



SAR TEST REPORT

Product Name: 5G Smart phone

Model Name: Titan 2

Issued For : Shanghai Unihertz E-Commerce Co., Ltd

Room 308, Building C, 508 Chundong Rd, Minhang district
Shanghai, China 201108

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

Room 205, Building 13, Zone B, Zhenxiong Industrial Park,
No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan
District, Shenzhen, Guangdong, China.

Report Number: LGT25E142HA03

Sample Received Date: May 03, 2025

Date of Test: July 01, 2025 ~ July 22, 2025

Date of Issue: July 29, 2025

Head: 0.900 W/kg

Max. SAR (10g):
Body: 1.291 W/kg

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Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	8
1.3 Test Factory	8
2. Test Standards and Limits	9
3. SAR Measurement System	10
3.1 Definition of Specific Absorption Rate (SAR)	10
3.2 SAR System	10
4. Tissue Simulating Liquids	13
4.1 Simulating Liquids Parameter Check	13
5. SAR System Validation	15
5.1 Validation System	15
5.2 Validation Result	16
6. SAR Evaluation Procedures	17
7. EUT Test Position	18
7.1 Cheek Position	18
7.2 Tilt Position	19
7.3 Body-worn Position Conditions	19
8. Uncertainty	20
8.1 Measurement Uncertainty	20
9. Conducted Power Measurement	21
9.1 Test Result	21
9.2 Tune up power	60
10. Test Photos and Results	63
10.1 EUT Photos	63
10.2 Setup Photos	67
11. SAR Result Summary	73
11.1 Head SAR	73
11.2 Body SAR	78
11.3 Simultaneous Multi-band Transmission Evaluation	85
12. Equipment List	91
Appendix A. System Validation Plot	92
Appendix B. SAR Test Plots	124
Appendix C. Probe Calibration and Dipole Calibration Report	214



Revision History

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



TEST REPORT CERTIFICATION

Applicant: Shanghai Unihertz E-Commerce Co., Ltd
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Shenzhen City,China

Product Name: 5G Smart phone

Trademark: 8849, Unihertz, iHunt

Model Name: Titan 2

Sample number: LGT2506163

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
BS EN 50360:2017+A1:2023; BS EN 50566:2017+A1:2023; BS EN IEC/IEEE 62209-1528:2021; BS EN 50663:2017; BS EN 62479:2010	PASS

Prepared by:

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1. General Information

1.1 EUT Description

Product Name:	5G Smart phone
Trademark:	8849, Unihertz, iHunt
Model Name:	Titan 2
Series Model:	N/A
Model Difference:	N/A
Hardware Version	N/A
Software Version:	N/A
Frequency Range:	GSM 900: 880 ~ 915 MHz (TX), 925 ~ 960 MHz (RX) GSM 1800: 1710 ~ 1785 MHz (TX), 1805 ~ 1880 MHz (RX) WCDMA2100: 1920-1980 MHz (TX), 2110-2170 MHz (RX) WCDMA900: 880-915 MHz (TX), 925-960 MHz (RX) FDD LTE Band 1: 1920-1980 MHz (TX), 2110-2170 MHz (RX) FDD LTE Band 3: 1710-1785 MHz (TX), 1805-1880 MHz (RX) FDD LTE Band 7: 2500-2570 MHz (TX), 2620-2690 MHz (RX) FDD LTE Band 8: 880-915 MHz (TX), 925-960 MHz (RX) FDD LTE Band 20: 832-862 MHz (TX), 791-821 MHz (RX) FDD LTE Band 28: 703-736 MHz (TX), 758-791 MHz (RX) TDD LTE Band 34: 2010-2025 MHz (TRX) TDD LTE Band 38: 2570-2620 MHz (TRX) TDD LTE Band 40: 2300-2400 MHz (TRX) NR N1: 1920-1980 MHz (TX), 2110-2170 MHz (RX) NR N3: 1710-1785 MHz (TX), 1805-1880 MHz (RX) NR N7: 2500-2570 MHz (TX), 2620-2690 MHz (RX) NR N8: 880-915 MHz (TX), 925-960 MHz (RX) NR N20: 832-862 MHz (TX), 791-821 MHz (RX) NR N28: 703-736 MHz (TX), 758-791 MHz (RX) NR N38: 2570-2620 MHz (TRX) NR N40: 2300-2400 MHz (TRX) NR N41: 2500-2690 MHz (TRX) NR N77: 3400-4200 MHz (TRX) NR N78: 3400-3800 MHz (TRX) NSA B8+N78 WLAN 802.11b/g/n20/ax20: 2412 to 2472 MHz WLAN 802.11n40/ax40: 2422 to 2462 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5150 to 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5250 to 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5470 to 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80/ax80: 5725 to 5850 MHz Bluetooth: 2402 MHz to 2480 MHz GPS: 1575.42MHz FM: 87.5 MHz to 108 MHz BDS: 1561.098MHz GLONASS: 1602 MHz GALILEO: 1575.42 MHz NFC: 13.56MHz



Max. Reported SAR (10g):	Mode	Head (W/kg)	Body Worn and Hotspot(W/Kg)
	GSM 900	0.379	1.098
	GSM 1800	0.083	0.871
	WCDMA Band I	0.264	0.886
	WCDMA Band VIII	0.338	0.346
	LTE Band 1	0.167	0.594
	LTE Band 3	0.093	0.874
	LTE Band 7	0.320	0.611
	LTE Band 8	0.291	0.284
	LTE Band 20	0.188	0.286
	LTE Band 28	0.109	0.171
	LTE Band 34	0.472	1.128
	LTE Band 38	0.213	0.440
	LTE Band 40	0.261	0.614
	2.4GHz WLAN ANT 1	0.070	0.136
	2.4GHz WLAN ANT 2	0.111	0.118
	2.4GHz WLAN MIMO	0.106	0.179
	5.2GHz WLAN ANT 1	0.162	0.213
	5.2GHz WLAN ANT 2	0.203	0.204
	5.2GHz WLAN MIMO	0.119	0.150
	5.3GHz WLAN ANT 1	0.162	0.241
	5.3GHz WLAN ANT 2	0.159	0.209
	5.3GHz WLAN MIMO	0.318	0.553
	5.6GHz WLAN ANT 1	0.202	0.316
	5.6GHz WLAN ANT 2	0.187	0.205
	5.6GHz WLAN MIMO	0.260	0.315
	5.8GHz WLAN ANT 1	0.263	0.335
	5.8GHz WLAN ANT 2	0.233	0.234
	5.8GHz WLAN MIMO	0.211	0.352
	NR SA N1	0.900	0.867
	NR SA N3	0.800	0.936
	NR SA N7	0.323	0.626
	NR SA N8	0.108	0.265
	NR SA N20	0.192	0.584
	NR SA N28	0.070	0.120
	NR SA N38	0.316	0.691
	NR SA N40	0.556	1.077
	NR SA N41	0.460	0.781
	NR SA N77	0.240	1.291
	NR SA N78	0.161	0.776
	DC_A8_N78	0.452	1.060
	BT	0.095	0.090
	Limit	2.0 W/kg	



