	0.804
	LTE Band 26	0.179	0.294
	LTE Band 38	0.093	0.348
	LTE Band 40	0.224	0.604
	LTE Band 41	0.189	0.404
	2.4G WLAN	0.240	0.177
	5.2G WLAN	0.366	0.463
	5.3G WLAN	0.424	0.870
	5.6G WLAN	0.302	0.751
	5.8G WLAN	0.313	0.538
	Bluetooth ^{Note}	0.148	0.148
	NFC ^{Note}	0.0000006	0.0000006
1-g Sum SAR		1.291	1.581
Battery	Rated Voltage:7.74V Capacity: 10500mAh		
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 802.11n/g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ax(OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 5G WLAN: 802.11a/n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac(OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM 802.11ax(OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK NFC: ASK		
Antenna Specification	GSM/WCDMA/CDMA/LTE/NR: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna NFC: Coil 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 and NFC value was Estimated.			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

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



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-2019	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

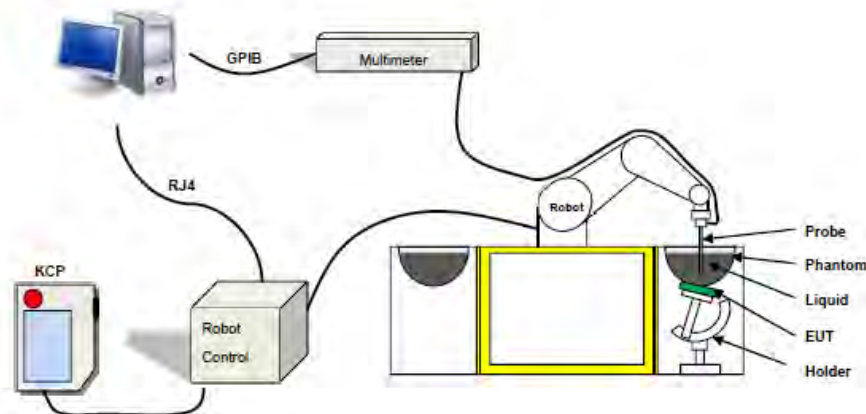
$$SAR = \frac{\sigma E^2}{\rho}$$

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 SN 04/22 EPG0364 with following specifications is used

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 600 MHz to 6 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

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

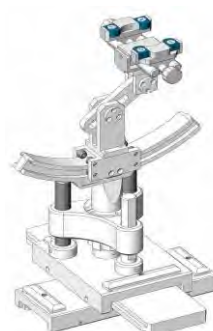


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 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]					
2025-05-01	21.7	57	750	21.4	Permittivity	41.90	42.03	0.31	±5
					Conductivity	0.89	0.90	1.12	±5
2025-04-29	20.8	48	835	20.5	Permittivity	41.50	41.01	-1.18	±5
					Conductivity	0.90	0.93	3.33	±5
2025-05-03	20.6	57	1800	20.4	Permittivity	40.00	40.49	1.23	±5
					Conductivity	1.40	1.42	1.43	±5
2025-04-30	24	44	1900	23.7	Permittivity	40.00	40.83	2.08	±5
					Conductivity	1.40	1.42	1.43	±5
2025-03-17	23.8	44	1900	23.5	Permittivity	40.00	40.79	1.98	±5
					Conductivity	1.40	1.45	3.57	±5
2025-05-04	23.1	54	2450	22.8	Permittivity	39.20	39.99	2.02	±5
					Conductivity	1.80	1.81	0.56	±5
2025-05-02	23.4	50	2600	23.1	Permittivity	39.00	39.66	1.69	±5
					Conductivity	1.96	1.94	-1.02	±5
2025-05-05	23.6	48	5200	23.3	Permittivity	36.00	36.98	2.72	±5
					Conductivity	4.66	4.61	-1.07	±5
2025-05-04	23.2	54	5400	22.9	Permittivity	35.80	36.71	2.54	±5
					Conductivity	4.86	4.80	-1.23	±5
2025-05-05	23.6	48	5600	23.3	Permittivity	35.55	35.99	1.24	±5
					Conductivity	5.07	5.07	0.10	±5
2025-05-06	21.8	49	5800	21.5	Permittivity	35.30	36.33	2.92	±5
					Conductivity	5.27	5.24	-0.57	±5

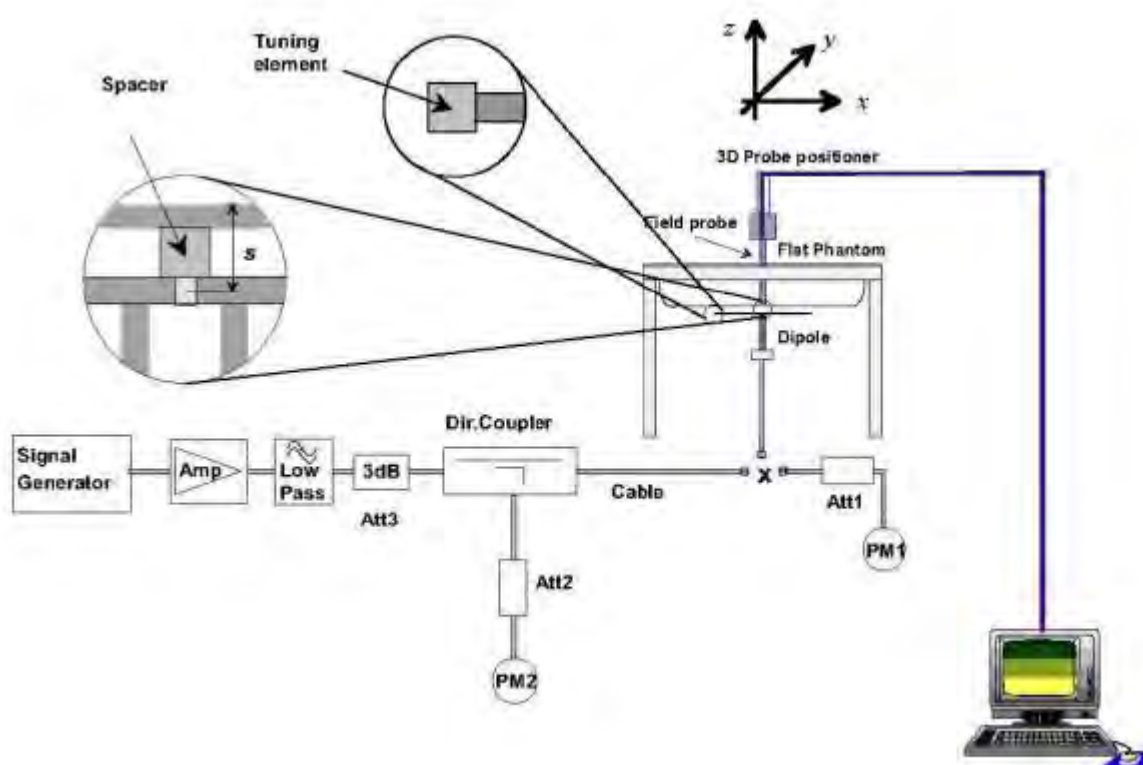


5. SAR System Validation

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)	(%)
2025-05-01	750	100	0.819	8.19	8.37	-2.15	10
2025-04-29	835	100	0.958	9.58	9.73	-1.54	10
2025-05-03	1800	100	3.894	38.94	39.03	-0.23	10
2025-04-30	1900	100	4.122	41.22	40.89	0.81	10
2025-03-17	1900	100	4.093	40.93	40.89	0.10	10
2025-05-04	2450	100	5.464	54.64	54.21	0.79	10
2025-05-02	2600	100	5.597	55.97	56.56	-1.04	10
2025-05-05	5200	100	8.070	80.70	80.96	-0.32	10
2025-05-04	5400	100	8.558	85.58	84.63	1.12	10
2025-05-05	5600	100	8.189	81.89	80.97	1.14	10
2025-05-06	5800	100	8.018	80.18	81.68	-1.84	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.

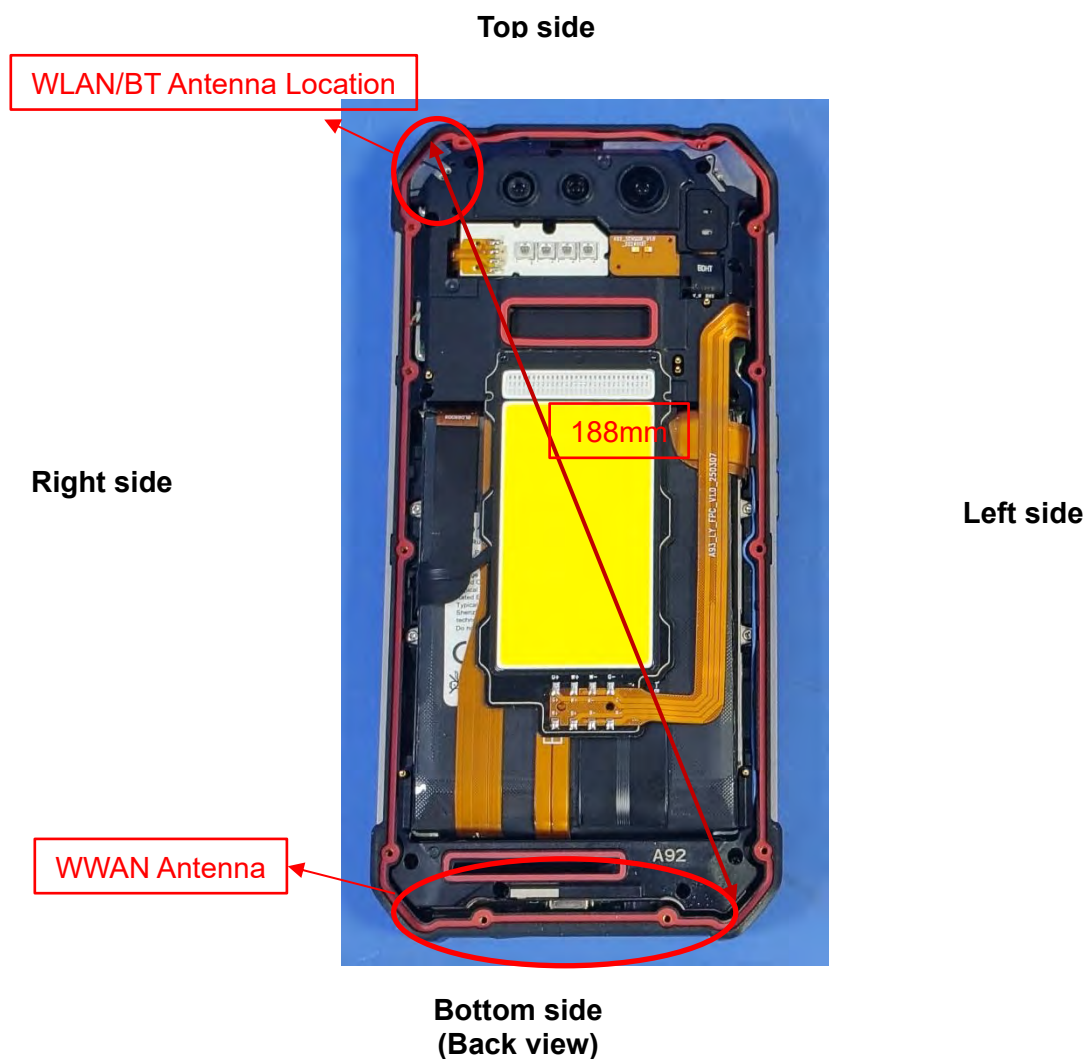
➤ Area Scan & Zoom Scan

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 Smart phone, 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	72	≤5	≤5	160
WWAN	≤5	≤5	≤5	14	168	≤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	1880	1852.4	1712.6	846.6
	Maximum Turn-up power (dBm)	32	28	24.5	22.3	23.7
	Maximum rated power(mW)	1584.89	630.96	281.84	169.82	234.42
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	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	10.94	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	10.94	11.02	11.46	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	14	14	14	14	14
	exclusion threshold(mW)	45.92	30.63	30.86	32.09	45.65
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	168	168	168	168	168
	exclusion threshold(mW)	822.12	1289.40	1290.21	1294.62	829.02
	Testing required?	YES	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	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 12
	Calculated Frequency (MHz)	1860	1745	844	2510	704
	Maximum Turn-up power (dBm)	24.5	22	24.8	24	24.42
	Maximum rated power(mW)	281.84	158.49	302.00	251.19	276.69
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.36	16.33	9.47	17.88
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.36	16.33	9.47	17.88
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.36	16.33	9.47	17.88
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	14	14	14	14	14
	exclusion threshold(mW)	30.80	31.79	45.72	26.51	50.06
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	168	168	168	168	168
	exclusion threshold(mW)	1289.99	1293.55	827.22	1274.68	732.59
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.36	16.33	9.47	17.88
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 38
	Calculated Frequency (MHz)	782	709	1860	841.5	2610
	Maximum Turn-up power (dBm)	24.5	24.5	24.5	24.7	24
	Maximum rated power(mW)	281.84	281.84	281.84	295.12	251.19
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.81	11.00	16.35	9.28
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.81	11.00	16.35	9.28
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.81	11.00	16.35	9.28
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	14	14	14	14	14
	exclusion threshold(mW)	47.49	49.88	30.80	45.78	26.00
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	168	168	168	168	168
	exclusion threshold(mW)	784.80	735.89	1289.99	825.50	1272.85
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.81	11.00	16.35	9.28
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 40	LTE Band 41	BT	2.4G WLAN
	Calculated Frequency (MHz)	2355	2645	2441	2437
	Maximum Turn-up power (dBm)	19.5	24.3	5.5	16.5
	Maximum rated power(mW)	89.13	269.15	3.55	44.67
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.77	9.22	9.60	9.61
	Testing required?	YES	YES	NO	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	9.77	9.22	9.60	9.61
	Testing required?	YES	YES	NO	YES
Left Edge	Separation distance (mm)	5	5	72	72
	exclusion threshold(mW)	9.77	9.22	316.01	316.09
	Testing required?	YES	YES	NO	NO
Right Edge	Separation distance (mm)	14	14	5	5
	exclusion threshold(mW)	27.37	25.82	9.60	9.61
	Testing required?	YES	YES	NO	YES
Top Edge	Separation distance (mm)	168	168	5	5
	exclusion threshold(mW)	1277.75	1272.23	9.60	9.61
	Testing required?	NO	NO	NO	YES
Bottom Edge	Separation distance (mm)	5	5	160	160
	exclusion threshold(mW)	9.77	9.22	1196.01	1196.09
	Testing required?	YES	YES	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	5180	5310	5700	5795
	Maximum Turn-up power (dBm)	14.5	14.3	14.5	14.5
	Maximum rated power(mW)	28.18	26.92	28.18	28.18
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.51	6.28	6.23
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.51	6.28	6.23
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	72	72	72	72
	exclusion threshold(mW)	285.91	285.09	282.83	282.31
	Testing required?	NO	NO	NO	NO
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.51	6.28	6.23
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.51	6.28	6.23
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	160	160	160	160
	exclusion threshold(mW)	1165.91	1165.09	1162.83	1162.31
	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:

$$\frac{[(\text{max.power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance,}]}{}$$



mm)]*[$\sqrt{f(\text{GHz})}$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, $f(\text{GHz})$ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

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

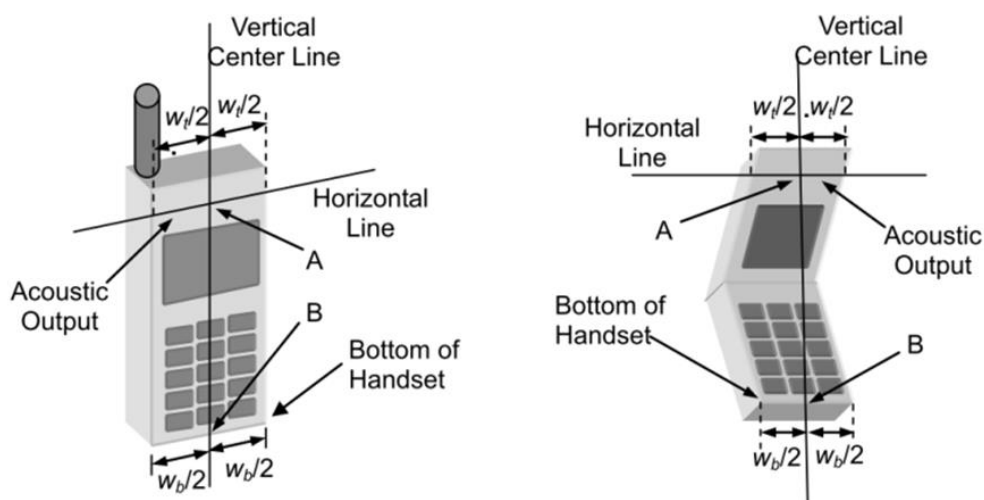
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a)[threshold at 50mm in step 1]+(test separation distance -50mm)*($f(\text{MHz})/150$)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in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

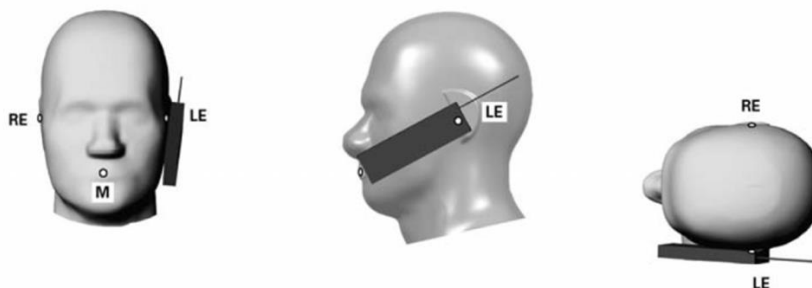
8.1 Define Two Imaginary Lines on the Handset

- (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.



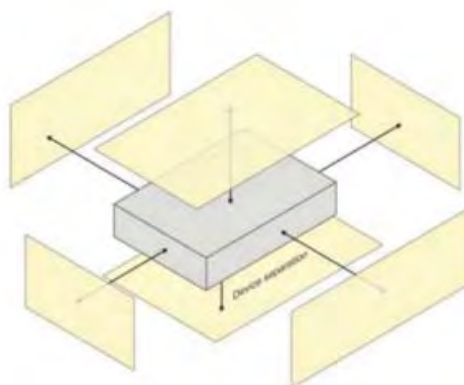
Body-worn Position Conditions:

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)	31.43	31.79	31.58	27.98	28.57	28.39
GPRS (GMSK, 1-Slot)	31.44	31.80	31.60	27.92	28.48	28.29
GPRS (GMSK, 2-Slot)	30.84	31.23	31.04	26.94	27.54	27.30
GPRS (GMSK, 3-Slot)	29.18	29.62	29.42	25.41	25.98	25.71
GPRS (GMSK, 4-Slot)	28.15	28.60	28.38	24.93	25.45	25.17
EGPRS (8PSK, 1-Slot)	25.63	26.86	26.44	23.16	23.96	23.25
EGPRS (8PSK, 2-Slot)	25.22	25.61	25.65	22.63	23.39	21.95
EGPRS (8PSK, 3-Slot)	22.48	23.60	23.04	20.79	21.09	20.53
EGPRS (8PSK, 4-Slot)	21.93	22.49	21.76	20.02	20.22	19.34
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	22.40	22.76	22.55	18.95	19.54	19.36
GPRS (GMSK, 1-Slot)	22.41	22.77	22.57	18.89	19.45	19.26
GPRS (GMSK, 2-Slot)	24.82	25.21	25.02	20.92	21.52	21.28
GPRS (GMSK, 3-Slot)	24.92	25.36	25.16	21.15	21.72	21.45
GPRS (GMSK, 4-Slot)	25.14	25.59	25.37	21.92	22.44	22.16
EGPRS (8PSK, 1-Slot)	16.60	17.83	17.41	14.13	14.93	14.22
EGPRS (8PSK, 2-Slot)	19.20	19.59	19.63	16.61	17.37	15.93
EGPRS (8PSK, 3-Slot)	18.22	19.34	18.78	16.53	16.83	16.27
EGPRS (8PSK, 4-Slot)	18.92	19.48	18.75	17.01	17.21	16.33
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	24.29	24.27	24.25	22.19	22.06	21.95	23.46	23.45	23.52
HSDPA Subtest-1	23.37	23.34	23.3	21.26	21.12	21.04	23.29	22.88	22.73
HSDPA Subtest-2	22.89	23.09	22.8	20.69	20.48	20.54	22.89	22.53	22.62
HSDPA Subtest-3	22.01	21.68	21.87	19.65	19.68	19.43	22.6	22.41	22.15
HSDPA Subtest-4	21.85	21.95	21.83	19.32	19.63	19.65	22.25	22.11	22.23
HSUPA Subtest-1	22.12	23.12	23.13	20.1	20.91	20.81	23.27	22.66	22.6
HSUPA Subtest-2	23.24	23.24	23.15	21.13	20.98	20.81	23.18	22.91	22.7
HSUPA Subtest-3	21.25	22	22.07	19.36	19.81	19.7	23.07	22.41	22.37
HSUPA Subtest-4	23.29	23.26	23.25	21.22	21.1	21.02	23.03	22.81	22.71
HSUPA Subtest-5	21.8	22.66	22.68	19.75	20.22	20.26	23.01	22.21	22.35

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)	Average Power (dBm)	Output Power (mW)
802.11b	1	2412	15.79	37.93
	7	2437	16.32	42.85
	11	2462	15.75	37.58
802.11g	1	2412	14.9	30.90
	7	2437	15.35	34.28
	11	2462	14.92	31.05
802.11n-HT20	1	2412	14.74	29.79
	7	2437	15.29	33.81
	11	2462	14.77	29.99
802.11n-HT40	3	2422	15.41	34.75
	6	2437	15.32	34.04
	9	2452	15.13	32.58

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	2.72	1.87
	39	2441	5.21	3.32
	78	2480	3.75	2.37
$\pi/4$ -QPSK(2Mbps)	0	2402	1.98	1.58
	39	2441	4.44	2.78
	78	2480	3.03	2.01
8DPSK(3Mbps)	0	2402	2.14	1.64
	39	2441	4.62	2.90
	78	2480	3.17	2.07

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	0.63	1.16
	19	2440	3.09	2.04
	39	2480	1.55	1.43
GFSK(2Mbps)	0	2402	0.78	1.20
	19	2440	2.99	1.99
	39	2480	1.55	1.43



NFC

NFC		
Mode	Field strength(dBuV/m)	ERP(dBm)
NFC	56.67	-38.53

WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	14.35	27.23
	40	5200	13.74	23.66
	48	5240	13.55	22.65
802.11n-HT20	36	5180	13.29	21.33
	40	5200	13.57	22.75
	48	5240	13.66	23.23
802.11n-HT40	38	5190	13.75	23.71
	46	5230	13.96	24.89
802.11ac-VHT20	36	5180	13.59	22.86
	40	5200	13.19	20.84
	48	5240	13.26	21.18
802.11ac-VHT40	38	5190	13.11	20.46
	46	5230	13.17	20.75
802.11ac-VHT80	42	5210	13.06	20.23

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	13.84	24.21
	60	5300	13.6	22.91
	64	5320	13.82	24.10
802.11n-HT20	52	5260	13.72	23.55
	60	5300	13.71	23.50
	64	5320	13.78	23.88
802.11n-HT40	54	5270	13.99	25.06
	62	5310	14.06	25.47
802.11ac-VHT20	52	5260	13.2	20.89
	60	5300	13.44	22.08
	64	5320	13.06	20.23
802.11ac-VHT40	54	5270	13.32	21.48
	62	5310	13.35	21.63
802.11ac-VHT80	58	5290	13.2	20.89



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	13.68	23.33
	116	5580	13.84	24.21
	140	5700	14.22	26.42
802.11n-HT20	100	5500	13.62	23.01
	116	5580	14.01	25.18
	140	5700	13.99	25.06
802.11n-HT40	102	5510	13.94	24.77
	110	5550	14.08	25.59
	134	5670	14.16	26.06
802.11ac-VHT20	100	5500	12.98	19.86
	116	5580	13.57	22.75
	140	5700	13.57	22.75
802.11ac-VHT40	102	5510	13.37	21.73
	110	5550	13.49	22.34
	134	5670	13.43	22.03
802.11ac-VHT80	106	5530	13.21	20.94
	122	5610	13.55	22.65

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	14.17	26.12
	157	5785	14.18	26.18
	165	5825	13.95	24.83
802.11n-HT20	149	5745	14.14	25.94
	157	5785	14.32	27.04
	165	5825	14.14	25.94
802.11n-HT40	151	5755	14.26	26.67
	159	5795	14.33	27.10
802.11ac-VHT20	149	5745	13.6	22.91
	157	5785	13.64	23.12
	165	5825	13.53	22.54
802.11ac-VHT40	151	5755	13.45	22.13
	159	5795	13.76	23.77
802.11ac-VHT80	155	5775	13.62	23.01



LTE Conducted Power

General Note:

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



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.86	23.82	23.88
1.4	1	2		23.96	23.93	23.96
1.4	1	5		23.86	23.82	23.85
1.4	3	0		23.80	23.91	23.88
1.4	3	1		23.85	23.91	23.91
1.4	3	2		23.84	23.85	23.88
1.4	6	0		22.97	23.00	22.99
1.4	1	0	16-QAM	22.94	23.03	22.72
1.4	1	2		23.03	23.07	22.79
1.4	1	5		23.00	23.04	22.73
1.4	3	0		23.05	23.12	23.04
1.4	3	1		23.03	23.16	23.10
1.4	3	2		23.05	23.13	23.08
1.4	6	0		22.15	22.15	22.17
3	1	0	QPSK	23.62	23.67	23.65
3	1	7		23.71	23.80	23.74
3	1	14		23.66	23.74	23.63
3	8	0		22.86	22.87	22.85
3	8	4		22.90	22.95	22.93
3	8	7		22.91	22.87	22.95
3	15	0		22.86	22.91	22.85
3	1	0	16-QAM	23.06	22.60	23.10
3	1	7		23.15	22.65	23.17
3	1	14		23.11	22.57	23.03
3	8	0		21.86	21.80	21.90
3	8	4		21.94	21.90	21.95
3	8	7		21.88	21.85	21.89
3	15	0		21.89	21.92	21.86



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.85	23.92	23.85
5	1	12		23.98	23.96	23.95
5	1	24		23.99	23.91	23.85
5	12	0		22.88	22.88	22.83
5	12	6		22.97	22.98	22.98
5	12	11		23.00	22.95	22.98
5	25	0		22.92	22.94	22.91
5	1	0	16-QAM	23.39	23.24	23.25
5	1	12		23.53	23.31	23.30
5	1	24		23.49	23.23	23.24
5	12	0		21.86	21.81	21.85
5	12	6		21.93	21.92	22.00
5	12	11		21.98	21.89	21.98
5	25	0		21.89	21.96	21.91
10	1	0	QPSK	23.89	24.02	24.02
10	1	24		24.06	24.05	24.13
10	1	49		24.09	23.97	24.08
10	25	0		22.85	22.85	22.91
10	25	12		23.07	23.02	23.06
10	25	24		22.97	23.01	23.10
10	50	0		22.96	22.94	23.04
10	1	0	16-QAM	23.33	23.18	22.91
10	1	24		23.45	23.19	22.95
10	1	49		23.53	23.16	22.91
10	25	0		21.90	21.85	21.90
10	25	12		22.05	22.01	22.03
10	25	24		21.99	21.99	22.08
10	50	0		21.92	21.97	21.97



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.85	23.93	23.88
15	1	37		24.16	23.99	24.05
15	1	74		24.15	23.86	23.95
15	36	0		22.94	22.87	23.00
15	36	18		23.07	23.00	23.03
15	36	39		23.01	22.99	23.14
15	75	0		23.02	22.96	23.12
15	1	0	16-QAM	22.93	23.34	23.04
15	1	38		23.23	23.40	23.21
15	1	75		23.22	23.27	23.12
15	36	0		21.87	21.93	22.06
15	36	18		22.04	22.01	22.09
15	36	39		22.00	22.03	22.16
15	75	0		22.02	21.93	22.03
20	1	0	QPSK	23.72	23.93	23.77
20	1	49		24.16	24.10	24.05
20	1	99		24.02	23.87	23.93
20	50	0		23.00	22.75	23.07
20	50	24		23.13	23.03	23.05
20	50	49		23.07	22.99	23.23
20	100	0		23.05	22.88	23.14
20	1	0	16-QAM	23.05	23.16	22.96
20	1	49		23.47	23.31	23.28
20	1	99		23.32	23.11	23.15
20	50	0		22.04	21.73	22.09
20	50	24		22.14	21.96	22.07
20	50	49		22.10	21.96	22.25
20	100	0		22.02	21.91	22.11



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.76	21.57	21.58
1.4	1	2		21.80	21.66	21.64
1.4	1	5		21.71	21.57	21.56
1.4	3	0		21.82	21.61	21.55
1.4	3	1		21.84	21.64	21.59
1.4	3	2		21.78	21.61	21.57
1.4	6	0		20.87	20.73	20.67
1.4	1	0	16-QAM	20.91	20.44	20.68
1.4	1	2		20.94	20.50	20.74
1.4	1	5		20.93	20.46	20.66
1.4	3	0		21.03	20.77	20.74
1.4	3	1		21.06	20.79	20.78
1.4	3	2		21.02	20.77	20.72
1.4	6	0		20.04	19.89	19.84
3	1	0	QPSK	21.60	21.39	21.44
3	1	7		21.71	21.51	21.49
3	1	14		21.68	21.39	21.41
3	8	0		20.76	20.63	20.58
3	8	4		20.84	20.69	20.64
3	8	7		20.78	20.66	20.63
3	15	0		20.77	20.63	20.60
3	1	0	16-QAM	20.52	20.87	20.61
3	1	7		20.60	20.91	20.67
3	1	14		20.49	20.85	20.61
3	8	0		19.75	19.62	19.63
3	8	4		19.78	19.66	19.67
3	8	7		19.80	19.67	19.58
3	15	0		19.87	19.61	19.57



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.84	21.59	21.68
5	1	12		21.91	21.74	21.70
5	1	24		21.82	21.71	21.60
5	12	0		20.83	20.65	20.68
5	12	6		20.87	20.72	20.73
5	12	11		20.86	20.71	20.67
5	25	0		20.87	20.65	20.71
5	1	0	16-QAM	21.38	20.94	21.01
5	1	12		21.48	21.08	21.05
5	1	24		21.35	21.00	20.97
5	12	0		19.81	19.57	19.72
5	12	6		19.88	19.67	19.73
5	12	11		19.88	19.67	19.69
5	25	0		19.81	19.68	19.67
10	1	0	QPSK	21.97	21.66	21.75
10	1	24		21.99	21.79	21.83
10	1	49		21.86	21.81	21.73
10	25	0		20.78	20.61	20.69
10	25	12		20.86	20.71	20.76
10	25	24		20.80	20.79	20.68
10	50	0		20.82	20.68	20.72
10	1	0	16-QAM	20.79	21.12	20.91
10	1	24		20.86	21.21	20.94
10	1	49		20.74	21.23	20.85
10	25	0		19.76	19.65	19.73
10	25	12		19.86	19.75	19.75
10	25	24		19.80	19.79	19.68
10	50	0		19.79	19.66	19.73



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.89	21.67	21.70
15	1	37		21.86	21.82	21.82
15	1	74		21.74	21.83	21.67
15	36	0		20.81	20.60	20.74
15	36	18		20.80	20.73	20.80
15	36	39		20.76	20.78	20.72
15	75	0		20.81	20.75	20.75
15	1	0	16-QAM	20.99	20.74	21.13
15	1	38		21.03	20.92	21.26
15	1	75		20.88	20.92	21.12
15	36	0		19.89	19.57	19.74
15	36	18		19.87	19.68	19.80
15	36	39		19.86	19.76	19.76
15	75	0		19.78	19.73	19.74
20	1	0	QPSK	21.77	21.54	21.65
20	1	49		21.84	21.79	21.99
20	1	99		21.67	21.73	21.68
20	50	0		20.74	20.56	20.78
20	50	24		20.80	20.75	20.83
20	50	49		20.85	20.79	20.80
20	100	0		20.82	20.68	20.73
20	1	0	16-QAM	20.98	20.89	20.87
20	1	49		21.06	21.16	21.15
20	1	99		20.88	21.04	20.92
20	50	0		19.78	19.60	19.70
20	50	24		19.84	19.80	19.76
20	50	49		19.89	19.83	19.73
20	100	0		19.81	19.65	19.74



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.03	24.01	24.41
1.4	1	2		24.15	24.11	24.51
1.4	1	5		24.02	24.08	24.46
1.4	3	0		24.16	24.06	24.39
1.4	3	1		24.18	24.10	24.43
1.4	3	2		24.14	24.09	24.41
1.4	6	0		23.16	23.14	23.46
1.4	1	0	16-QAM	23.20	22.96	23.55
1.4	1	2		23.30	23.01	23.59
1.4	1	5		23.22	22.96	23.58
1.4	3	0		23.41	23.27	23.64
1.4	3	1		23.39	23.31	23.69
1.4	3	2		23.33	23.29	23.57
1.4	6	0		22.42	22.42	22.71
3	1	0	QPSK	23.90	23.80	24.17
3	1	7		23.98	23.94	24.30
3	1	14		23.91	23.85	24.18
3	8	0		23.03	23.00	23.37
3	8	4		23.11	23.06	23.43
3	8	7		23.01	23.11	23.43
3	15	0		23.05	23.05	23.39
3	1	0	16-QAM	22.82	23.30	23.38
3	1	7		22.84	23.45	23.53
3	1	14		22.71	23.30	23.49
3	8	0		22.04	22.06	22.47
3	8	4		22.09	22.15	22.52
3	8	7		22.07	22.15	22.45
3	15	0		22.17	22.11	22.44



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.11	24.04	24.29
5	1	12		24.10	24.19	24.47
5	1	24		24.00	24.15	24.46
5	12	0		23.01	23.07	23.35
5	12	6		23.13	23.18	23.47
5	12	11		23.08	23.24	23.47
5	25	0		23.05	23.16	23.46
5	1	0	16-QAM	23.50	23.67	23.64
5	1	12		23.48	23.85	23.85
5	1	24		23.41	23.74	23.85
5	12	0		22.08	22.13	22.46
5	12	6		22.20	22.24	22.50
5	12	11		22.09	22.29	22.49
5	25	0		22.05	22.19	22.52
10	1	0	QPSK	24.17	24.15	24.22
10	1	24		24.15	24.27	24.43
10	1	49		24.14	24.38	24.57
10	25	0		23.05	23.02	23.19
10	25	12		23.11	23.19	23.37
10	25	24		22.85	23.35	23.35
10	50	0		23.00	23.25	23.29
10	1	0	16-QAM	23.35	23.01	23.67
10	1	24		23.37	23.14	23.85
10	1	49		23.32	23.20	24.02
10	25	0		22.12	22.13	22.29
10	25	12		22.19	22.31	22.47
10	25	24		22.01	22.41	22.38
10	50	0		22.08	22.27	22.30



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.82	23.41	22.99
5	1	12		23.86	23.48	23.11
5	1	24		23.77	23.39	23.02
5	12	0		22.80	22.40	22.14
5	12	6		22.89	22.46	22.16
5	12	11		22.83	22.41	22.12
5	25	0		22.80	22.44	22.12
5	1	0	16-QAM	23.28	22.67	22.31
5	1	12		23.37	22.72	22.42
5	1	24		23.26	22.66	22.35
5	12	0		21.78	21.34	21.14
5	12	6		21.86	21.39	21.17
5	12	11		21.80	21.34	21.12
5	25	0		21.78	21.45	21.05
10	1	0	QPSK	23.81	23.42	23.17
10	1	24		23.82	23.51	23.25
10	1	49		23.79	23.42	23.25
10	25	0		22.76	22.40	22.06
10	25	12		22.82	22.46	22.15
10	25	24		22.82	22.41	22.07
10	50	0		22.81	22.43	22.14
10	1	0	16-QAM	23.22	22.56	21.92
10	1	24		23.23	22.62	22.00
10	1	49		23.21	22.54	22.02
10	25	0		21.82	21.40	21.08
10	25	12		21.85	21.47	21.15
10	25	24		21.87	21.40	21.11
10	50	0		21.80	21.44	21.06



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.78	23.36	22.95
15	1	37		23.79	23.55	23.12
15	1	74		23.70	23.41	23.09
15	36	0		22.80	22.42	22.07
15	36	18		22.84	22.50	22.15
15	36	39		22.79	22.43	22.14
15	75	0		22.82	22.48	22.12
15	1	0	16-QAM	22.95	22.42	22.36
15	1	38		22.96	22.54	22.50
15	1	75		22.88	22.43	22.51
15	36	0		21.79	21.38	21.05
15	36	18		21.87	21.44	21.13
15	36	39		21.83	21.35	21.12
15	75	0		21.76	21.45	21.08
20	1	0	QPSK	23.73	23.22	22.94
20	1	49		23.92	23.51	23.13
20	1	99		23.72	23.31	23.07
20	50	0		22.66	22.35	22.03
20	50	24		22.77	22.48	22.14
20	50	49		22.76	22.36	22.03
20	100	0		22.69	22.34	22.06
20	1	0	16-QAM	22.88	22.44	22.21
20	1	49		23.08	22.70	22.42
20	1	99		22.89	22.49	22.33
20	50	0		21.64	21.38	21.07
20	50	24		21.78	21.50	21.17
20	50	49		21.72	21.39	21.08
20	100	0		21.71	21.33	21.03



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.14	24.17	24.15
1.4	1	2		24.19	24.24	24.28
1.4	1	5		24.12	24.14	24.17
1.4	3	0		24.24	24.13	24.12
1.4	3	1		24.23	24.18	24.22
1.4	3	2		24.23	24.15	24.15
1.4	6	0		23.26	23.28	23.29
1.4	1	0	16-QAM	23.24	22.83	23.20
1.4	1	2		23.34	22.93	23.23
1.4	1	5		23.33	22.91	23.18
1.4	3	0		23.41	23.19	23.31
1.4	3	1		23.46	23.23	23.33
1.4	3	2		23.47	23.24	23.30
1.4	6	0		22.45	22.41	22.43
3	1	0	QPSK	23.98	24.01	23.92
3	1	7		24.03	24.08	23.97
3	1	14		23.96	24.01	23.94
3	8	0		23.11	23.12	23.08
3	8	4		23.24	23.21	23.18
3	8	7		23.24	23.11	23.19
3	15	0		23.18	23.09	23.12
3	1	0	16-QAM	23.20	22.71	23.35
3	1	7		23.24	22.80	23.37
3	1	14		23.16	22.73	23.30
3	8	0		22.19	22.05	22.20
3	8	4		22.25	22.10	22.18
3	8	7		22.17	22.09	22.11
3	15	0		22.18	22.14	22.11



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.22	24.10	24.11
5	1	12		24.29	24.22	24.26
5	1	24		24.26	24.11	24.23
5	12	0		23.24	23.20	23.17
5	12	6		23.25	23.25	23.28
5	12	11		23.24	23.17	23.18
5	25	0		23.19	23.17	23.17
5	1	0	16-QAM	23.53	23.35	23.68
5	1	12		23.57	23.43	23.83
5	1	24		23.45	23.52	23.66
5	12	0		22.08	22.19	22.17
5	12	6		22.19	22.24	22.27
5	12	11		22.13	22.20	22.15
5	25	0		22.25	22.16	22.15
10	1	0	QPSK	24.34	24.23	24.24
10	1	24		24.42	24.29	24.29
10	1	49		24.37	24.30	24.34
10	25	0		23.22	23.24	23.21
10	25	12		23.22	23.25	23.29
10	25	24		23.12	23.28	23.27
10	50	0		23.20	23.29	23.26
10	1	0	16-QAM	23.14	23.53	23.29
10	1	24		23.10	23.58	23.48
10	1	49		23.08	23.70	23.43
10	25	0		22.17	22.22	22.21
10	25	12		22.24	22.24	22.29
10	25	24		22.12	22.31	22.30
10	50	0		22.12	22.27	22.28



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.33	24.20	24.09
5	1	12		24.32	24.20	24.16
5	1	24		24.18	24.15	24.09
5	12	0		23.22	23.30	23.25
5	12	6		23.32	23.29	23.20
5	12	11		23.17	23.10	23.22
5	25	0		23.13	23.25	23.26
5	1	0	16-QAM	23.95	23.63	23.47
5	1	12		23.90	23.63	23.60
5	1	24		23.77	23.53	23.55
5	12	0		22.11	22.29	22.31
5	12	6		22.32	22.24	22.30
5	12	11		22.16	22.06	22.29
5	25	0		22.14	22.31	22.25
10	1	0	QPSK	/	24.39	/
10	1	24		/	24.32	/
10	1	49		/	24.25	/
10	25	0		/	23.18	/
10	25	12		/	23.28	/
10	25	24		/	23.06	/
10	50	0		/	23.18	/
10	1	0	16-QAM	/	23.29	/
10	1	24		/	23.14	/
10	1	49		/	23.18	/
10	25	0		/	22.19	/
10	25	12		/	22.34	/
10	25	24		/	22.15	/
10	50	0		/	22.17	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.17	24.15	24.07
5	1	12		24.22	24.20	24.13
5	1	24		24.14	24.16	24.08
5	12	0		23.08	23.09	23.06
5	12	6		23.18	23.18	23.23
5	12	11		23.13	23.29	23.10
5	25	0		23.11	23.24	23.11
5	1	0	16-QAM	23.51	23.31	23.51
5	1	12		23.58	23.50	23.48
5	1	24		23.60	23.47	23.41
5	12	0		22.09	22.01	22.09
5	12	6		22.13	22.14	22.24
5	12	11		22.12	22.21	22.16
5	25	0		22.07	22.21	22.09
10	1	0	QPSK	24.29	24.18	24.22
10	1	24		24.31	24.25	24.28
10	1	49		24.34	24.25	24.27
10	25	0		23.19	23.16	23.15
10	25	12		23.23	23.25	23.32
10	25	24		23.35	23.32	23.29
10	50	0		23.29	23.28	23.25
10	1	0	16-QAM	22.93	23.44	23.26
10	1	24		23.06	23.62	23.47
10	1	49		23.17	23.66	23.39
10	25	0		22.12	22.15	22.14
10	25	12		22.23	22.28	22.25
10	25	24		22.34	22.36	22.25
10	50	0		22.23	22.29	22.25



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.81	23.74	23.80
1.4	1	2		23.94	23.85	23.90
1.4	1	5		23.83	23.74	23.81
1.4	3	0		23.80	23.84	23.86
1.4	3	1		23.86	23.84	23.88
1.4	3	2		23.84	23.80	23.82
1.4	6	0		22.96	22.91	22.96
1.4	1	0	16-QAM	22.95	22.90	22.70
1.4	1	2		23.02	22.99	22.79
1.4	1	5		22.96	22.94	22.69
1.4	3	0		23.04	23.05	23.05
1.4	3	1		23.06	23.08	23.06
1.4	3	2		23.02	23.05	23.05
1.4	6	0		22.10	22.09	22.16
3	1	0	QPSK	23.59	23.59	23.61
3	1	7		23.70	23.72	23.70
3	1	14		23.62	23.69	23.67
3	8	0		22.77	22.80	22.86
3	8	4		22.89	22.92	22.96
3	8	7		22.85	22.82	22.90
3	15	0		22.82	22.82	22.91
3	1	0	16-QAM	22.79	22.53	23.08
3	1	7		22.90	22.64	23.18
3	1	14		22.83	22.52	23.09
3	8	0		21.80	21.76	21.88
3	8	4		21.90	21.84	21.99
3	8	7		21.83	21.82	21.91
3	15	0		21.79	21.87	21.95



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.82	23.83	23.86
5	1	12		23.92	23.92	23.97
5	1	24		23.87	23.84	23.93
5	12	0		22.89	22.86	23.04
5	12	6		22.96	22.94	22.99
5	12	11		22.98	22.92	22.92
5	25	0		22.93	22.89	22.97
5	1	0	16-QAM	23.21	23.36	23.23
5	1	12		23.32	23.48	23.32
5	1	24		23.29	23.39	23.24
5	12	0		21.93	21.85	21.99
5	12	6		21.99	21.93	21.94
5	12	11		21.98	21.92	21.85
5	25	0		21.90	21.88	22.00
10	1	0	QPSK	23.98	23.96	24.03
10	1	24		24.11	23.96	24.04
10	1	49		24.13	23.93	24.00
10	25	0		22.88	22.85	22.89
10	25	12		23.02	22.97	22.97
10	25	24		22.95	22.93	22.76
10	50	0		22.93	22.93	22.82
10	1	0	16-QAM	22.84	23.39	23.16
10	1	24		22.96	23.39	23.19
10	1	49		23.02	23.37	23.20
10	25	0		21.88	21.88	21.85
10	25	12		22.04	22.01	22.01
10	25	24		21.97	21.96	21.77
10	50	0		21.92	21.92	21.85



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.86	23.96	23.89
15	1	37		24.14	24.00	24.08
15	1	74		24.12	23.86	23.96
15	36	0		22.96	22.89	22.92
15	36	18		23.05	23.01	23.05
15	36	39		23.04	22.93	22.89
15	75	0		22.99	22.93	22.88
15	1	0	16-QAM	22.96	23.39	23.09
15	1	38		23.24	23.39	23.22
15	1	75		23.22	23.33	23.14
15	36	0		21.92	21.95	21.98
15	36	18		22.04	22.04	22.09
15	36	39		22.00	21.98	21.96
15	75	0		21.98	21.91	21.88
20	1	0	QPSK	23.81	23.94	23.73
20	1	49		24.25	24.04	24.07
20	1	99		24.06	23.89	23.89
20	50	0		22.99	22.80	22.95
20	50	24		23.13	23.06	23.07
20	50	49		23.05	22.93	22.93
20	100	0		23.03	22.87	22.93
20	1	0	16-QAM	23.05	23.15	23.09
20	1	49		23.44	23.24	23.42
20	1	99		23.33	23.15	23.25
20	50	0		21.97	21.79	21.98
20	50	24		22.10	22.04	22.11
20	50	49		22.03	21.93	21.92
20	100	0		22.00	21.87	21.90