Battery:	Rated Voltage:3.87V Capacity: 5050mAh	
Description test modes:	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested	
Modulation Mode:	GSM	GMSK for GSM/GPRS
	WCDMA	QPSK; HSDPA: QPSK/16QAM; HSUPA: BPSK
	LTE	QPSK/16QAM
	NR	DFT-s-OFDM, CP-OFDM ($\pi/2$ shift BPSK, QPSK, 16QAM, 64QAM, 256QAM)
	2.4G WLAN	802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 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	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8DPSK
	BLE	GFSK
	GPS	BPSK
	FM	FM
	BDS	QPSK
	GLONASS	FDMA
	GALILEO	CBOC
	NFC	ASK
Power Control Level:	GSM900: 5, DCS1800: 0	
Power Class:	GSM900: 4, GSM1800: 1	
Antenna Specification:	GSM/WCDMA/LTE/NR: PIFA Antenna Bluetooth: PIFA Antenna WLAN: PIFA Antenna FM: Integrated Antenna GNSS: PIFA Antenna NFC: Coil Antenna	
Operating Mode:	Maximum continuous output	



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	BS EN 50360:2017+ A1:2023	Product standard to demonstrate the compliance of wireless communication devices, with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 300 MHz to 6 GHz: devices used next to the ear
2	BS EN 50566:2017+ A1:2023	Product standard to demonstrate the compliance of wireless communication devices with the basic restrictions and exposure limit values related to human exposure to electromagnetic fields in the frequency range from 30 MHz to 6 GHz: hand-held and body mounted devices in close proximity to the human body
3	BS EN IEC/IEEE 62209-1528: 2021	Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)
4	BS EN 50663: 2017	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz to 300GHz)
5	BS EN 62479: 2010	Assessment of the compliance of low-power electronic and electrical equipment with the restrictions related to human exposure to electromagnetic fields (10MHz to 300 GHz)

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

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

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

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

<u>Whole-Body</u>	<u>Partial-Body</u>	<u>Hands, Wrists, Feet and Ankles</u>
0.08	2.0	4.0

NOTE: **Whole-Body SAR** is averaged over the entire body, **partial-body SAR** is averaged over any 10 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 2.0 W/kg
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3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

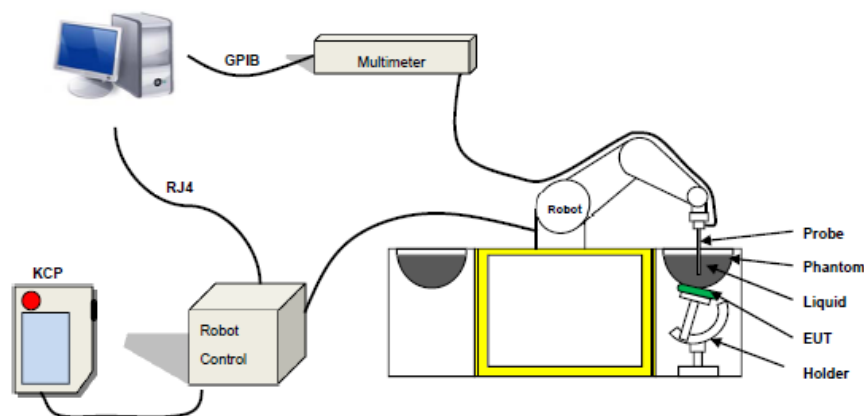
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

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

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 04/22 EPGO364 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.

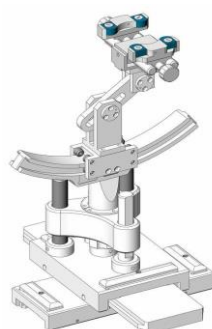


Figure-SN 06/22 SAM 148



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 10 g averaging, the maximum weighting coefficient for SAR is 0,5.

EN 62209 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

The head and body tissue dielectric parameters recommended by the EN 62209 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]					
2025-07-14	20.8	60	750	20.4	Permittivity	41.90	41.77	-0.31	±10
					Conductivity	0.89	0.85	-4.49	±10
2025-07-12	23.1	49	835	22.7	Permittivity	41.50	41.07	-1.04	±10
					Conductivity	0.90	0.93	3.33	±10
2025-07-17	20.7	53	835	20.4	Permittivity	41.50	40.87	-1.52	±10
					Conductivity	0.90	0.87	-3.33	±10
2025-07-15	23.2	40	1800	22.9	Permittivity	40.00	40.11	0.27	±10
					Conductivity	1.40	1.34	-4.29	±10
2025-07-14	20.8	60	1900	20.4	Permittivity	40.00	40.29	0.72	±10
					Conductivity	1.40	1.35	-3.57	±10
2025-07-17	20.7	53	2000	20.4	Permittivity	40.00	40.80	2.00	±10
					Conductivity	1.40	1.42	1.43	±10
2025-07-15	23.2	40	2300	22.9	Permittivity	39.47	40.39	2.34	±10
					Conductivity	1.67	1.67	0.20	±10
2025-07-13	21.8	60	2450	21.5	Permittivity	39.20	40.07	2.22	±10
					Conductivity	1.80	1.77	-1.67	±10
2025-07-06	22.2	49	2600	21.9	Permittivity	39.00	39.38	0.97	±10
					Conductivity	1.96	1.95	-0.51	±10
2025-07-16	21.8	52	3500	21.5	Permittivity	37.90	38.15	0.66	±10
					Conductivity	2.91	3.03	4.12	±10
2025-07-16	21.9	52	3700	21.5	Permittivity	37.67	37.75	0.20	±10
					Conductivity	3.12	3.14	0.79	±10
2025-07-16	21.9	52	4200	21.7	Permittivity	37.11	37.51	1.09	±10
					Conductivity	3.63	3.69	1.69	±10
2025-07-18	22.7	53	5200	22.4	Permittivity	36.00	36.04	0.11	±10
					Conductivity	4.66	4.64	-0.43	±10
2025-07-22	22.6	58	5400	22.3	Permittivity	35.80	36.48	1.90	±10
					Conductivity	4.86	4.84	-0.41	±10
2025-07-19	21.7	42	5600	21.5	Permittivity	35.55	35.72	0.48	±10
					Conductivity	5.07	5.12	1.09	±10
2025-07-20	23	49	5800	22.7	Permittivity	35.30	36.00	1.98	±10
					Conductivity	5.27	5.29	0.38	±10

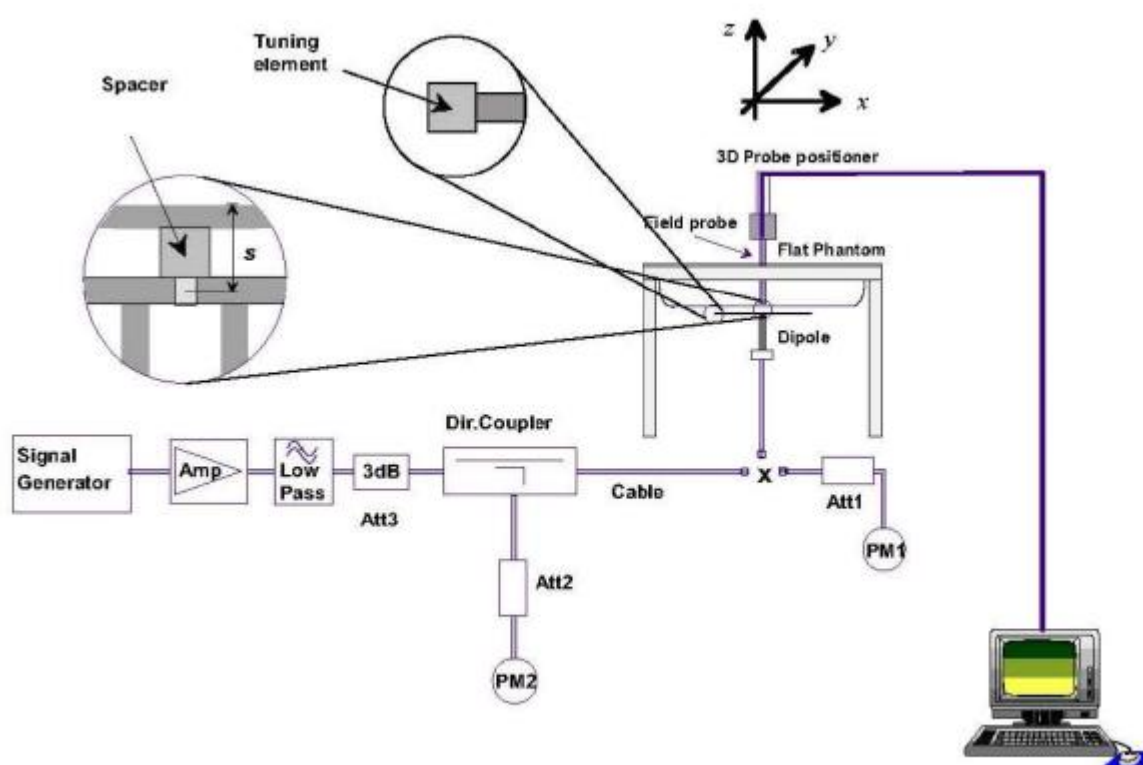


5. SAR System Validation

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.(MHz)	Power(mW)	Power drift(%)	Tested Value (W/Kg)	Normalized SAR(W/kg)	Target SAR10g(W/kg)	Tolerance(%)
2025-07-14	750	100	2.14	0.517	5.17	5.42	-4.61
2025-07-12	835	100	-3.53	0.601	6.01	6.19	-2.91
2025-07-17	835	100	-0.73	0.595	5.95	6.19	-3.88
2025-07-15	1800	100	2.66	2.079	20.79	20.46	1.61
2025-07-14	1900	100	-1.78	2.060	20.60	20.61	-0.05
2025-07-17	2000	100	-2.43	2.073	20.73	20.86	-0.62
2025-07-15	2300	100	0.37	2.327	23.27	23.06	0.91
2025-07-13	2450	100	0.07	2.403	24.03	23.73	1.26
2025-07-06	2600	100	-2.14	2.401	24.01	24.13	-0.50
2025-07-16	3500	100	2.71	2.538	25.38	25.32	0.24
2025-07-16	3700	100	-0.29	2.560	25.60	25.32	1.11
2025-07-16	4200	100	-0.30	2.208	22.08	21.86	1.01
2025-07-18	5200	100	-0.90	2.288	22.88	23.24	-1.55
2025-07-22	5400	100	-1.32	2.456	24.56	24.22	1.40
2025-07-19	5600	100	0.17	2.343	23.43	23.37	0.26
2025-07-20	5800	100	2.26	2.365	23.65	23.73	-0.34



6. SAR Evaluation Procedures

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

- 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:

For handsets operating above 300 MHz evaluated with the homogeneous head model, the SAR distribution is measured on a two-dimensional coarse grid at a fixed separation distance of less than 8 mm from the surface of the phantom shell. The scan region should cover all areas that are exposed and encompassed by the projection of the handset. In order to maintain a fixed distance of less than 8 mm from the surface to within ± 1 mm, as required by the measurement protocol, the exact shape and dimensions of the phantom inner surface shall be known, pre-calibrated, or preferably detected during the SAR measurement with a mechanical or optical surface-detection mechanism that meets the probe positioning requirements. This evaluation technique determines the maximum spacing between the grid points, i.e., it has been found that a 20 mm $\times$ 20 mm grid is usually sufficient to achieve the required precision if two staggered one-dimensional cubic splines are used to locate the maximum SAR location;.