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	21.86	24.35	24.18
1.4	1	2		23.48	24.42	24.27
1.4	1	5		24.10	24.30	24.14
1.4	3	0		22.94	24.39	24.17
1.4	3	1		23.52	24.42	24.17
1.4	3	2		24.04	24.35	24.15
1.4	6	0		23.47	23.46	23.24
1.4	1	0	16-QAM	21.97	23.13	23.24
1.4	1	2		23.25	23.22	23.36
1.4	1	5		23.49	23.10	23.32
1.4	3	0		22.61	23.51	23.38
1.4	3	1		23.34	23.52	23.40
1.4	3	2		23.50	23.47	23.35
1.4	6	0		22.74	22.63	22.45
3	1	0	QPSK	19.70	24.26	24.05
3	1	7		24.40	24.31	24.05
3	1	14		24.27	24.20	23.89
3	8	0		23.11	23.38	23.18
3	8	4		23.57	23.39	23.20
3	8	7		23.61	23.39	23.19
3	15	0		23.45	23.39	23.17
3	1	0	16-QAM	19.04	23.07	23.47
3	1	7		23.46	23.11	23.49
3	1	14		23.41	23.03	23.33
3	8	0		22.42	22.36	22.25
3	8	4		22.60	22.43	22.29
3	8	7		22.62	22.40	22.26
3	15	0		22.37	22.52	22.26



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.72	24.48	24.38
5	1	12		24.53	24.48	24.37
5	1	24		24.38	24.37	24.21
5	12	0		22.82	23.29	23.23
5	12	6		23.48	23.50	23.35
5	12	11		23.65	23.55	23.33
5	25	0		23.43	23.42	23.29
5	1	0	16-QAM	22.28	23.88	23.66
5	1	12		23.80	23.99	23.74
5	1	24		23.71	23.91	23.55
5	12	0		21.74	22.33	22.20
5	12	6		22.52	22.52	22.38
5	12	11		22.70	22.59	22.30
5	25	0		22.19	22.43	22.35
10	1	0	QPSK	/	22.95	/
10	1	24		/	24.57	/
10	1	49		/	24.31	/
10	25	0		/	22.80	/
10	25	12		/	23.51	/
10	25	24		/	23.58	/
10	50	0		/	23.46	/
10	1	0	16-QAM	/	22.38	/
10	1	24		/	23.72	/
10	1	49		/	23.53	/
10	25	0		/	21.68	/
10	25	12		/	22.56	/
10	25	24		/	22.62	/
10	50	0		/	22.58	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.12	24.11	24.34
1.4	1	2		24.19	24.13	24.38
1.4	1	5		24.07	24.09	24.33
1.4	3	0		24.19	24.02	24.40
1.4	3	1		24.17	24.02	24.44
1.4	3	2		24.10	24.03	24.39
1.4	6	0		23.19	23.09	23.43
1.4	1	0	16-QAM	22.99	23.20	23.51
1.4	1	2		23.01	23.27	23.57
1.4	1	5		22.92	23.24	23.51
1.4	3	0		23.26	23.28	23.64
1.4	3	1		23.29	23.32	23.71
1.4	3	2		23.26	23.23	23.66
1.4	6	0		22.40	22.37	22.68
3	1	0	QPSK	23.95	23.82	24.12
3	1	7		23.96	23.96	24.25
3	1	14		23.81	23.97	24.23
3	8	0		23.06	22.99	23.40
3	8	4		23.13	23.09	23.44
3	8	7		23.08	23.10	23.43
3	15	0		23.11	23.10	23.37
3	1	0	16-QAM	23.10	22.75	23.69
3	1	7		23.14	22.87	23.73
3	1	14		23.04	22.77	23.68
3	8	0		22.16	22.01	22.46
3	8	4		22.19	22.10	22.52
3	8	7		22.10	22.15	22.45
3	15	0		22.08	22.15	22.43



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.18	24.06	24.34
5	1	12		24.13	24.19	24.53
5	1	24		24.01	24.17	24.51
5	12	0		23.10	23.04	23.45
5	12	6		23.14	23.21	23.51
5	12	11		23.04	23.22	23.44
5	25	0		23.08	23.18	23.43
5	1	0	16-QAM	23.51	23.68	23.66
5	1	12		23.50	23.83	23.91
5	1	24		23.42	23.79	23.84
5	12	0		22.15	22.12	22.48
5	12	6		22.23	22.29	22.51
5	12	11		22.12	22.32	22.40
5	25	0		22.07	22.22	22.53
10	1	0	QPSK	24.23	24.15	24.29
10	1	24		24.16	24.32	24.54
10	1	49		24.11	24.33	24.65
10	25	0		23.11	23.10	23.28
10	25	12		23.15	23.28	23.41
10	25	24		22.96	23.45	23.32
10	50	0		23.10	23.24	23.31
10	1	0	16-QAM	23.65	23.31	23.16
10	1	24		23.61	23.44	23.35
10	1	49		23.62	23.51	23.51
10	25	0		22.22	22.17	22.30
10	25	12		22.19	22.30	22.49
10	25	24		22.02	22.46	22.43
10	50	0		22.06	22.34	22.26



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.15	24.00	24.09
15	1	37		24.19	24.27	24.36
15	1	74		24.31	24.52	24.68
15	36	0		23.13	23.09	23.07
15	36	18		23.12	23.18	23.29
15	36	39		23.20	23.32	23.38
15	75	0		23.19	23.23	23.24
15	1	0	16-QAM	23.33	23.17	23.46
15	1	38		23.37	23.38	23.78
15	1	75		23.38	23.48	24.00
15	36	0		22.24	22.14	22.13
15	36	18		22.19	22.20	22.40
15	36	39		22.31	22.37	22.39
15	75	0		22.24	22.30	22.27



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.41	23.51	23.74
5	1	12		23.50	23.61	23.88
5	1	24		23.36	23.50	23.76
5	12	0		22.43	22.53	22.83
5	12	6		22.48	22.57	22.89
5	12	11		22.39	22.57	22.84
5	25	0		22.46	22.55	22.86
5	1	0	16-QAM	23.04	22.81	23.07
5	1	12		23.12	22.91	23.20
5	1	24		23.00	22.83	23.10
5	12	0		21.44	21.46	21.85
5	12	6		21.49	21.52	21.91
5	12	11		21.44	21.54	21.86
5	25	0		21.45	21.61	21.85
10	1	0	QPSK	23.47	23.61	23.80
10	1	24		23.48	23.66	23.92
10	1	49		23.40	23.63	23.89
10	25	0		22.45	22.53	22.76
10	25	12		22.48	22.59	22.87
10	25	24		22.43	22.59	22.85
10	50	0		22.46	22.63	22.82
10	1	0	16-QAM	22.97	22.74	22.73
10	1	24		22.98	22.74	22.85
10	1	49		22.92	22.73	22.83
10	25	0		21.51	21.60	21.79
10	25	12		21.52	21.61	21.87
10	25	24		21.48	21.62	21.87
10	50	0		21.47	21.66	21.80



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.50	23.53	23.70
15	1	37		23.55	23.59	23.89
15	1	74		23.39	23.54	23.86
15	36	0		22.43	22.52	22.72
15	36	18		22.47	22.61	22.79
15	36	39		22.45	22.57	22.83
15	75	0		22.46	22.60	22.82
15	1	0	16-QAM	22.67	23.01	22.82
15	1	38		22.73	23.06	22.97
15	1	75		22.57	23.02	22.96
15	36	0		21.43	21.55	21.80
15	36	18		21.45	21.68	21.89
15	36	39		21.41	21.60	21.90
15	75	0		21.46	21.59	21.79
20	1	0	QPSK	23.37	23.54	23.61
20	1	49		23.65	23.79	23.95
20	1	99		23.22	23.58	23.79
20	50	0		22.40	22.50	22.69
20	50	24		22.48	22.65	22.81
20	50	49		22.37	22.63	22.82
20	100	0		22.37	22.55	22.71
20	1	0	16-QAM	22.65	22.76	22.75
20	1	49		22.82	22.85	23.01
20	1	99		22.52	22.74	22.91
20	50	0		21.46	21.49	21.70
20	50	24		21.54	21.64	21.85
20	50	49		21.45	21.61	21.85
20	100	0		21.40	21.61	21.74



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	18.71	18.65	18.62
5	1	12		18.85	18.81	18.74
5	1	24		18.70	18.68	18.61
5	12	0		17.68	17.64	17.61
5	12	6		17.76	17.72	17.70
5	12	11		17.69	17.68	17.67
5	25	0		17.75	17.70	17.68
5	1	0	16-QAM	18.03	17.96	18.00
5	1	12		18.14	18.10	18.11
5	1	24		18.00	17.97	18.03
5	12	0		16.65	16.57	16.64
5	12	6		16.72	16.68	16.53
5	12	11		16.66	16.60	16.47
5	25	0		16.75	16.75	16.68
10	1	0	QPSK	/	18.79	/
10	1	24		/	18.90	/
10	1	49		/	18.78	/
10	25	0		/	17.70	/
10	25	12		/	17.76	/
10	25	24		/	17.77	/
10	50	0		/	17.74	/
10	1	0	16-QAM	/	17.93	/
10	1	24		/	17.94	/
10	1	49		/	17.89	/
10	25	0		/	16.71	/
10	25	12		/	16.77	/
10	25	24		/	16.78	/
10	50	0		/	16.77	/



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	19.12	19.11	19.07
5	1	12		19.27	19.25	19.19
5	1	24		19.15	19.12	19.07
5	12	0		18.15	18.11	18.13
5	12	6		18.23	18.20	18.21
5	12	11		18.17	18.13	18.18
5	25	0		18.14	18.11	18.15
5	1	0	16-QAM	18.75	18.41	18.43
5	1	12		18.89	18.53	18.56
5	1	24		18.78	18.43	18.47
5	12	0		17.16	17.06	17.16
5	12	6		17.20	17.15	17.20
5	12	11		17.17	17.09	17.16
5	25	0		17.16	17.22	17.17
10	1	0	QPSK	/	19.13	/
10	1	24		/	19.30	/
10	1	49		/	19.19	/
10	25	0		/	18.13	/
10	25	12		/	18.21	/
10	25	24		/	18.23	/
10	50	0		/	18.18	/
10	1	0	16-QAM	/	18.63	/
10	1	24		/	18.71	/
10	1	49		/	18.67	/
10	25	0		/	17.16	/
10	25	12		/	17.20	/
10	25	24		/	17.24	/
10	50	0		/	17.24	/



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
5	1	0	QPSK	23.08	22.62	23.35	22.89	23.92
5	1	12		23.25	22.79	23.47	23.01	24.06
5	1	24		23.10	22.66	23.37	22.92	23.92
5	12	0		22.13	21.70	22.39	21.94	22.99
5	12	6		22.14	21.72	22.48	22.03	22.96
5	12	11		22.13	21.70	22.45	22.02	22.87
5	25	0		22.13	21.70	22.46	22.03	22.91
5	1	0	16-QAM	22.40	21.96	22.71	22.26	23.41
5	1	12		22.51	22.06	22.80	22.35	23.52
5	1	24		22.37	21.93	22.75	22.31	23.40
5	12	0		21.09	20.69	21.46	21.04	21.93
5	12	6		21.17	20.77	21.50	21.08	21.91
5	12	11		21.18	20.77	21.50	21.07	21.84
5	25	0		21.19	20.78	21.45	21.03	21.89
10	1	0	QPSK	23.14	22.69	23.42	22.97	23.95
10	1	24		23.22	22.77	23.47	23.02	24.03
10	1	49		23.20	22.74	23.51	23.04	23.94
10	25	0		22.10	21.67	22.41	21.98	22.97
10	25	12		22.21	21.77	22.47	22.03	22.97
10	25	24		22.19	21.76	22.49	22.05	22.88
10	50	0		22.19	21.75	22.43	21.99	22.95
10	1	0	16-QAM	22.14	21.71	22.86	22.42	23.06
10	1	24		22.19	21.76	22.97	22.51	23.11
10	1	49		22.14	21.71	23.00	22.55	23.00
10	25	0		21.15	20.74	21.46	21.05	21.97
10	25	12		21.24	20.82	21.52	21.09	22.00
10	25	24		21.25	20.85	21.53	21.11	21.90
10	50	0		21.19	20.77	21.48	21.07	21.94



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
15	1	0	QPSK	23.03	22.58	23.37	22.92	23.96
15	1	37		23.19	22.74	23.50	23.04	24.13
15	1	74		23.15	22.70	23.52	23.06	24.01
15	36	0		22.14	21.71	22.39	21.96	22.99
15	36	18		22.21	21.77	22.50	22.07	23.05
15	36	39		22.22	21.78	22.56	22.13	22.98
15	75	0		22.18	21.74	22.47	22.04	23.01
15	1	0	16-QAM	22.58	22.14	22.51	22.08	23.09
15	1	38		22.68	22.23	22.65	22.21	23.24
15	1	75		22.67	22.22	22.63	22.19	23.05
15	36	0		21.15	20.73	21.47	21.05	21.91
15	36	18		21.24	20.83	21.56	21.14	21.98
15	36	39		21.25	20.83	21.64	21.22	21.91
15	75	0		21.19	20.77	21.44	21.02	21.99
20	1	0	QPSK	23.29	22.83	23.48	23.03	23.73
20	1	49		23.53	23.08	23.77	23.31	24.14
20	1	99		23.38	22.93	23.69	23.23	23.86
20	50	0		22.27	21.84	22.52	22.08	22.89
20	50	24		22.48	22.04	22.70	22.25	23.02
20	50	49		22.41	21.97	22.62	22.18	22.89
20	100	0		22.17	21.74	22.39	21.95	22.89
20	1	0	16-QAM	22.22	21.79	22.42	21.98	22.98
20	1	49		22.51	22.07	22.71	22.27	23.28
20	1	99		22.33	21.90	22.63	22.19	23.02
20	50	0		21.07	20.67	21.35	20.93	21.93
20	50	24		21.27	20.86	21.53	21.10	22.06
20	50	49		21.23	20.82	21.58	21.16	21.91
20	100	0		21.15	20.74	21.42	20.99	21.90

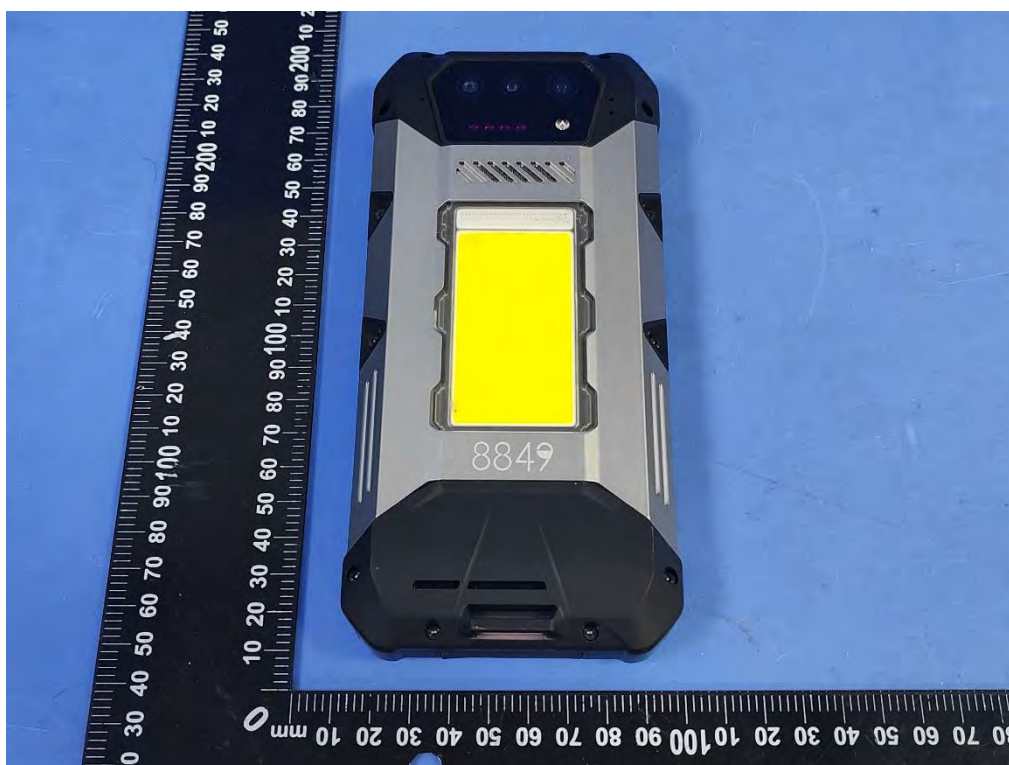
11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

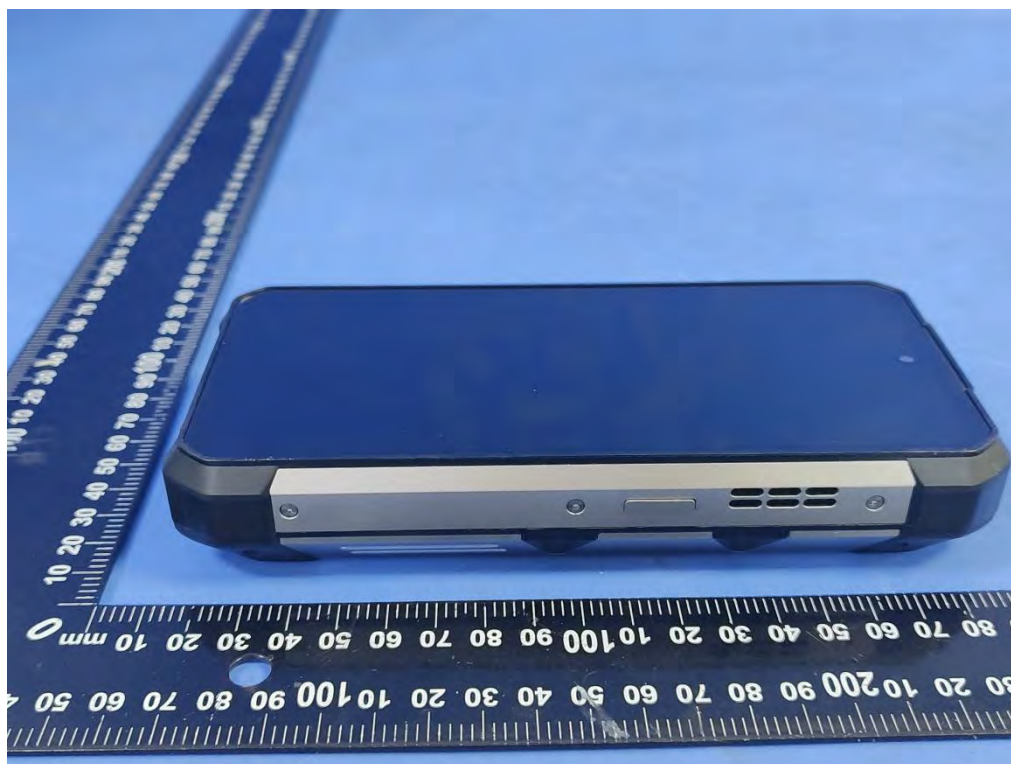


Back side

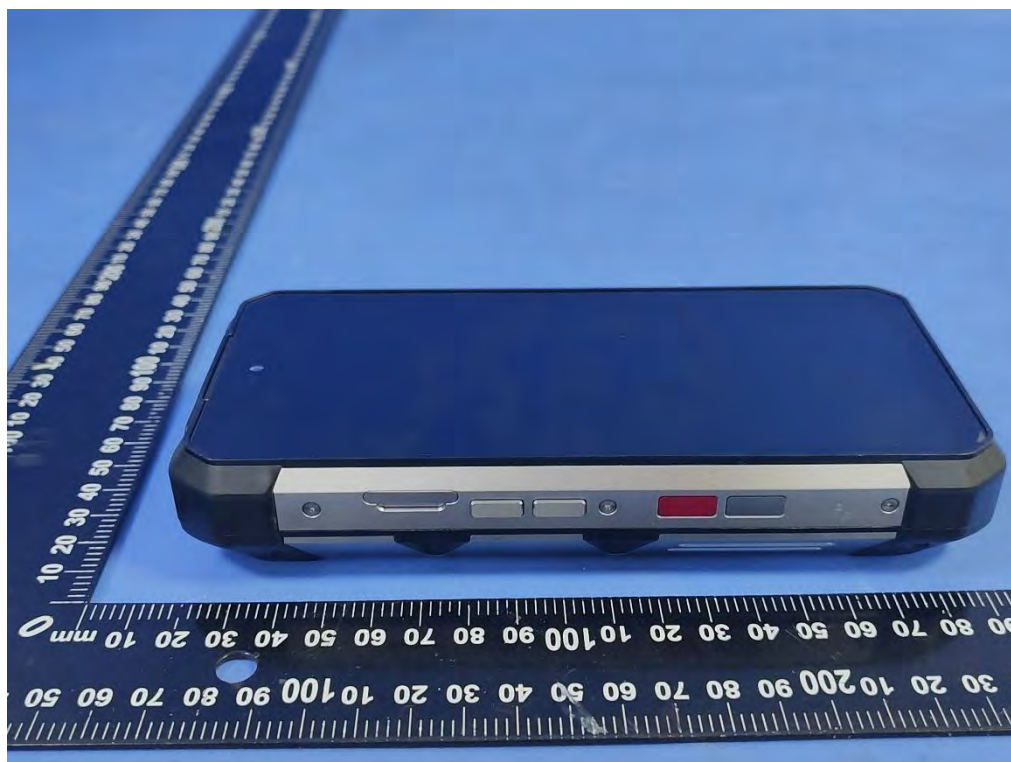




Right Edge



Left Edge

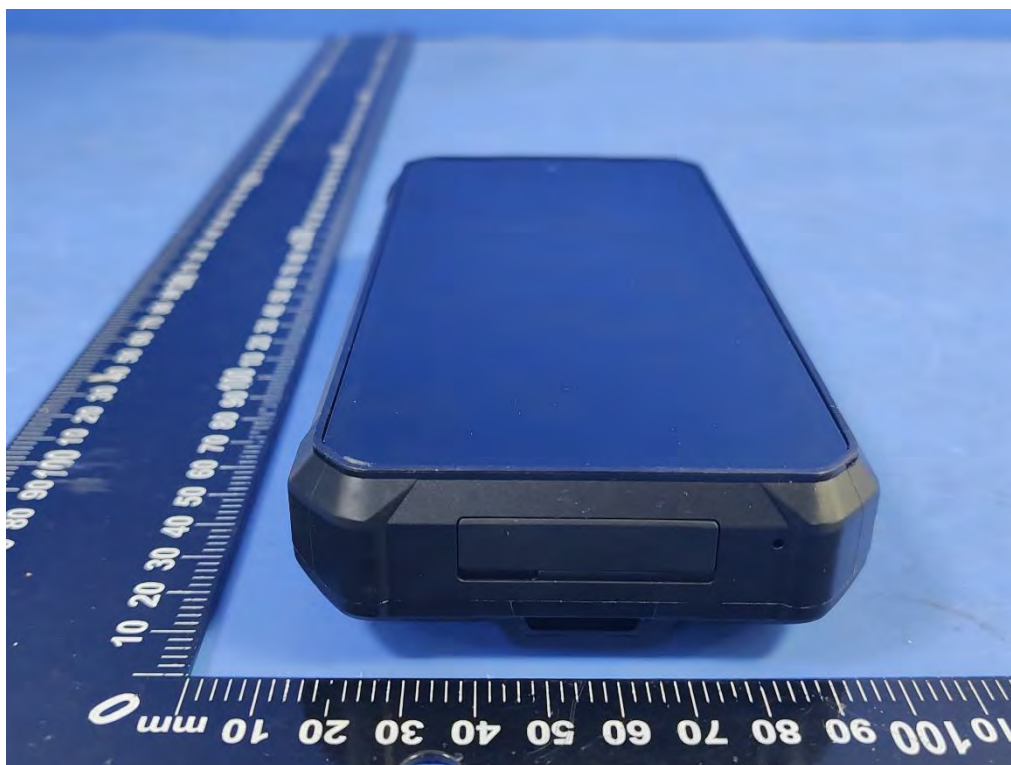




Top Edge



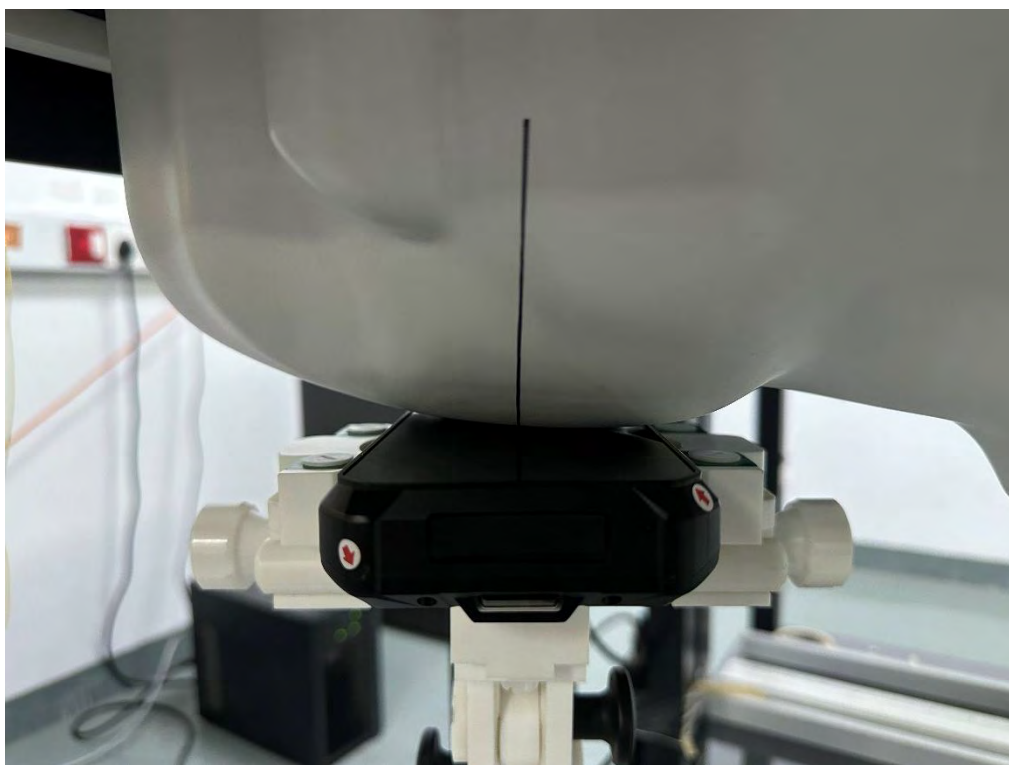
Bottom Edge



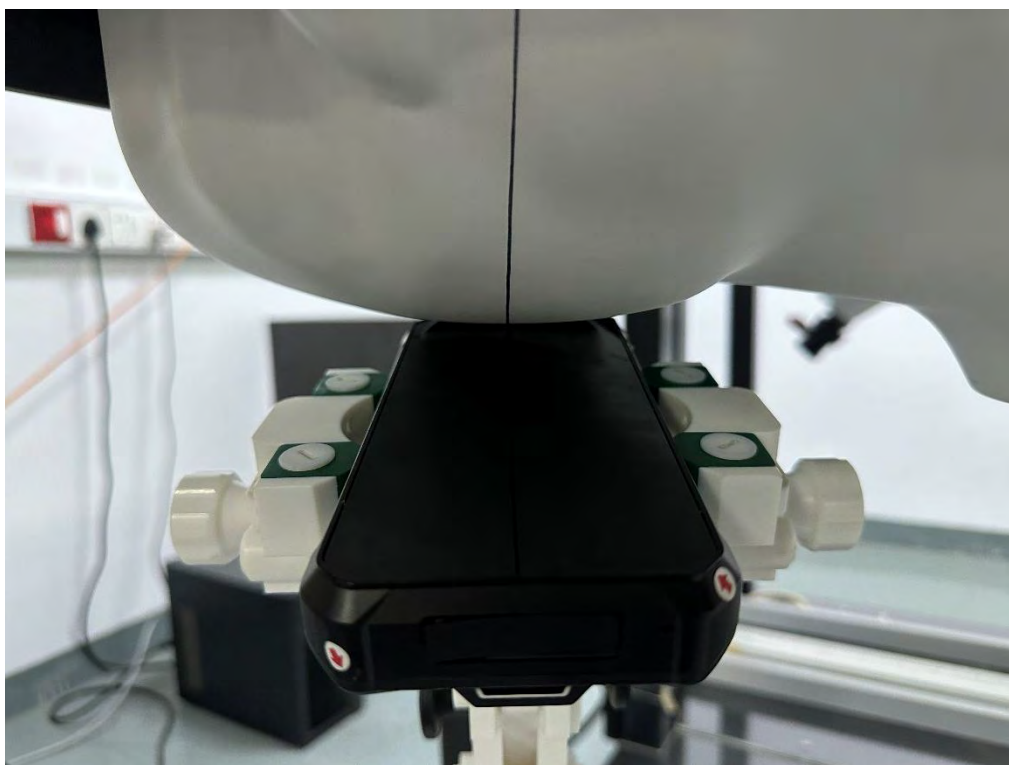


11.2 Setup Photos

Right Touch



Right Tilt

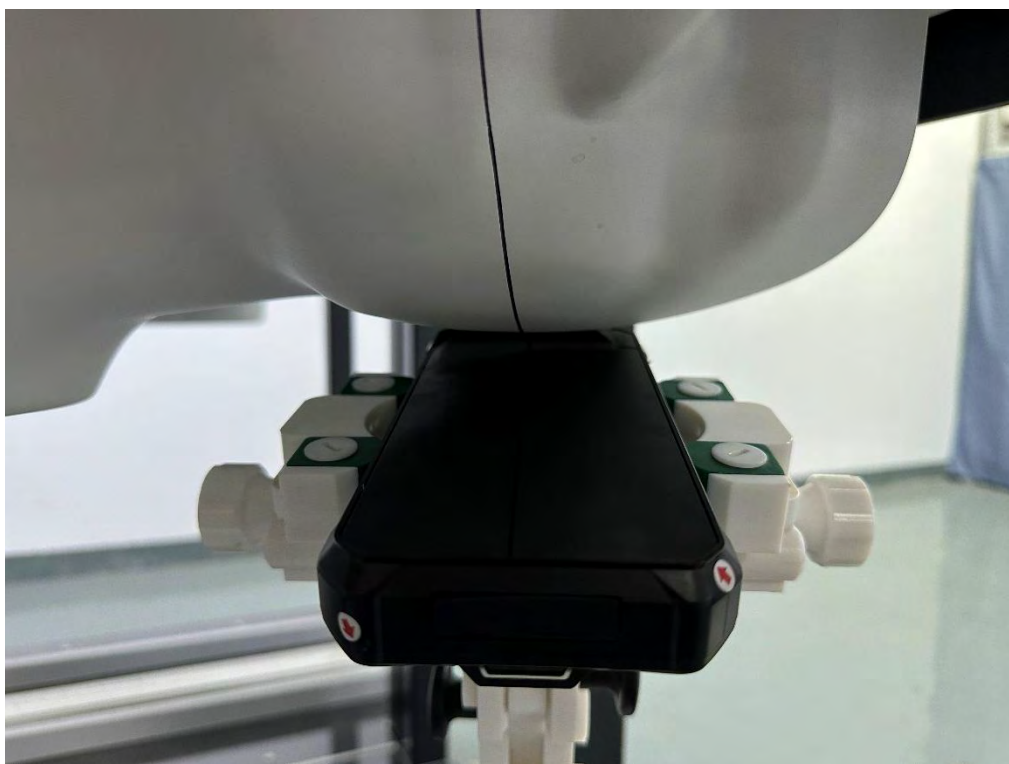




Left Touch

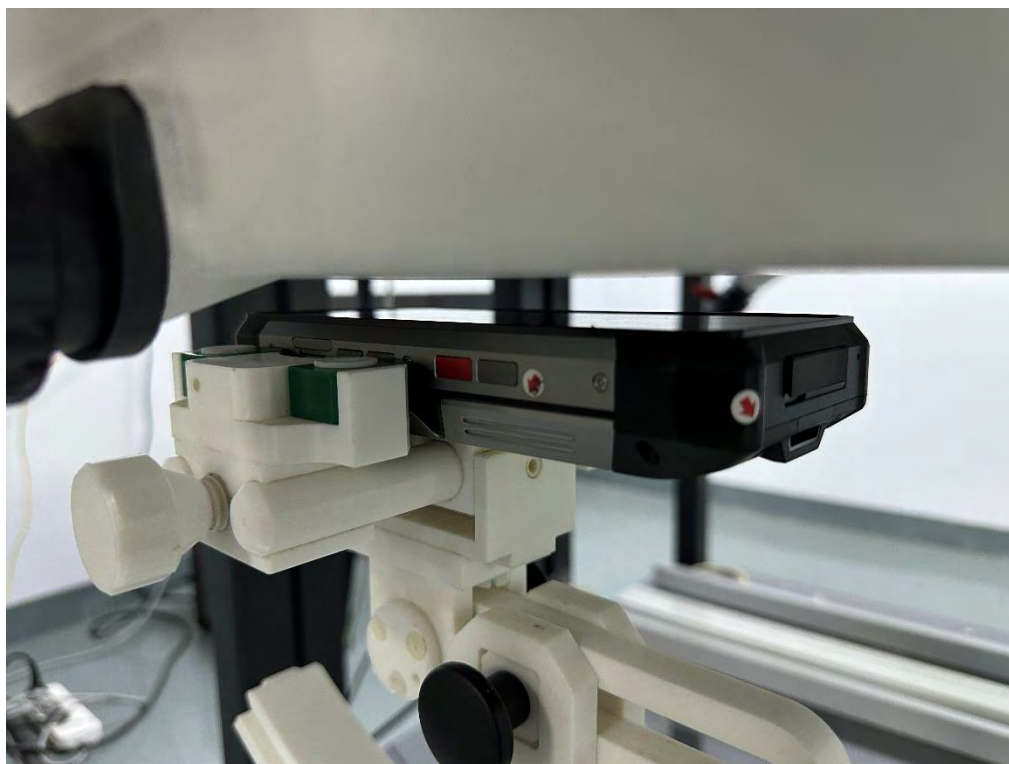


Left Tilt





Body Front side (separation distance is 10mm)



Body Back side (separation distance 10mm)



Body Left side (separation distance is 10mm)

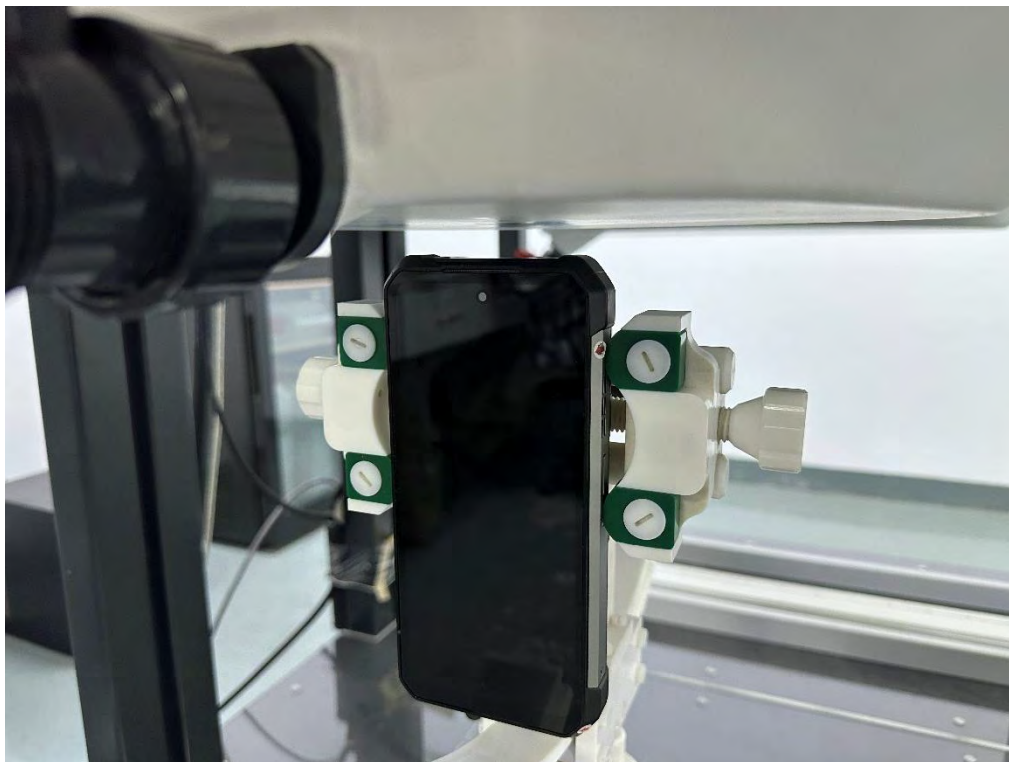


Body Right side (separation distance is 10mm)

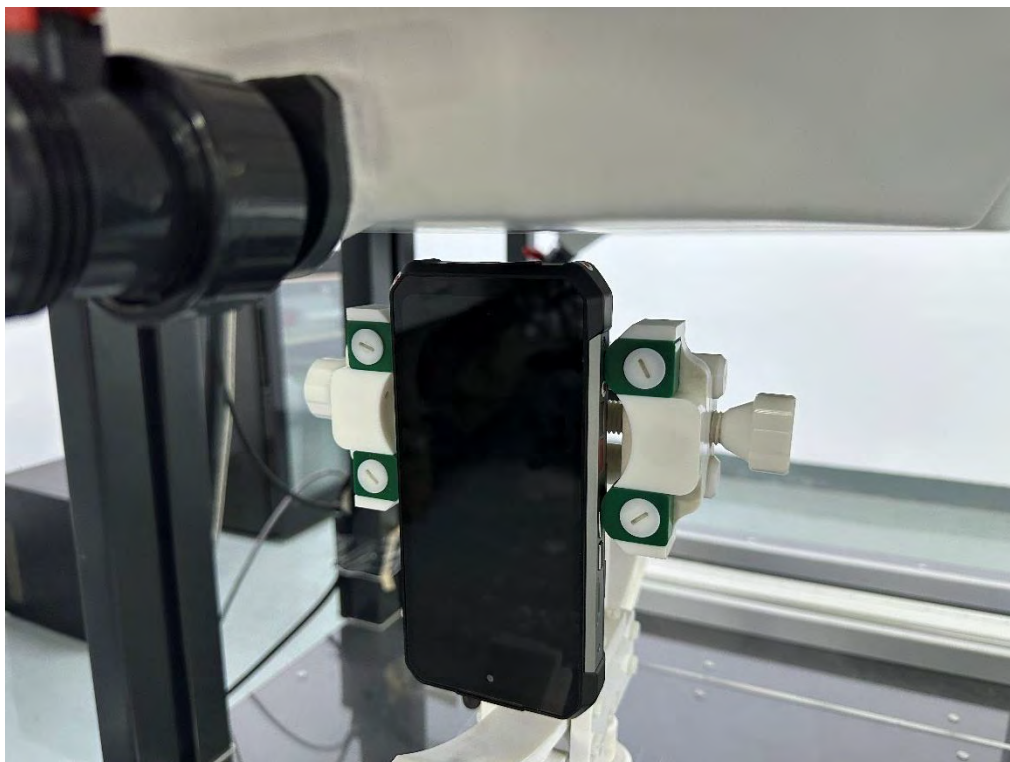




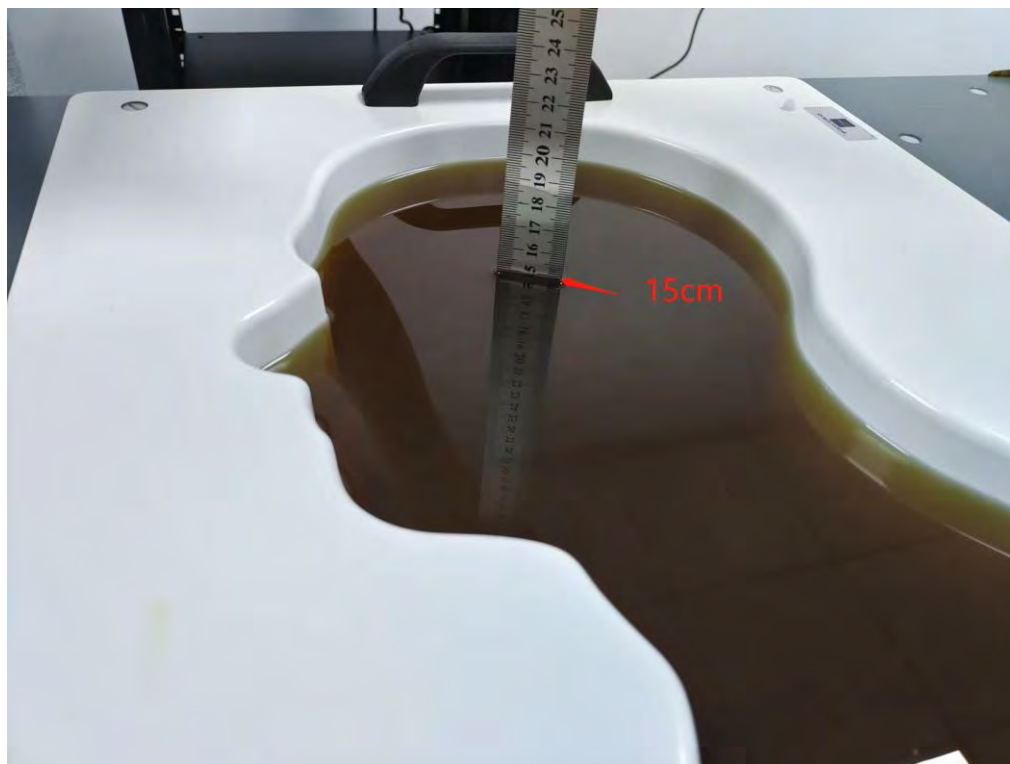
Body Top side (separation distance is 10mm)



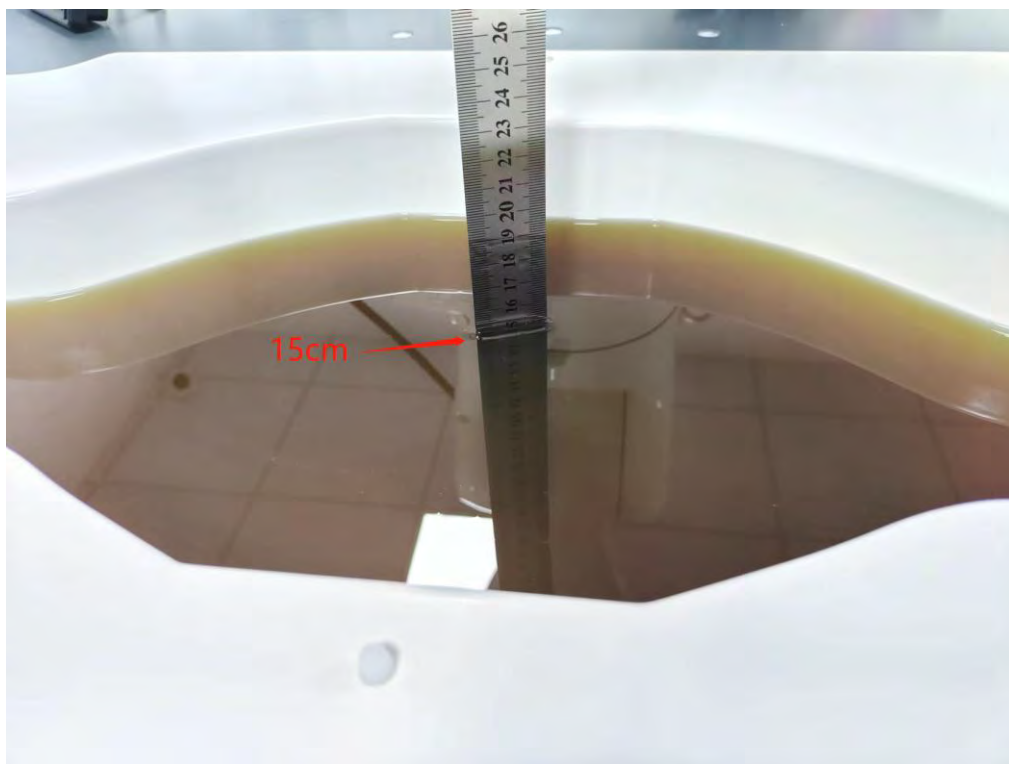
Body Bottom side (separation distance is 10mm)



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	0.139	3.17	32.00	31.79	1.050	0.146	/
		Right Tilt	836.6	0.122	3.99	32.00	31.79	1.050	0.128	/
		Left Cheek	836.6	0.188	1.90	32.00	31.79	1.050	0.197	1
		Left Tilt	836.6	0.164	0.90	32.00	31.79	1.050	0.172	/
PCS 1900	GSM	Right Cheek	1880	0.076	-1.72	28.80	28.57	1.054	0.080	/
		Right Tilt	1880	0.066	-1.08	28.80	28.57	1.054	0.070	/
		Left Cheek	1880	0.181	1.97	28.80	28.57	1.054	0.191	3
		Left Tilt	1880	0.157	3.72	28.80	28.57	1.054	0.166	/
WCDMA Band II	RMC	Right Cheek	1852.4	0.224	-2.79	24.50	24.29	1.050	0.235	/
		Right Tilt	1852.4	0.194	-2.19	24.50	24.29	1.050	0.204	/
		Left Cheek	1852.4	0.327	-2.43	24.50	24.29	1.050	0.343	5
		Left Tilt	1852.4	0.28	0.15	24.50	24.29	1.050	0.294	/
WCDMA Band IV	RMC	Right Cheek	1712.6	0.123	2.45	22.30	22.19	1.026	0.126	/
		Right Tilt	1712.6	0.109	0.86	22.30	22.19	1.026	0.112	/
		Left Cheek	1712.6	0.172	-2.51	22.30	22.19	1.026	0.176	7
		Left Tilt	1712.6	0.149	-3.74	22.30	22.19	1.026	0.153	/
WCDMA Band V	RMC	Right Cheek	846.6	0.171	3.47	23.70	23.52	1.042	0.178	/
		Right Tilt	846.6	0.147	3.05	23.70	23.52	1.042	0.153	/
		Left Cheek	846.6	0.248	-2.05	23.70	23.52	1.042	0.258	9
		Left Tilt	846.6	0.211	2.79	23.70	23.52	1.042	0.220	/
2.4G WLAN	802.11b	Right Cheek	2437	0.205	2.79	16.50	16.32	1.042	0.214	/
		Right Tilt	2437	0.157	-2.38	16.50	16.32	1.042	0.164	/
		Left Cheek	2437	0.230	1.81	16.50	16.32	1.042	0.240	11
		Left Tilt	2437	0.176	-1.44	16.50	16.32	1.042	0.183	/
5.2G WLAN	802.11a	Right Cheek	5180	0.315	-1.58	14.50	14.35	1.035	0.326	/
		Right Tilt	5180	0.237	3.99	14.50	14.35	1.035	0.245	/
		Left Cheek	5180	0.354	2.25	14.50	14.35	1.035	0.366	13
		Left Tilt	5180	0.27	0.58	14.50	14.35	1.035	0.279	/
5.3G WLAN	802.11n- HT40	Right Cheek	5310	0.356	1.11	14.30	14.06	1.057	0.376	/
		Right Tilt	5310	0.27	-3.22	14.30	14.06	1.057	0.285	/
		Left Cheek	5310	0.401	-1.92	14.30	14.06	1.057	0.424	15
		Left Tilt	5310	0.304	-1.33	14.30	14.06	1.057	0.321	/
5.6G WLAN	802.11a	Right Cheek	5700	0.253	-3.53	14.50	14.22	1.067	0.270	/
		Right Tilt	5700	0.19	-2.25	14.50	14.22	1.067	0.203	/
		Left Cheek	5700	0.283	-3.23	14.50	14.22	1.067	0.302	17
		Left Tilt	5700	0.214	-1.72	14.50	14.22	1.067	0.228	/
5.8G WLAN	802.11n- HT40	Right Cheek	5795	0.266	-0.84	14.50	14.33	1.040	0.277	/
		Right Tilt	5795	0.205	-0.73	14.50	14.33	1.040	0.213	/
		Left Cheek	5795	0.301	3.11	14.50	14.33	1.040	0.313	19
		Left Tilt	5795	0.226	-3.67	14.50	14.33	1.040	0.235	/



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	49	Right Cheek	1860	0.164	1.16	24.50	24.16	1.081	0.177	/
			50	49	Right Cheek	1900	0.15	1.48	23.50	23.23	1.064	0.160	/
			1	49	Right Tilt	1860	0.141	0.80	24.50	24.16	1.081	0.152	/
			50	49	Right Tilt	1900	0.128	0.48	23.50	23.23	1.064	0.136	/
			1	49	Left Cheek	1860	0.235	2.57	24.50	24.16	1.081	0.254	21
			50	49	Left Cheek	1900	0.215	0.47	23.50	23.23	1.064	0.229	/
			1	49	Left Tilt	1860	0.202	0.37	24.50	24.16	1.081	0.218	/
			50	49	Left Tilt	1900	0.185	-0.67	23.50	23.23	1.064	0.197	/
LTE Band 4	20M	QPSK	1	49	Right Cheek	1745	0.133	-0.03	22.00	21.99	1.002	0.133	/
			50	49	Right Cheek	1720	0.121	3.93	21.00	20.85	1.035	0.125	/
			1	49	Right Tilt	1745	0.113	0.43	22.00	21.99	1.002	0.113	/
			50	49	Right Tilt	1720	0.104	0.37	21.00	20.85	1.035	0.108	/
			1	49	Left Cheek	1745	0.189	-0.66	22.00	21.99	1.002	0.189	23
			50	49	Left Cheek	1720	0.172	2.23	21.00	20.85	1.035	0.178	/
			1	49	Left Tilt	1745	0.161	-3.19	22.00	21.99	1.002	0.161	/
			50	49	Left Tilt	1720	0.148	-2.06	21.00	20.85	1.035	0.153	/
LTE Band 5	10M	QPSK	1	49	Right Cheek	844	0.561	-3.36	24.80	24.57	1.054	0.592	/
			25	12	Right Cheek	844	0.507	1.03	23.50	23.37	1.030	0.522	/
			1	49	Right Tilt	844	0.479	2.70	24.80	24.57	1.054	0.505	/
			25	12	Right Tilt	844	0.434	-2.16	23.50	23.37	1.030	0.447	/
			1	49	Left Cheek	829	0.722	-3.38	24.80	24.17	1.156	0.835	/
			1	49	Left Cheek	836.5	0.768	-0.72	24.80	24.38	1.102	0.846	/
			1	49	Left Cheek	844	0.822	-1.28	24.80	24.57	1.054	0.867	25
			25	12	Left Cheek	844	0.738	-1.31	23.50	23.37	1.030	0.760	/
			1	49	Left Tilt	844	0.701	3.00	24.80	24.57	1.054	0.739	/
			25	12	Left Tilt	844	0.634	1.87	23.50	23.37	1.030	0.653	/
LTE Band 7	20M	QPSK	1	49	Right Cheek	2510	0.124	-2.91	24.00	23.92	1.019	0.126	/
			50	24	Right Cheek	2510	0.112	2.92	23.00	22.77	1.054	0.118	/
			1	49	Right Tilt	2510	0.11	-1.76	24.00	23.92	1.019	0.112	/
			50	24	Right Tilt	2510	0.101	0.84	23.00	22.77	1.054	0.106	/
			1	49	Left Cheek	2510	0.176	1.25	24.00	23.92	1.019	0.179	27
			50	24	Left Cheek	2510	0.158	3.40	23.00	22.77	1.054	0.167	/
			1	49	Left Tilt	2510	0.153	3.02	24.00	23.92	1.019	0.156	/
			50	24	Left Tilt	2510	0.14	-0.14	23.00	22.77	1.054	0.148	/



LTE Band 12	10M	QPSK	1	24	Right Cheek	704	0.1	1.74	24.50	24.42	1.019	0.102	/
			25	12	Right Cheek	711	0.093	-2.08	23.50	23.29	1.050	0.098	/
			1	24	Right Tilt	704	0.087	-1.62	24.50	24.42	1.019	0.089	/
			25	12	Right Tilt	711	0.08	-3.10	23.50	23.29	1.050	0.084	/
			1	24	Left Cheek	704	0.144	-3.92	24.50	24.42	1.019	0.147	29
			25	12	Left Cheek	711	0.131	-0.39	23.50	23.29	1.050	0.137	/
			1	24	Left Tilt	704	0.126	0.02	24.50	24.42	1.019	0.128	/
			25	12	Left Tilt	711	0.114	3.03	23.50	23.29	1.050	0.120	/
LTE Band 13	10M	QPSK	1	0	Right Cheek	782	0.092	-2.96	24.50	24.39	1.026	0.094	/
			25	12	Right Cheek	782	0.086	1.84	23.50	23.28	1.052	0.090	/
			1	0	Right Tilt	782	0.082	-3.43	24.50	24.39	1.026	0.084	/
			25	12	Right Tilt	782	0.076	-0.37	23.50	23.28	1.052	0.080	/
			1	0	Left Cheek	782	0.134	2.05	24.50	24.39	1.026	0.137	31
			25	12	Left Cheek	782	0.121	2.08	23.50	23.28	1.052	0.127	/
			1	0	Left Tilt	782	0.116	1.61	24.50	24.39	1.026	0.119	/
			25	12	Left Tilt	782	0.107	2.16	23.50	23.28	1.052	0.113	/
LTE Band 17	10M	QPSK	1	49	Right Cheek	709	0.148	2.61	24.50	24.34	1.038	0.154	/
			25	24	Right Cheek	709	0.135	-1.42	23.50	23.35	1.035	0.140	/
			1	49	Right Tilt	709	0.13	2.30	24.50	24.34	1.038	0.135	/
			25	24	Right Tilt	709	0.119	0.72	23.50	23.35	1.035	0.123	/
			1	49	Left Cheek	709	0.210	1.82	24.50	24.34	1.038	0.218	33
			25	24	Left Cheek	709	0.192	-1.50	23.50	23.35	1.035	0.199	/
			1	49	Left Tilt	709	0.18	-2.49	24.50	24.34	1.038	0.187	/
			25	24	Left Tilt	709	0.161	-3.28	23.50	23.35	1.035	0.167	/
LTE Band 25	20M	QPSK	1	49	Right Cheek	1860	0.178	2.00	24.50	24.25	1.059	0.189	/
			50	24	Right Cheek	1860	0.163	2.84	23.30	23.13	1.040	0.170	/
			1	49	Right Tilt	1860	0.153	0.20	24.50	24.25	1.059	0.162	/
			50	24	Right Tilt	1860	0.136	1.26	23.30	23.13	1.040	0.141	/
			1	49	Left Cheek	1860	0.258	-1.29	24.50	24.25	1.059	0.273	35
			50	24	Left Cheek	1860	0.235	3.82	23.30	23.13	1.040	0.244	/
			1	49	Left Tilt	1860	0.223	3.41	24.50	24.25	1.059	0.236	/
			50	24	Left Tilt	1860	0.2	1.02	23.30	23.13	1.040	0.208	/
LTE Band 26	15M	QPSK	1	74	Right Cheek	841.5	0.124	-3.34	24.70	24.68	1.005	0.125	/
			36	39	Right Cheek	841.5	0.115	-1.45	23.50	23.38	1.028	0.118	/
			1	74	Right Tilt	841.5	0.109	-3.54	24.70	24.68	1.005	0.110	/
			36	39	Right Tilt	841.5	0.098	-0.19	23.50	23.38	1.028	0.101	/
			1	74	Left Cheek	841.5	0.178	-3.81	24.70	24.68	1.005	0.179	37
			36	39	Left Cheek	841.5	0.161	-3.24	23.50	23.38	1.028	0.166	/
			1	74	Left Tilt	841.5	0.153	-0.22	24.70	24.68	1.005	0.154	/
			36	39	Left Tilt	841.5	0.139	-0.26	23.50	23.38	1.028	0.143	/
LTE Band 38	20M	QPSK	1	49	Right Cheek	2610	0.065	3.10	24.00	23.95	1.012	0.066	/
			50	49	Right Cheek	2610	0.059	1.52	23.00	22.82	1.042	0.061	/
			1	49	Right Tilt	2610	0.058	-3.82	24.00	23.95	1.012	0.059	/
			50	49	Right Tilt	2610	0.053	2.12	23.00	22.82	1.042	0.055	/
			1	49	Left Cheek	2610	0.092	0.23	24.00	23.95	1.012	0.093	39
			50	49	Left Cheek	2610	0.084	0.98	23.00	22.82	1.042	0.088	/
			1	49	Left Tilt	2610	0.081	-3.91	24.00	23.95	1.012	0.082	/
			50	49	Left Tilt	2610	0.073	-1.37	23.00	22.82	1.042	0.076	/



LTE Band 40	10M	QPSK	1	24	Right Cheek	2355	0.146	-3.09	19.50	19.30	1.047	0.153	/
			50	24	Right Cheek	2355	0.134	0.66	18.50	18.23	1.064	0.143	/
			1	24	Right Tilt	2355	0.127	3.12	19.50	19.30	1.047	0.133	/
			50	24	Right Tilt	2355	0.117	-1.11	18.50	18.23	1.064	0.125	/
			1	24	Left Cheek	2355	0.214	1.12	19.50	19.30	1.047	0.224	41
			50	24	Left Cheek	2355	0.194	2.20	18.50	18.23	1.064	0.206	/
			1	24	Left Tilt	2355	0.183	-3.76	19.50	19.30	1.047	0.192	/
			50	24	Left Tilt	2355	0.166	-2.96	18.50	18.23	1.064	0.177	/
LTE Band 41	20M	QPSK	1	49	Right Cheek	2645	0.126	1.04	24.30	24.14	1.038	0.131	/
			50	24	Right Cheek	2645	0.116	-3.80	23.30	23.02	1.067	0.124	/
			1	49	Right Tilt	2645	0.107	-0.45	24.30	24.14	1.038	0.111	/
			50	24	Right Tilt	2645	0.096	2.56	23.30	23.02	1.067	0.102	/
			1	49	Left Cheek	2645	0.182	0.38	24.30	24.14	1.038	0.189	43
			50	24	Left Cheek	2645	0.166	1.20	23.30	23.02	1.067	0.177	/
			1	49	Left Tilt	2645	0.159	0.77	24.30	24.14	1.038	0.165	/
			50	24	Left Tilt	2645	0.143	0.76	23.30	23.02	1.067	0.153	/

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	0.256	-2.07	29.00	28.60	1.096	0.281	/
		Back Side	836.6	0.363	0.18	29.00	28.60	1.096	0.398	/
		Left Side	836.6	0.296	-1.41	29.00	28.60	1.096	0.325	/
		Right Side	836.6	0.127	-2.84	29.00	28.60	1.096	0.139	/
		Top Side	836.6	0.03	-2.91	29.00	28.60	1.096	0.033	/
		Bottom Side	836.6	0.423	-3.10	29.00	28.60	1.096	0.464	2
PCS 1900	GPRS Data-4 Slot	Front Side	1880	0.257	-2.01	25.50	25.45	1.012	0.260	/
		Back Side	1880	0.309	2.79	25.50	25.45	1.012	0.313	/
		Left Side	1880	0.145	-3.43	25.50	25.45	1.012	0.147	/
		Right Side	1880	0.099	-3.47	25.50	25.45	1.012	0.100	/
		Bottom Side	1880	0.727	1.85	25.50	25.45	1.012	0.735	4
WCDMA Band II	RMC	Front Side	1852.4	0.245	-2.93	24.50	24.29	1.050	0.257	/
		Back Side	1852.4	0.292	1.99	24.50	24.29	1.050	0.306	/
		Left Side	1852.4	0.137	-0.64	24.50	24.29	1.050	0.144	/
		Right Side	1852.4	0.091	-3.97	24.50	24.29	1.050	0.096	/
		Bottom Side	1852.4	0.696	0.64	24.50	24.29	1.050	0.730	6
WCDMA Band IV	RMC	Front Side	1712.6	0.316	-1.91	22.30	22.19	1.026	0.324	/
		Back Side	1712.6	0.378	-3.37	22.30	22.19	1.026	0.388	/
		Left Side	1712.6	0.181	1.51	22.30	22.19	1.026	0.186	/
		Right Side	1712.6	0.118	-2.58	22.30	22.19	1.026	0.121	/
		Bottom Side	1712.6	0.899	3.34	22.30	22.19	1.026	0.922	8
		Bottom Side	1740	0.87	1.22	22.30	22.06	1.057	0.919	/
		Bottom Side	1752.4	0.832	2.24	22.30	21.95	1.084	0.902	/
WCDMA Band V	RMC	Front Side	846.6	0.155	0.79	23.70	23.52	1.042	0.162	/
		Back Side	846.6	0.22	-1.05	23.70	23.52	1.042	0.229	/
		Left Side	846.6	0.179	1.54	23.70	23.52	1.042	0.187	/
		Right Side	846.6	0.078	-1.77	23.70	23.52	1.042	0.081	/
		Bottom Side	846.6	0.256	2.60	23.70	23.52	1.042	0.267	10
2.4GHz WLAN	802.11b	Front Side	2437	0.131	-3.07	16.50	16.32	1.042	0.137	/
		Back Side	2437	0.170	2.53	16.50	16.32	1.042	0.177	12
		Right Side	2437	0.116	-0.07	16.50	16.32	1.042	0.121	/
		Top Side	2437	0.109	-3.96	16.50	16.32	1.042	0.114	/
5.2GHz WLAN	802.11a	Front Side	5180	0.347	-0.16	14.50	14.35	1.035	0.359	/
		Back Side	5180	0.447	-1.26	14.50	14.35	1.035	0.463	14
		Right Side	5180	0.307	1.09	14.50	14.35	1.035	0.318	/
		Top Side	5180	0.29	1.03	14.50	14.35	1.035	0.300	/
5.3GHz WLAN	802.11n-HT40	Front Side	5310	0.633	3.76	14.30	14.06	1.057	0.669	/
		Back Side	5270	0.743	0.85	14.30	13.99	1.074	0.798	/
		Back Side	5310	0.823	1.09	14.30	14.06	1.057	0.870	16
		Right Side	5310	0.564	-3.52	14.30	14.06	1.057	0.596	/
		Top Side	5310	0.538	3.19	14.30	14.06	1.057	0.569	/
		Bottom Side	5310	0.324	2.65	14.30	14.06	1.057	0.342	/
5.6GHz WLAN	802.11a	Front Side	5700	0.543	2.76	14.50	14.22	1.067	0.579	/
		Back Side	5700	0.704	-1.55	14.50	14.22	1.067	0.751	18
		Right Side	5700	0.483	-3.00	14.50	14.22	1.067	0.515	/
		Top Side	5700	0.459	-2.62	14.50	14.22	1.067	0.490	/
5.8GHz WLAN	802.11n-HT40	Front Side	5795	0.399	1.54	14.50	14.33	1.040	0.415	/
		Back Side	5795	0.517	0.31	14.50	14.33	1.040	0.538	20
		Right Side	5795	0.355	-0.49	14.50	14.33	1.040	0.369	/
		Top Side	5795	0.338	-3.68	14.50	14.33	1.040	0.351	/



Band	BW (MHz)	Mod.	RB Size	RB offset	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.
LTE Band 2	20M	QPSK	1	49	Front side	1860	0.479	1.06	24.50	24.16	1.081	0.518	/
			50	49	Front side	1900	0.433	-0.82	23.50	23.23	1.064	0.461	/
			1	49	Back Side	1860	0.657	3.80	24.50	24.16	1.081	0.711	/
			50	49	Back Side	1900	0.598	-2.84	23.50	23.23	1.064	0.636	/
			1	49	Left Side	1860	0.557	2.21	24.50	24.16	1.081	0.602	/
			50	49	Left Side	1900	0.504	-3.11	23.50	23.23	1.064	0.536	/
			1	49	Right Side	1860	0.24	0.00	24.50	24.16	1.081	0.260	/
			50	49	Right Side	1900	0.219	1.30	23.50	23.23	1.064	0.233	/
			1	49	Bottom Side	1860	0.796	-3.25	24.50	24.16	1.081	0.861	22
			1	49	Bottom Side	1880	0.758	-2.40	24.50	24.10	1.096	0.831	/
			1	49	Bottom Side	1900	0.732	0.36	24.50	24.05	1.109	0.812	/
			50	49	Bottom Side	1900	0.716	0.01	23.50	23.23	1.064	0.762	/
LTE Band 4	20M	QPSK	1	49	Front side	1745	0.489	2.75	22.00	21.99	1.002	0.490	/
			50	49	Front side	1720	0.438	-2.35	21.00	20.85	1.035	0.453	/
			1	49	Back Side	1745	0.691	-2.81	22.00	21.99	1.002	0.693	/
			50	49	Back Side	1720	0.621	-1.98	21.00	20.85	1.035	0.643	/
			1	49	Left Side	1745	0.568	1.54	22.00	21.99	1.002	0.569	/
			50	49	Left Side	1720	0.511	3.28	21.00	20.85	1.035	0.529	/
			1	49	Right Side	1745	0.243	-2.80	22.00	21.99	1.002	0.244	/
			50	49	Right Side	1720	0.218	3.30	21.00	20.85	1.035	0.226	/
			1	49	Bottom Side	1720	0.762	-2.41	22.00	21.84	1.038	0.791	/
			1	49	Bottom Side	1732.5	0.741	-2.91	22.00	21.79	1.050	0.778	/
			1	49	Bottom Side	1745	0.809	-1.74	22.00	21.99	1.002	0.811	24
			50	49	Bottom Side	1720	0.729	3.73	21.00	20.85	1.035	0.755	/



LTE Band 5	10M	QPSK	1	49	Front side	844	0.238	-1.73	24.80	24.57	1.054	0.251	/
			25	12	Front side	844	0.216	-2.14	23.50	23.37	1.030	0.223	/
			1	49	Back Side	844	0.337	2.23	24.80	24.57	1.054	0.355	/
			25	12	Back Side	844	0.303	3.14	23.50	23.37	1.030	0.312	/
			1	49	Left Side	844	0.276	0.54	24.80	24.57	1.054	0.291	/
			25	12	Left Side	844	0.25	-1.14	23.50	23.37	1.030	0.258	/
			1	49	Right Side	844	0.118	0.78	24.80	24.57	1.054	0.124	/
			25	12	Right Side	844	0.109	-0.08	23.50	23.37	1.030	0.112	/
			1	49	Bottom Side	844	0.394	2.57	24.80	24.57	1.054	0.415	26
			25	12	Bottom Side	844	0.356	1.54	23.50	23.37	1.030	0.367	/
LTE Band 7	20M	QPSK	1	49	Front side	2510	0.212	-2.81	24.00	23.92	1.019	0.216	/
			50	24	Front side	2510	0.192	-1.00	23.00	22.77	1.054	0.202	/
			1	49	Back Side	2510	0.298	3.50	24.00	23.92	1.019	0.304	/
			50	24	Back Side	2510	0.269	3.29	23.00	22.77	1.054	0.284	/
			1	49	Left Side	2510	0.247	3.51	24.00	23.92	1.019	0.252	/
			50	24	Left Side	2510	0.222	0.25	23.00	22.77	1.054	0.234	/
			1	49	Right Side	2510	0.107	-2.28	24.00	23.92	1.019	0.109	/
			50	24	Right Side	2510	0.097	0.43	23.00	22.77	1.054	0.102	/
			1	49	Bottom Side	2510	0.348	-3.57	24.00	23.92	1.019	0.354	28
			50	24	Bottom Side	2510	0.315	1.91	23.00	22.77	1.054	0.332	/
LTE Band 12	10M	QPSK	1	24	Front side	704	0.117	-2.78	24.50	24.42	1.019	0.119	/
			25	12	Front side	711	0.105	1.98	23.50	23.29	1.050	0.110	/
			1	24	Back Side	704	0.167	1.35	24.50	24.42	1.019	0.170	/
			25	12	Back Side	711	0.151	-1.79	23.50	23.29	1.050	0.158	/
			1	24	Left Side	704	0.135	2.67	24.50	24.42	1.019	0.138	/
			25	12	Left Side	711	0.122	-0.51	23.50	23.29	1.050	0.128	/
			1	24	Right Side	704	0.06	-1.16	24.50	24.42	1.019	0.061	/
			25	12	Right Side	711	0.056	3.08	23.50	23.29	1.050	0.059	/
			1	24	Bottom Side	704	0.193	-3.02	24.50	24.42	1.019	0.197	30
			25	12	Bottom Side	711	0.177	0.02	23.50	23.29	1.050	0.186	/



LTE Band 13	10M	QPSK	1	0	Front side	782	0.158	3.83	24.50	24.39	1.026	0.162	/
			25	12	Front side	782	0.143	2.74	23.50	23.28	1.052	0.150	/
			1	0	Back Side	782	0.222	0.69	24.50	24.39	1.026	0.228	/
			25	12	Back Side	782	0.202	2.58	23.50	23.28	1.052	0.212	/
			1	0	Left Side	782	0.18	2.04	24.50	24.39	1.026	0.185	/
			25	12	Left Side	782	0.165	3.91	23.50	23.28	1.052	0.174	/
			1	0	Right Side	782	0.079	2.06	24.50	24.39	1.026	0.081	/
			25	12	Right Side	782	0.072	-2.03	23.50	23.28	1.052	0.076	/
			1	0	Bottom Side	782	0.257	2.21	24.50	24.39	1.026	0.264	32
			25	12	Bottom Side	782	0.235	1.55	23.50	23.28	1.052	0.247	/
LTE Band 17	10M	QPSK	1	49	Front side	709	0.128	2.93	24.50	24.34	1.038	0.133	/
			25	24	Front side	709	0.118	-1.97	23.50	23.35	1.035	0.122	/
			1	49	Back Side	709	0.181	1.65	24.50	24.34	1.038	0.188	/
			25	24	Back Side	709	0.164	3.91	23.50	23.35	1.035	0.170	/
			1	49	Left Side	709	0.147	-3.29	24.50	24.34	1.038	0.153	/
			25	24	Left Side	709	0.132	0.16	23.50	23.35	1.035	0.137	/
			1	49	Right Side	709	0.066	2.92	24.50	24.34	1.038	0.068	/
			25	24	Right Side	709	0.062	-3.22	23.50	23.35	1.035	0.064	/
			1	49	Bottom Side	709	0.210	0.67	24.50	24.34	1.038	0.218	34
			25	24	Bottom Side	709	0.189	2.41	23.50	23.35	1.035	0.196	/
LTE Band 25	20M	QPSK	1	49	Front side	1860	0.455	0.71	24.50	24.25	1.059	0.482	/
			50	24	Front side	1860	0.413	-2.77	23.30	23.13	1.040	0.429	/
			1	49	Back Side	1860	0.649	-1.58	24.50	24.25	1.059	0.687	/
			50	24	Back Side	1860	0.587	-2.10	23.30	23.13	1.040	0.610	/
			1	49	Left Side	1860	0.53	1.54	24.50	24.25	1.059	0.561	/
			50	24	Left Side	1860	0.48	0.00	23.30	23.13	1.040	0.499	/
			1	49	Right Side	1860	0.229	-2.15	24.50	24.25	1.059	0.243	/
			50	24	Right Side	1860	0.21	-0.58	23.30	23.13	1.040	0.218	/
			1	49	Bottom Side	1860	0.759	0.69	24.50	24.25	1.059	0.804	36
			1	49	Bottom Side	1882.5	0.702	-1.07	24.50	24.04	1.112	0.780	/
			1	49	Bottom Side	1905	0.723	0.47	24.50	24.07	1.104	0.798	/
			50	24	Bottom Side	1860	0.682	-2.81	23.30	23.13	1.040	0.709	/



LTE Band 26	15M	QPSK	1	74	Front side	841.5	0.176	3.17	24.70	24.68	1.005	0.177	/
			36	39	Front side	841.5	0.16	2.24	23.50	23.38	1.028	0.164	/
			1	74	Back Side	841.5	0.252	2.46	24.70	24.68	1.005	0.253	/
			36	39	Back Side	841.5	0.224	-0.75	23.50	23.38	1.028	0.230	/
			1	74	Left Side	841.5	0.206	-1.42	24.70	24.68	1.005	0.207	/
			36	39	Left Side	841.5	0.185	1.73	23.50	23.38	1.028	0.190	/
			1	74	Right Side	841.5	0.092	-0.92	24.70	24.68	1.005	0.092	/
			36	39	Right Side	841.5	0.087	1.90	23.50	23.38	1.028	0.089	/
			1	74	Bottom Side	841.5	0.293	-1.75	24.70	24.68	1.005	0.294	38
			36	39	Bottom Side	841.5	0.264	0.27	23.50	23.38	1.028	0.271	/
LTE Band 38	20M	QPSK	1	49	Front side	2610	0.208	1.71	24.00	23.95	1.012	0.210	/
			50	49	Front side	2610	0.19	-2.68	23.00	22.82	1.042	0.198	/
			1	49	Back Side	2610	0.294	2.32	24.00	23.95	1.012	0.297	/
			50	49	Back Side	2610	0.268	2.79	23.00	22.82	1.042	0.279	/
			1	49	Left Side	2610	0.243	1.01	24.00	23.95	1.012	0.246	/
			50	49	Left Side	2610	0.221	1.41	23.00	22.82	1.042	0.230	/
			1	49	Right Side	2610	0.104	3.12	24.00	23.95	1.012	0.105	/
			50	49	Right Side	2610	0.095	-2.26	23.00	22.82	1.042	0.099	/
			1	49	Bottom Side	2610	0.344	0.61	24.00	23.95	1.012	0.348	40
			50	49	Bottom Side	2610	0.308	2.46	23.00	22.82	1.042	0.321	/
LTE Band 40	10M	QPSK	1	24	Front side	2355	0.347	-1.50	19.50	19.30	1.047	0.363	/
			50	24	Front side	2355	0.313	0.65	18.50	18.23	1.064	0.333	/
			1	24	Back Side	2355	0.492	0.65	19.50	19.30	1.047	0.515	/
			50	24	Back Side	2355	0.441	3.64	18.50	18.23	1.064	0.469	/
			1	24	Left Side	2355	0.407	1.01	19.50	19.30	1.047	0.426	/
			50	24	Left Side	2355	0.369	0.15	18.50	18.23	1.064	0.393	/
			1	24	Right Side	2355	0.175	3.19	19.50	19.30	1.047	0.183	/
			50	24	Right Side	2355	0.159	-2.57	18.50	18.23	1.064	0.169	/
			1	24	Bottom Side	2355	0.577	3.71	19.50	19.30	1.047	0.604	42
			50	24	Bottom Side	2355	0.519	-0.36	18.50	18.23	1.064	0.552	/



LTE Band 41	20M	QPSK	1	49	Front side	2645	0.233	1.71	24.30	24.14	1.038	0.242	/
			50	24	Front side	2645	0.211	-3.50	23.30	23.02	1.067	0.225	/
			1	49	Back Side	2645	0.334	1.02	24.30	24.14	1.038	0.347	/
			50	24	Back Side	2645	0.301	-0.52	23.30	23.02	1.067	0.321	/
			1	49	Left Side	2645	0.275	-3.53	24.30	24.14	1.038	0.285	/
			50	24	Left Side	2645	0.246	0.61	23.30	23.02	1.067	0.262	/
			1	49	Right Side	2645	0.118	1.23	24.30	24.14	1.038	0.122	/
			50	24	Right Side	2645	0.109	2.74	23.30	23.02	1.067	0.116	/
			1	49	Bottom Side	2645	0.389	-2.29	24.30	24.14	1.038	0.404	44
			50	24	Bottom Side	2645	0.351	1.92	23.30	23.02	1.067	0.374	/

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)
WCDMA Band IV	RMC	Bottom Side	1712.6	0.895	-2.16	22.30	22.19	1.026	0.918
		Bottom Side	1740	0.851	3.67	22.30	22.06	1.057	0.899
		Bottom Side	1752.4	0.817	2.85	22.30	21.95	1.084	0.886
5.3GHz WLAN	802.11n-HT40	Back Side	5310	0.813	0.87	14.30	14.06	1.057	0.860

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 5	10M	QPSK	1	49	Left Cheek	829	0.711	1.32	24.80	24.17	1.156	0.822
			1	49	Left Cheek	836.5	0.767	2.67	24.80	24.38	1.102	0.845
			1	49	Left Cheek	844	0.809	0.27	24.80	24.57	1.054	0.853
LTE Band 2	10M	QPSK	1	49	Bottom Side	1860	0.757	0.09	24.50	24.16	1.081	0.819
			1	49	Bottom Side	1880	0.722	3.51	24.50	24.10	1.096	0.791
			1	49	Bottom Side	1900	0.713	-2.88	24.50	24.05	1.109	0.791
LTE Band 4	20M	QPSK	1	49	Bottom Side	1745	0.782	-2.79	22.00	21.99	1.002	0.784
LTE Band 25	20M	QPSK	1	49	Bottom Side	1860	0.742	-3.62	24.50	24.25	1.059	0.786



12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
WCDMA Band IV	RMC	Bottom Side	1713	0.899	0.895	1.004
		Bottom Side	1740	0.87	0.851	1.022
		Bottom Side	1752	0.832	0.817	1.018
5.3GHz WLAN	802.11n-HT40	Back Side	5310	0.823	0.813	1.012

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
LTE Band 5	10M	QPSK	1	49	Left Cheek	829	0.722	0.711	1.015
			1	49	Left Cheek	836.5	0.768	0.767	1.002
			1	49	Left Cheek	844	0.822	0.809	1.016
LTE Band 2	10M	QPSK	1	49	Bottom Side	1860	0.796	0.757	1.051
			1	49	Bottom Side	1880	0.758	0.722	1.050
			1	49	Bottom Side	1900	0.732	0.713	1.027
LTE Band 4	20M	QPSK	1	49	Bottom Side	1745	0.809	0.782	1.034
LTE Band 25	20M	QPSK	1	49	Bottom Side	1860	0.759	0.742	1.023

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+ NFC
	2. GSM + Bluetooth+ NFC
	3. WCDMA + 2.4GHz WLAN/5G WLAN+ NFC
	4. WCDMA + Bluetooth+ NFC
	5. LTE + 2.4GHz WLAN/5G WLAN+ NFC
	6. LTE + Bluetooth+ NFC
Body	1. GSM + 2.4GHz WLAN/5G WLAN+ NFC
	2. GSM + Bluetooth+ NFC
	3. WCDMA + 2.4GHz WLAN/5G WLAN+ NFC
	4. WCDMA + Bluetooth+ NFC
	5. LTE + 2.4GHz WLAN/5G WLAN+ NFC
	6. LTE + Bluetooth+ NFC

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	5.5	3.548	5	2.441	0.148
	Body			5	2.441	0.148
NFC	Head	-37.5	0.000178	5	0.01356	0.0000006
	Body			5	0.01356	0.0000006



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN + NFC	Head	GSM	0.197	0.437
		NFC	0.0000006	
		2.4G WLAN	0.240	
	Body	GSM	0.735	0.912
		NFC	0.0000006	
		2.4G WLAN	0.177	
GSM + Bluetooth+ NFC	Head	GSM	0.197	0.345
		NFC	0.0000006	
		BT	0.148	
	Body	GSM	0.735	0.883
		NFC	0.0000006	
		BT	0.148	
GSM + 5G WLAN+ NFC	Head	GSM	0.197	0.621
		NFC	0.0000006	
		5G WLAN	0.424	
	Body Back Side	GSM	0.313	1.183
		NFC	0.0000006	
		5G WLAN	0.870	
	Body Bottom Side	GSM	0.735	1.077
		NFC	0.0000006	
		5G WLAN	0.342	
WCDMA + 2.4G WLAN + NFC	Head	WCDMA	0.343	0.583
		NFC	0.0000006	
		2.4G WLAN	0.240	
	Body	WCDMA	0.922	1.099
		NFC	0.0000006	
		2.4G WLAN	0.177	
WCDMA + Bluetooth+ NFC	Head	WCDMA	0.343	0.491
		NFC	0.0000006	
		BT	0.148	
	Body	WCDMA	0.922	1.070
		NFC	0.0000006	
		BT	0.148	
WCDMA + 5G WLAN+ NFC	Head	WCDMA	0.343	0.767
		NFC	0.0000006	
		5G WLAN	0.424	
	Body Back Side	WCDMA	0.229	1.099
		NFC	0.0000006	
		5G WLAN	0.870	
	Body Bottom Side	WCDMA	0.922	1.264
		NFC	0.0000006	
		5G WLAN	0.342	



LTE + 2.4G WLAN + NFC	Head	LTE	0.867	1.107
		NFC	0.0000006	
		2.4G WLAN	0.240	
	Body	LTE	0.861	1.038
		NFC	0.0000006	
		2.4G WLAN	0.177	
LTE + Bluetooth+ NFC	Head	LTE	0.867	1.015
		NFC	0.0000006	
		BT	0.148	
	Body	LTE	0.861	1.009
		NFC	0.0000006	
		BT	0.148	
LTE + 5G WLAN+ NFC	Head	LTE	0.867	1.291
		NFC	0.0000006	
		5G WLAN	0.424	
	Body Back Side	LTE	0.711	1.581
		NFC	0.0000006	
		5G WLAN	0.870	
	Body Bottom Side	LTE	0.861	1.203
		NFC	0.0000006	
		5G WLAN	0.342	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.02.05	2028.02.04
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.02.05	2028.02.04
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.02.05	2028.02.04
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.02.05	2028.02.04
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.02.05	2028.02.04
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.02.05	2028.02.04
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2025.02.05	2028.02.04
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2025.02.05	2026.02.04
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.02.05	2026.02.04
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 (750MHz)

Type: Phone measurement (Complete)

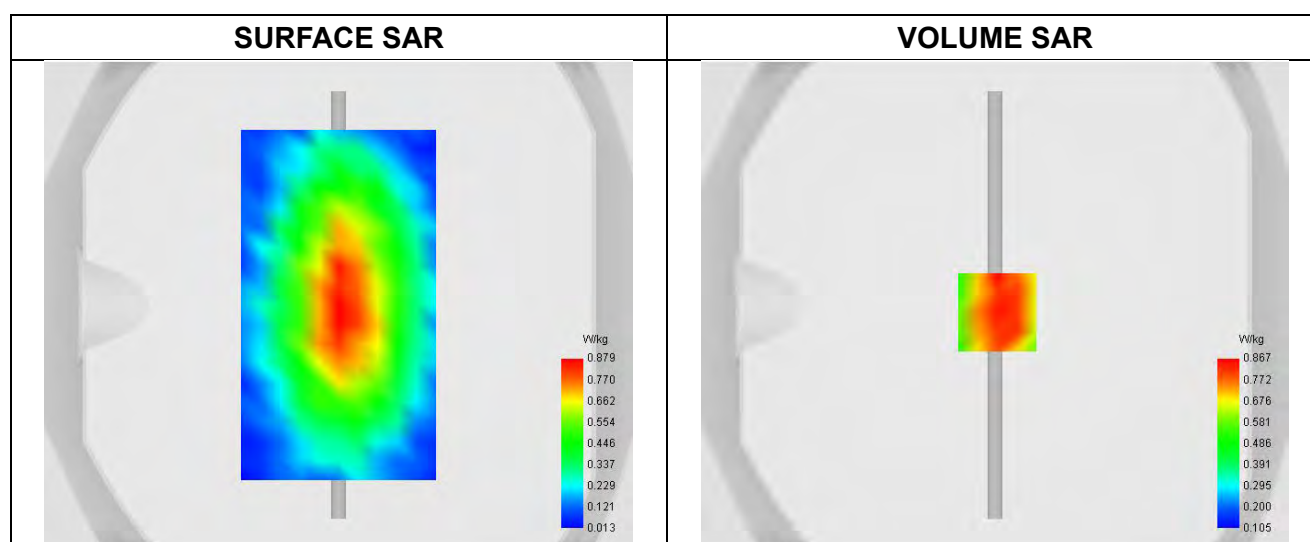
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-05-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.03
Conductivity (S/m)	0.90
Probe	SN 04/22 EPGO364
ConvF	1.67
Crest factor:	1:1

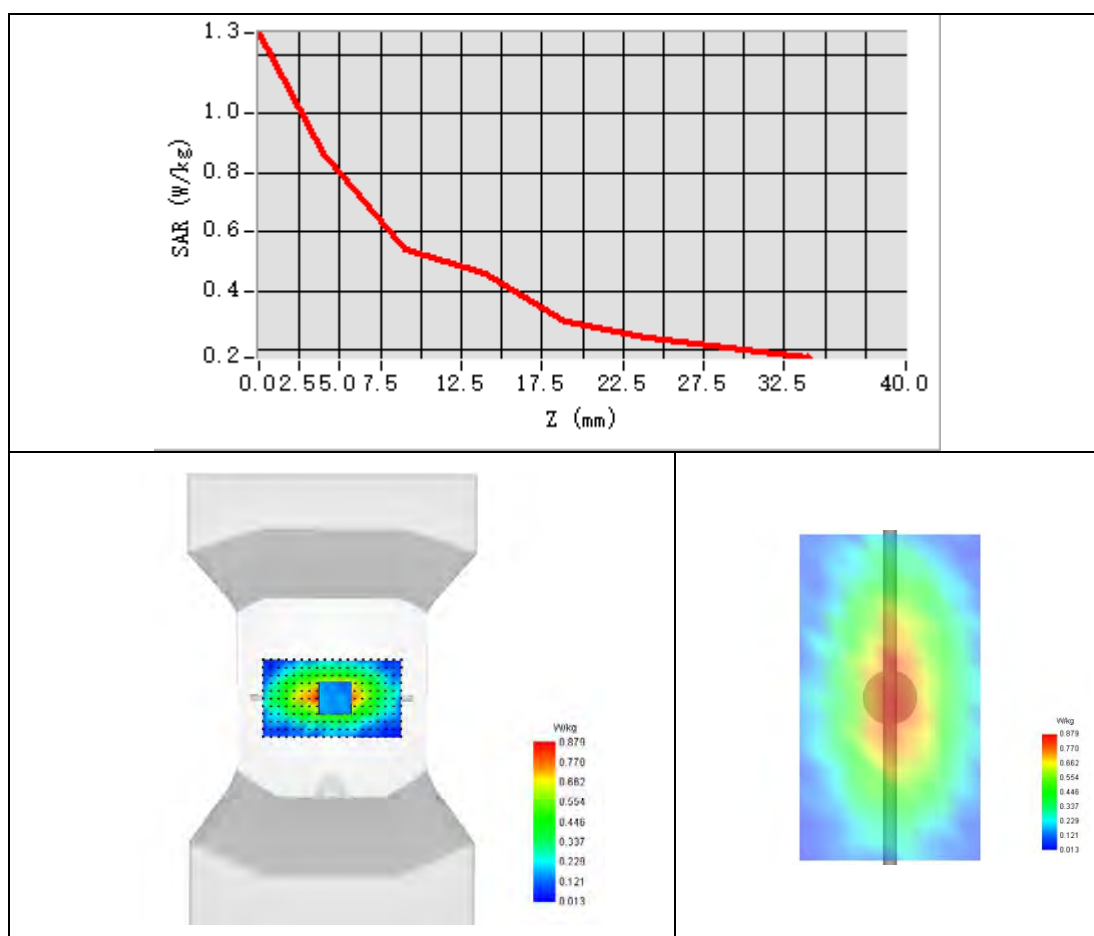


Maximum location: X=1.00, Y=-3.00 ; SAR Peak: 1.28 W/kg

SAR 10g (W/Kg)	0.525
SAR 1g (W/Kg)	0.819



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

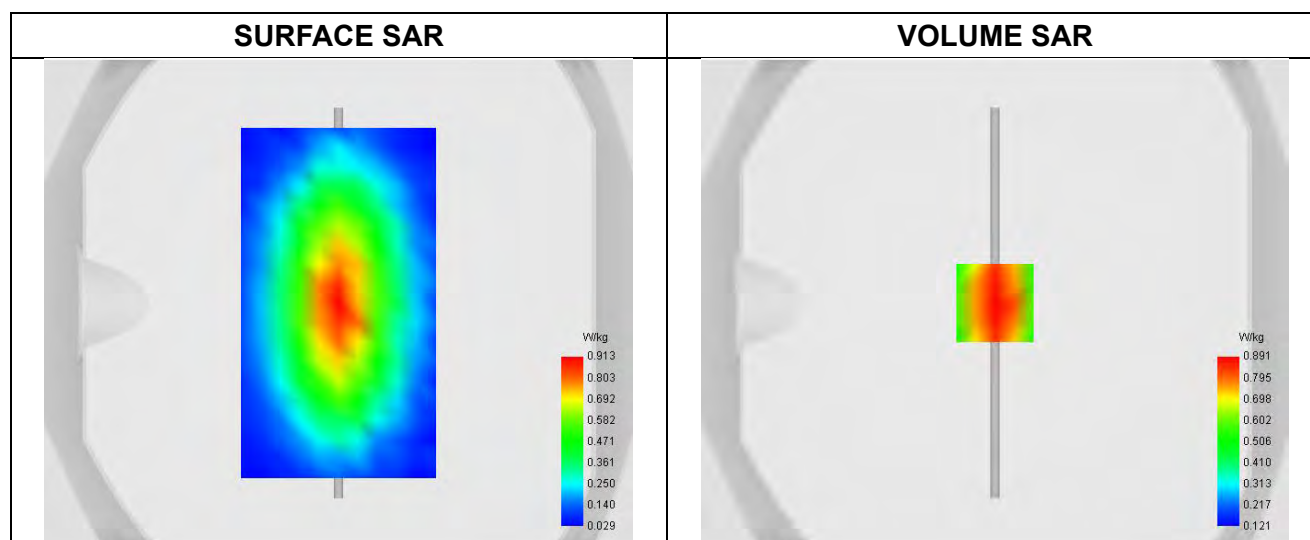
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-04-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.01
Conductivity (S/m)	0.93
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