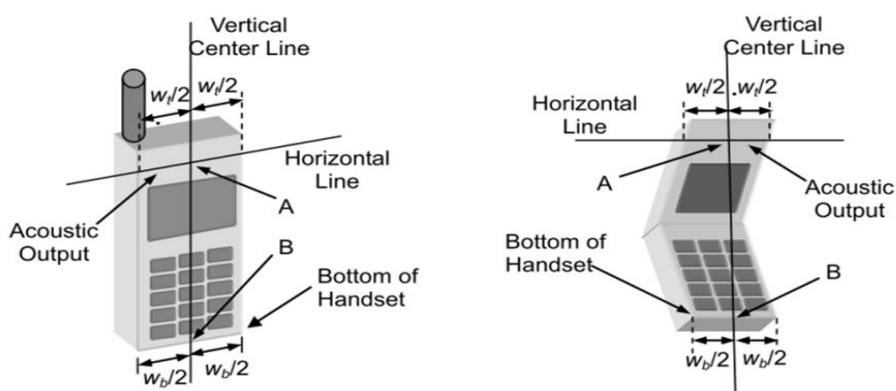
The maximum local SAR is evaluated on an interpolated grid at 1 mm to 2 mm resolution during the zoom scan. A zoom-scan volume of 32 mm x 32 mm x 30 mm, consisting of 5 x 5 x 7 points with the center at the peak SAR location determined during the area scan, can be chosen. Although a scan resolution of 8 mm is sufficient for directions parallel to the surface, 5 mm is needed in the direction normal to the surface of the phantom to achieve the required extrapolation accuracy.

7. EUT Test Position

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

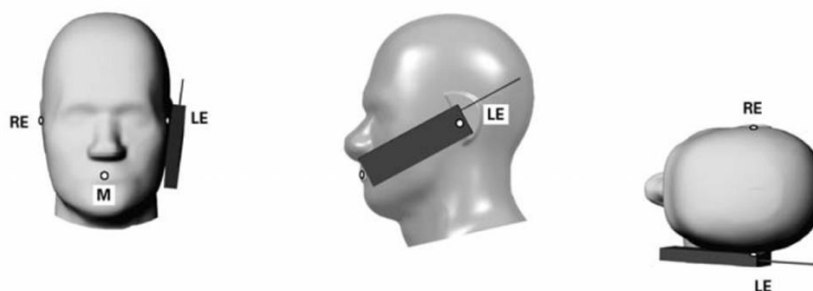
Define Two Imaginary Lines On The Handset:

- 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.



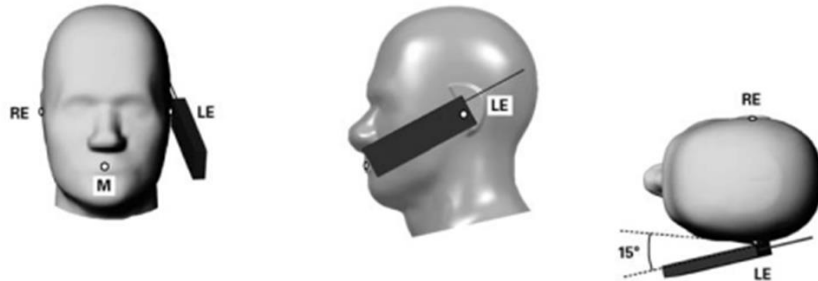
7.1 Cheek Position

- 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 earpiece with the line RE-LE.
- 2) To move the device towards the phantom with the earpiece 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



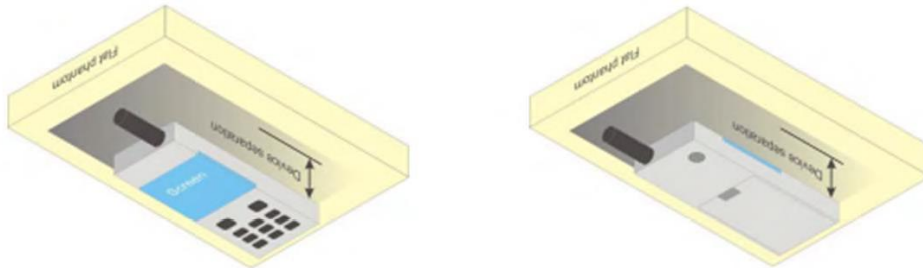
7.2 Tilt Position

- (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.



7.3 Body-worn Position Conditions

- 1) To position the EUT parallel to the phantom surface.
- 2) To adjust the EUT parallel to the flat phantom.
- 3) To adjust the distance between the EUT surface and the flat phantom to 5mm.





8. Uncertainty

8.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in EN/IEC IEC 62209-1528. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Symbol	Uncertainty Component	Prob. Dist.	Unc. $a(x_i)$	Div. q_i	$u(x_i) = a(x_i)/q_i$	C_i	$u(y) = C_i * u(x_i)$	v_i
Measurement system errors								
CF	Probe calibration	N ($k = 2$)	5.8	2	2.90	1	2.90	∞
CF _{drift}	Probe calibration drift	R	0.12	$\sqrt{3}$	0.07	1	0.07	∞
LIN	Probe linearity and detection limit	R	1.91	$\sqrt{3}$	1.10	1	1.10	∞
BBS	Broadband signal	R	0.15	$\sqrt{3}$	0.09	1	0.09	∞
ISO	Probe isotropy	R	0.18	$\sqrt{3}$	0.10	1	0.10	∞
DAE	Other probe and data acquisition errors	N	2.7	1	2.70	1	2.70	∞
AMB	RF ambient and noise	N	1.73	1	1.73	1	1.73	∞
Δ_{xyz}	Probe positioning errors	N	0.81	1	0.81	$2/\delta$	0.81	
DAT	Data processing errors	N	2.5	1	2.50	1	2.50	∞
Phantom and device (DUT or validation antenna) errors								
LIQ(σ)	Measurement of phantom conductivity(σ)	N	4.4	1	4.4	$c\epsilon, c\sigma$	4.40	∞
LIQ(T_c)	Temperature effects (medium)	R	2.9	$\sqrt{3}$	1.67	$c\epsilon, c\sigma$	1.67	∞
EPS	Shell permittivity	R	3.4	$\sqrt{3}$	1.96	See 8.4.2.3	0.49	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	N	0.8	1	0.8	2	1.60	∞
D _{xyz}	Repeatability of positioning the DUT or source against the phantom	N	1.5	1	1.5	1	1.50	5
H	Device holder effects	N	3	1	3	1	3.00	
MOD	Effect of operating mode on probe sensitivity	R	3.59	$\sqrt{3}$	2.07	1	2.07	∞
TAS	Time-average SAR	R	1.73	$\sqrt{3}$	1.00	1	1.00	∞
RF _{drift}	Variation in SAR due to drift in output of DUT	N	2.89	1	2.89	1	2.89	
VAL	Validation antenna uncertainty (validation measurement only)	N	1.45	1	1.45	1	1.45	
P _{in}	Uncertainty in accepted power (validation measurement only)	N	2.5	1	2.5	1	2.50	
Corrections to the SAR result (if applied)								
C(ϵ', σ)	Phantom deviation from target (ϵ', σ)	N	2.31	1	2.31	1	2.31	
C(R)	SAR scaling	R	1.15	$\sqrt{3}$	0.66	1	0.66	
u(Δ SAR)	Combined uncertainty						9.53	
U	Expanded uncertainty and effective degrees of freedom					U =	19.06	