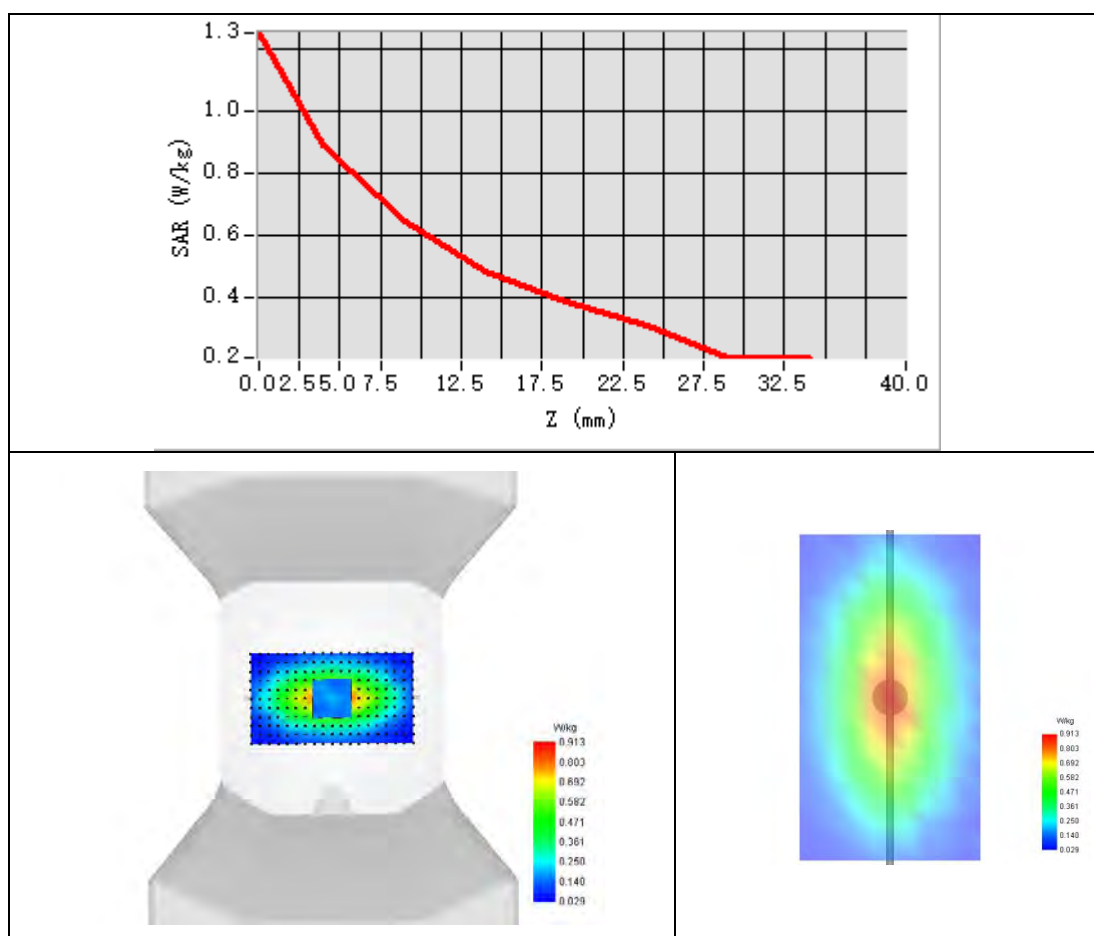


Maximum location: X=5.00, Y=5.00 ; SAR Peak: 1.45 W/kg

SAR 10g (W/Kg)	0.612
SAR 1g (W/Kg)	0.958



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

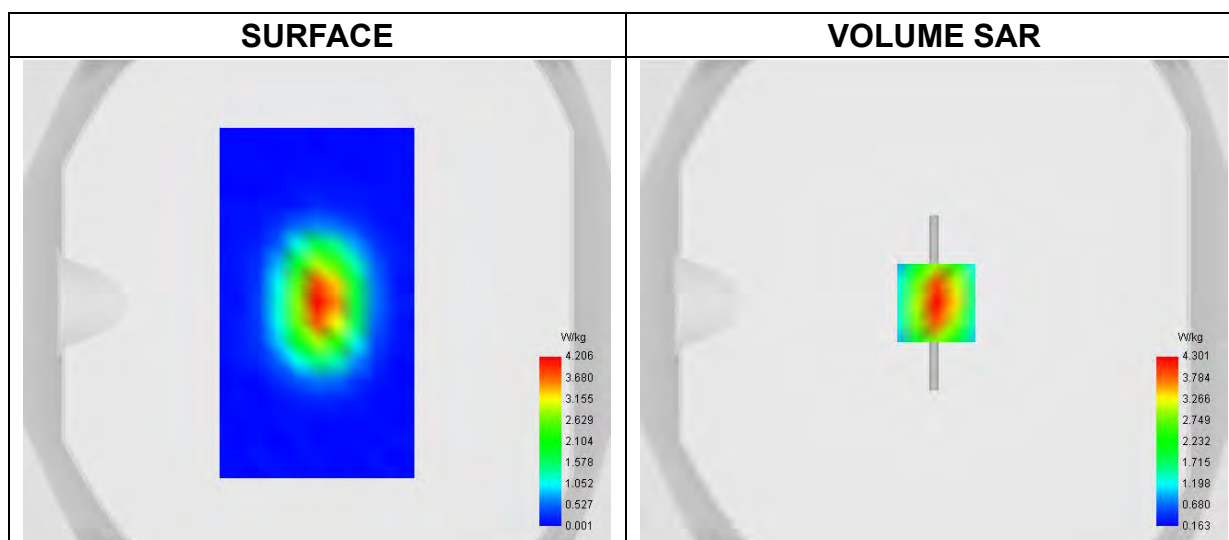
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.49
Conductivity (S/m)	1.42
Probe	SN 04/22 EPGO364
ConvF	1.92
Crest factor:	1:1

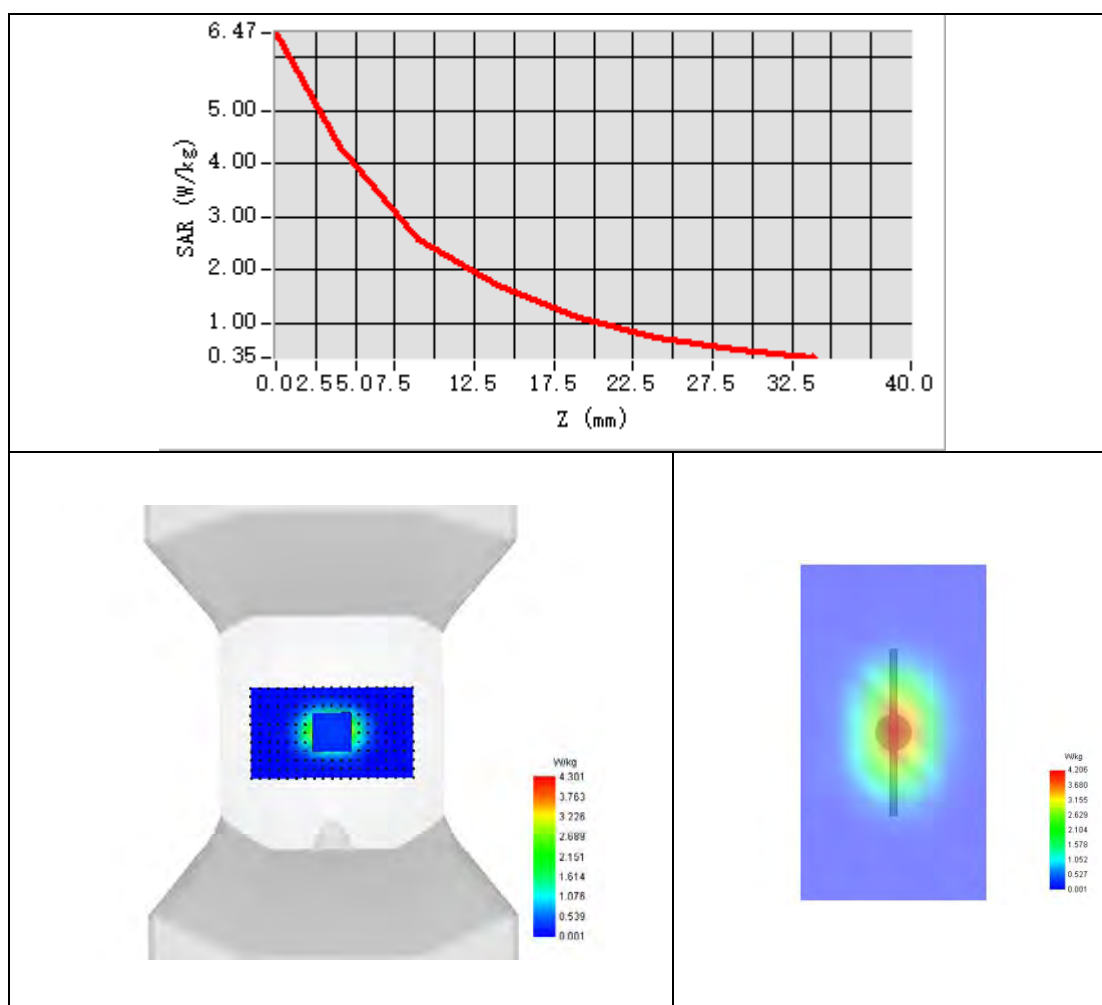


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.44 W/kg

SAR 10g (W/Kg)	2.054
SAR 1g (W/Kg)	3.894



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

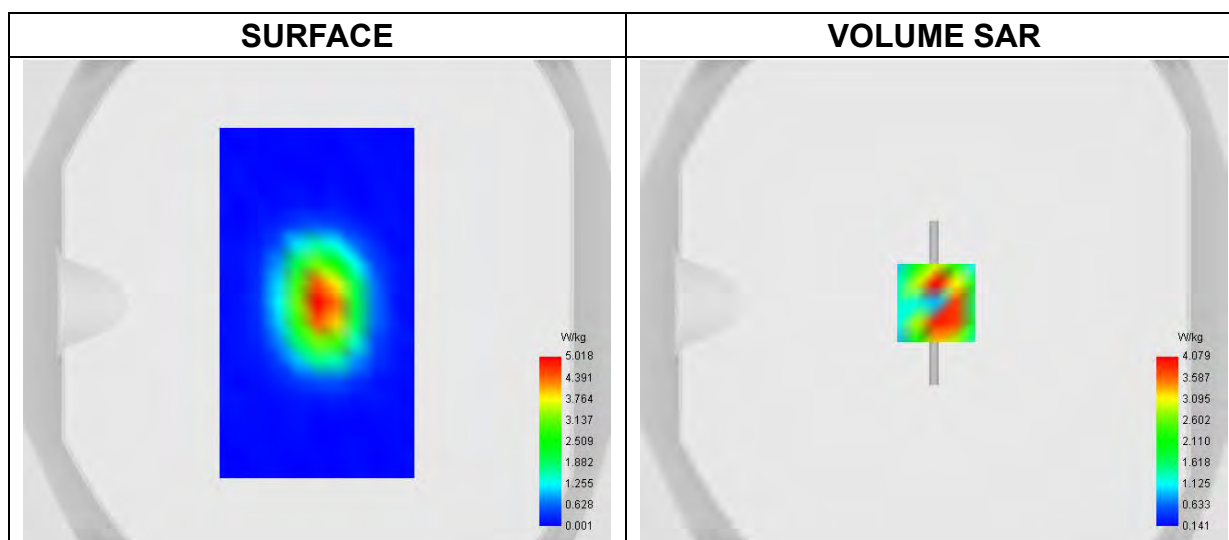
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-04-30

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.83
Conductivity (S/m)	1.42
Probe	SN 04/22 EPGO364
ConvF	2.20
Crest factor:	1:1

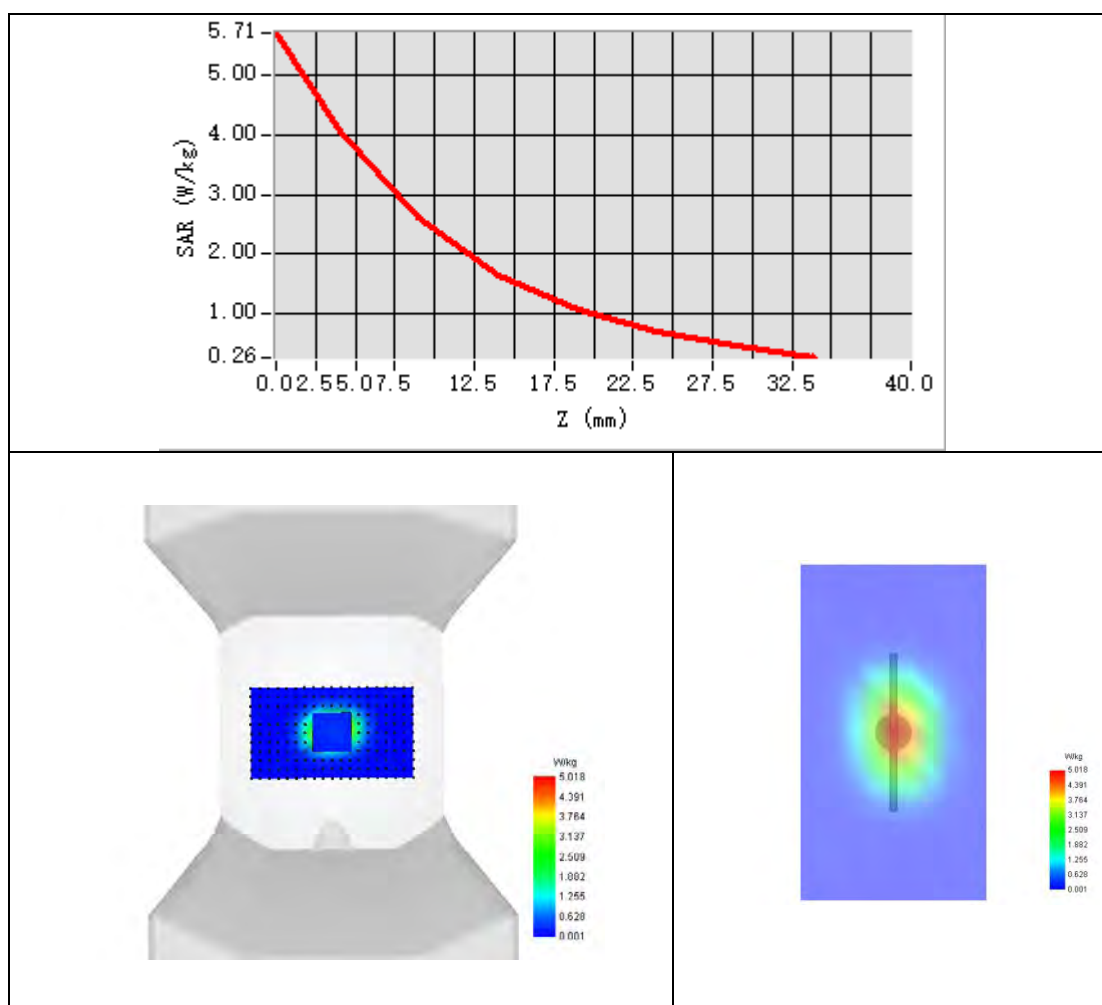


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.43 W/kg

SAR 10g (W/Kg)	2.061
SAR 1g (W/Kg)	4.122



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

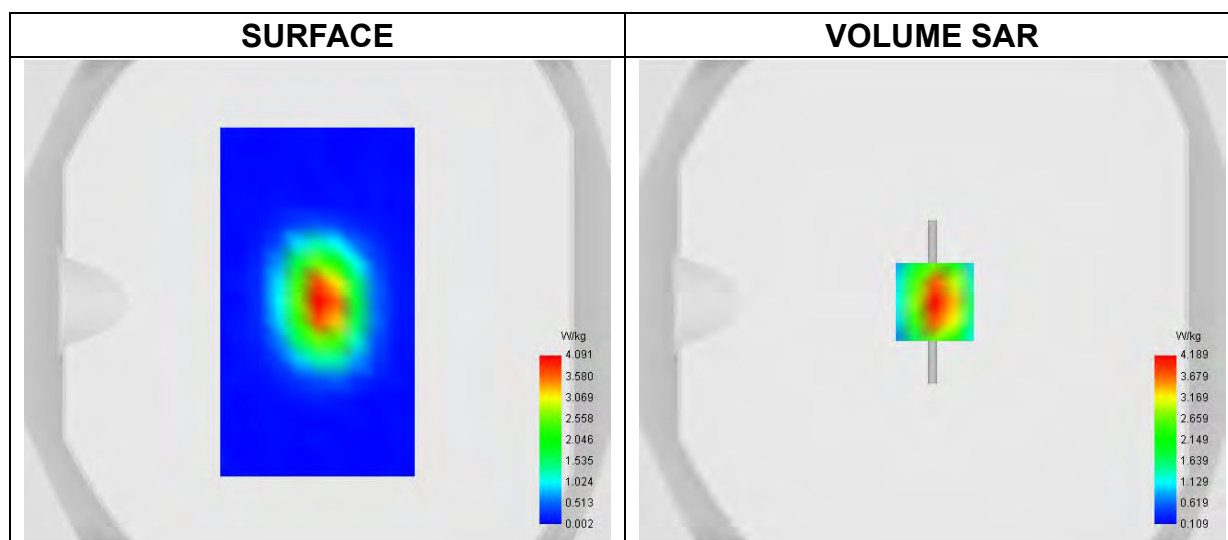
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-03-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.79
Conductivity (S/m)	1.45
Probe	SN 04/22 EPGO364
ConvF	2.20
Crest factor:	1:1

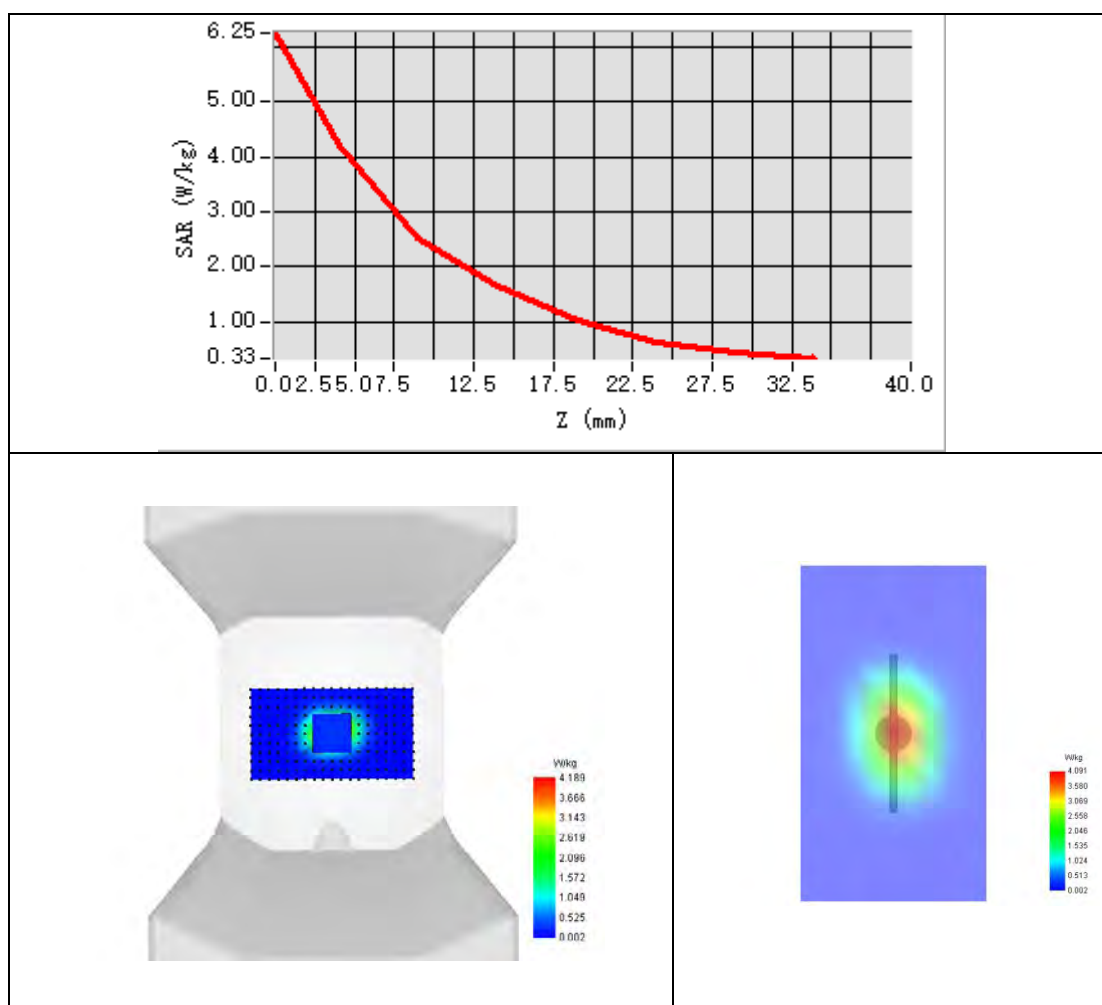


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.27 W/kg

SAR 10g (W/Kg)	2.038
SAR 1g (W/Kg)	4.093



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

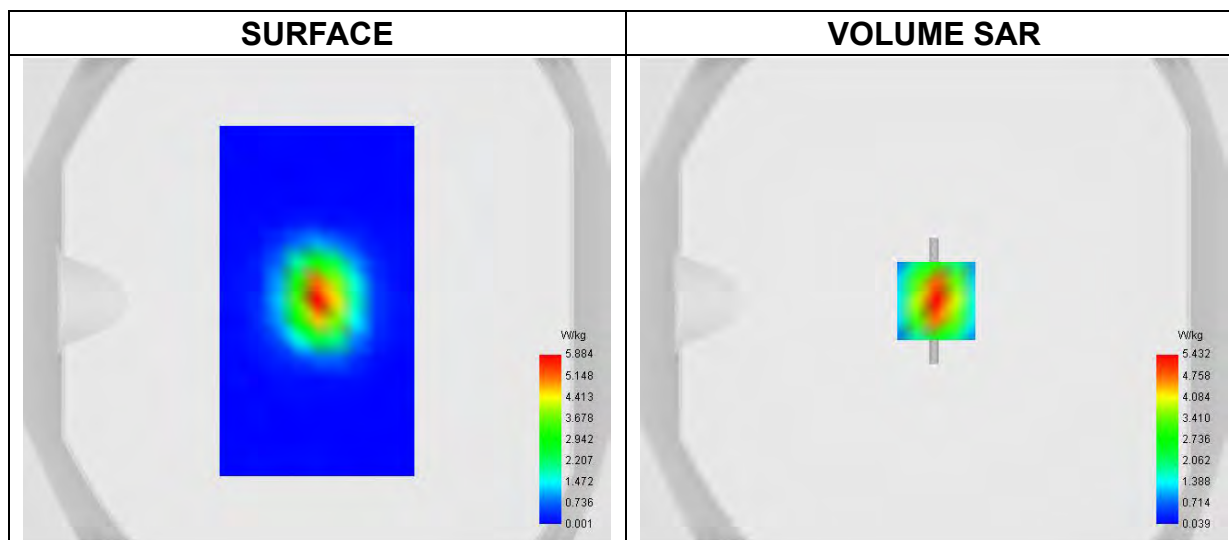
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.99
Conductivity (S/m)	1.81
Probe	SN 04/22 EPGO364
ConvF	2.33
Crest factor:	1:1

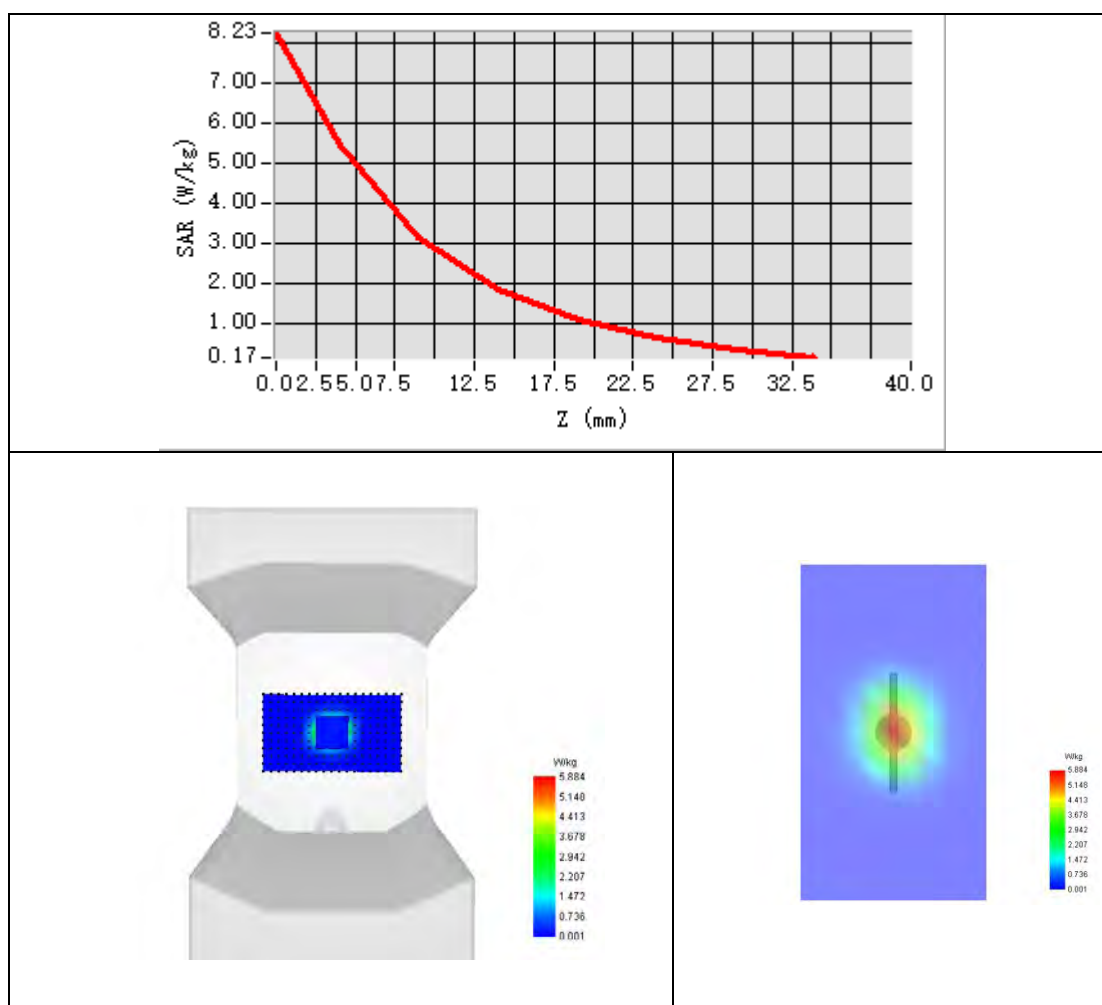


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.27 W/kg

SAR 10g (W/Kg)	2.421
SAR 1g (W/Kg)	5.464



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

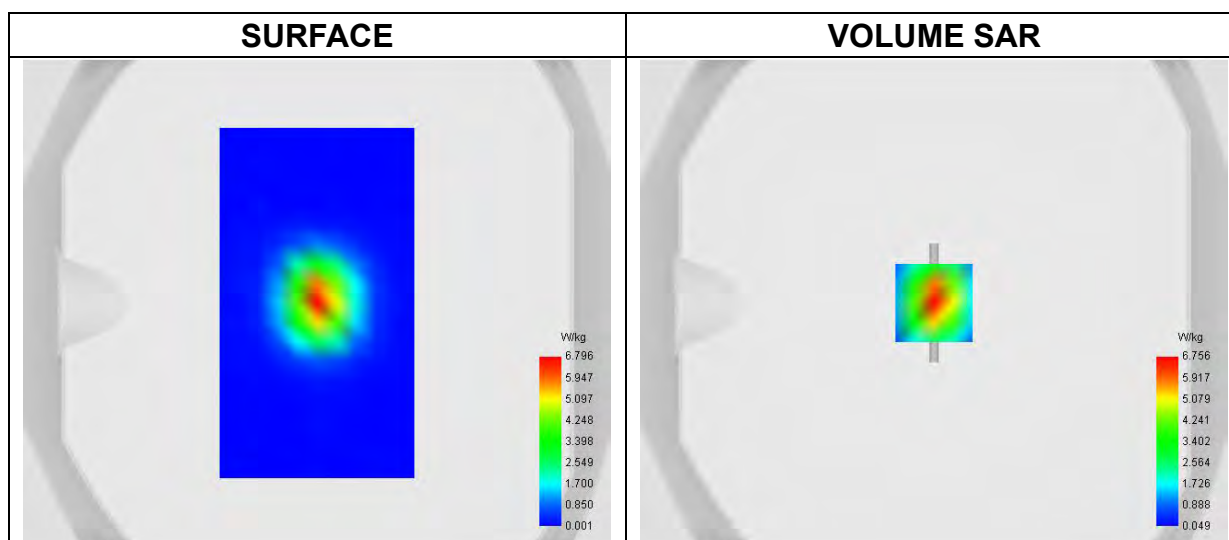
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.66
Conductivity (S/m)	1.94
Probe	SN 04/22 EPGO364
ConvF	2.37
Crest factor:	1:1

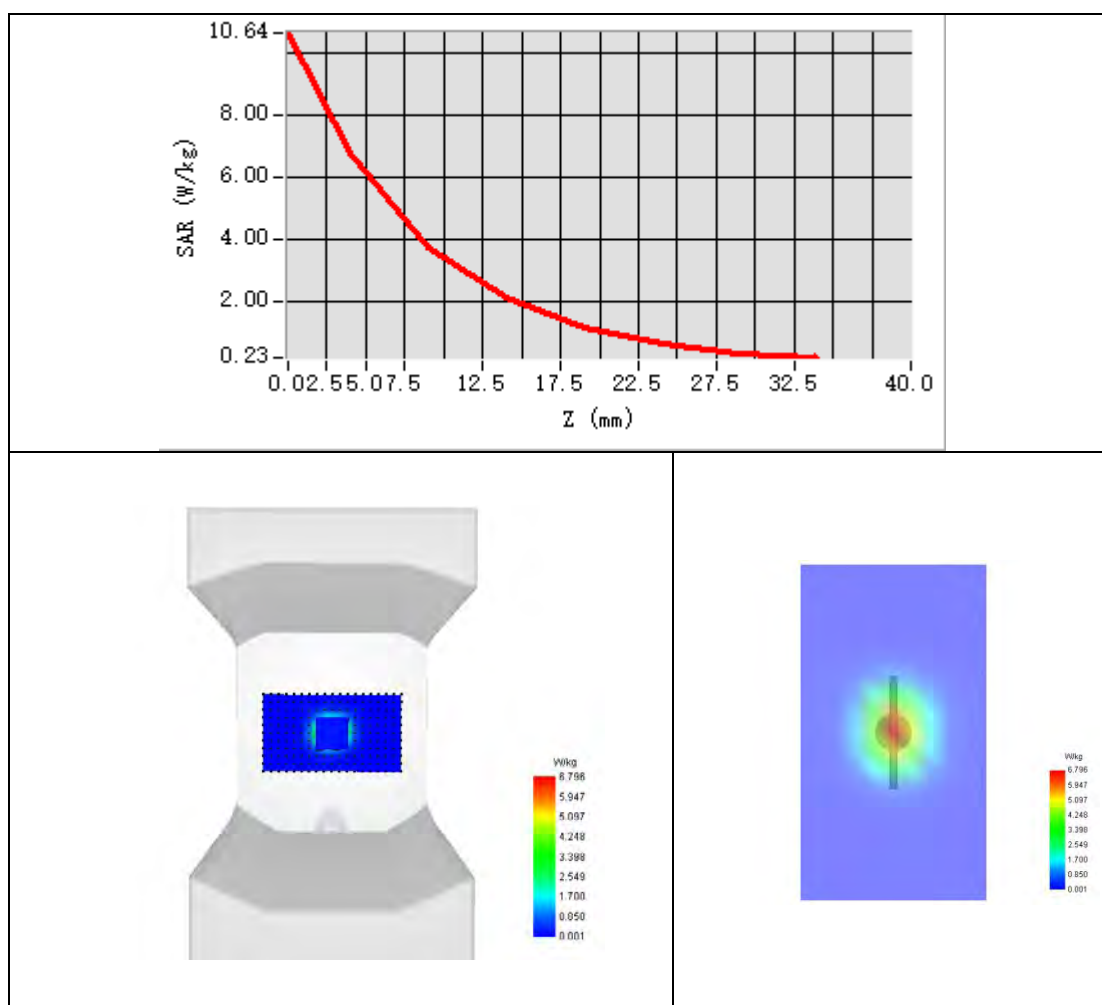


Maximum location: X=3.00, Y=3.00 ; SAR Peak: 9.58 W/kg

SAR 10g (W/Kg)	2.436
SAR 1g (W/Kg)	5.597



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

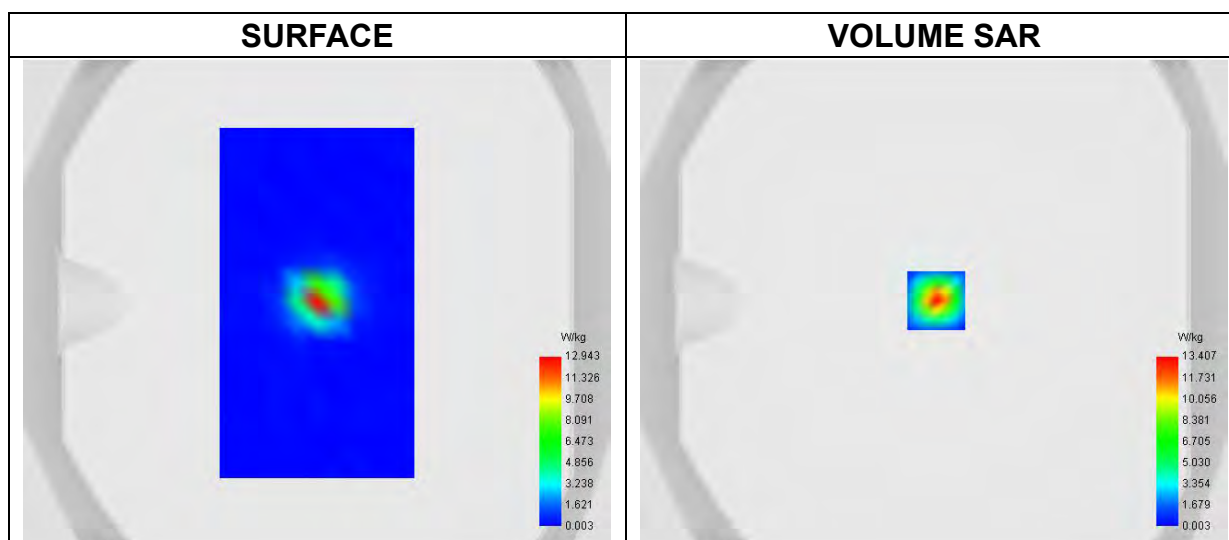
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.98
Conductivity (S/m)	4.61
Probe	SN 04/22 EPGO364
ConvF	1.99
Crest factor:	1:1

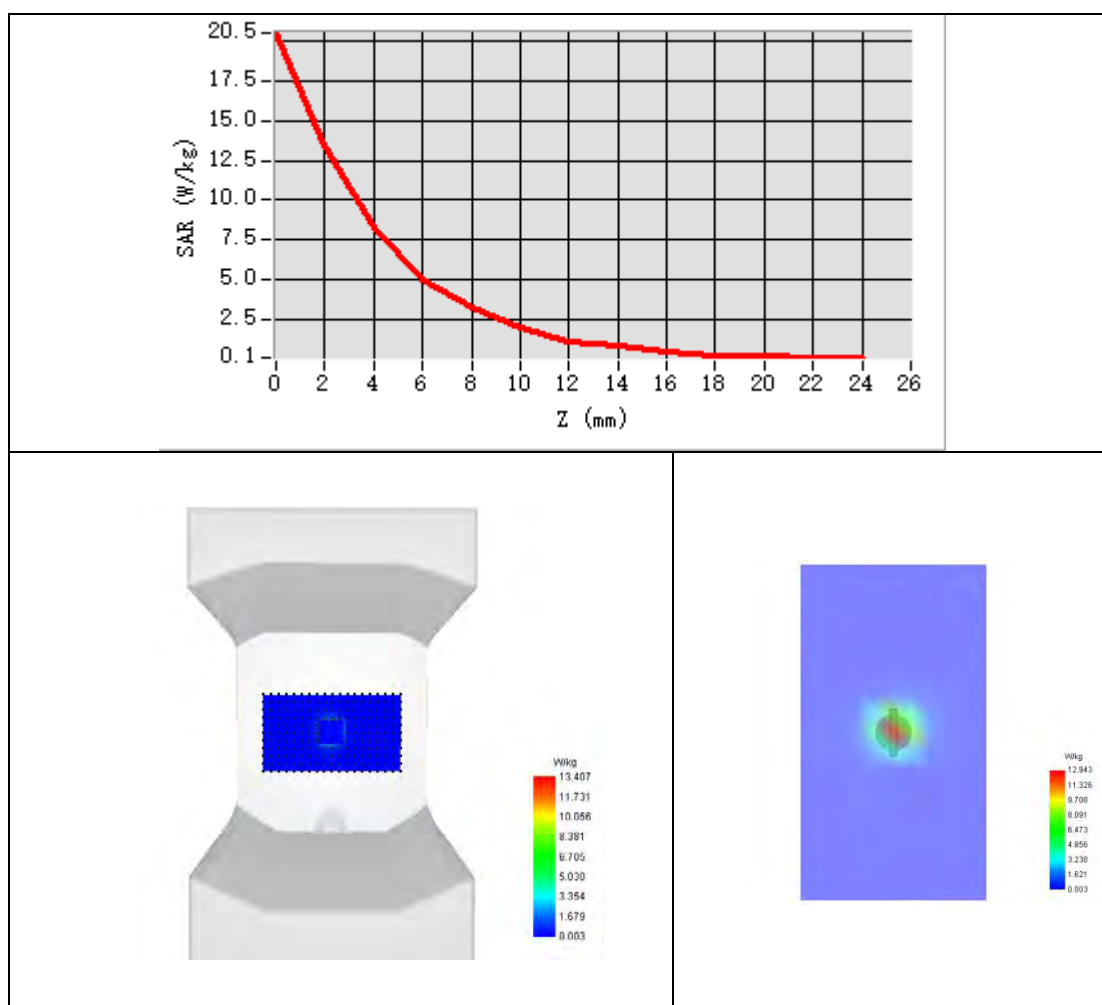


Maximum location: X=7.00, Y=6.00 ; SAR Peak: 20.68 W/kg

SAR 10g (W/Kg)	2.306
SAR 1g (W/Kg)	8.070



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

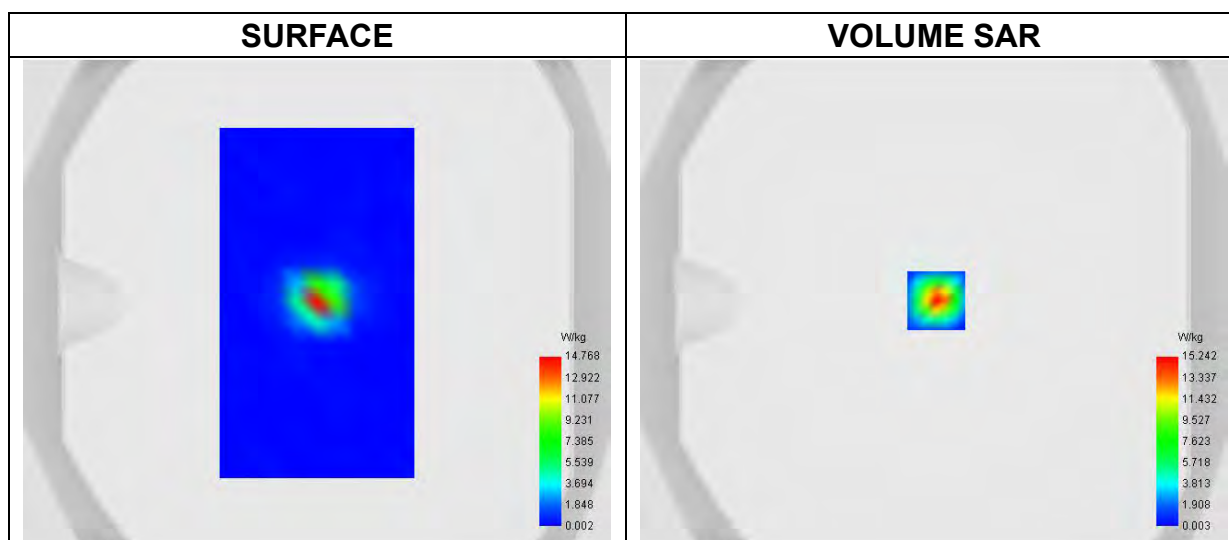
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.71
Conductivity (S/m)	4.80
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

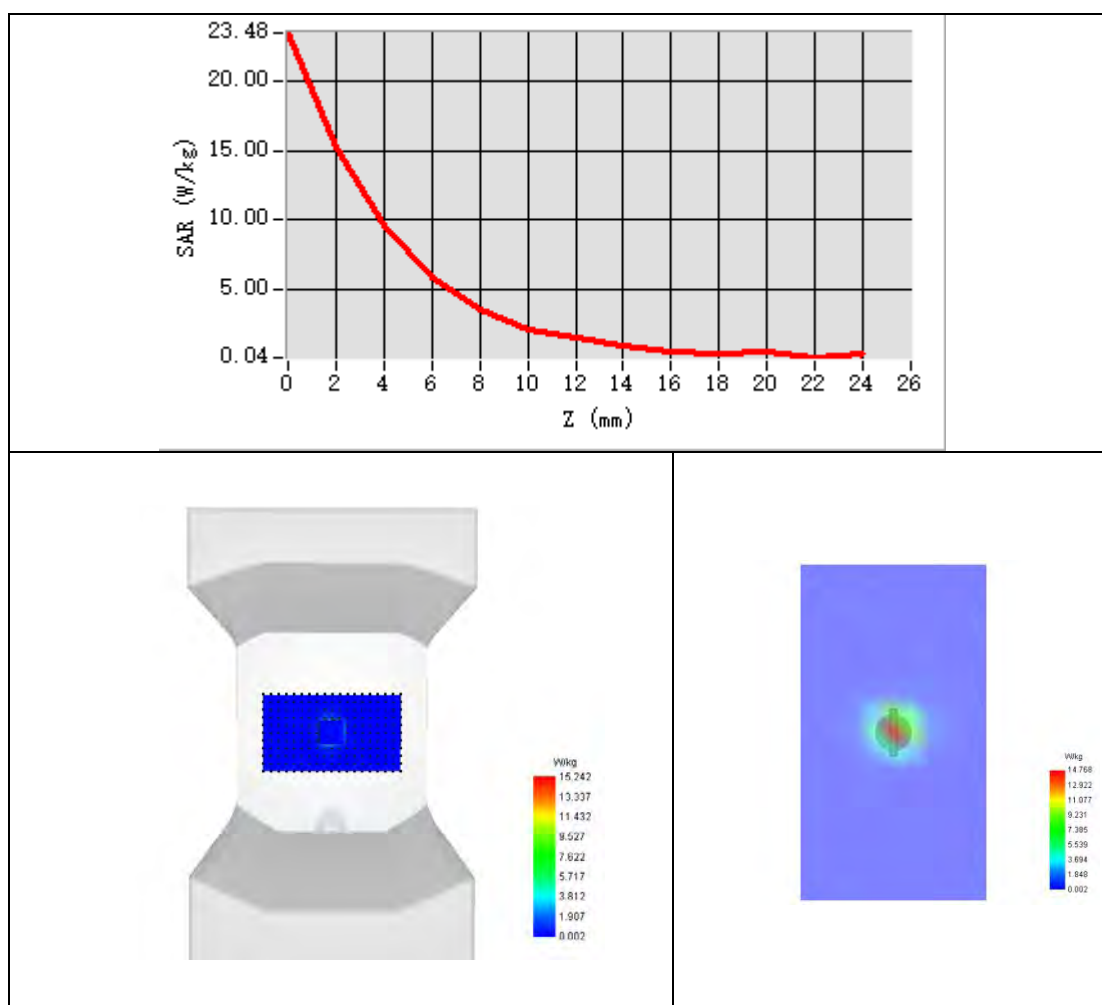


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 23.44 W/kg

SAR 10g (W/Kg)	2.405
SAR 1g (W/Kg)	8.558



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

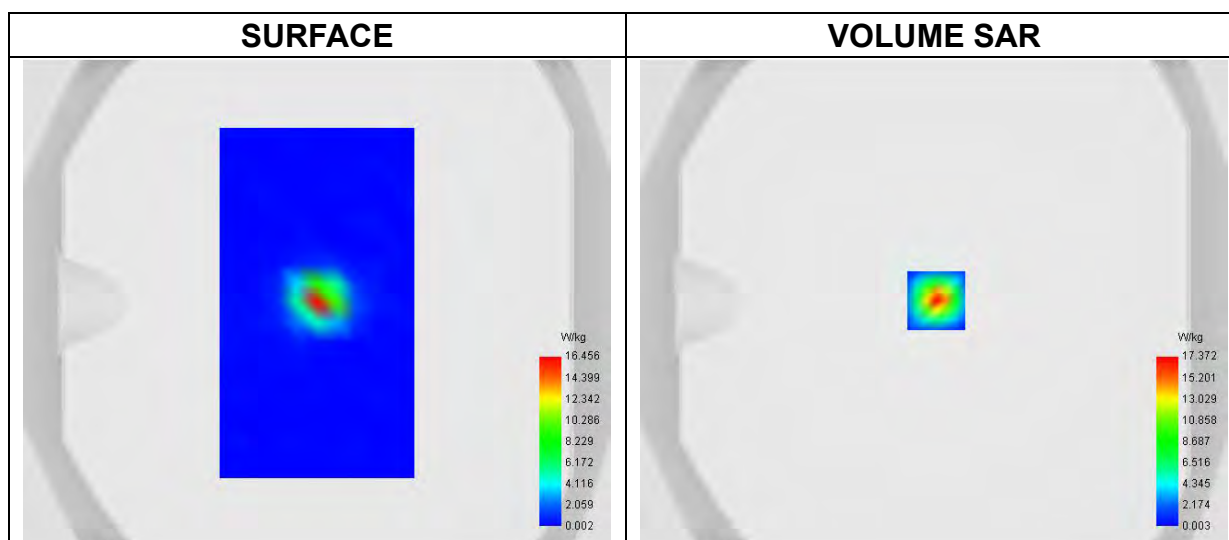
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.99
Conductivity (S/m)	5.07
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