9. Conducted Power Measurement

9.1 Test Result

RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	62	124	512	700	885
Frequency (MHz)	880.2	902.4	914.8	1710.2	1747.8	1784.8
GSM (GMSK, 1-Slot)	31.41	31.39	31.03	28.93	28.97	29.26
GPRS (GMSK, 1-Slot)	26.51	26.54	26.26	24.20	24.23	24.53
GPRS (GMSK, 2-Slot)	27.35	27.37	27.07	24.58	24.63	24.90
GPRS (GMSK, 3-Slot)	27.36	27.38	27.06	24.59	24.62	24.91
GPRS (GMSK, 4-Slot)	27.34	27.37	27.06	24.58	24.62	24.91
Remark: GPRS, CS4 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- RF Output Power (dBm)						
Band	GSM 900			DCS 1800		
Channel	975	62	124	512	700	885
Frequency (MHz)	880.2	902.4	914.8	1710.2	1747.8	1784.8
GSM (GMSK, 1-Slot)	22.38	22.36	22.00	19.90	19.94	20.23
GPRS (GMSK, 1-Slot)	17.48	17.51	17.23	15.17	15.20	15.50
GPRS (GMSK, 2-Slot)	21.33	21.35	21.05	18.56	18.61	18.88
GPRS (GMSK, 3-Slot)	23.10	23.12	22.80	20.33	20.36	20.65
GPRS (GMSK, 4-Slot)	24.33	24.36	24.05	21.57	21.61	21.90
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

As the SAR body tests for WCDMA, we established the radio link through call processing. The maximum output power were verified on high, middle and low channels for each test band according to 3GPP TS 34.121 with the following configuration: a 12.2kbps RMC, 64,144,384 kbps RMC with TPC set to all “all ‘1’s”b Test loop Mode 1

The following procedures had been used to prepare the EUT for the SAR test.

Band	WCDMA Band I			WCDMA Band VIII		
Channel	9612	9750	9888	2712	2787	2863
Frequency (MHz)	1922.4	1950	1977.6	882.4	897.4	912.6
RMC 12.2Kbps	24.47	24.44	24.37	24.25	24.19	24.14
HSDPA Subtest-1	23.48	23.47	23.40	23.27	23.27	23.22
HSDPA Subtest-2	22.89	22.84	22.76	22.89	22.89	22.61
HSDPA Subtest-3	21.56	21.93	21.96	21.85	21.78	21.50
HSDPA Subtest-4	21.81	22.20	21.79	21.82	21.84	21.71
HSUPA Subtest-1	23.17	23.25	23.18	22.57	23.08	23.02
HSUPA Subtest-2	23.25	23.39	23.32	23.22	23.21	23.10
HSUPA Subtest-3	22.12	21.90	22.07	21.88	22.15	21.84
HSUPA Subtest-4	23.51	23.50	23.43	23.30	23.23	23.19
HSUPA Subtest-5	22.81	22.80	22.69	21.95	22.74	22.51



WLAN (2.4G band)

- The client supplied a special driver to program the EUT, allowing it to continually transmit the specified maximum power and change the channel frequency.
- Maximum conducted power was measured by replacing the antenna with an adapter for conductive measurement.
- The conducted power was measured at the high, middle and low channel frequency before and after the SAR measurement.
- During SAR test, the highest output channel per band measured first, and then if necessary, the other channels were measured according to the normal procedures.

Output power (dBm):

2.4GWIFI					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11b	1	2412	14.97	14.78	N/A
	7	2442	15.78	15.22	N/A
	13	2472	14.87	14.4	N/A
802.11g	1	2412	13.76	12.82	N/A
	7	2442	14.22	13.42	N/A
	13	2472	13.25	12.47	N/A
802.11n-HT20	1	2412	13.73	12.84	12.65
	7	2442	14.38	13.32	14.03
	13	2472	13.28	12.68	12.66
802.11n-HT40	3	2422	14.08	12.92	13.24
	7	2442	14.25	13.3	13.17
	11	2462	13.76	12.96	13.22
802.11ax-HE20	1	2412	13.97	13.09	13.45
	7	2442	14.12	13.8	14.09
	13	2472	13.39	12.6	13.04
802.11ax-HE40	3	2422	14.09	13.45	13.41
	7	2442	14.34	13.44	13.55
	11	2462	13.95	13.3	13.66

5.2GHz WLAN

5.2G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	36	5180	9.92	10.18	N/A
802.11n-HT20	36	5180	9.98	10.05	11.95
802.11n-HT40	38	5190	10.12	10.15	11.21
802.11ac80	42	5210	10	9.4	10.61
802.11ax80	42	5210	10.18	9.88	10.89



5.3GHz WLAN

5.3G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	64	5320	9.71	9.78	N/A
802.11n-HT20	64	5320	9.64	9.7	11.78
802.11n-HT40	62	5310	10.07	9.84	12
802.11ac80	58	5290	9.83	9.15	10.76
802.11ax80	58	5290	10.12	9.69	10.99