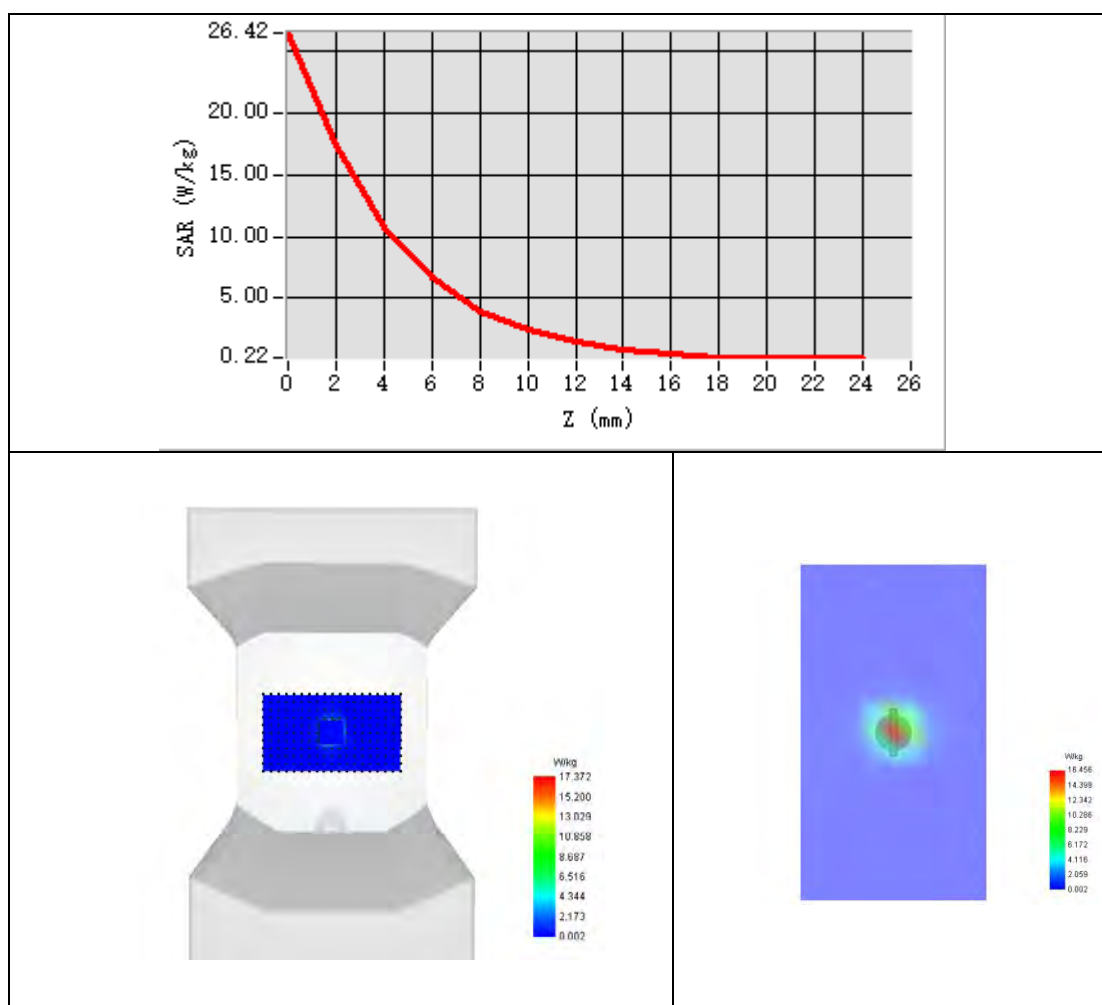


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 26.42 W/kg

SAR 10g (W/Kg)	2.343
SAR 1g (W/Kg)	8.189



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

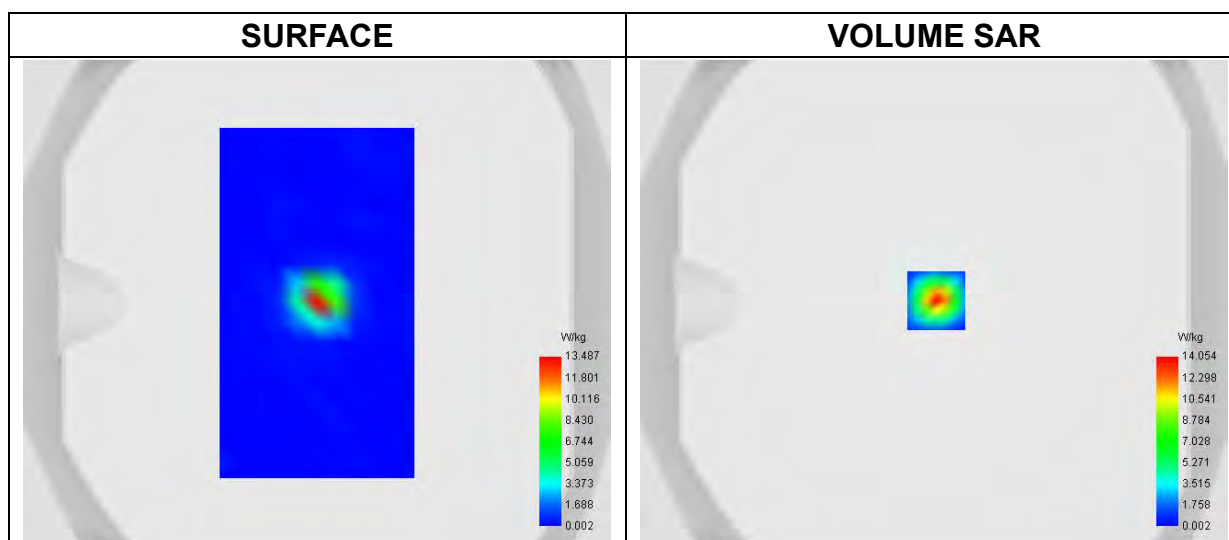
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-05-06

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.33
Conductivity (S/m)	5.24
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

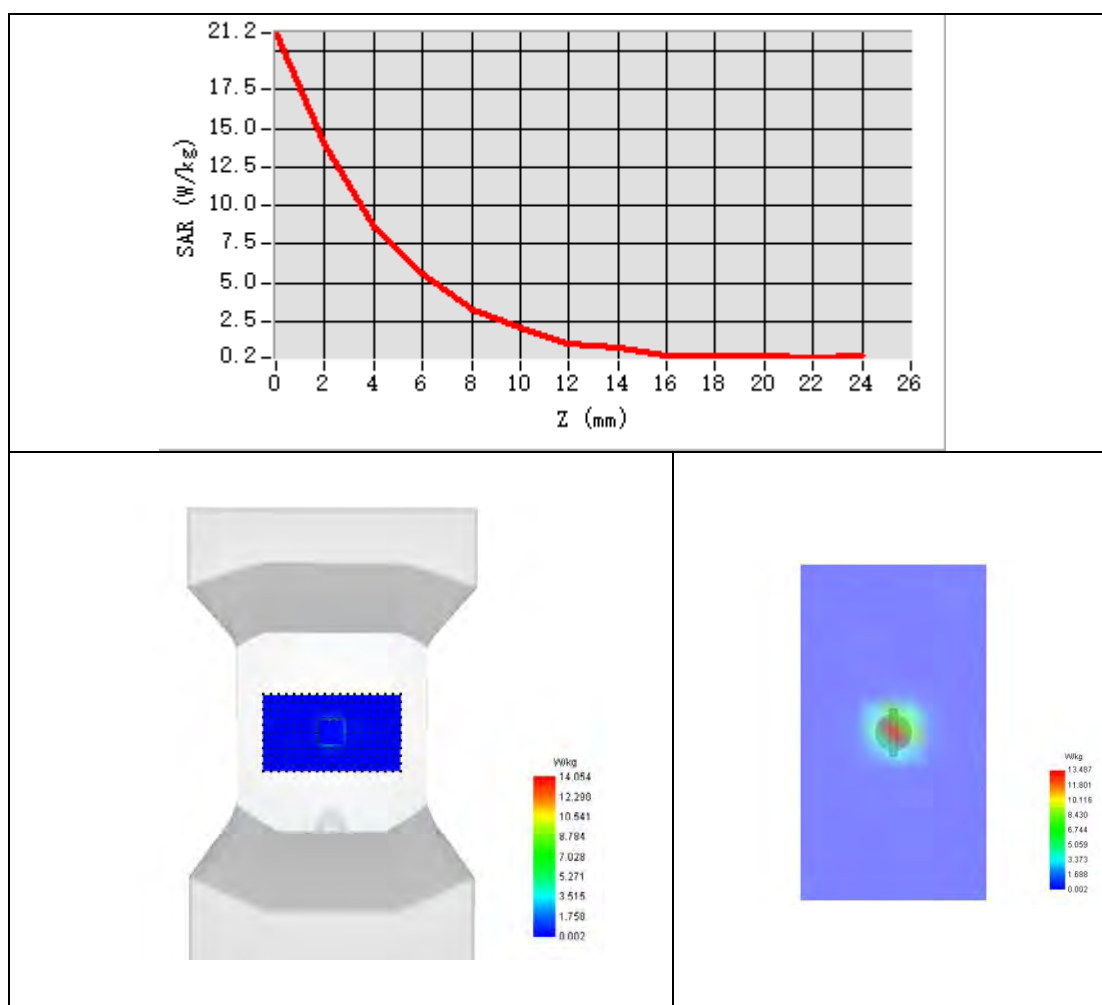


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 22.18 W/kg

SAR 10g (W/Kg)	2.382
SAR 1g (W/Kg)	8.018



Z Axis Scan



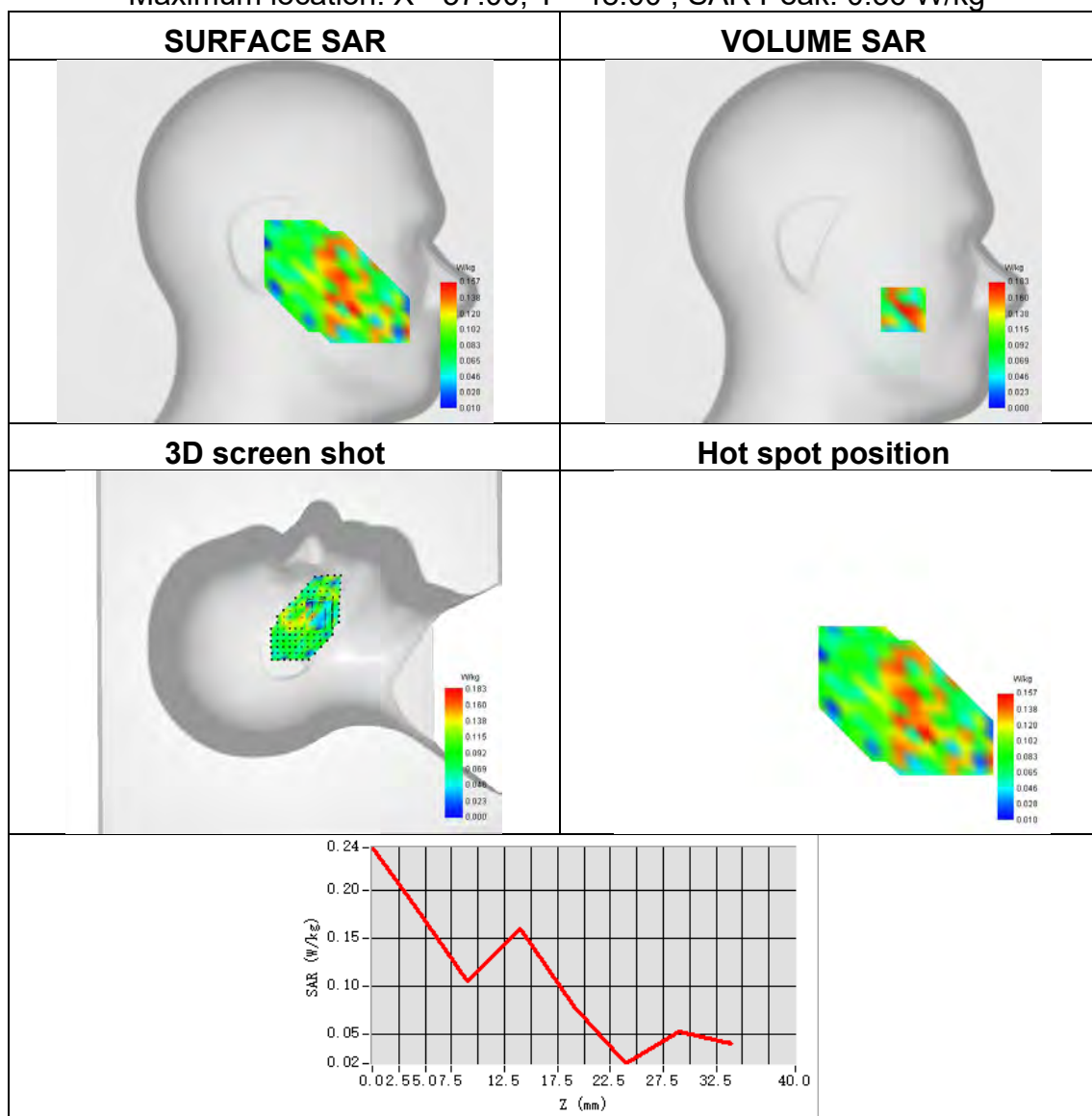


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-04-29
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 (GSM)
Frequency	836.6
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.188
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

Maximum location: X=-57.00, Y=-48.00 ; SAR Peak: 0.36 W/kg

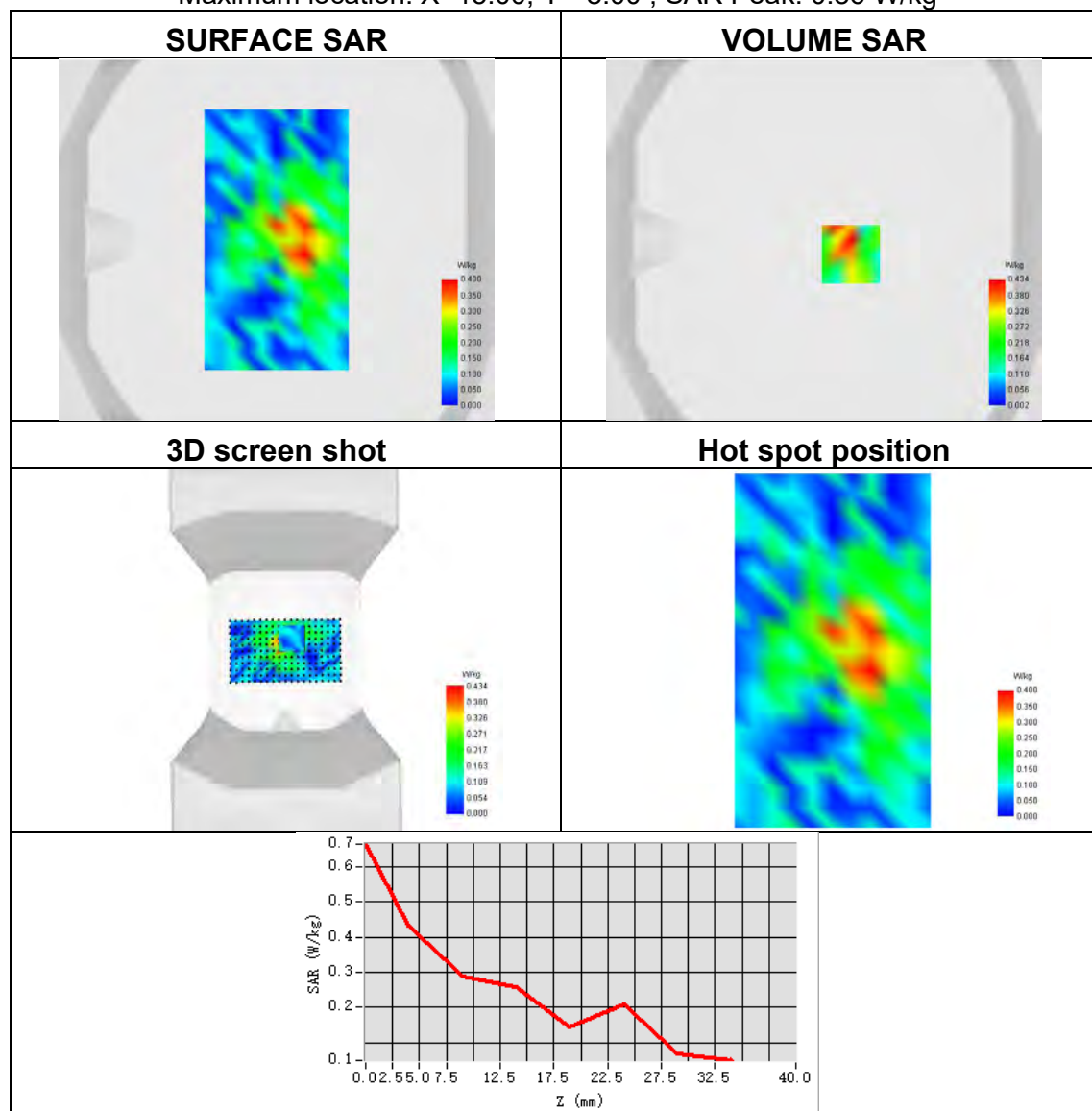




Plot 2:

Test Date	2025-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.222
SAR 1g (W/Kg)	0.423
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

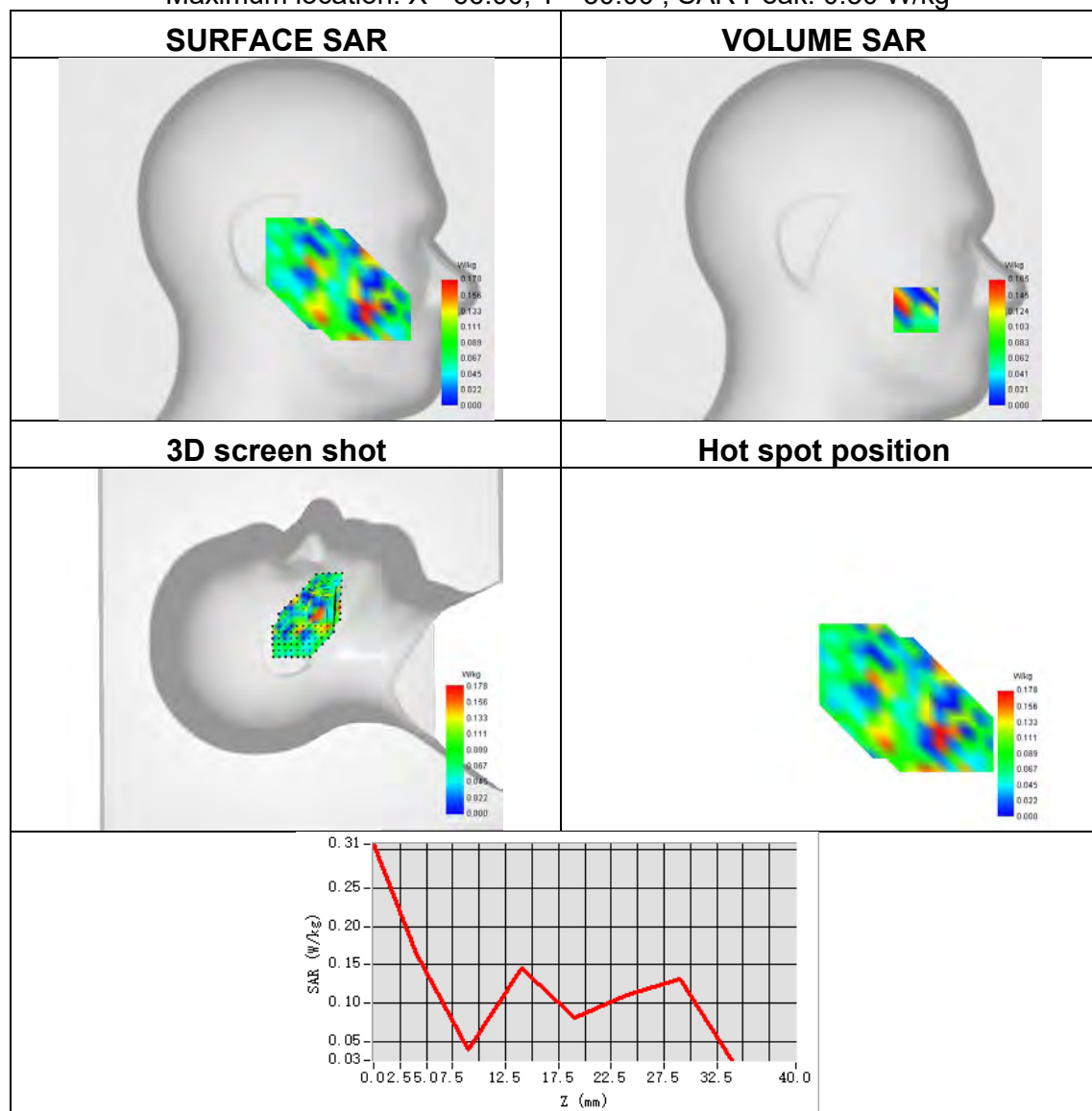
Maximum location: X=15.00, Y=-8.00 ; SAR Peak: 0.86 W/kg



Plot 3:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM1900
Signal	TDMA (GSM)
Frequency	1880
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.181
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

Maximum location: X=-66.00, Y=-50.00 ; SAR Peak: 0.50 W/kg

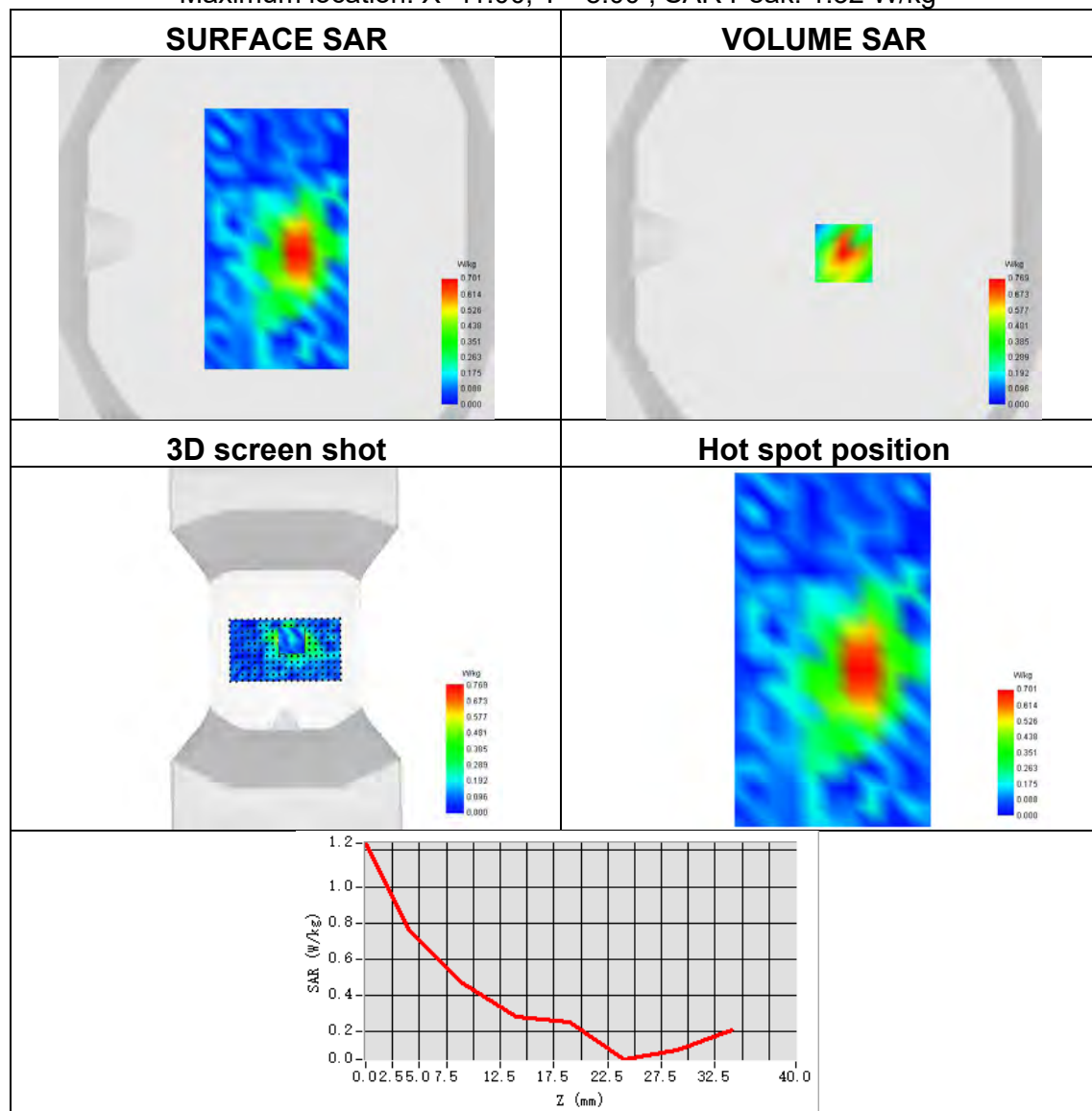




Plot 4:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1880
SAR 10g (W/Kg)	0.377
SAR 1g (W/Kg)	0.727
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

Maximum location: X=11.00, Y=-8.00 ; SAR Peak: 1.32 W/kg

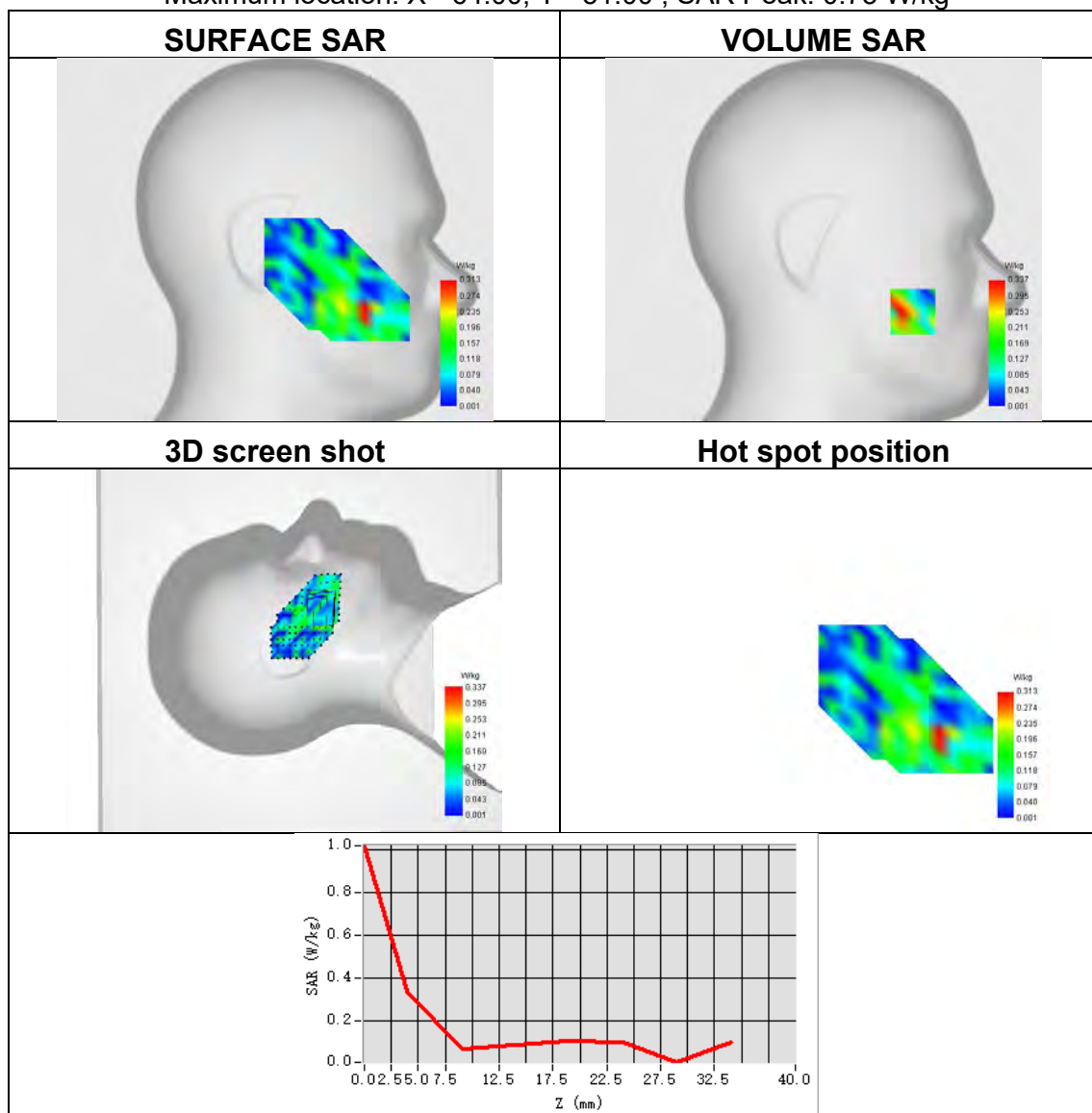




Plot 5:

Test Date	2025-04-30
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)	0.165
SAR 1g (W/Kg)	0.327
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

Maximum location: X=-64.00, Y=-51.00 ; SAR Peak: 0.75 W/kg

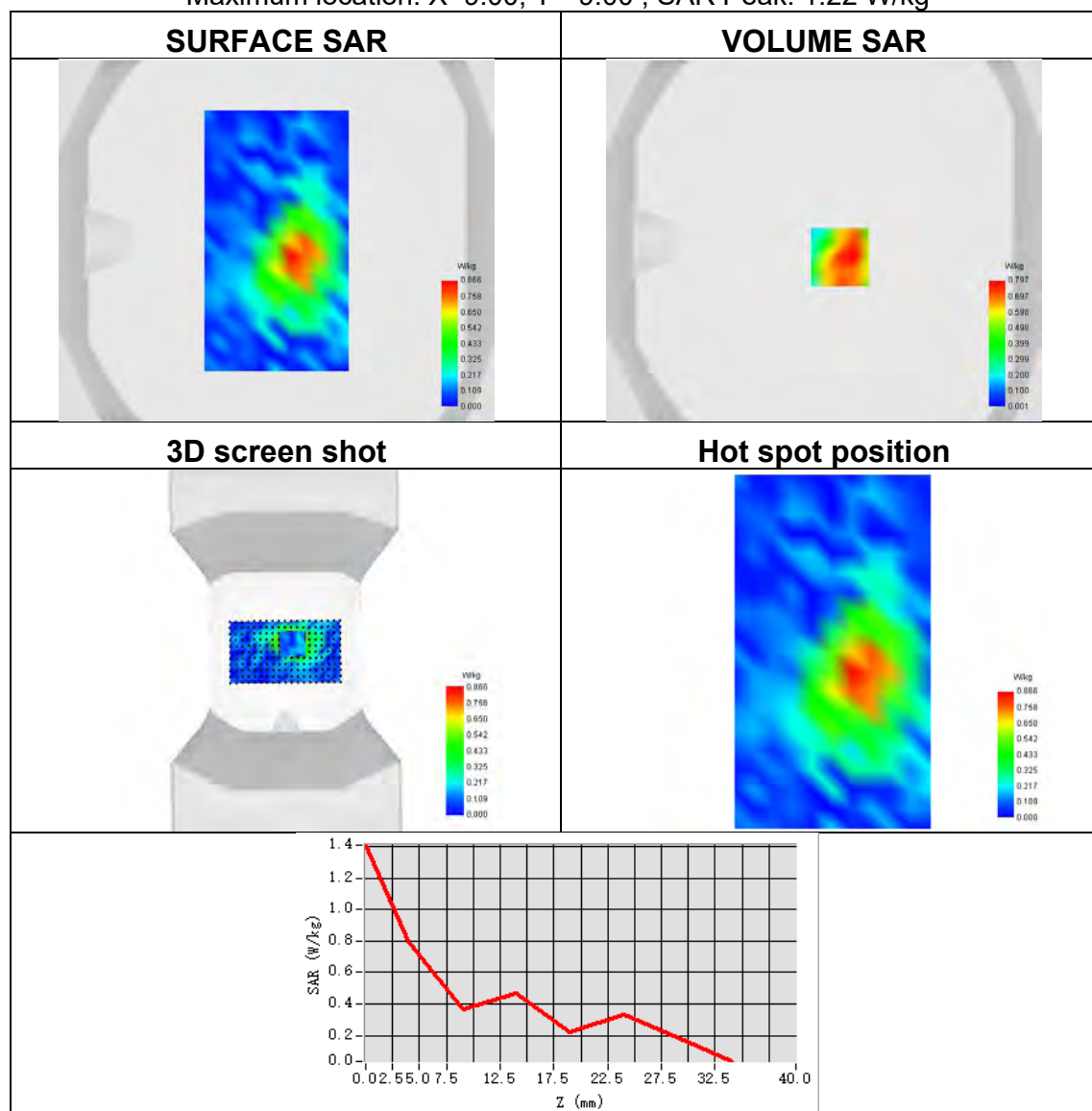




Plot 6:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1852.4
SAR 10g (W/Kg)	0.430
SAR 1g (W/Kg)	0.696
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

Maximum location: X=9.00, Y=-9.00 ; SAR Peak: 1.22 W/kg

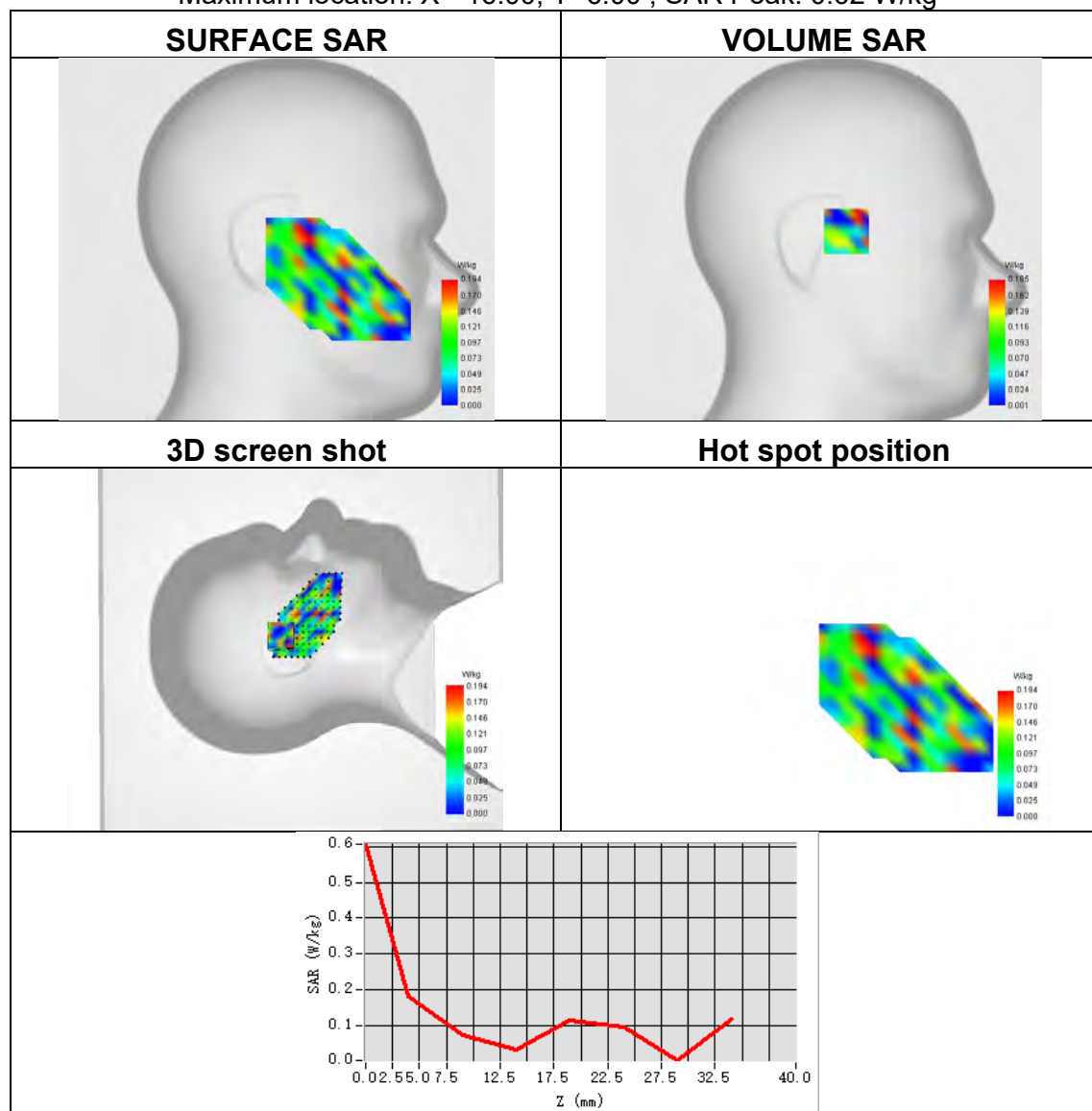




Plot 7:

Test Date	2025-05-03
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)	0.075
SAR 1g (W/Kg)	0.172
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

Maximum location: X=-16.00, Y=6.00 ; SAR Peak: 0.62 W/kg

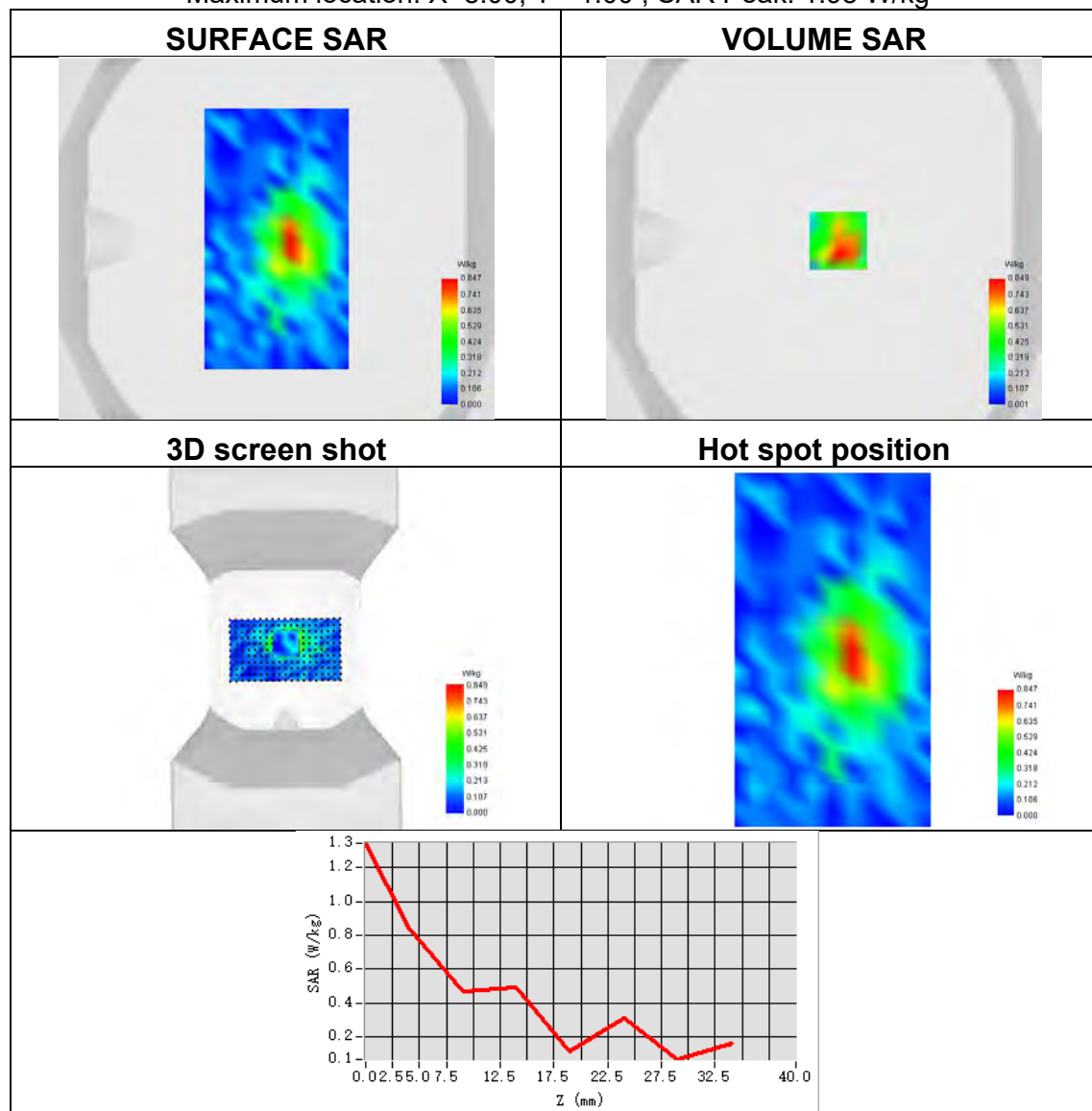




Plot 8:

Test Date	2025-05-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1712.6
SAR 10g (W/Kg)	0.437
SAR 1g (W/Kg)	0.899
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

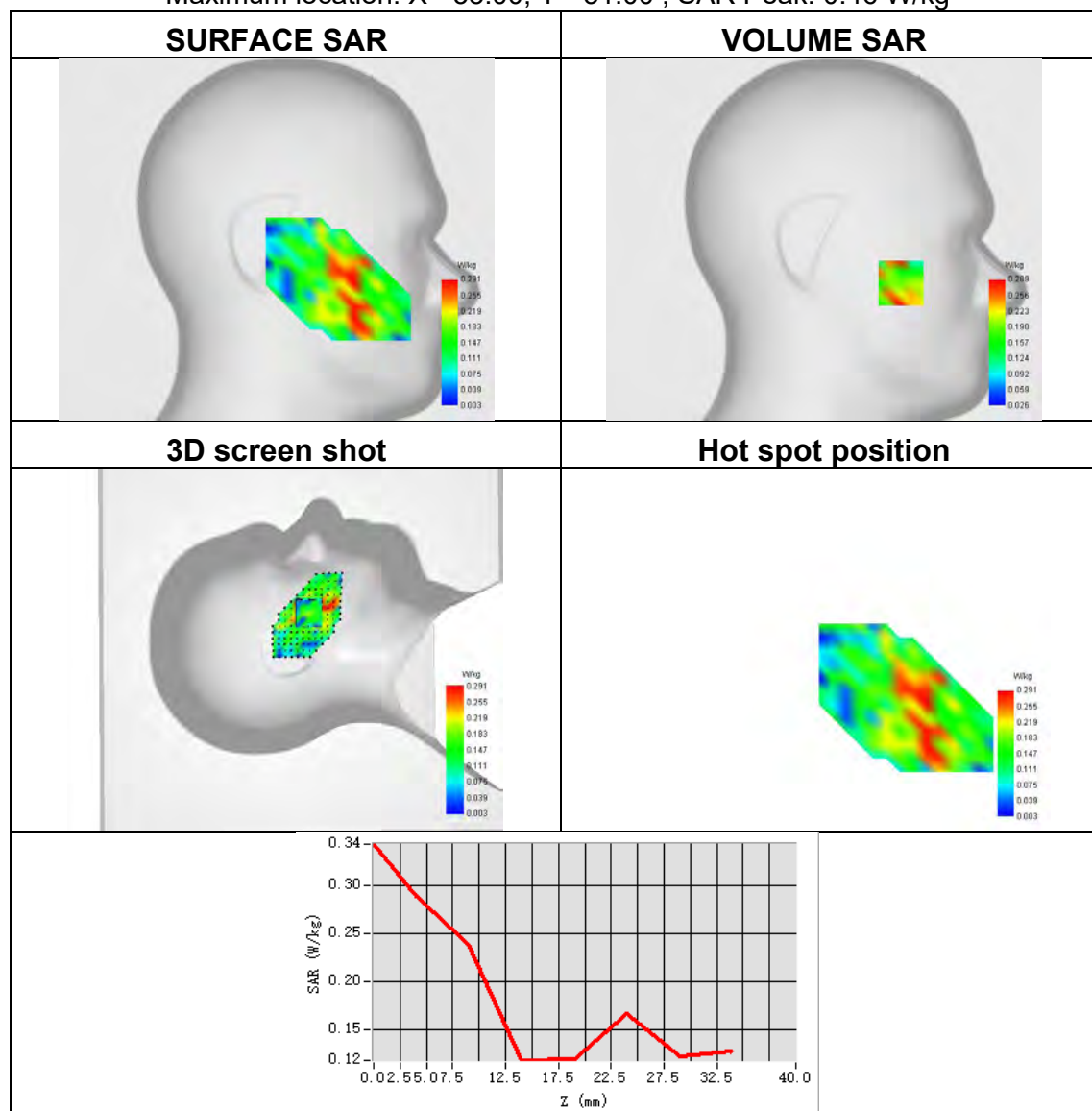
Maximum location: X=8.00, Y=-1.00 ; SAR Peak: 1.98 W/kg



Plot 9:

Test Date	2025-04-29
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)	0.177
SAR 1g (W/Kg)	0.248
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

Maximum location: X=-55.00, Y=-31.00 ; SAR Peak: 0.46 W/kg

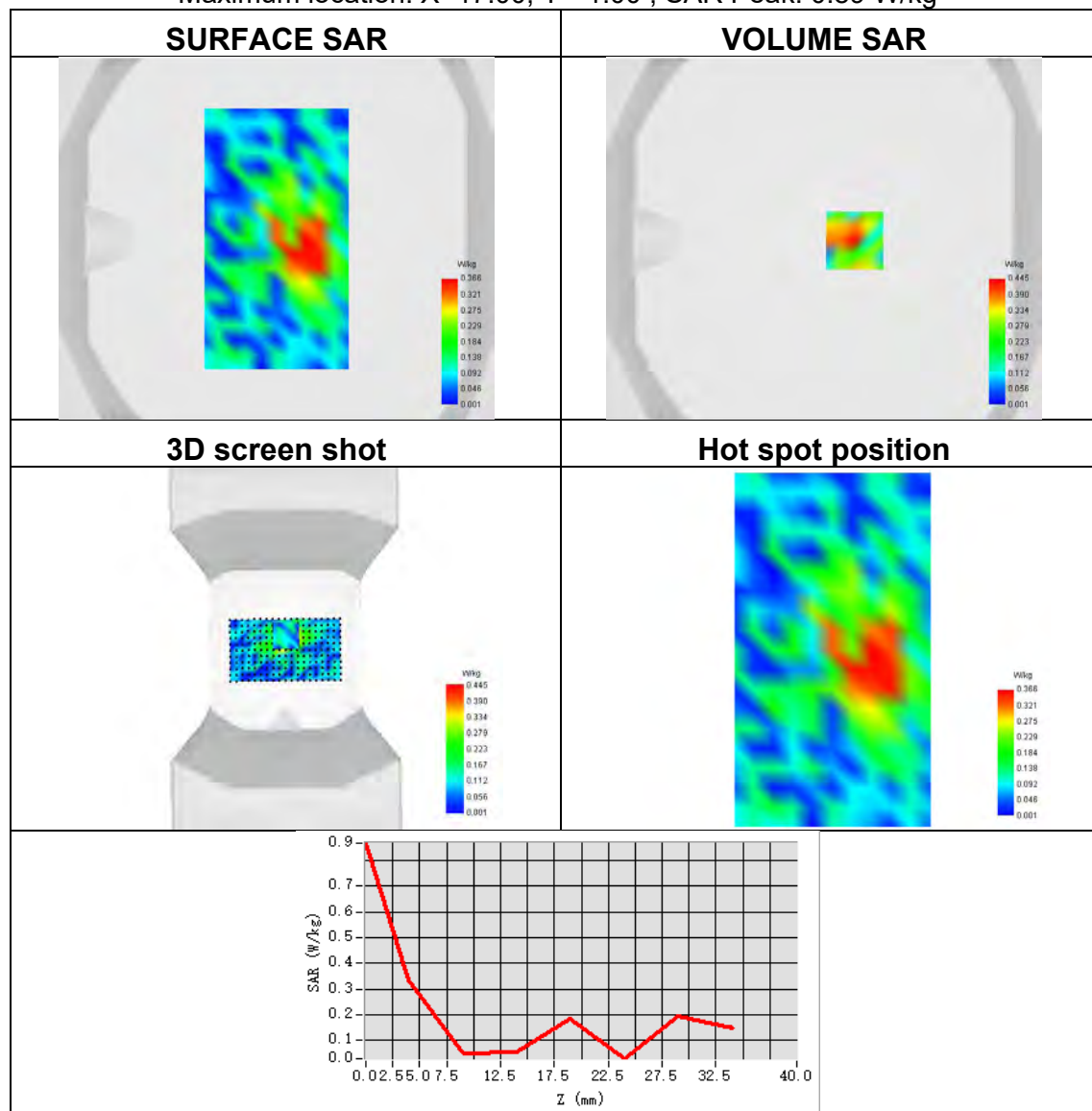




Plot 10:

Test Date	2025-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.181
SAR 1g (W/Kg)	0.256
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

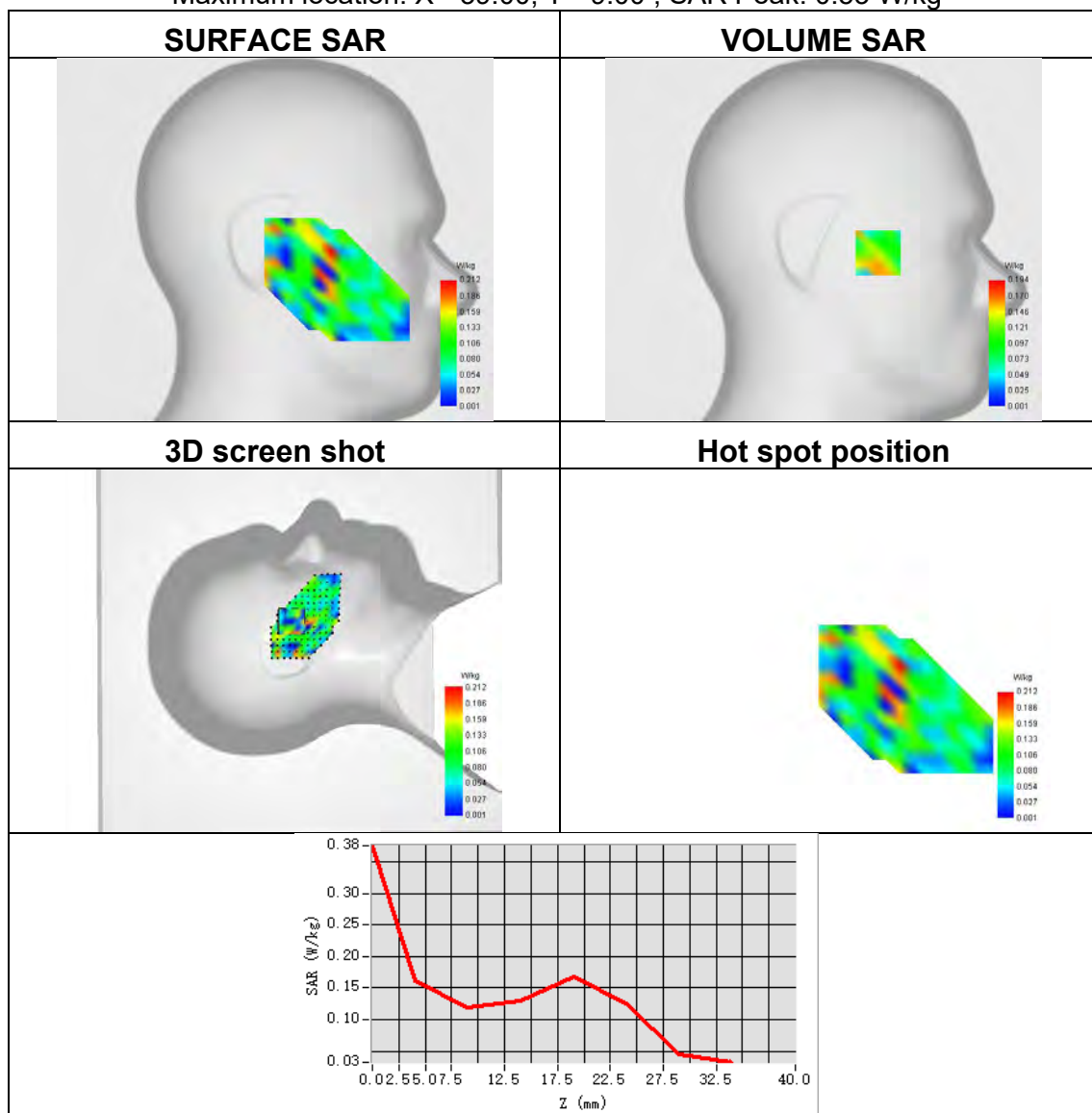
Maximum location: X=17.00, Y=-1.00 ; SAR Peak: 0.89 W/kg



Plot 11:

Test Date	2025-05-04
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)	0.101
SAR 1g (W/Kg)	0.230
ConvF	2.33
Relative permittivity	39.99
Conductivity (S/m)	1.81

Maximum location: X=-39.00, Y=-9.00 ; SAR Peak: 0.53 W/kg

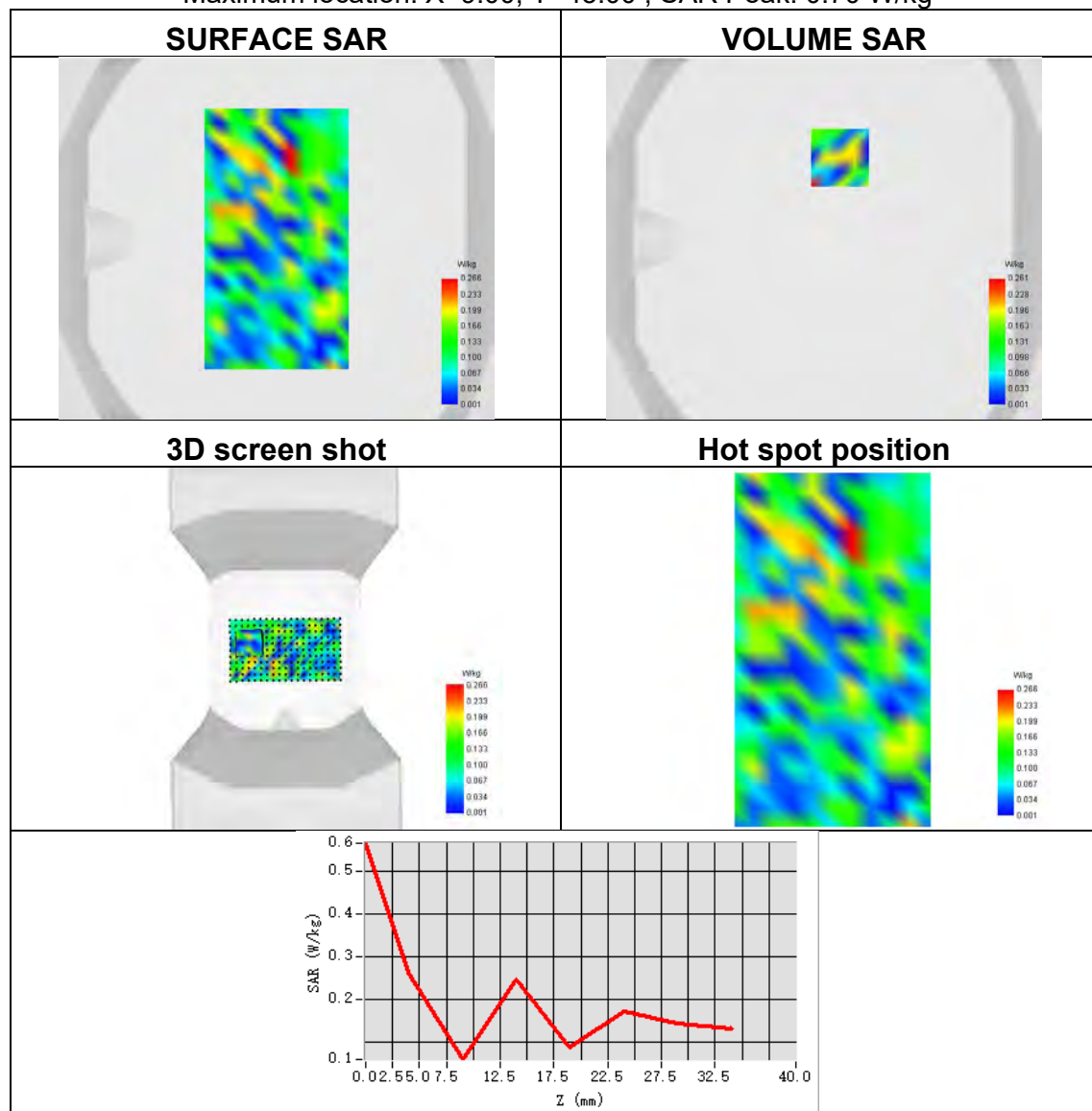




Plot 12:

Test Date	2025-05-04
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)	0.091
SAR 1g (W/Kg)	0.170
ConvF	2.33
Relative permittivity	39.99
Conductivity (S/m)	1.81

Maximum location: X=9.00, Y=45.00 ; SAR Peak: 0.70 W/kg

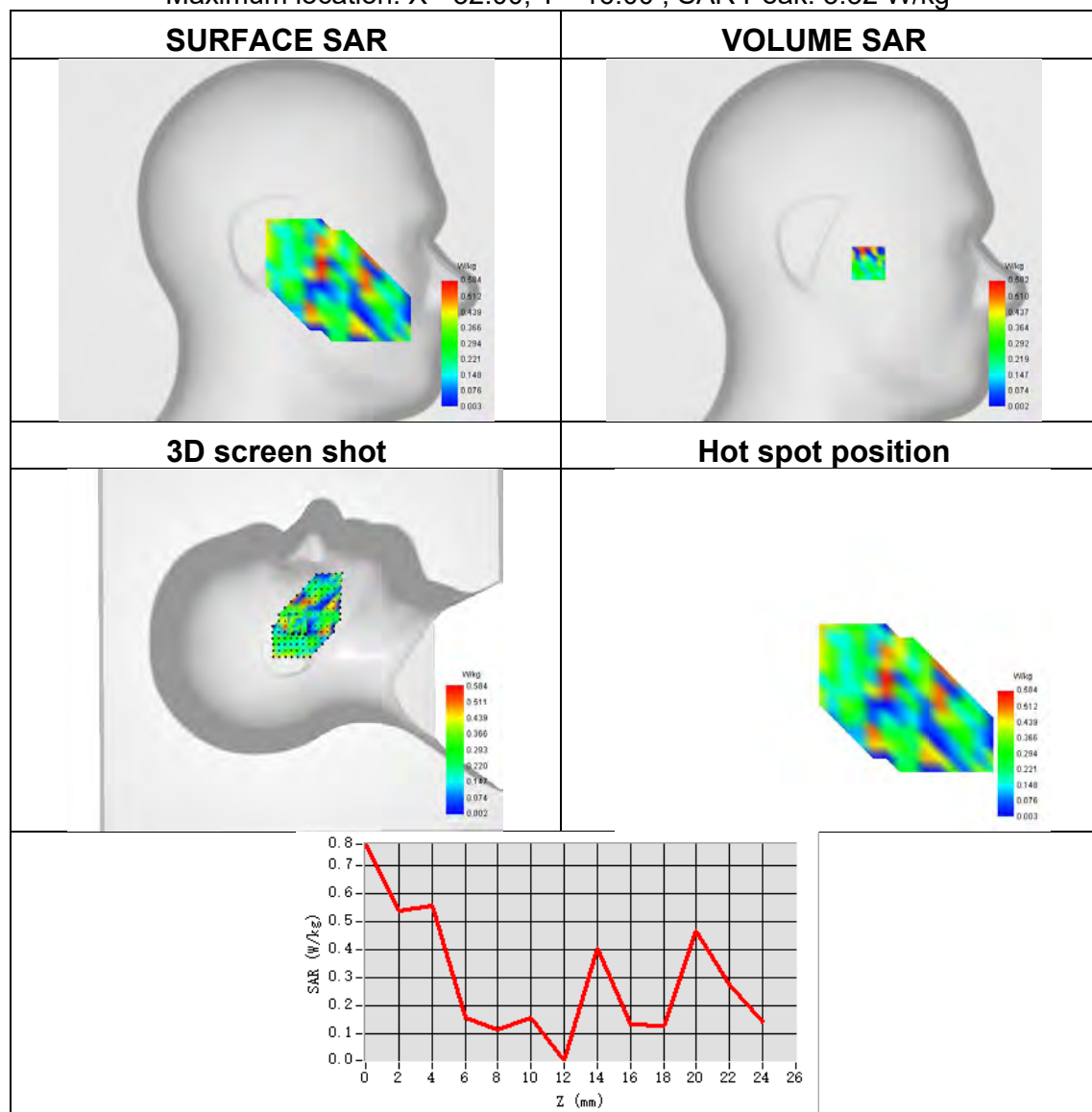




Plot 13:

Test Date	2025-05-05
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)	0.178
SAR 1g (W/Kg)	0.354
ConvF	1.99
Relative permittivity	36.98
Conductivity (S/m)	4.61

Maximum location: X=-32.00, Y=-16.00 ; SAR Peak: 3.32 W/kg

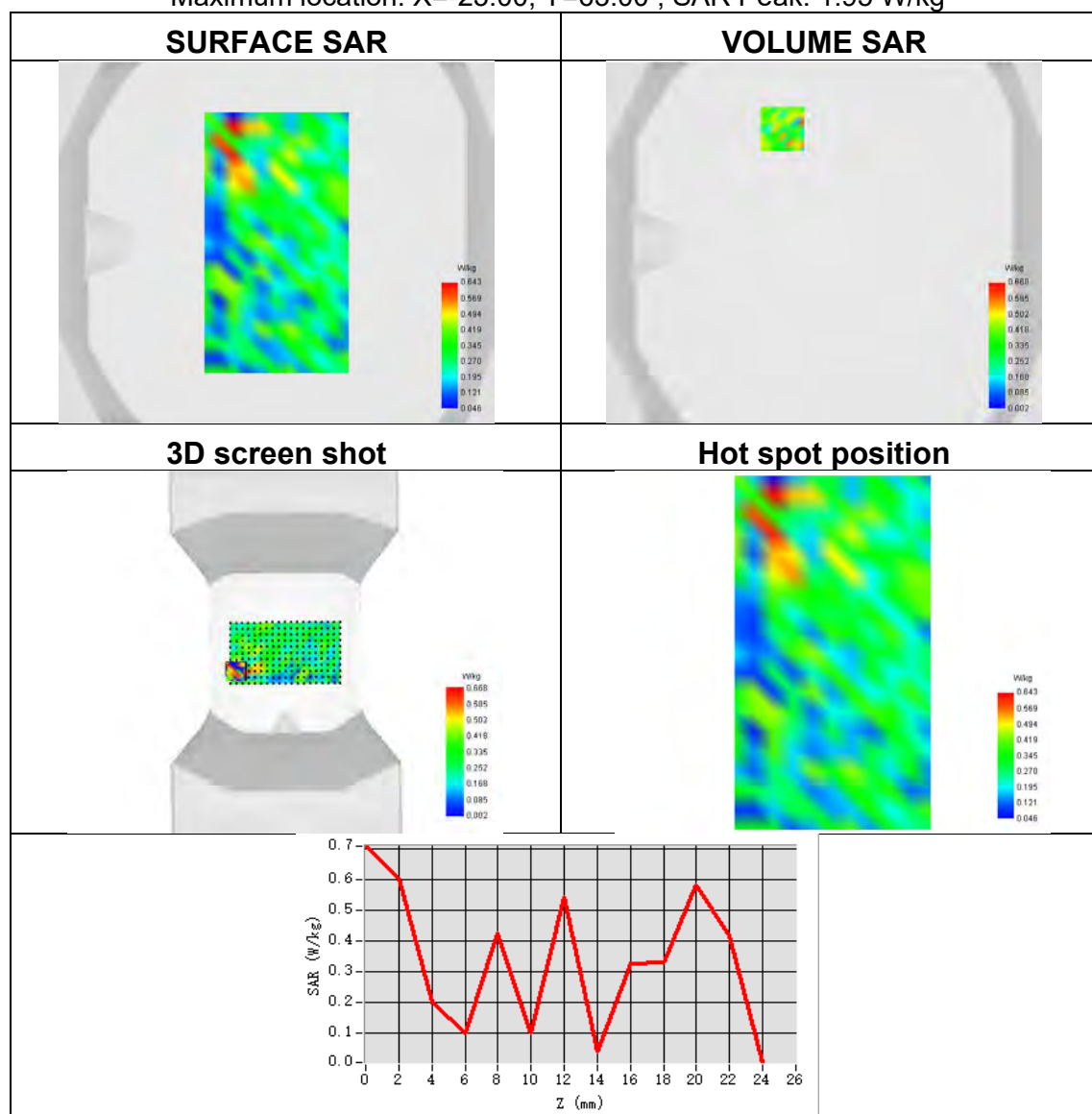




Plot 14:

Test Date	2025-05-05
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)	0.261
SAR 1g (W/Kg)	0.447
ConvF	1.99
Relative permittivity	36.98
Conductivity (S/m)	4.61

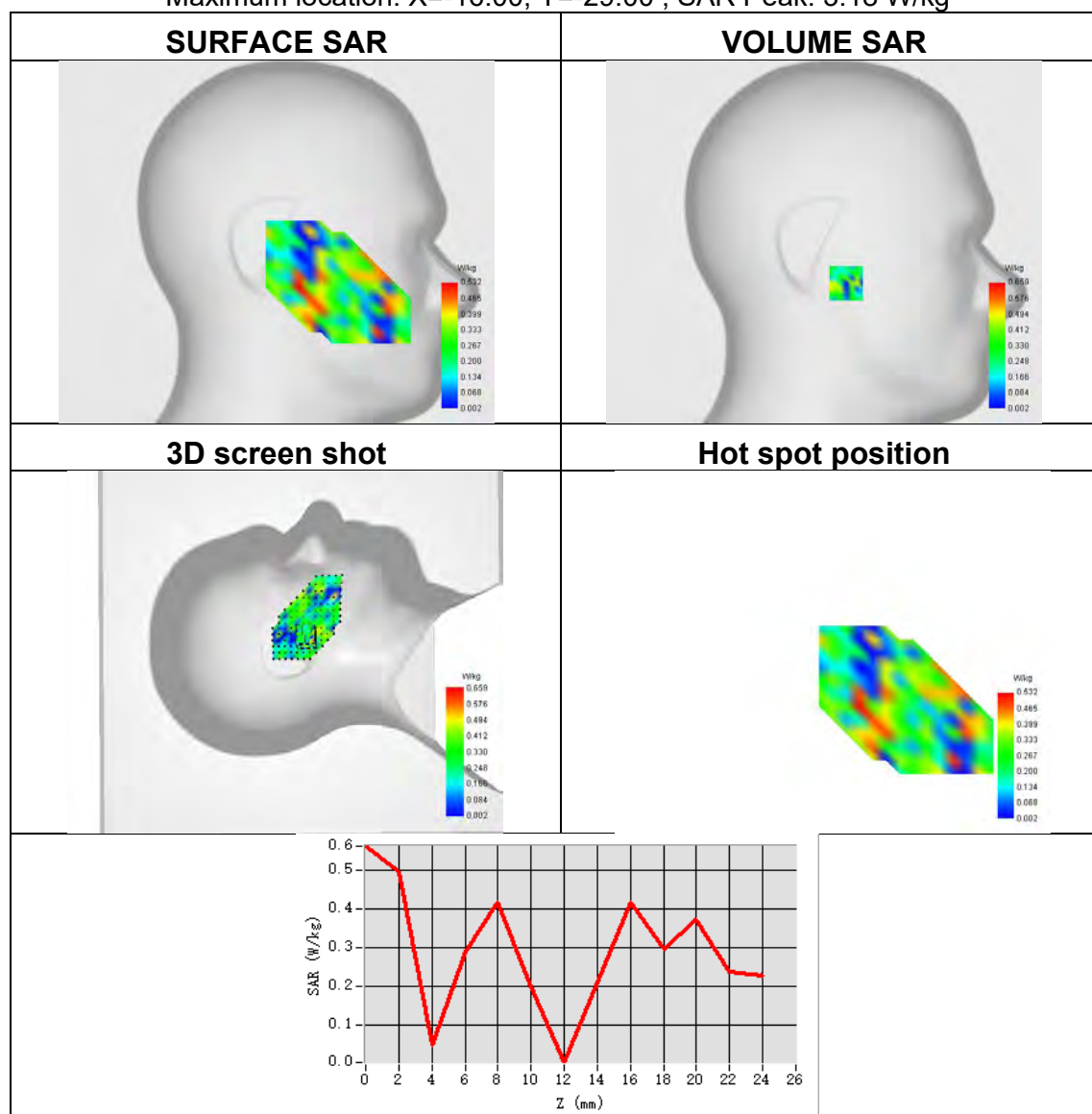
Maximum location: X=-23.00, Y=63.00 ; SAR Peak: 1.95 W/kg



Plot 15:

Test Date	2025-05-04
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	5310
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.401
ConvF	1.87
Relative permittivity	36.71
Conductivity (S/m)	4.80

Maximum location: X=-16.00, Y=-29.00 ; SAR Peak: 3.18 W/kg

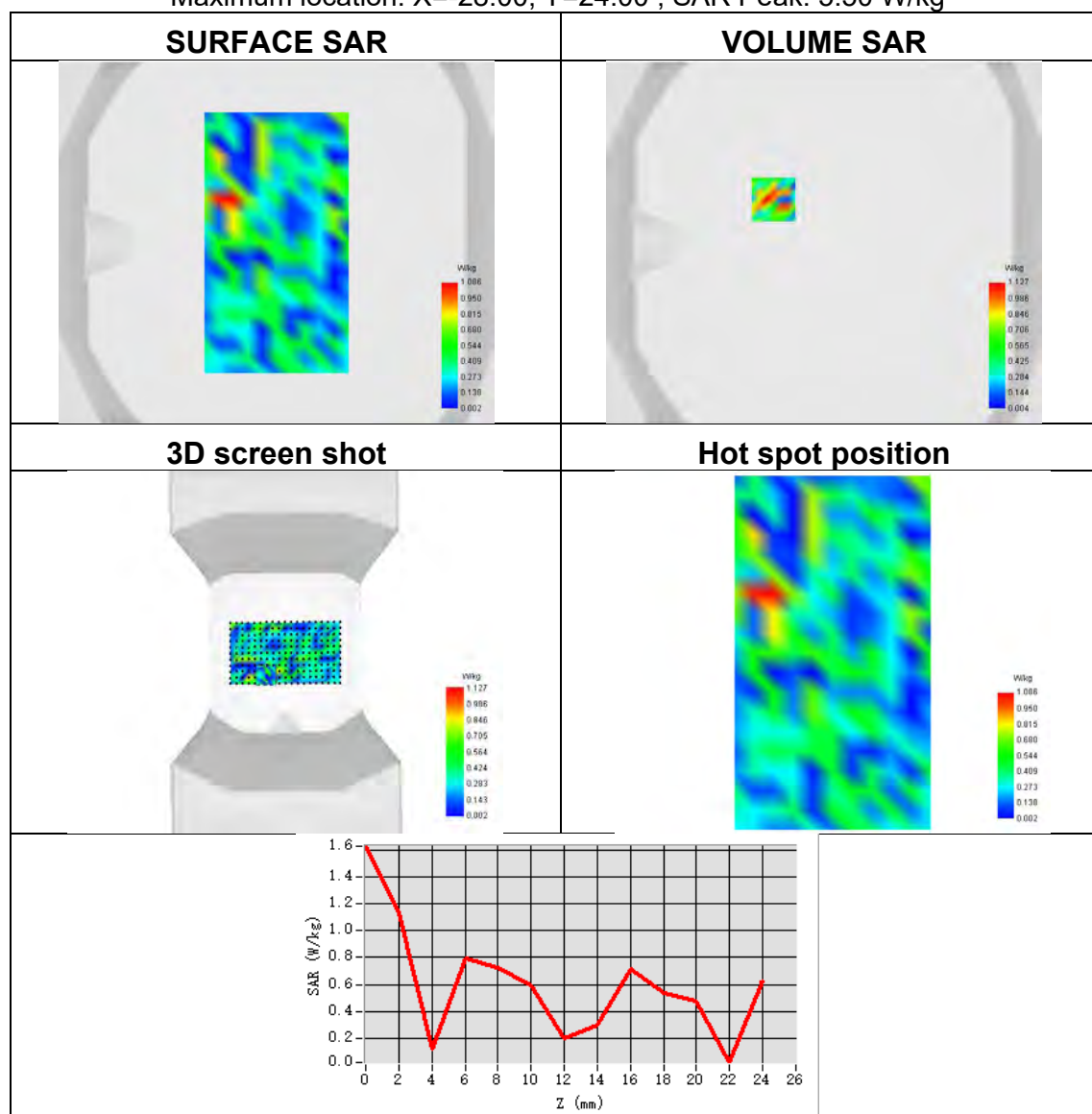




Plot 16:

Test Date	2025-05-04
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	5310
SAR 10g (W/Kg)	0.326
SAR 1g (W/Kg)	0.823
ConvF	1.87
Relative permittivity	36.71
Conductivity (S/m)	4.80

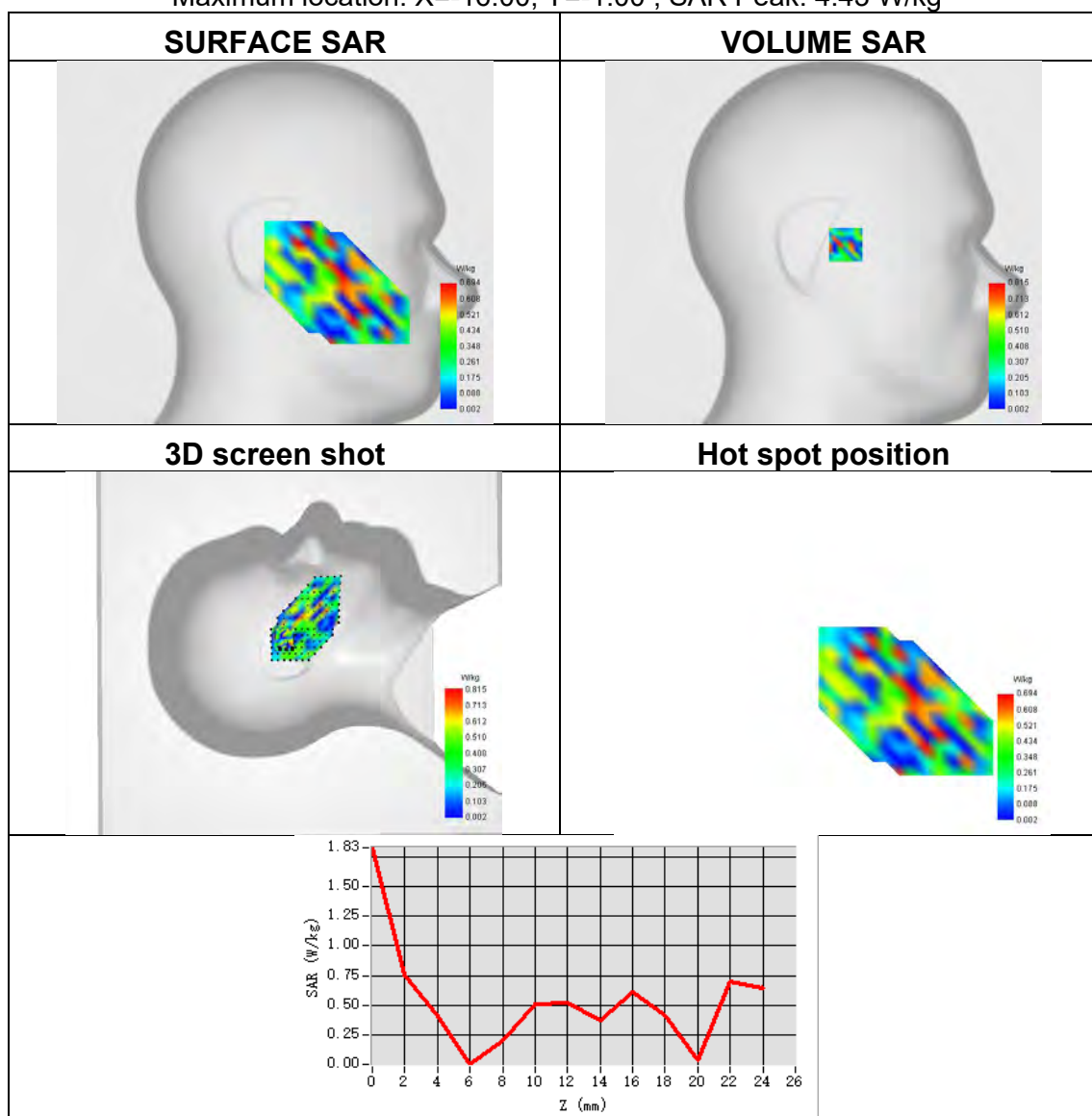
Maximum location: X=-28.00, Y=24.00 ; SAR Peak: 5.50 W/kg



Plot 17:

Test Date	2025-05-05
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 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.194
SAR 1g (W/Kg)	0.283
ConvF	1.87
Relative permittivity	35.99
Conductivity (S/m)	5.07

Maximum location: X=-16.00, Y=-1.00 ; SAR Peak: 4.43 W/kg

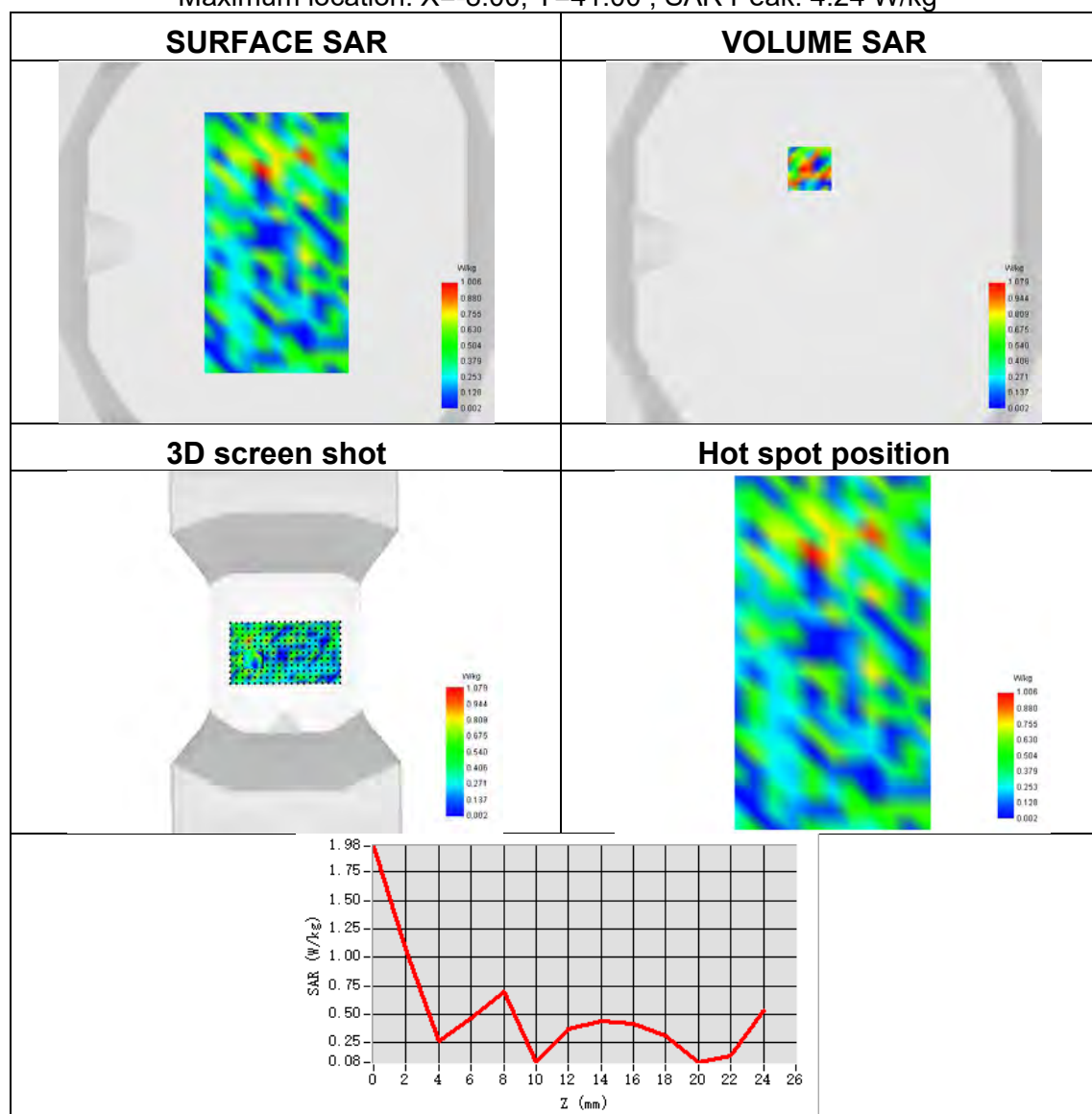




Plot 18:

Test Date	2025-05-05
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 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.704
ConvF	1.87
Relative permittivity	35.99
Conductivity (S/m)	5.07

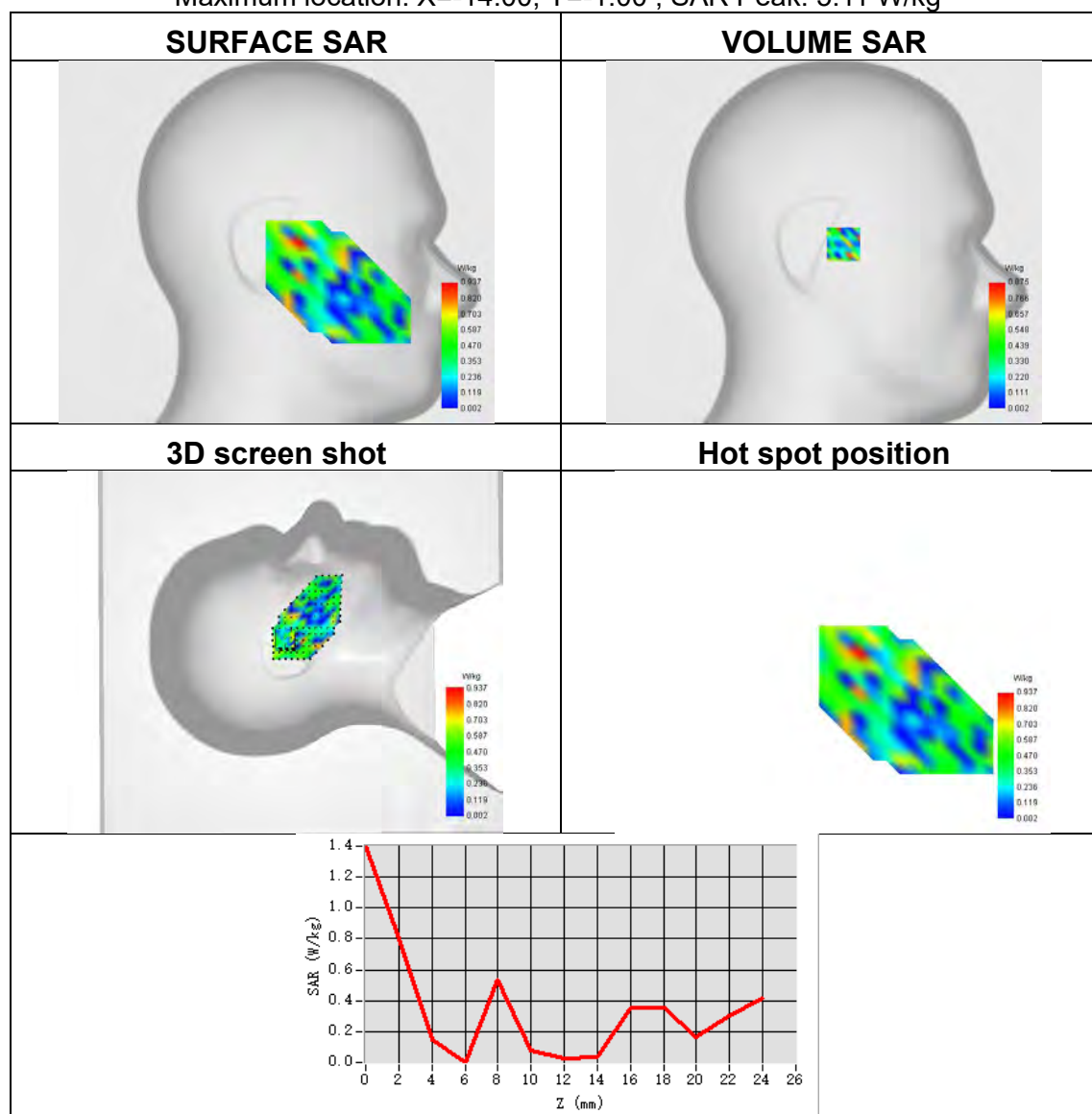
Maximum location: X=-8.00, Y=41.00 ; SAR Peak: 4.24 W/kg



Plot 19:

Test Date	2025-05-06
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 802.11n-HT40
Frequency	5795
SAR 10g (W/Kg)	0.225
SAR 1g (W/Kg)	0.301
ConvF	1.70
Relative permittivity	36.33
Conductivity (S/m)	5.24

Maximum location: X=-14.00, Y=-1.00 ; SAR Peak: 5.11 W/kg

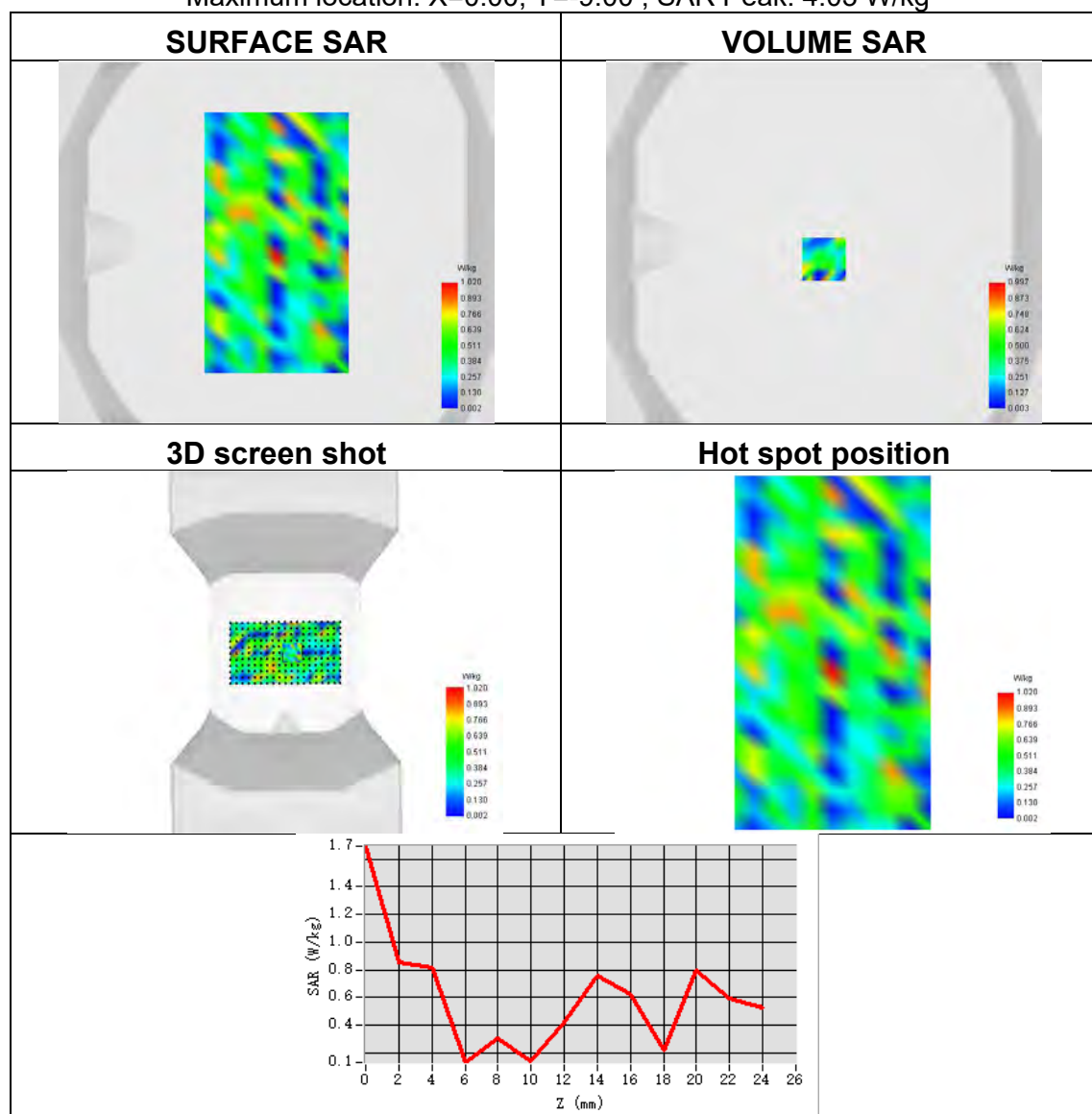




Plot 20:

Test Date	2025-05-06
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 802.11n-HT40
Frequency	5795
SAR 10g (W/Kg)	0.275
SAR 1g (W/Kg)	0.517
ConvF	1.70
Relative permittivity	36.33
Conductivity (S/m)	5.24

Maximum location: X=0.00, Y=-9.00 ; SAR Peak: 4.03 W/kg

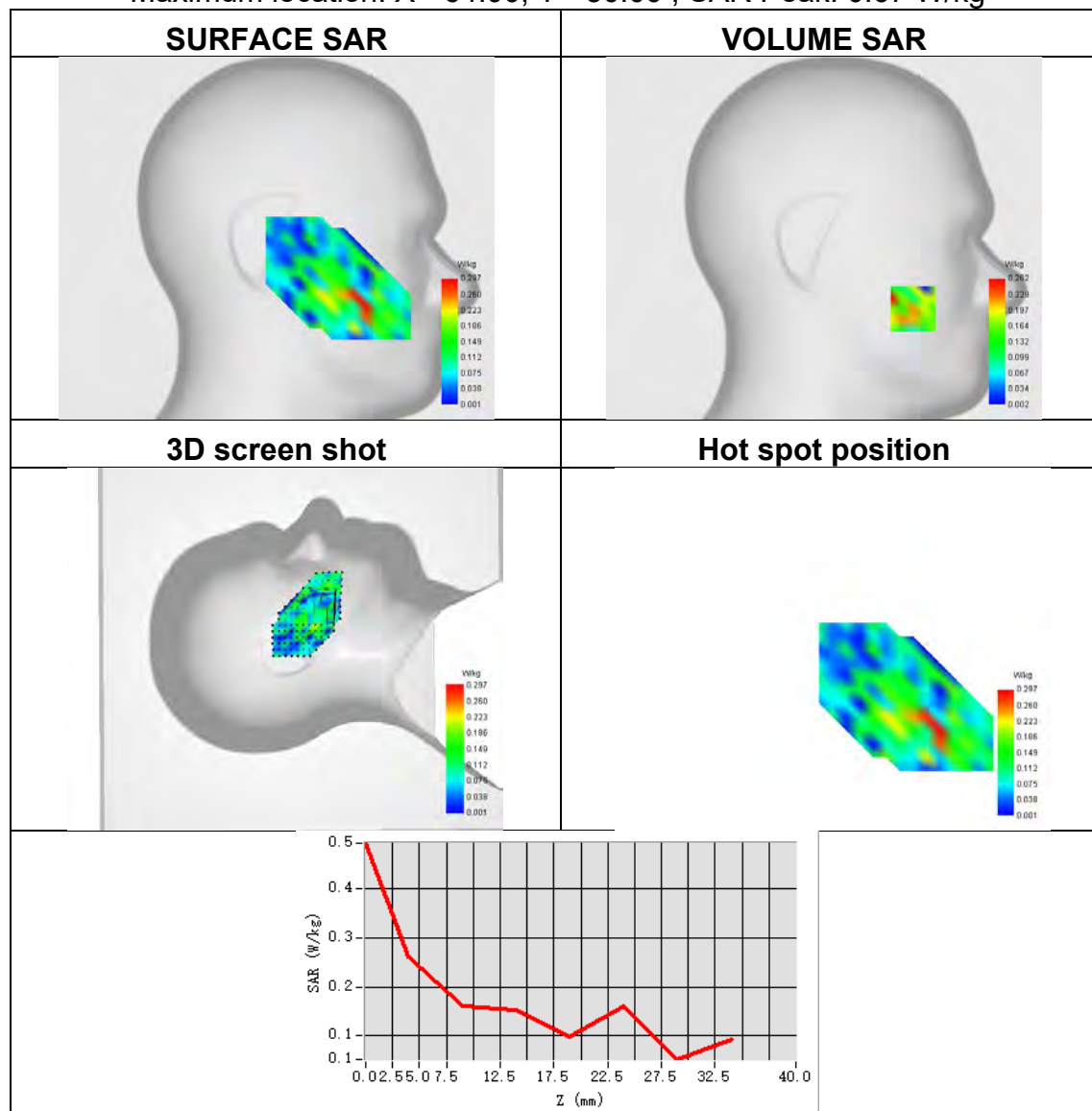




Plot 21:

Test Date	2025-04-30
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)	0.117
SAR 1g (W/Kg)	0.235
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