5.6G WLAN

5.6G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	100	5500	12.03	10.95	N/A
	140	5700	11.12	9.53	N/A
802.11n-HT20	100	5500	10.83	9.82	11.68
	140	5700	10.06	8.53	11.45
802.11n-HT40	102	5510	11.17	10.11	11.96
	134	5670	10.01	9.34	10.95
802.11ac80	106	5530	10.66	9.89	11.57
	122	5610	10.23	9.46	11.05
802.11ax80	106	5530	11.04	10.24	11.84
	122	5610	10.55	9.63	11.31

5.8G WLAN

5.8G WLAN					
Mode	Channel Number	Frequency (MHz)	ANT 1	ANT 2	MIMO
			Output Power (dBm)	Output Power (dBm)	Output Power (dBm)
802.11a	149	5745	13.34	12.11	N/A
	157	5785	13.22	12.45	N/A
	165	5825	13.11	12.35	N/A
802.11n-HT20	149	5745	12.17	11.02	11.57
	157	5785	12.19	11.52	11.91
	165	5825	11.94	11.24	11.72
802.11n-HT40	151	5755	12.42	11.17	12.01
	159	5795	12.16	11.54	12.09
802.11ac80	155	5775	12.11	11.23	11.85
802.11ax80	155	5775	12.44	11.53	12.19



Bluetooth

BT		
Mode	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	8.19	6.59
QPSK(2Mbps)	5.5	3.55
8DPSK(3Mbps)	5.5	3.55

BLE

BLE		
Mode	Output Power (dBm)	Output Power (mW)
GFSK(1Mbps)	7.56	5.70
	7.87	6.12
	5.91	3.90
GFSK(2Mbps)	7.57	5.71
	8.07	6.41
	6.15	4.12

NFC

Mode	E-Filed(dBuV/m)	Output Power (dBm)	Output Power (mW)
NFC	51.16	-44.14	0.00004

Note: According to EN50663 and EN 62479, the available antenna power of this EUT BT is 8.19dBm (6.59mW), NFC is -44.14dBm (0.00004mW), this power is less than the defined low power exclusion level (Pmax: 20 mW), so BT and NFC and do not need stand-alone SAR.