Maximum location: X=-64.00, Y=-50.00 ; SAR Peak: 0.67 W/kg

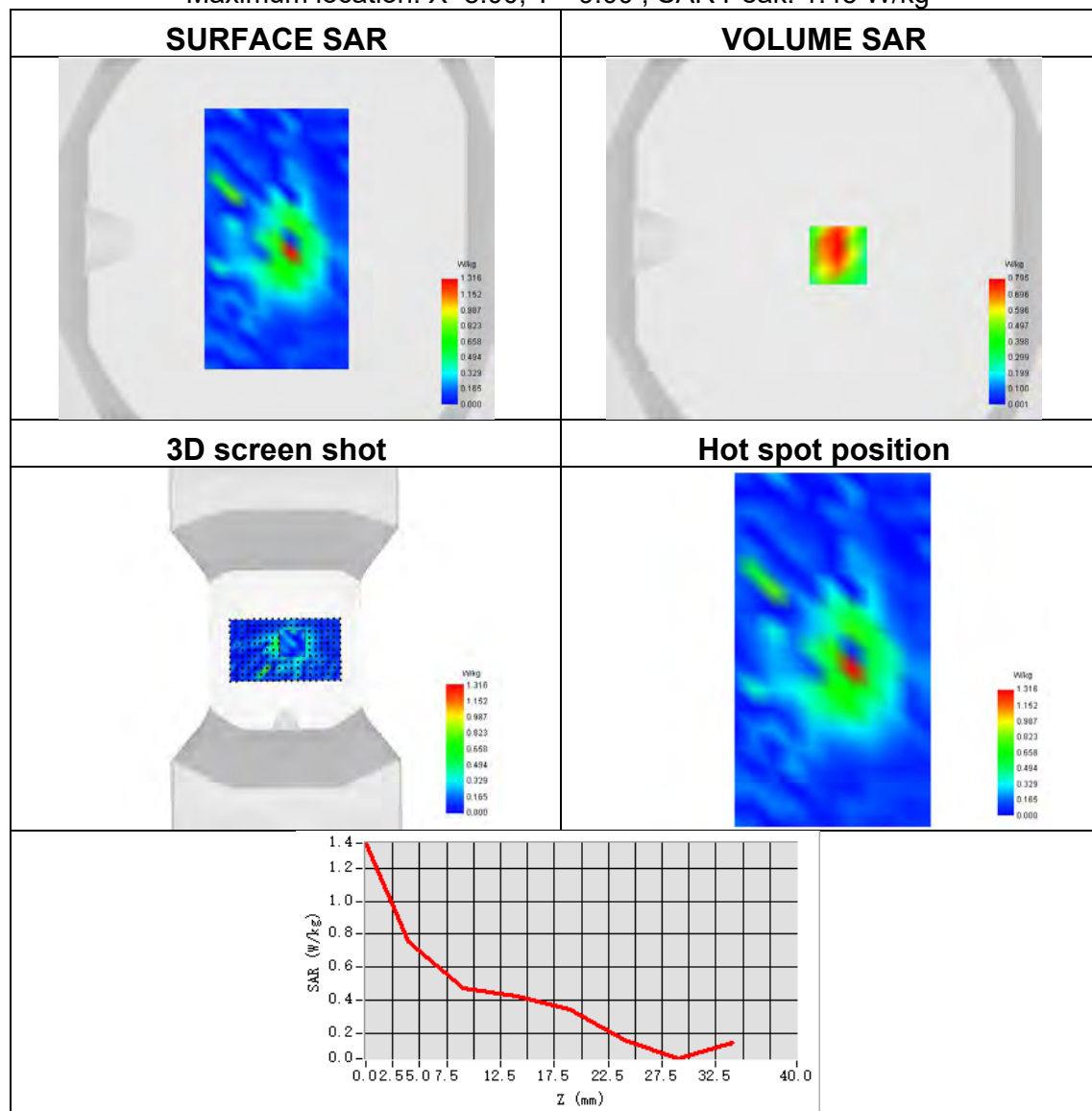




Plot 22:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.418
SAR 1g (W/Kg)	0.796
ConvF	2.20
Relative permittivity	40.83
Conductivity (S/m)	1.42

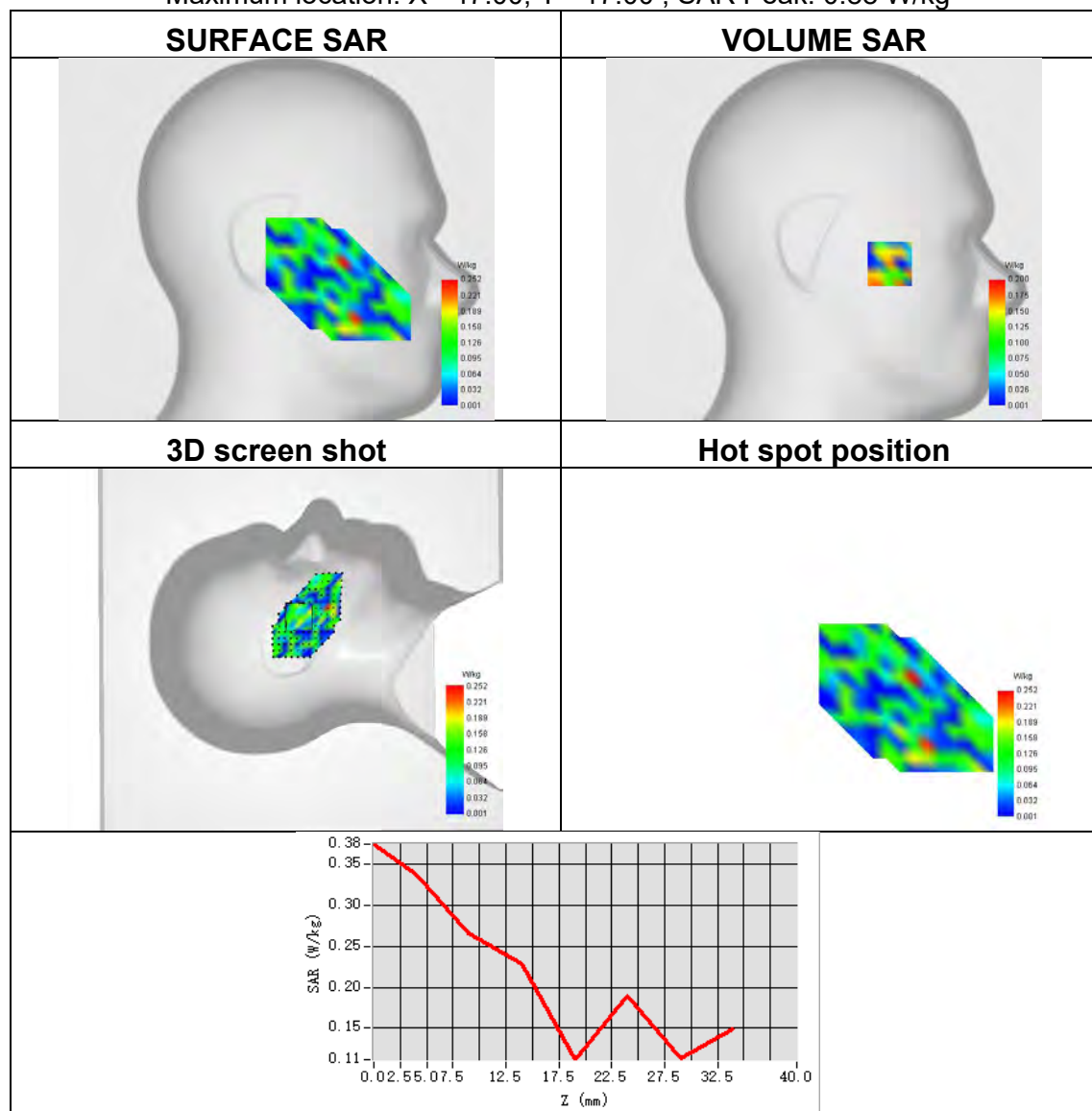
Maximum location: X=8.00, Y=-9.00 ; SAR Peak: 1.45 W/kg



Plot 23:

Test Date	2025-05-03
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	1745
SAR 10g (W/Kg)	0.087
SAR 1g (W/Kg)	0.189
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

Maximum location: X=-47.00, Y=-17.00 ; SAR Peak: 0.88 W/kg

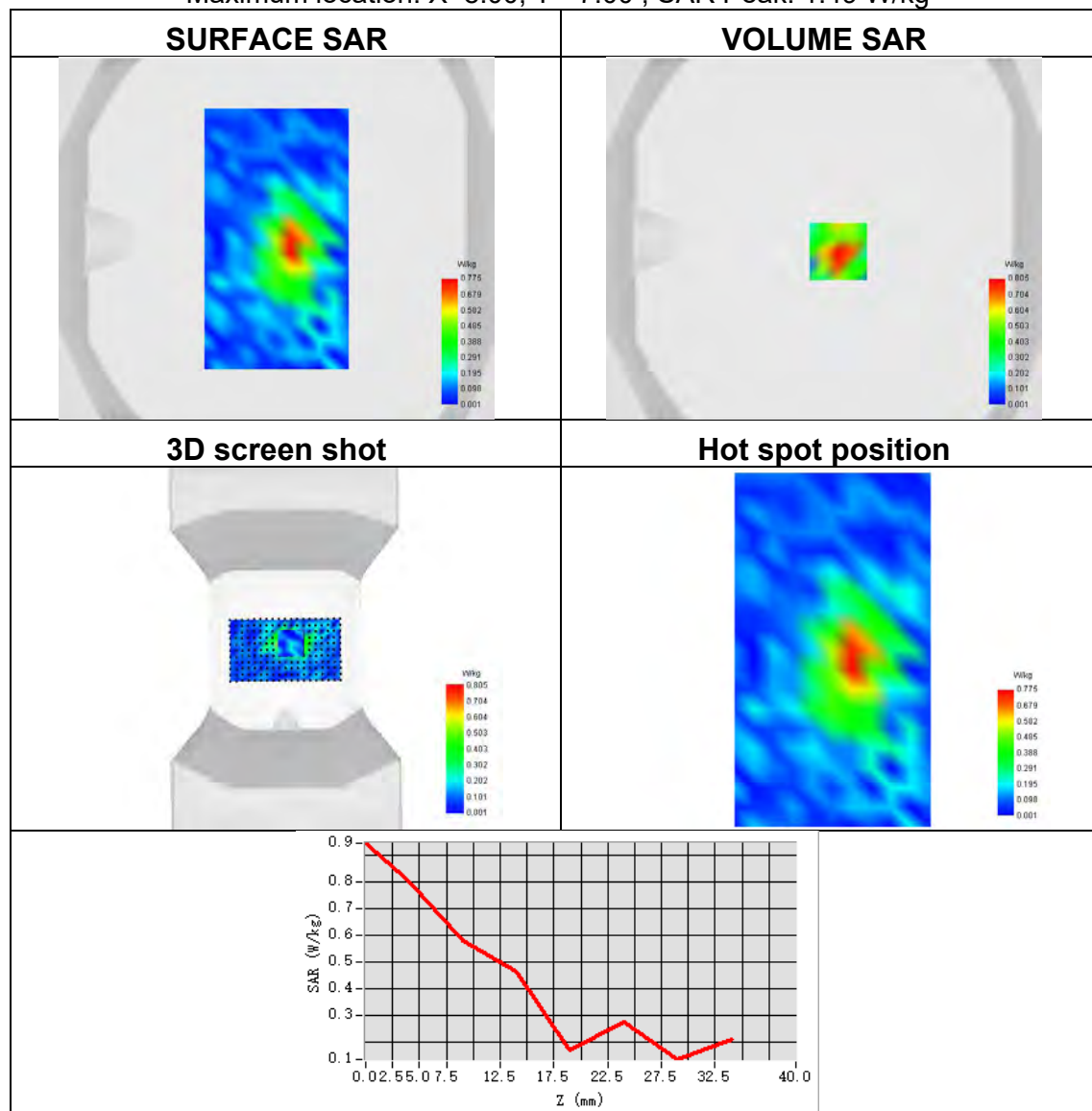




Plot 24:

Test Date	2025-05-03
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 4
Signal	LTE FDD
Frequency	1745
SAR 10g (W/Kg)	0.436
SAR 1g (W/Kg)	0.809
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

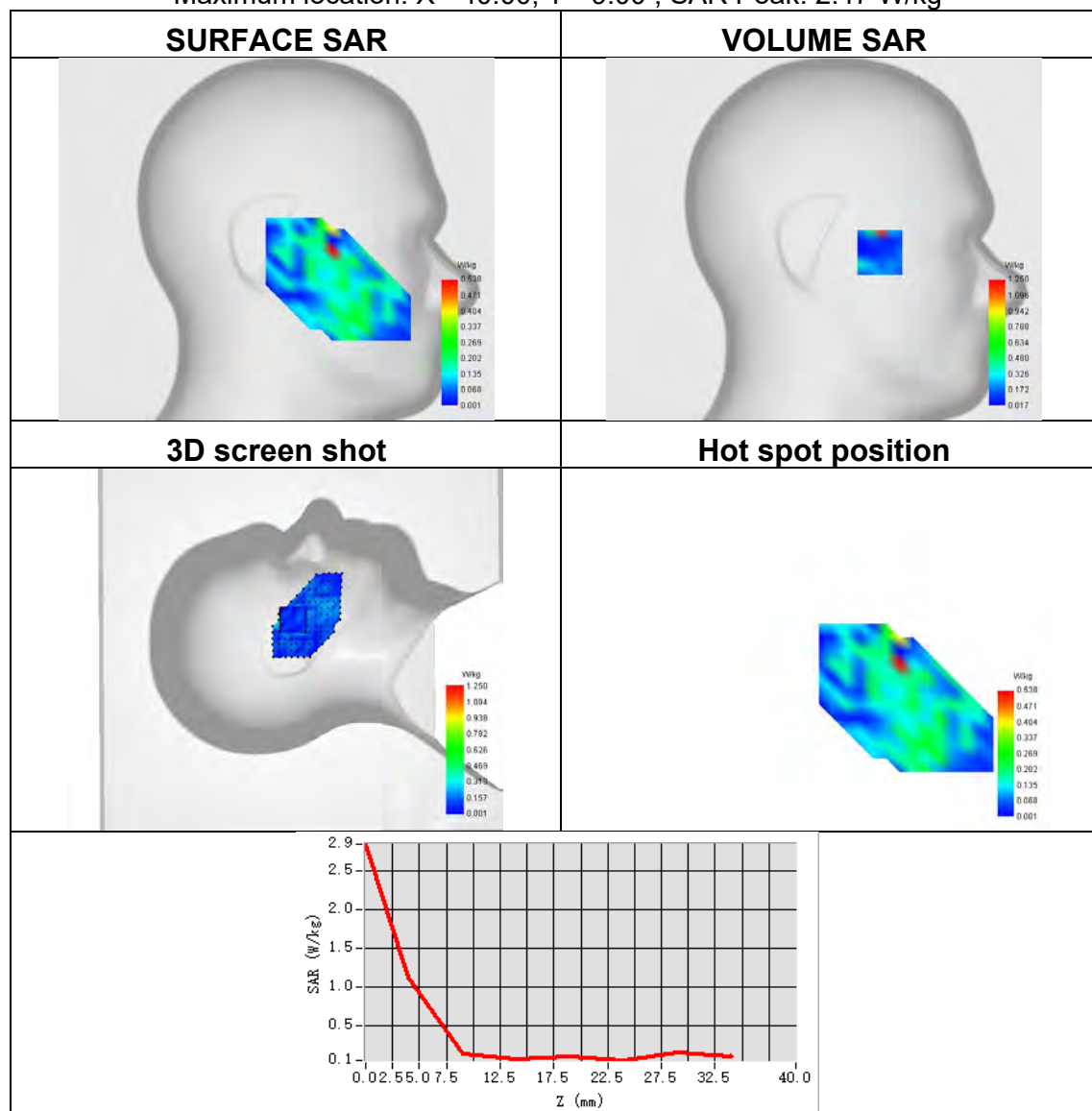
Maximum location: X=8.00, Y=-7.00 ; SAR Peak: 1.49 W/kg



Plot 25:

Test Date	2025-04-29
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	844
SAR 10g (W/Kg)	0.217
SAR 1g (W/Kg)	0.822
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

Maximum location: X=-40.00, Y=-9.00 ; SAR Peak: 2.47 W/kg

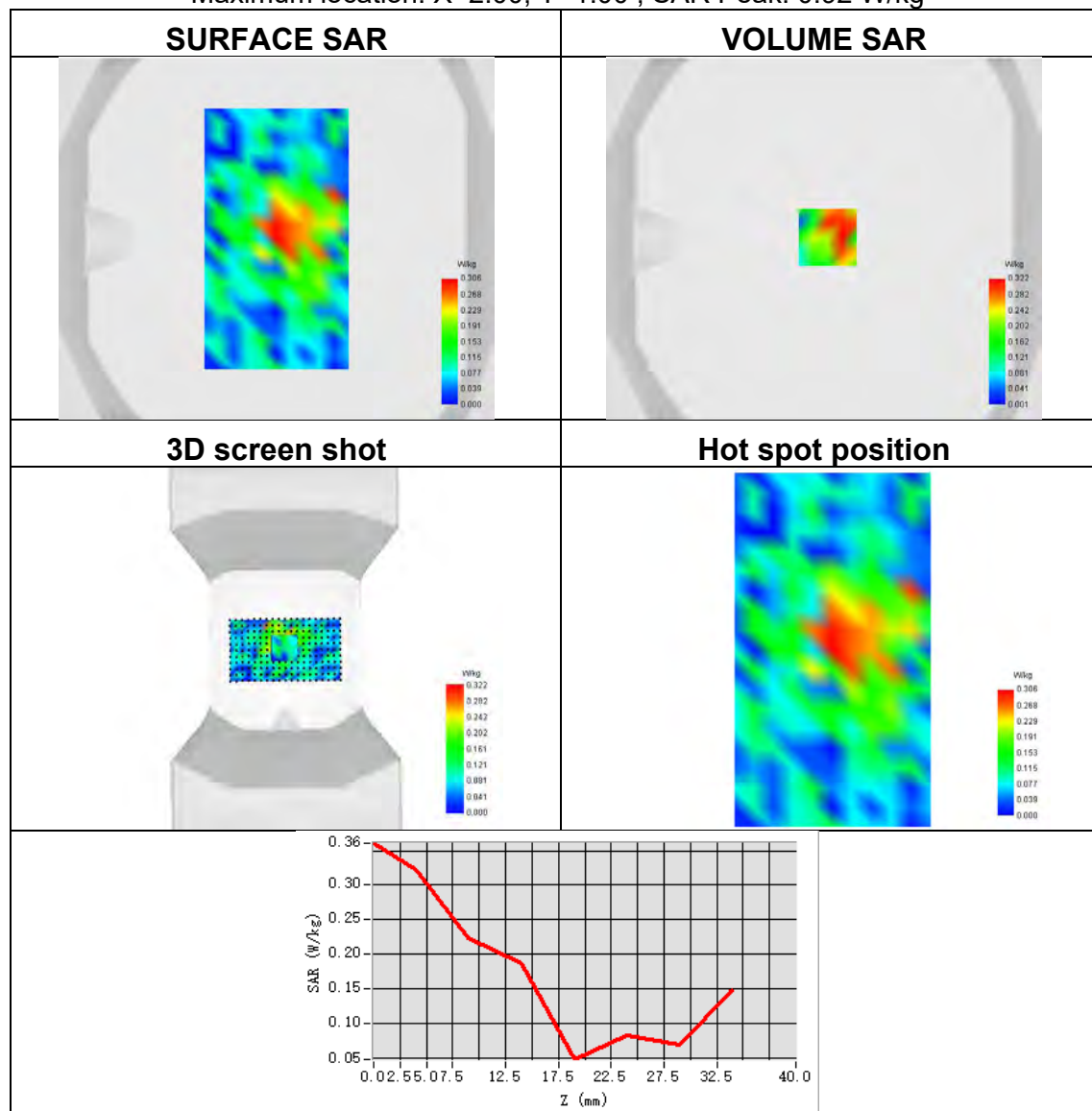




Plot 26:

Test Date	2025-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.169
SAR 1g (W/Kg)	0.394
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

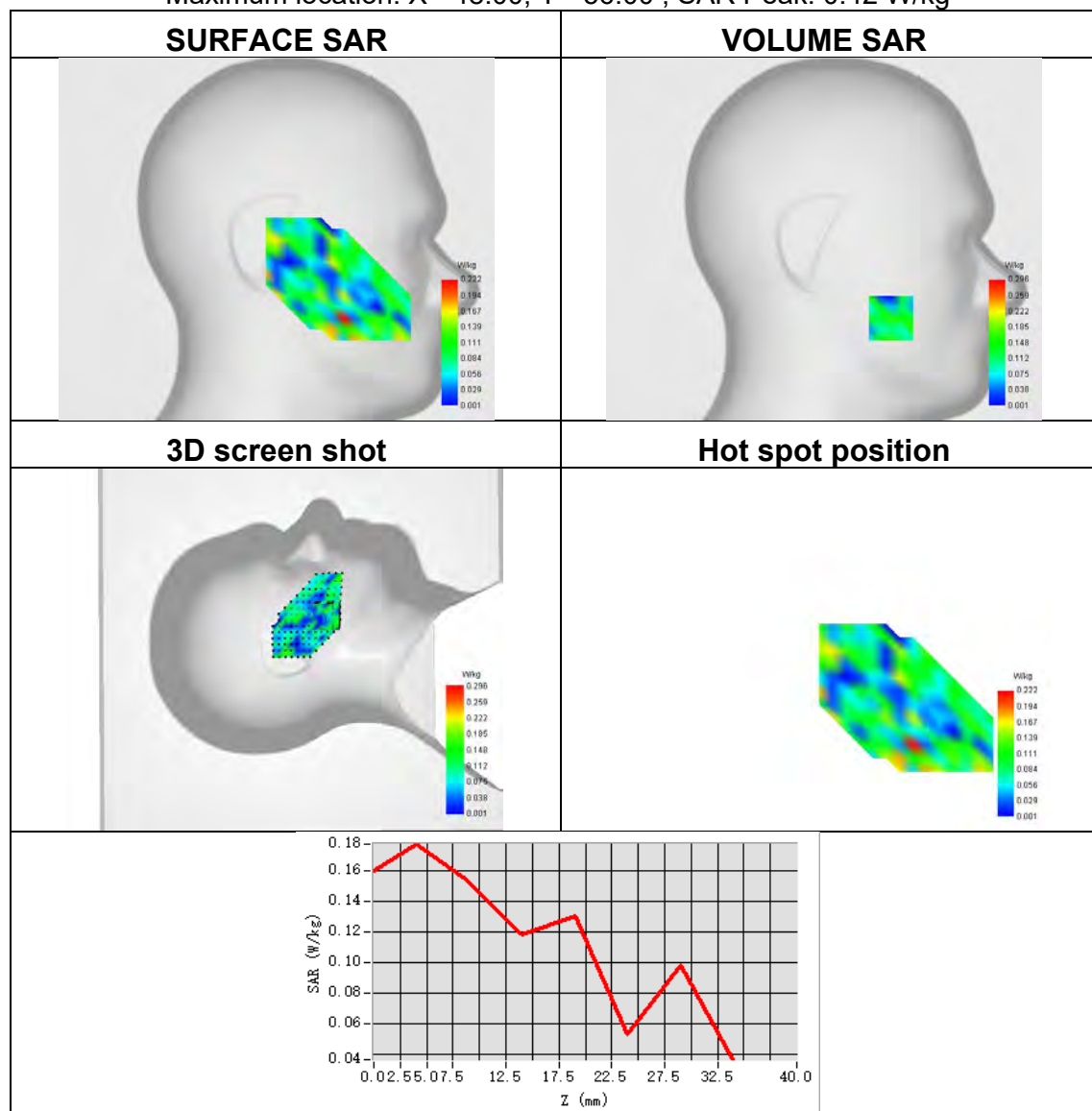
Maximum location: X=2.00, Y=1.00 ; SAR Peak: 0.92 W/kg



Plot 27:

Test Date	2025-05-02
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)	0.096
SAR 1g (W/Kg)	0.176
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

Maximum location: X=-48.00, Y=-56.00 ; SAR Peak: 0.42 W/kg

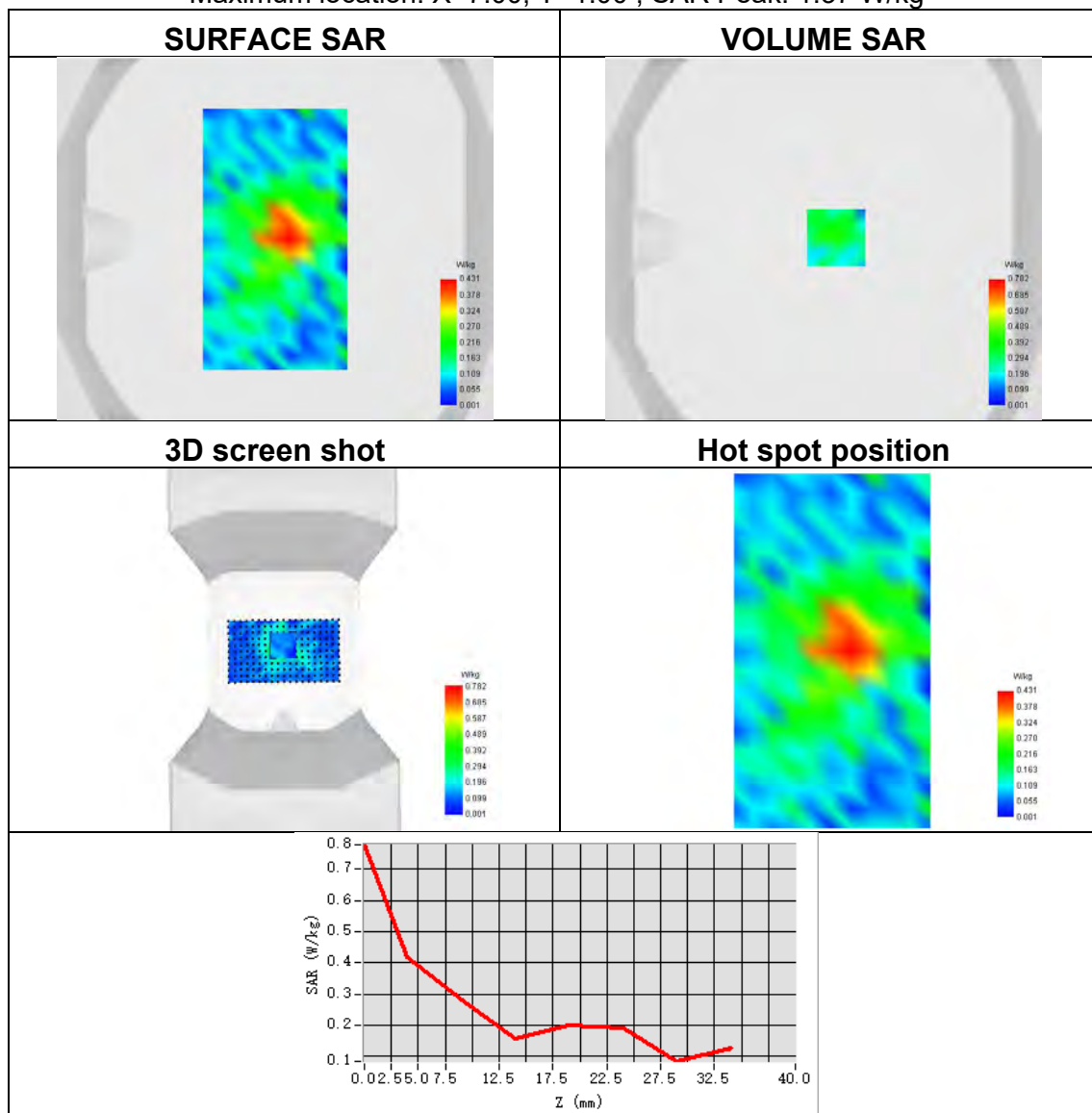




Plot 28:

Test Date	2025-05-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.203
SAR 1g (W/Kg)	0.348
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

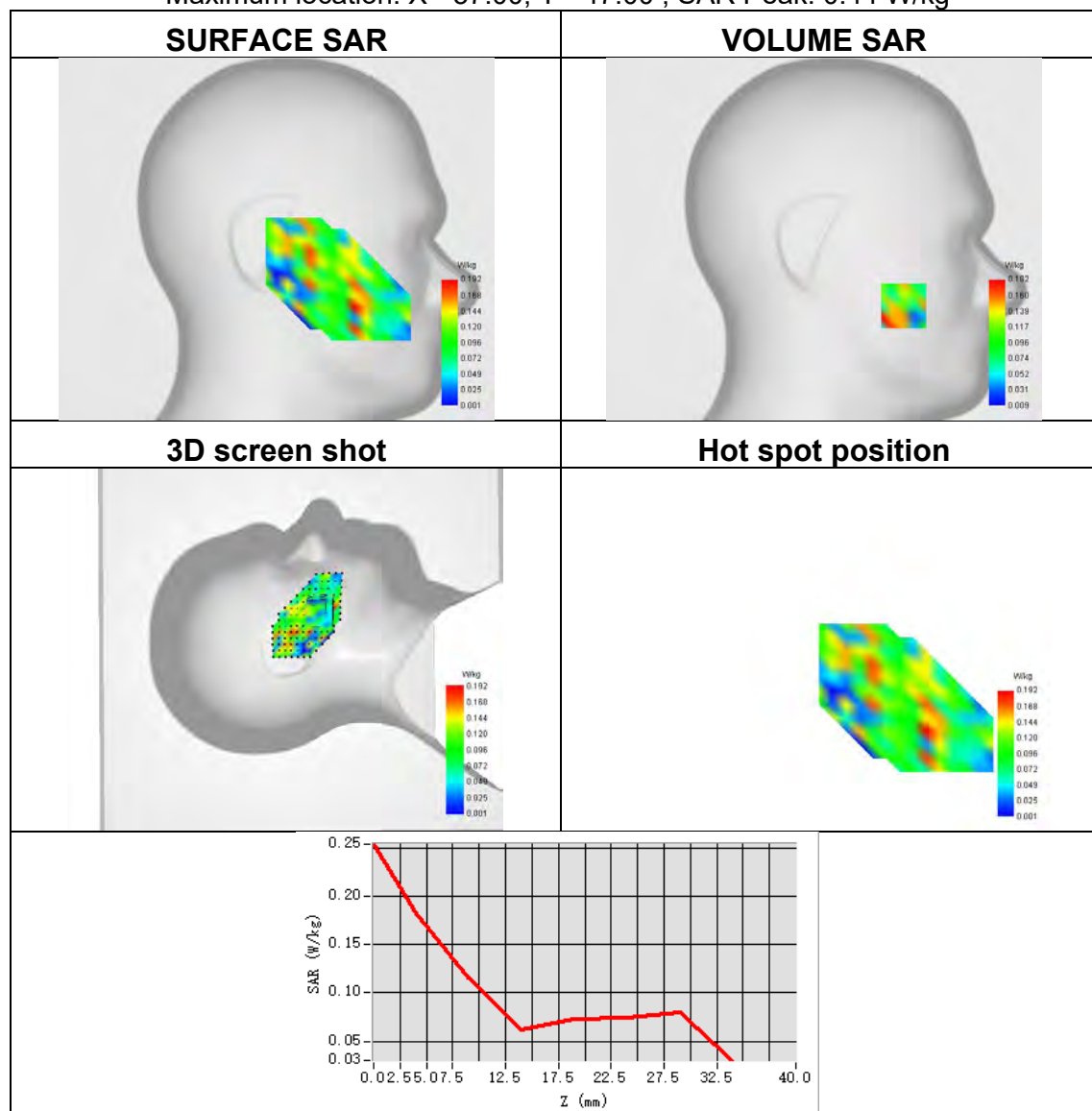
Maximum location: X=7.00, Y=1.00 ; SAR Peak: 1.37 W/kg



Plot 29:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	704
SAR 10g (W/Kg)	0.074
SAR 1g (W/Kg)	0.144
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

Maximum location: X=-57.00, Y=-47.00 ; SAR Peak: 0.44 W/kg

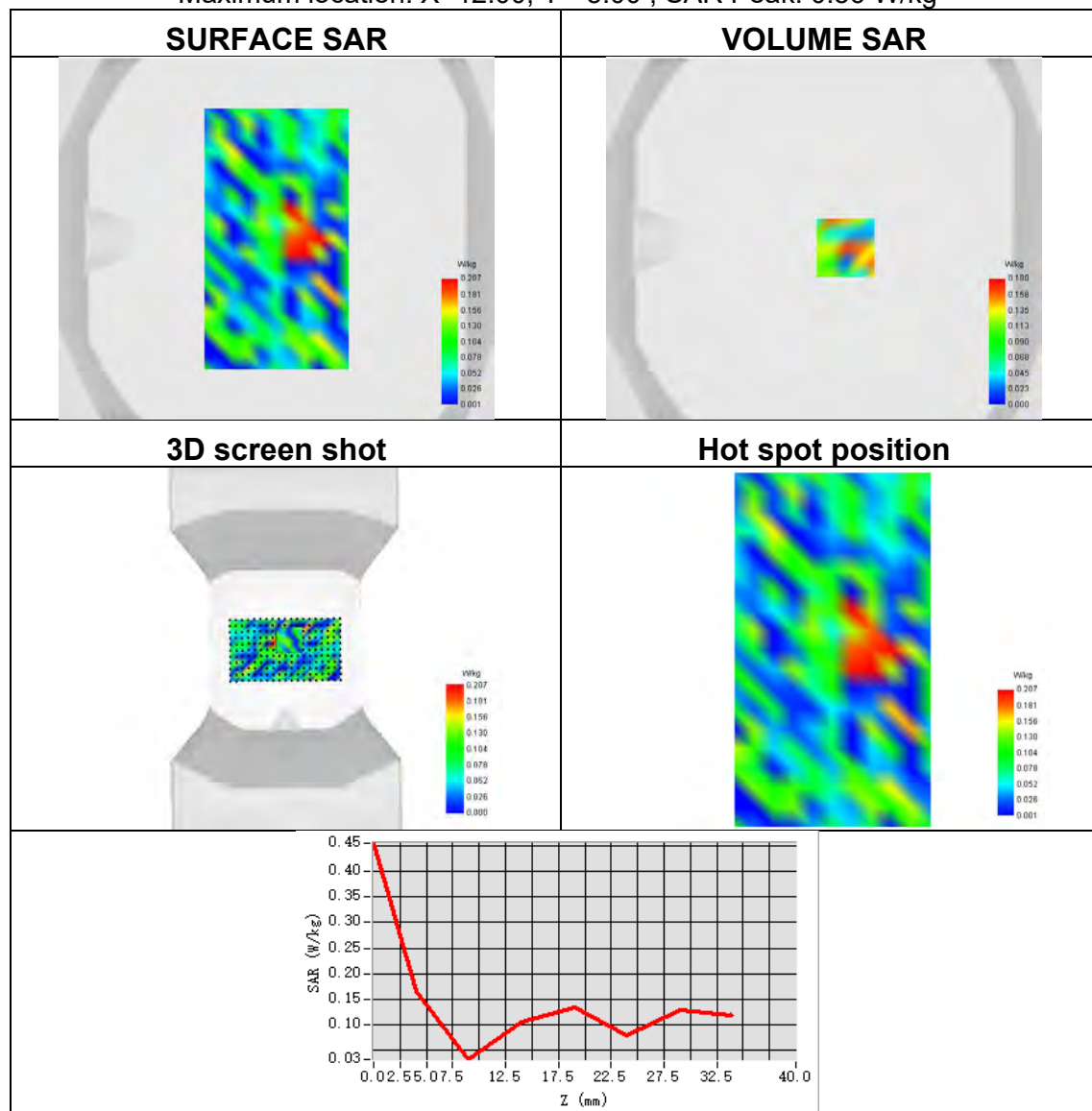




Plot 30:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 12
Signal	LTE FDD
Frequency	704
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.193
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

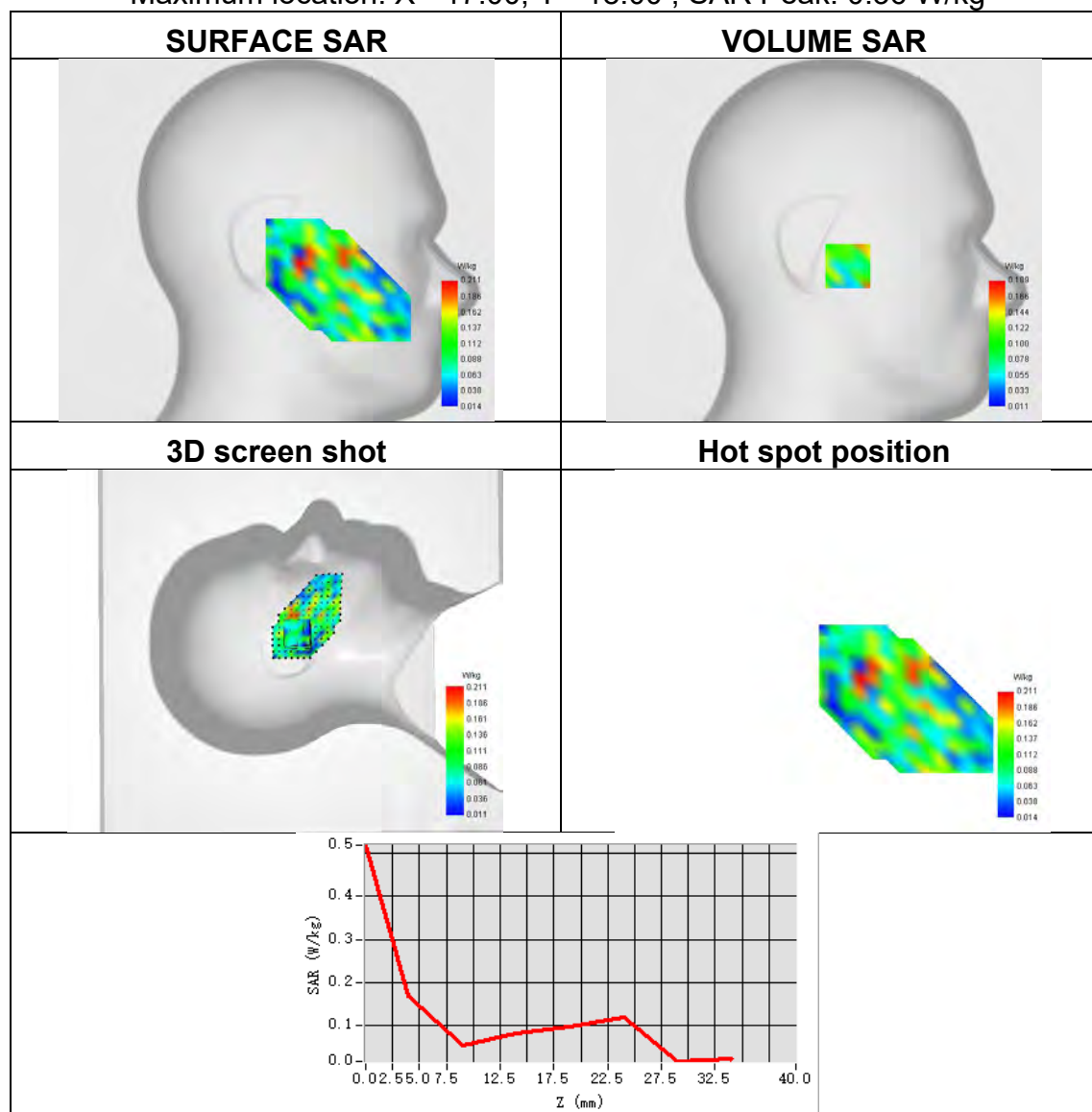
Maximum location: X=12.00, Y=-5.00 ; SAR Peak: 0.56 W/kg



Plot 31:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.080
SAR 1g (W/Kg)	0.134
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

Maximum location: X=-17.00, Y=-18.00 ; SAR Peak: 0.36 W/kg

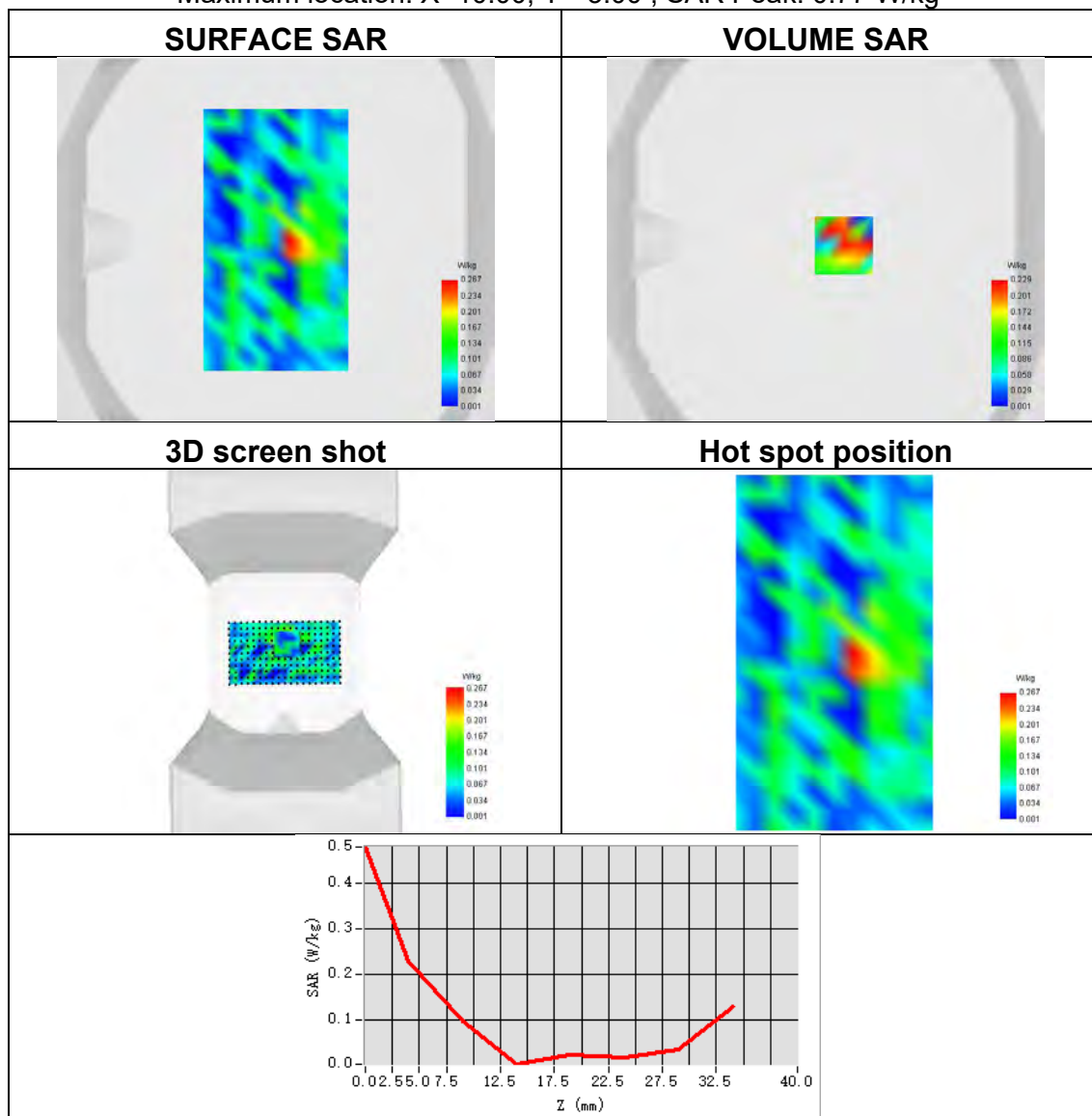




Plot 32:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.100
SAR 1g (W/Kg)	0.257
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

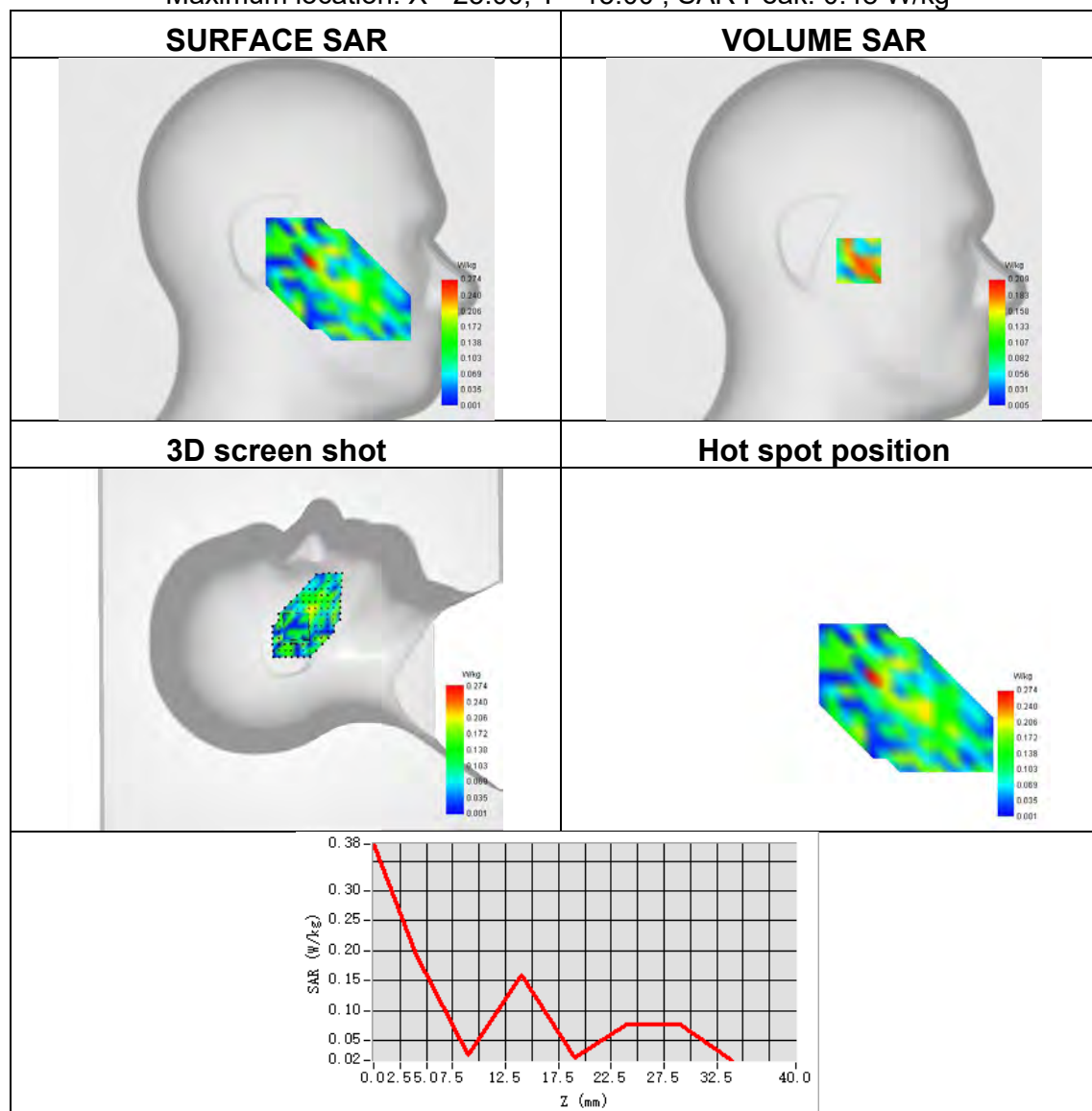
Maximum location: X=10.00, Y=-3.00 ; SAR Peak: 0.77 W/kg