LTE output list

Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band1	5	18025	1	#0	QPSK	24.33	PASS
Band1	5	18025	1	#Max	QPSK	24.38	PASS
Band1	5	18025	8	#0	QPSK	24.33	PASS
Band1	5	18025	8	#Max	QPSK	24.31	PASS
Band1	5	18300	1	#0	QPSK	24.35	PASS
Band1	5	18300	1	#Max	QPSK	24.4	PASS
Band1	5	18300	8	#0	QPSK	24.34	PASS
Band1	5	18300	8	#Max	QPSK	24.38	PASS
Band1	5	18575	1	#0	QPSK	24.22	PASS
Band1	5	18575	1	#Max	QPSK	24.22	PASS
Band1	5	18575	8	#0	QPSK	24.24	PASS
Band1	5	18575	8	#Max	QPSK	24.26	PASS
Band1	20	18100	1	#0	QPSK	24.37	PASS
Band1	20	18100	1	#Max	QPSK	24.42	PASS
Band1	20	18100	18	#0	QPSK	24.32	PASS
Band1	20	18100	18	#Max	QPSK	24.35	PASS
Band1	20	18300	1	#0	QPSK	24.44	PASS
Band1	20	18300	1	#Max	QPSK	24.53	PASS
Band1	20	18300	18	#0	QPSK	24.35	PASS
Band1	20	18300	18	#Max	QPSK	24.4	PASS
Band1	20	18500	1	#0	QPSK	24.33	PASS
Band1	20	18500	1	#Max	QPSK	24.32	PASS
Band1	20	18500	18	#0	QPSK	24.34	PASS
Band1	20	18500	18	#Max	QPSK	24.35	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band3	1.4	19207	1	#0	QPSK	23.86	PASS
Band3	1.4	19207	1	#Max	QPSK	23.87	PASS
Band3	1.4	19207	5	#0	QPSK	23.78	PASS
Band3	1.4	19207	5	#Max	QPSK	23.76	PASS
Band3	1.4	19575	1	#0	QPSK	23.87	PASS
Band3	1.4	19575	1	#Max	QPSK	23.88	PASS
Band3	1.4	19575	5	#0	QPSK	23.87	PASS
Band3	1.4	19575	5	#Max	QPSK	23.85	PASS
Band3	1.4	19943	1	#0	QPSK	24.24	PASS
Band3	1.4	19943	1	#Max	QPSK	24.24	PASS
Band3	1.4	19943	5	#0	QPSK	24.13	PASS
Band3	1.4	19943	5	#Max	QPSK	24.14	PASS
Band3	5	19225	1	#0	QPSK	23.86	PASS
Band3	5	19225	1	#Max	QPSK	23.88	PASS
Band3	5	19225	8	#0	QPSK	23.85	PASS
Band3	5	19225	8	#Max	QPSK	23.86	PASS
Band3	5	19575	1	#0	QPSK	23.91	PASS
Band3	5	19575	1	#Max	QPSK	24.03	PASS
Band3	5	19575	8	#0	QPSK	23.95	PASS
Band3	5	19575	8	#Max	QPSK	24	PASS
Band3	5	19925	1	#0	QPSK	24.24	PASS
Band3	5	19925	1	#Max	QPSK	24.28	PASS
Band3	5	19925	8	#0	QPSK	24.29	PASS
Band3	5	19925	8	#Max	QPSK	24.35	PASS
Band3	20	19300	1	#0	QPSK	23.81	PASS
Band3	20	19300	1	#Max	QPSK	23.77	PASS
Band3	20	19300	18	#0	QPSK	23.85	PASS
Band3	20	19300	18	#Max	QPSK	23.71	PASS
Band3	20	19575	1	#0	QPSK	23.92	PASS
Band3	20	19575	1	#Max	QPSK	24.09	PASS
Band3	20	19575	18	#0	QPSK	23.86	PASS
Band3	20	19575	18	#Max	QPSK	24	PASS
Band3	20	19850	1	#0	QPSK	23.96	PASS
Band3	20	19850	1	#Max	QPSK	24.42	PASS
Band3	20	19850	18	#0	QPSK	24	PASS
Band3	20	19850	18	#Max	QPSK	24.37	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band7	5	20775	1	#0	QPSK	23.81	PASS
Band7	5	20775	1	#Max	QPSK	23.75	PASS
Band7	5	20775	8	#0	QPSK	23.78	PASS
Band7	5	20775	8	#Max	QPSK	23.78	PASS
Band7	5	21100	1	#0	QPSK	23.44	PASS
Band7	5	21100	1	#Max	QPSK	23.44	PASS
Band7	5	21100	8	#0	QPSK	23.5	PASS
Band7	5	21100	8	#Max	QPSK	23.47	PASS
Band7	5	21425	1	#0	QPSK	23.45	PASS
Band7	5	21425	1	#Max	QPSK	23.48	PASS
Band7	5	21425	8	#0	QPSK	23.44	PASS
Band7	5	21425	8	#Max	QPSK	23.46	PASS
Band7	20	20850	1	#0	QPSK	23.79	PASS
Band7	20	20850	1	#Max	QPSK	23.95	PASS
Band7	20	20850	18	#0	QPSK	23.76	PASS
Band7	20	20850	18	#Max	QPSK	23.94	PASS
Band7	20	21100	1	#0	QPSK	23.58	PASS
Band7	20	21100	1	#Max	QPSK	23.64	PASS
Band7	20	21100	18	#0	QPSK	23.52	PASS
Band7	20	21100	18	#Max	QPSK	23.5	PASS
Band7	20	21350	1	#0	QPSK	23.33	PASS
Band7	20	21350	1	#Max	QPSK	23.5	PASS
Band7	20	21350	18	#0	QPSK	23.33	PASS
Band7	20	21350	18	#Max	QPSK	23.5	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band8	1.4	21457	1	#0	QPSK	24.34	PASS
Band8	1.4	21457	1	#Max	QPSK	24.35	PASS
Band8	1.4	21457	5	#0	QPSK	24.25	PASS
Band8	1.4	21457	5	#Max	QPSK	24.24	PASS
Band8	1.4	21625	1	#0	QPSK	24.23	PASS
Band8	1.4	21625	1	#Max	QPSK	24.22	PASS
Band8	1.4	21625	5	#0	QPSK	24.21	PASS
Band8	1.4	21625	5	#Max	QPSK	24.23	PASS
Band8	1.4	21793	1	#0	QPSK	24.11	PASS
Band8	1.4	21793	1	#Max	QPSK	24.14	PASS
Band8	1.4	21793	5	#0	QPSK	24.08	PASS
Band8	1.4	21793	5	#Max	QPSK	24.07	PASS
Band8	5	21475	1	#0	QPSK	24.33	PASS
Band8	5	21475	1	#Max	QPSK	24.4	PASS
Band8	5	21475	8	#0	QPSK	24.34	PASS
Band8	5	21475	8	#Max	QPSK	24.37	PASS
Band8	5	21625	1	#0	QPSK	24.32	PASS
Band8	5	21625	1	#Max	QPSK	24.29	PASS
Band8	5	21625	8	#0	QPSK	24.34	PASS
Band8	5	21625	8	#Max	QPSK	24.31	PASS
Band8	5	21775	1	#0	QPSK	24.13	PASS
Band8	5	21775	1	#Max	QPSK	24.12	PASS
Band8	5	21775	8	#0	QPSK	24.18	PASS
Band8	5	21775	8	#Max	QPSK	24.2	PASS
Band8	10	21500	1	#0	QPSK	24.42	PASS
Band8	10	21500	1	#Max	QPSK	24.46	PASS
Band8	10	21500	12	#0	QPSK	24.36	PASS
Band8	10	21500	12	#Max	QPSK	24.42	PASS
Band8	10	21625	1	#0	QPSK	24.38	PASS
Band8	10	21625	1	#Max	QPSK	24.41	PASS
Band8	10	21625	12	#0	QPSK	24.39	PASS
Band8	10	21625	12	#Max	QPSK	24.42	PASS
Band8	10	21750	1	#0	QPSK	24.39	PASS
Band8	10	21750	1	#Max	QPSK	24.33	PASS
Band8	10	21750	12	#0	QPSK	24.31	PASS