Plot 33:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	0.095
SAR 1g (W/Kg)	0.210
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

Maximum location: X=-25.00, Y=-15.00 ; SAR Peak: 0.48 W/kg

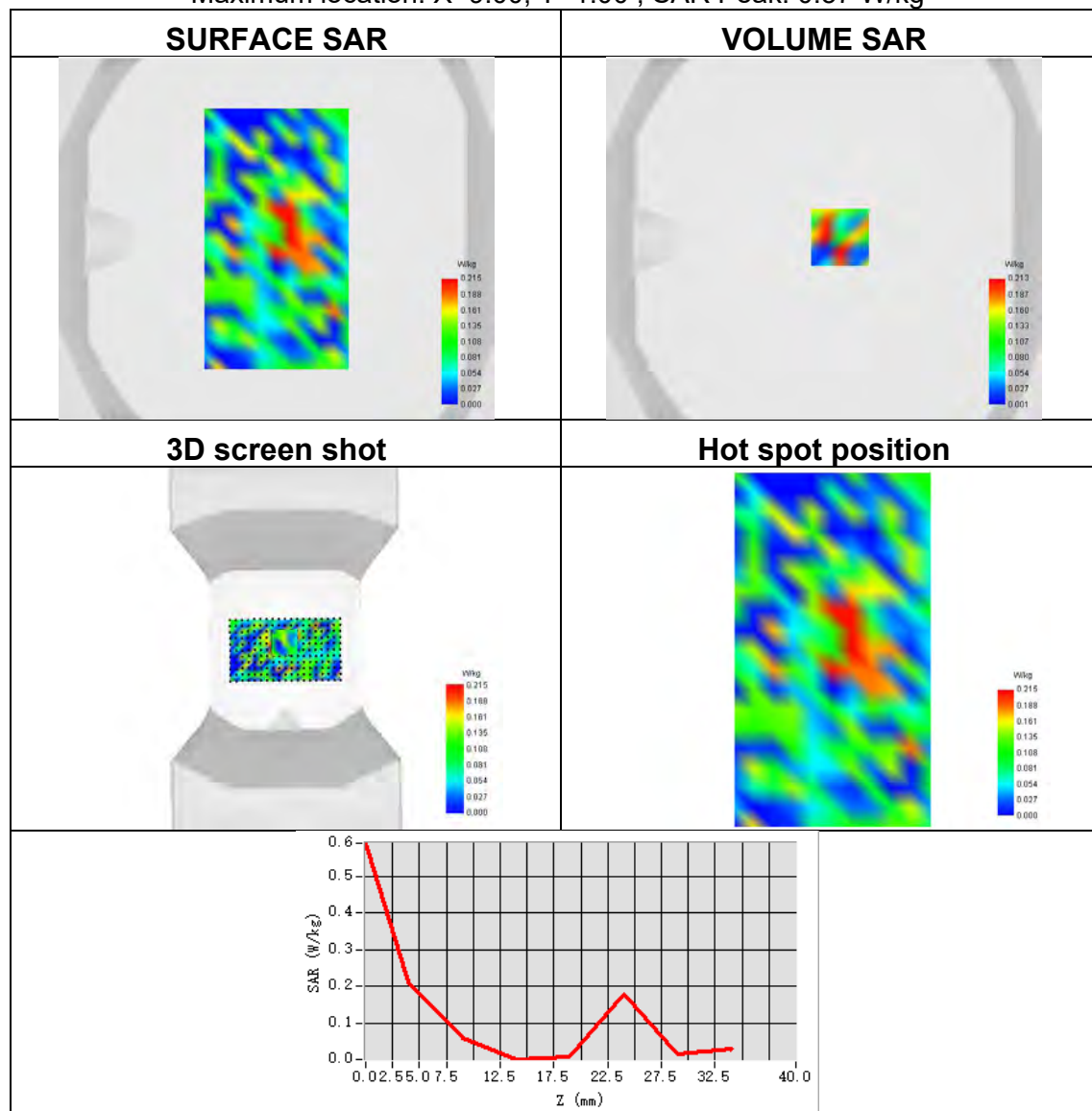




Plot 34:

Test Date	2025-05-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	0.098
SAR 1g (W/Kg)	0.210
ConvF	1.67
Relative permittivity	42.03
Conductivity (S/m)	0.90

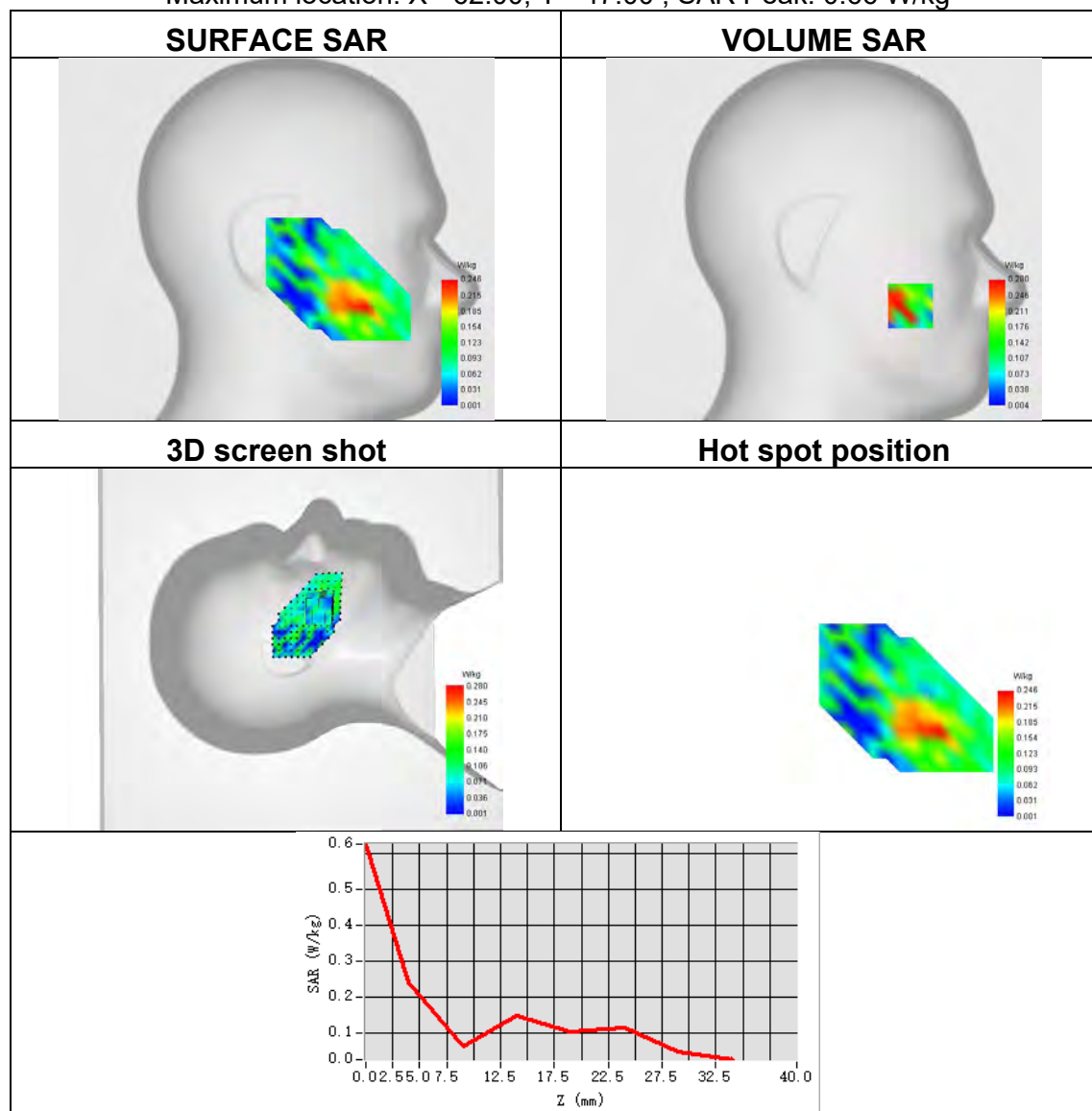
Maximum location: X=9.00, Y=1.00 ; SAR Peak: 0.57 W/kg



Plot 35:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 25
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.258
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

Maximum location: X=-62.00, Y=-47.00 ; SAR Peak: 0.66 W/kg

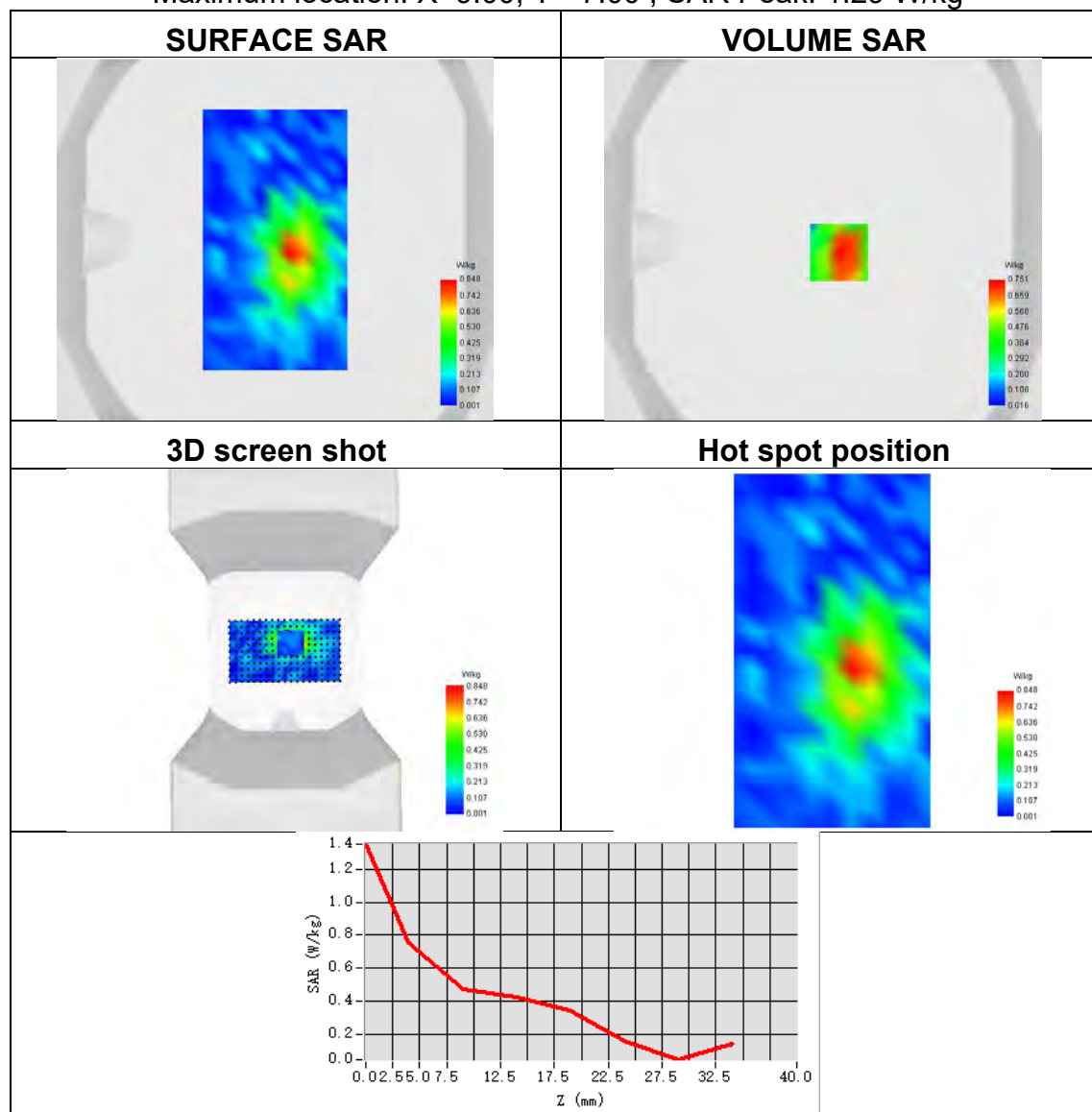




Plot 36:

Test Date	2025-04-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 25
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	0.426
SAR 1g (W/Kg)	0.759
ConvF	1.92
Relative permittivity	40.49
Conductivity (S/m)	1.42

Maximum location: X=9.00, Y=-7.00 ; SAR Peak: 1.29 W/kg

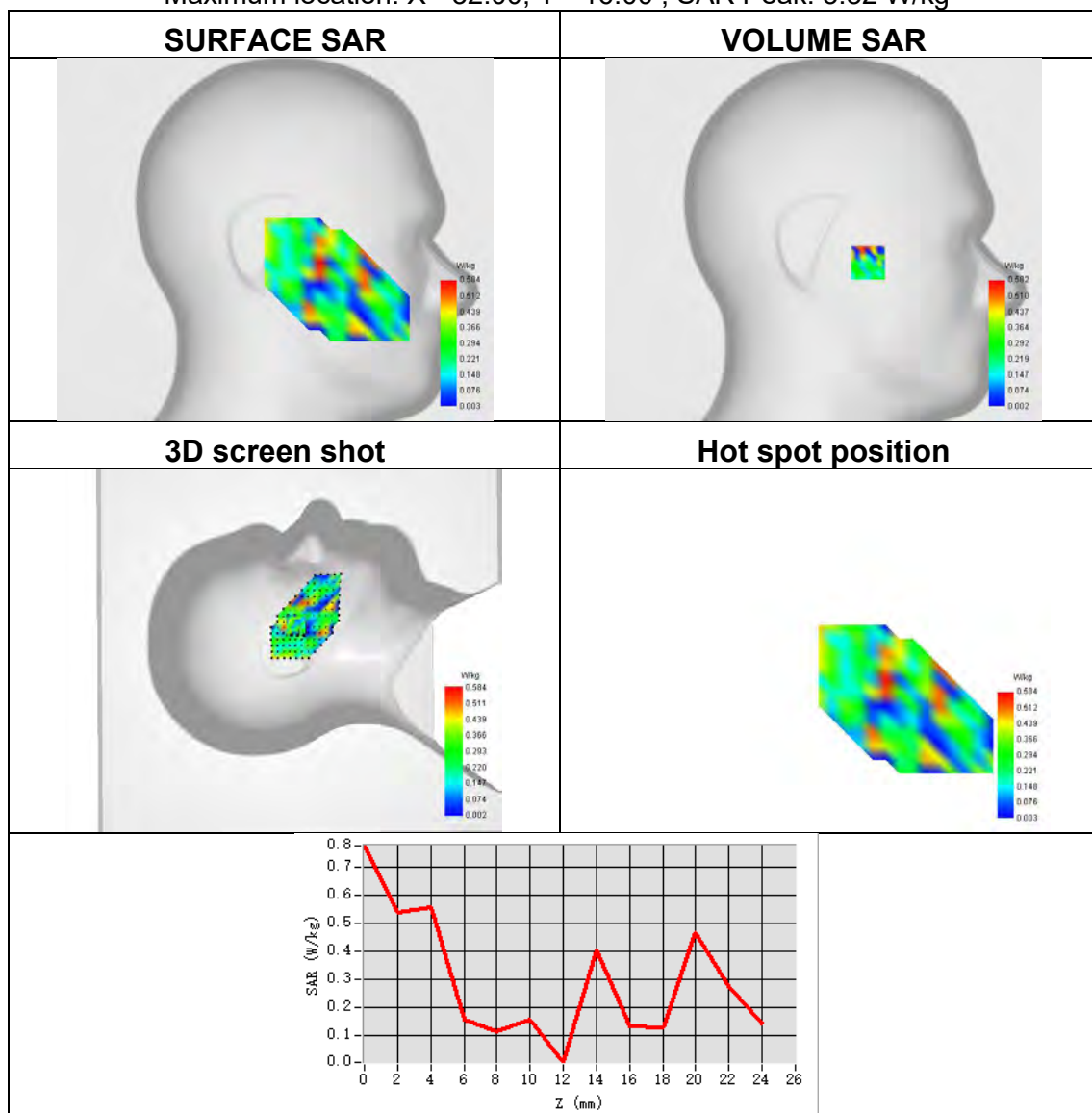




Plot 37:

Test Date	2025-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 26
Signal	LTE FDD
Frequency	841.5
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.354
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

Maximum location: X=-32.00, Y=-16.00 ; SAR Peak: 3.32 W/kg

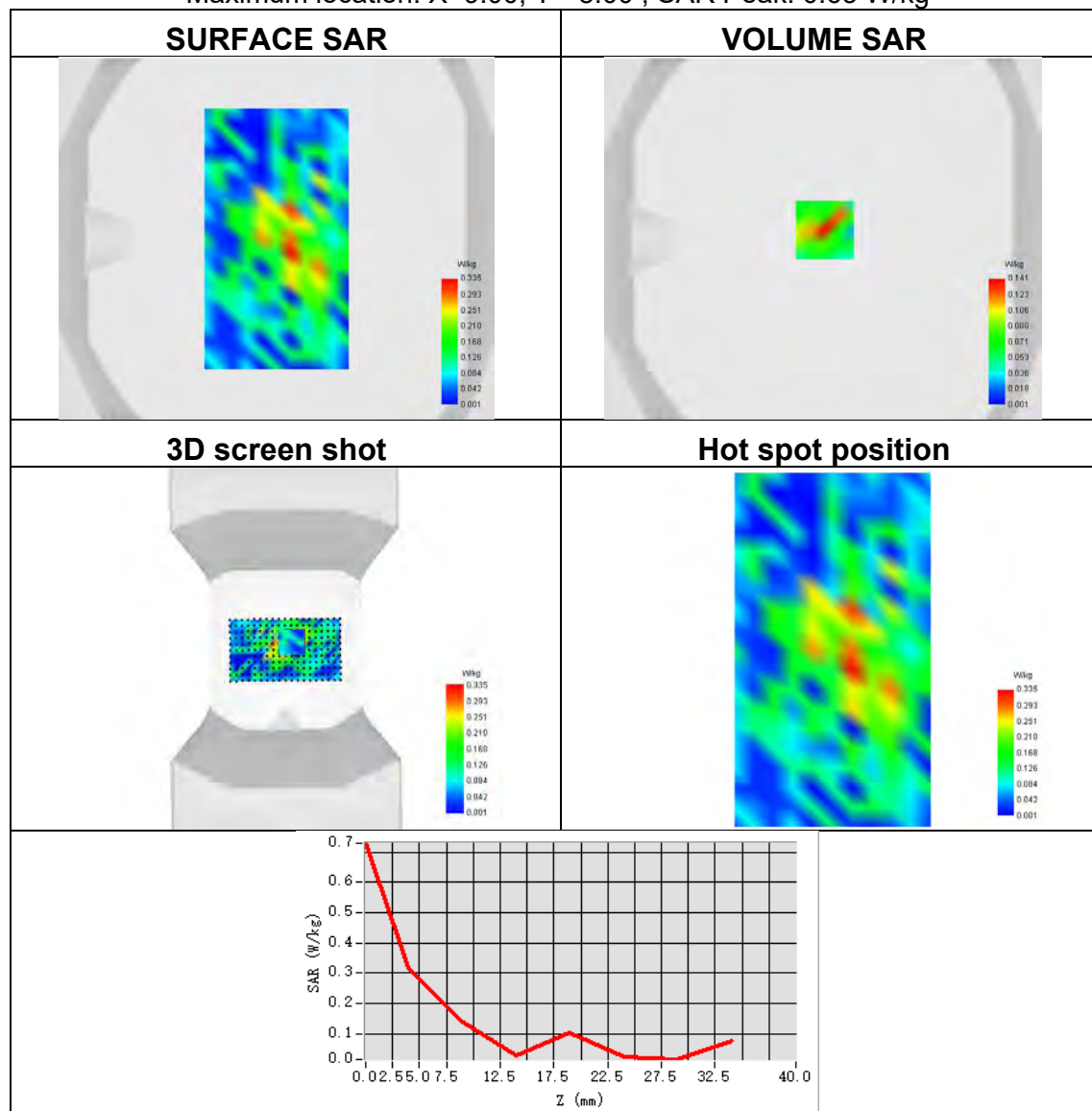




Plot 38:

Test Date	2025-04-29
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 26
Signal	LTE FDD
Frequency	841.5
SAR 10g (W/Kg)	0.139
SAR 1g (W/Kg)	0.293
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	0.93

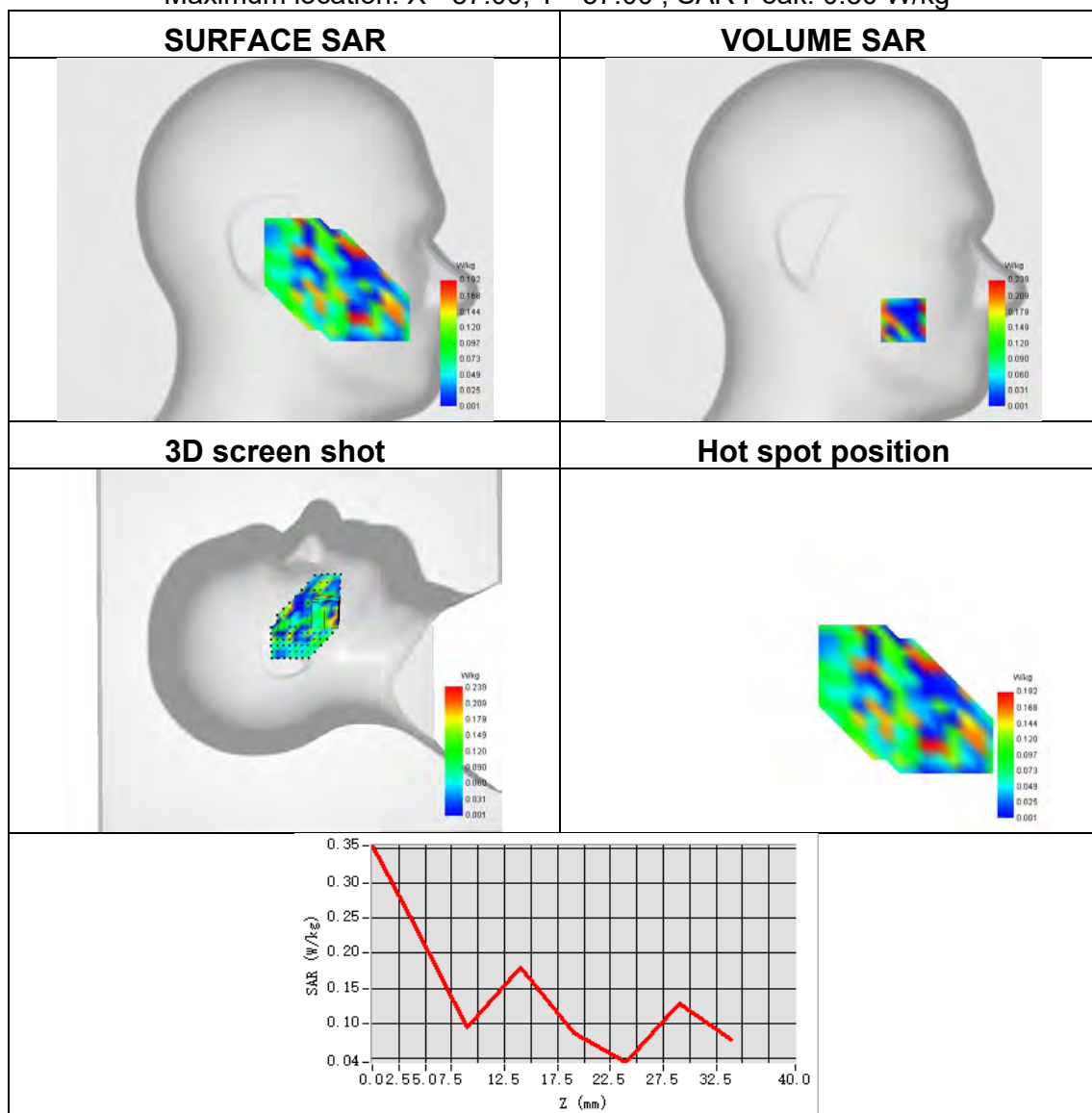
Maximum location: X=9.00, Y=-8.00 ; SAR Peak: 0.63 W/kg



Plot 39:

Test Date	2025-05-02
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	2610
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.092
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

Maximum location: X=-57.00, Y=-57.00 ; SAR Peak: 0.50 W/kg

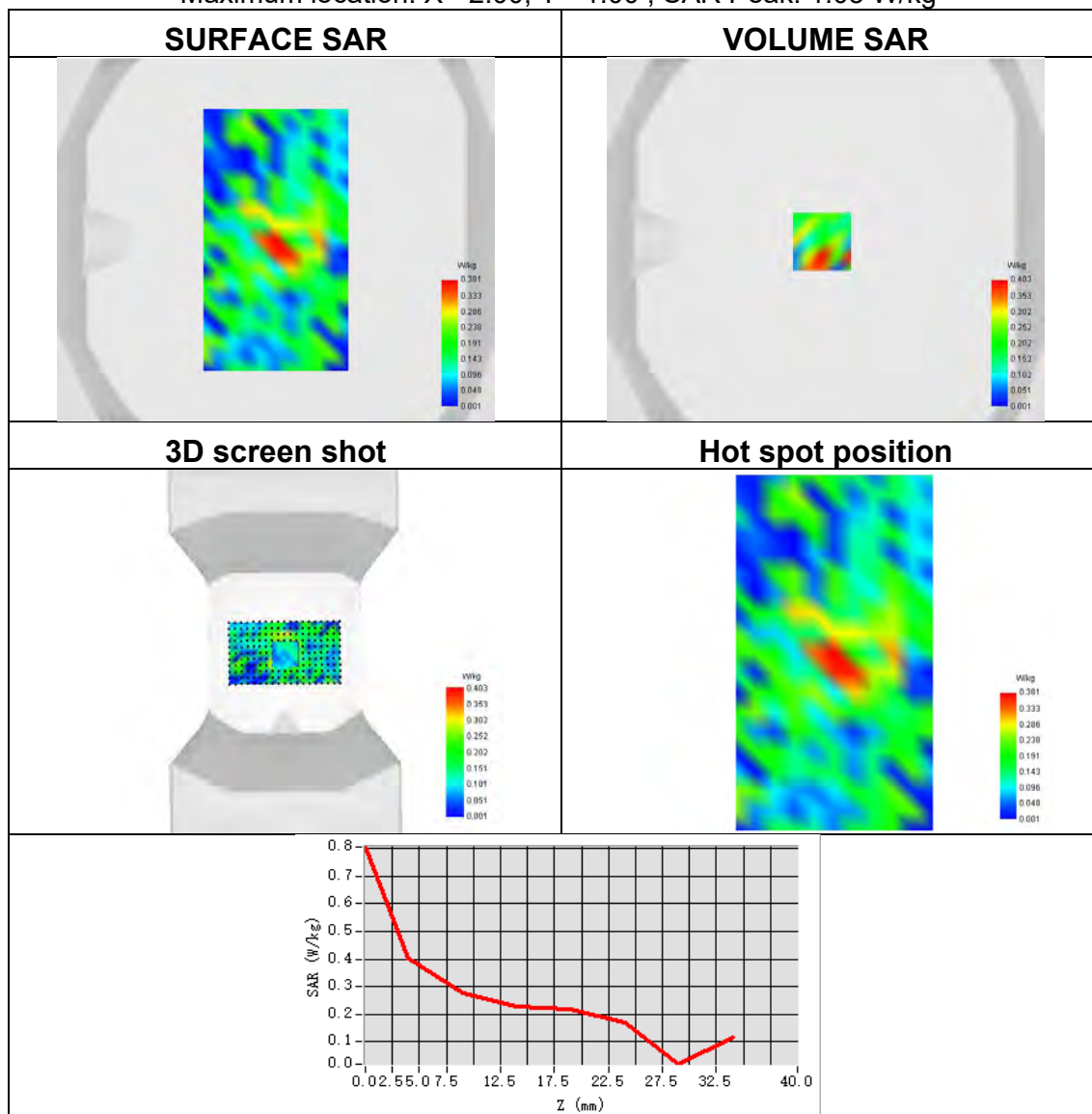




Plot 40:

Test Date	2025-05-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2610
SAR 10g (W/Kg)	0.158
SAR 1g (W/Kg)	0.344
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

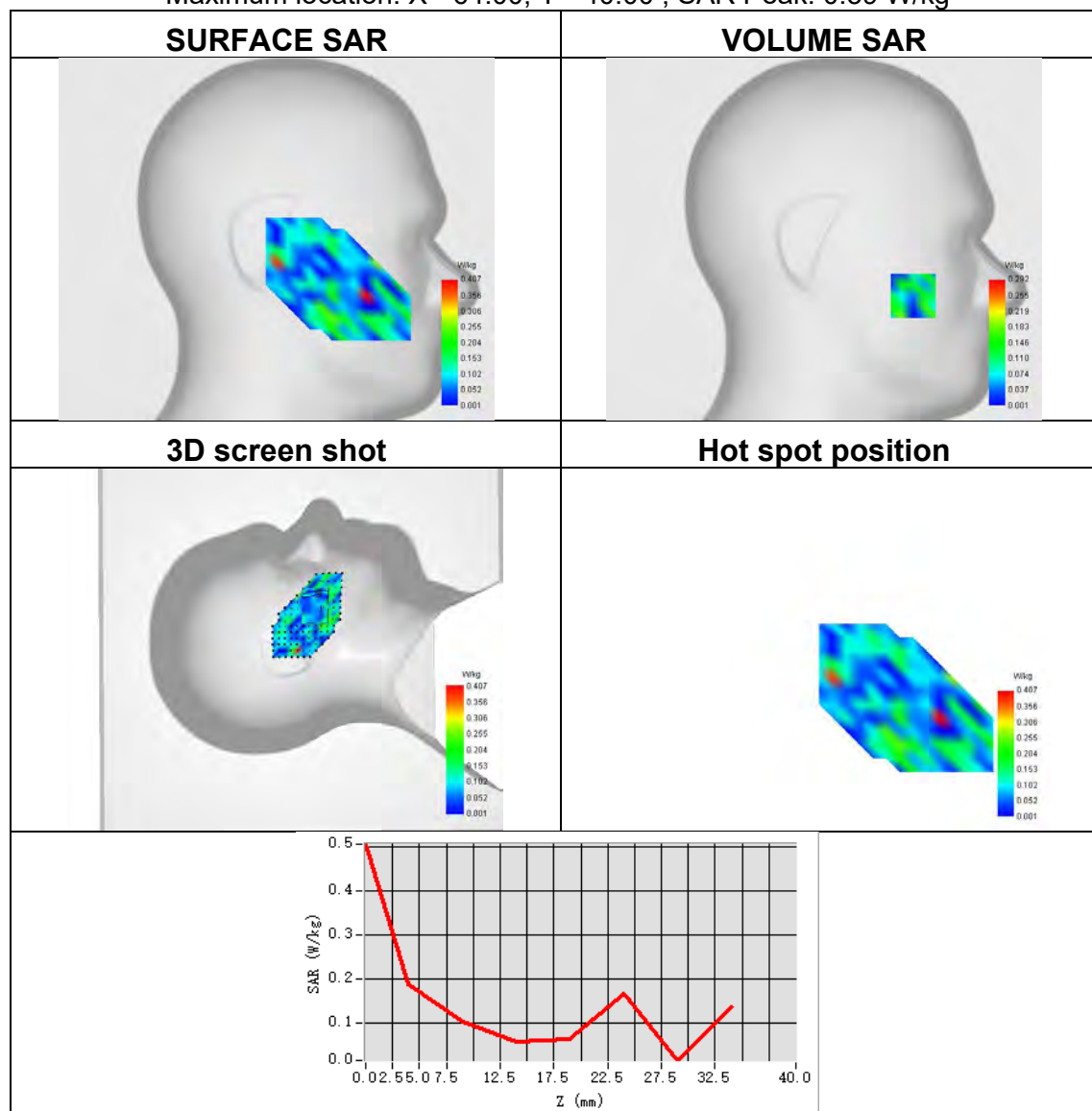
Maximum location: X=-2.00, Y=-1.00 ; SAR Peak: 1.05 W/kg



Plot 41:

Test Date	2025-05-04
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)	0.080
SAR 1g (W/Kg)	0.214
ConvF	2.33
Relative permittivity	39.99
Conductivity (S/m)	1.81

Maximum location: X=-64.00, Y=-40.00 ; SAR Peak: 0.59 W/kg

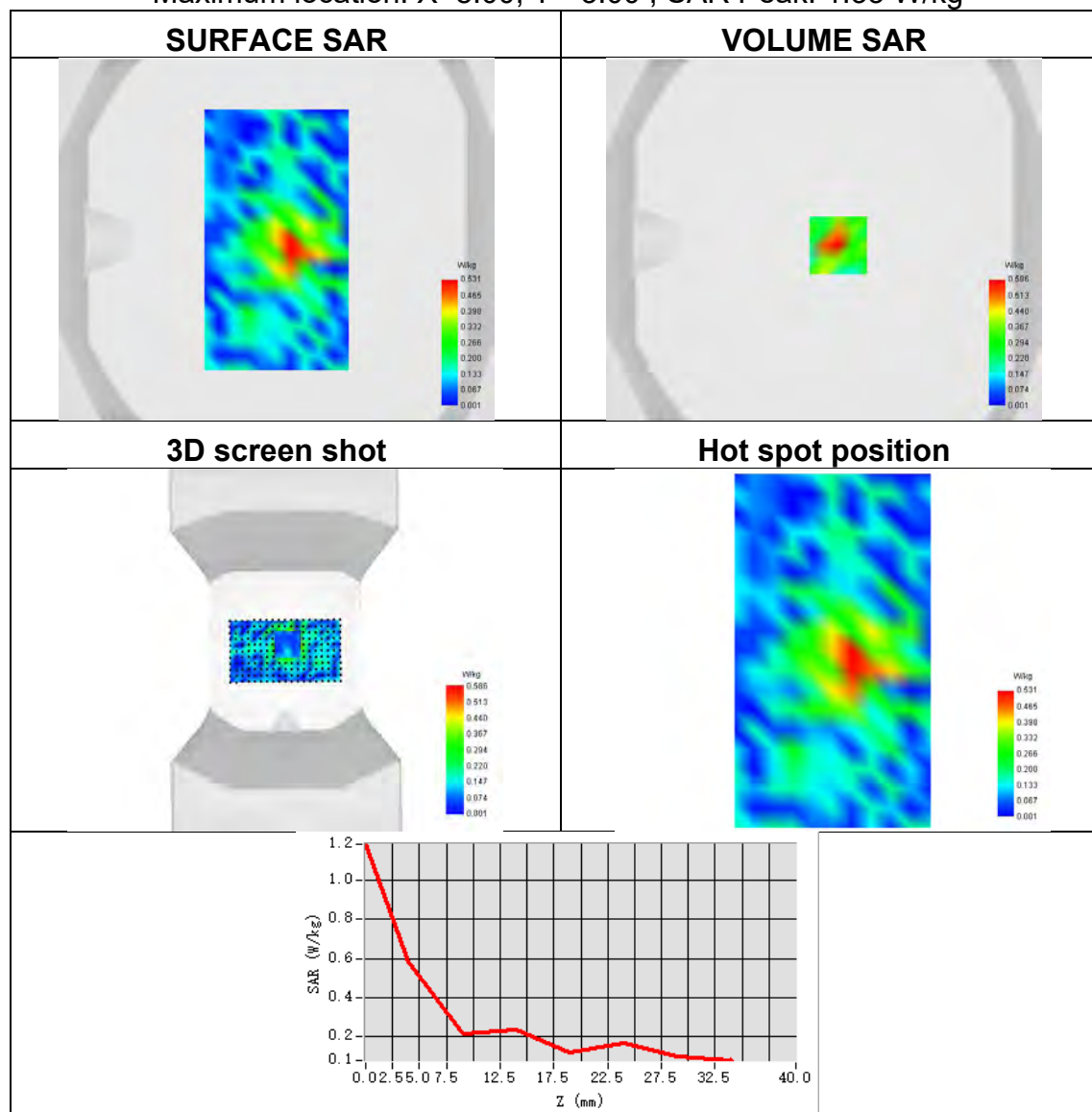




Plot 42:

Test Date	2025-05-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2310
SAR 10g (W/Kg)	0.278
SAR 1g (W/Kg)	0.577
ConvF	2.33
Relative permittivity	39.99
Conductivity (S/m)	1.81

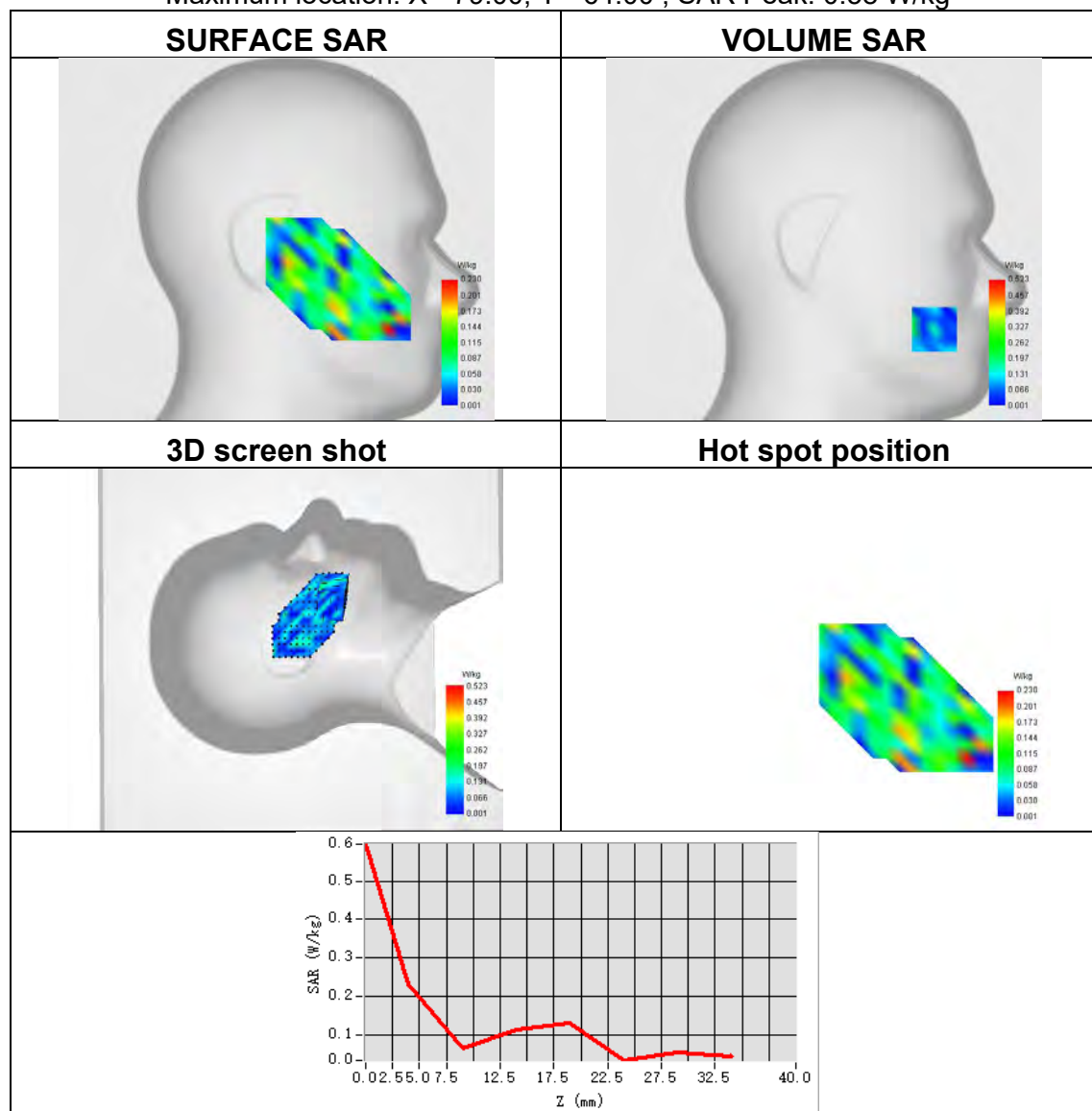
Maximum location: X=8.00, Y=-3.00 ; SAR Peak: 1.33 W/kg



Plot 43:

Test Date	2025-05-02
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	2645
SAR 10g (W/Kg)	0.082
SAR 1g (W/Kg)	0.182
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

Maximum location: X=-79.00, Y=-64.00 ; SAR Peak: 0.58 W/kg

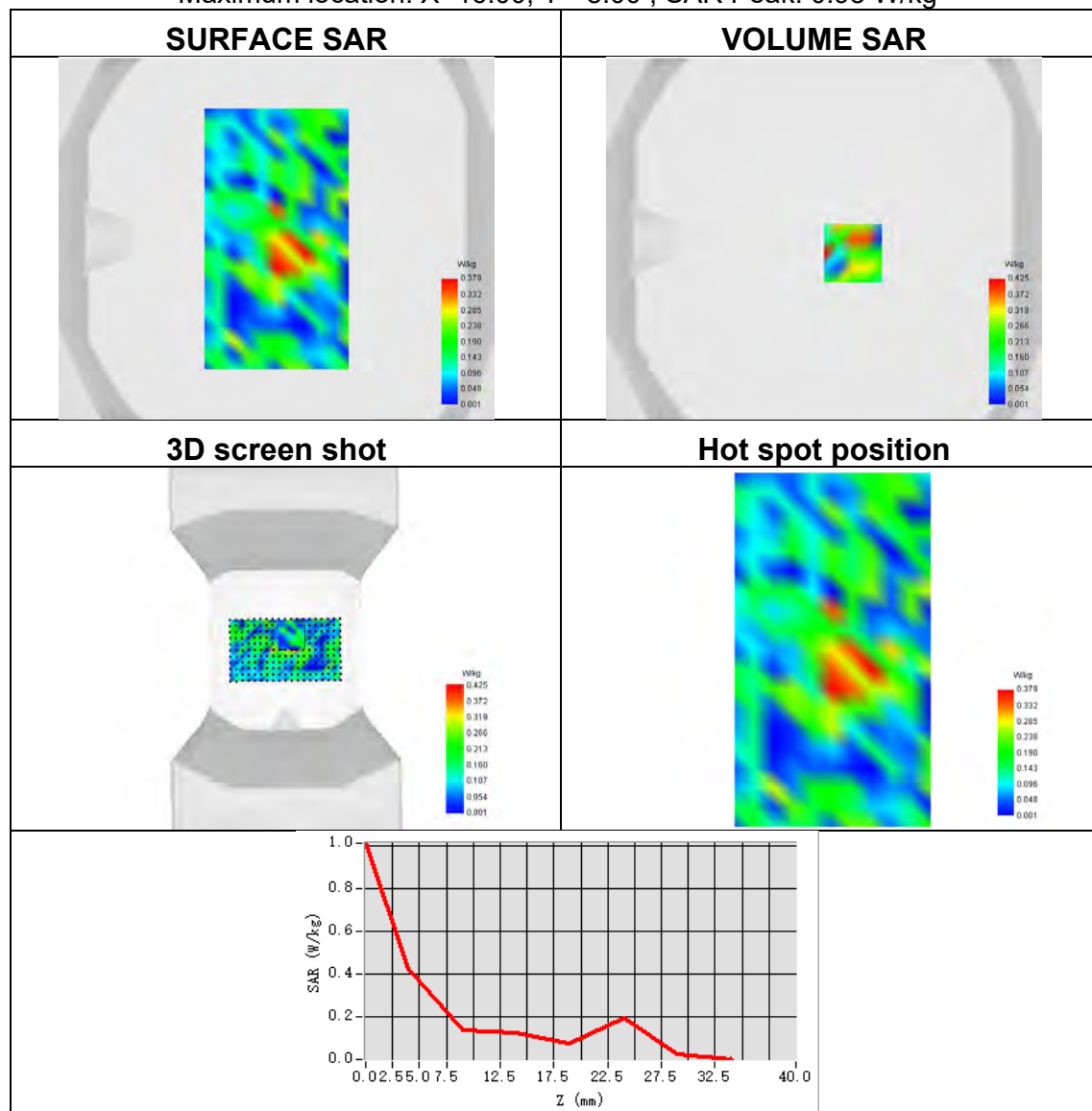




Plot 44:

Test Date	2025-05-02
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 41
Signal	LTE TDD
Frequency	2645
SAR 10g (W/Kg)	0.154
SAR 1g (W/Kg)	0.389
ConvF	2.37
Relative permittivity	39.66
Conductivity (S/m)	1.94

Maximum location: X=16.00, Y=-8.00 ; SAR Peak: 0.98 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※