Band8	10	21750	12	#Max	QPSK	24.27	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band20	5	24175	1	#0	QPSK	24.19	PASS
Band20	5	24175	1	#Max	QPSK	24.33	PASS
Band20	5	24175	8	#0	QPSK	24.21	PASS
Band20	5	24175	8	#Max	QPSK	24.29	PASS
Band20	5	24300	1	#0	QPSK	24.35	PASS
Band20	5	24300	1	#Max	QPSK	24.31	PASS
Band20	5	24300	8	#0	QPSK	24.38	PASS
Band20	5	24300	8	#Max	QPSK	24.4	PASS
Band20	5	24425	1	#0	QPSK	24.31	PASS
Band20	5	24425	1	#Max	QPSK	24.25	PASS
Band20	5	24425	8	#0	QPSK	24.24	PASS
Band20	5	24425	8	#Max	QPSK	24.22	PASS
Band20	20	24250	1	#0	QPSK	24.22	PASS
Band20	20	24250	1	#Max	QPSK	24.4	PASS
Band20	20	24250	18	#0	QPSK	24.2	PASS
Band20	20	24250	18	#Max	QPSK	24.39	PASS
Band20	20	24300	1	#0	QPSK	24.42	PASS
Band20	20	24300	1	#Max	QPSK	24.36	PASS
Band20	20	24300	18	#0	QPSK	24.31	PASS
Band20	20	24300	18	#Max	QPSK	24.3	PASS
Band20	20	24350	1	#0	QPSK	24.32	PASS
Band20	20	24350	1	#Max	QPSK	24.26	PASS
Band20	20	24350	18	#0	QPSK	24.33	PASS
Band20	20	24350	18	#Max	QPSK	24.26	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band28	3	27225	1	#0	QPSK	23.67	PASS
Band28	3	27225	1	#Max	QPSK	23.77	PASS
Band28	3	27225	4	#0	QPSK	23.66	PASS
Band28	3	27225	4	#Max	QPSK	23.81	PASS
Band28	3	27375	1	#0	QPSK	23.97	PASS
Band28	3	27375	1	#Max	QPSK	23.93	PASS
Band28	3	27375	4	#0	QPSK	24.02	PASS
Band28	3	27375	4	#Max	QPSK	23.98	PASS
Band28	3	27525	1	#0	QPSK	23.64	PASS
Band28	3	27525	1	#Max	QPSK	23.68	PASS
Band28	3	27525	4	#0	QPSK	23.61	PASS
Band28	3	27525	4	#Max	QPSK	23.59	PASS
Band28	5	27235	1	#0	QPSK	23.81	PASS
Band28	5	27235	1	#Max	QPSK	23.99	PASS
Band28	5	27235	8	#0	QPSK	23.79	PASS
Band28	5	27235	8	#Max	QPSK	23.95	PASS
Band28	5	27375	1	#0	QPSK	24.02	PASS
Band28	5	27375	1	#Max	QPSK	24.05	PASS
Band28	5	27375	8	#0	QPSK	24.04	PASS
Band28	5	27375	8	#Max	QPSK	24.04	PASS
Band28	5	27515	1	#0	QPSK	23.69	PASS
Band28	5	27515	1	#Max	QPSK	23.69	PASS
Band28	5	27515	8	#0	QPSK	23.75	PASS
Band28	5	27515	8	#Max	QPSK	23.7	PASS
Band28	20	27310	1	#0	QPSK	23.84	PASS
Band28	20	27310	1	#Max	QPSK	24.13	PASS
Band28	20	27310	18	#0	QPSK	23.79	PASS
Band28	20	27310	18	#Max	QPSK	24.09	PASS
Band28	20	27375	1	#0	QPSK	24.00	PASS
Band28	20	27375	1	#Max	QPSK	23.99	PASS
Band28	20	27375	18	#0	QPSK	23.91	PASS
Band28	20	27375	18	#Max	QPSK	23.92	PASS
Band28	20	27440	1	#0	QPSK	24.01	PASS
Band28	20	27440	1	#Max	QPSK	23.78	PASS
Band28	20	27440	18	#0	QPSK	23.98	PASS
Band28	20	27440	18	#Max	QPSK	23.73	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band34	5	36225	1	#0	QPSK	24.29	PASS
Band34	5	36225	1	#Max	QPSK	24.36	PASS
Band34	5	36225	8	#0	QPSK	24.16	PASS
Band34	5	36225	8	#Max	QPSK	24.17	PASS
Band34	5	36275	1	#0	QPSK	24.17	PASS
Band34	5	36275	1	#Max	QPSK	24.21	PASS
Band34	5	36275	8	#0	QPSK	24.16	PASS
Band34	5	36275	8	#Max	QPSK	24.16	PASS
Band34	5	36325	1	#0	QPSK	24.13	PASS
Band34	5	36325	1	#Max	QPSK	24.15	PASS
Band34	5	36325	8	#0	QPSK	24.15	PASS
Band34	5	36325	8	#Max	QPSK	24.15	PASS
Band34	15	36275	1	#0	QPSK	24.48	PASS
Band34	15	36275	1	#Max	QPSK	24.53	PASS
Band34	15	36275	16	#0	QPSK	24.51	PASS
Band34	15	36275	16	#Max	QPSK	24.51	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band38	5	37775	1	#0	QPSK	24.57	PASS
Band38	5	37775	1	#Max	QPSK	24.63	PASS
Band38	5	37775	8	#0	QPSK	24.44	PASS
Band38	5	37775	8	#Max	QPSK	24.42	PASS
Band38	5	38000	1	#0	QPSK	24.87	PASS
Band38	5	38000	1	#Max	QPSK	25.07	PASS
Band38	5	38000	8	#0	QPSK	24.93	PASS
Band38	5	38000	8	#Max	QPSK	25.05	PASS
Band38	5	38225	1	#0	QPSK	25.17	PASS
Band38	5	38225	1	#Max	QPSK	25.16	PASS
Band38	5	38225	8	#0	QPSK	25.21	PASS
Band38	5	38225	8	#Max	QPSK	25.21	PASS
Band38	20	37850	1	#0	QPSK	24.52	PASS
Band38	20	37850	1	#Max	QPSK	24.66	PASS
Band38	20	37850	18	#0	QPSK	24.47	PASS
Band38	20	37850	18	#Max	QPSK	24.56	PASS
Band38	20	38000	1	#0	QPSK	24.82	PASS
Band38	20	38000	1	#Max	QPSK	25.15	PASS
Band38	20	38000	18	#0	QPSK	24.82	PASS
Band38	20	38000	18	#Max	QPSK	25.11	PASS
Band38	20	38150	1	#0	QPSK	25.14	PASS
Band38	20	38150	1	#Max	QPSK	25.18	PASS
Band38	20	38150	18	#0	QPSK	25.16	PASS
Band38	20	38150	18	#Max	QPSK	25.22	PASS



Band	Bandwidth (MHz)	UL Channel	RB Size	RB Position	Modulation	Power (dBm)	Verdict
Band40	5	38675	1	#0	QPSK	24.58	PASS
Band40	5	38675	1	#Max	QPSK	24.61	PASS
Band40	5	38675	8	#0	QPSK	24.6	PASS
Band40	5	38675	8	#Max	QPSK	24.63	PASS
Band40	5	39150	1	#0	QPSK	24.65	PASS
Band40	5	39150	1	#Max	QPSK	24.66	PASS
Band40	5	39150	8	#0	QPSK	24.66	PASS
Band40	5	39150	8	#Max	QPSK	24.69	PASS
Band40	5	39625	1	#0	QPSK	24.72	PASS
Band40	5	39625	1	#Max	QPSK	24.78	PASS
Band40	5	39625	8	#0	QPSK	24.62	PASS
Band40	5	39625	8	#Max	QPSK	24.63	PASS
Band40	20	38750	1	#0	QPSK	24.59	PASS
Band40	20	38750	1	#Max	QPSK	24.85	PASS
Band40	20	38750	18	#0	QPSK	24.63	PASS
Band40	20	38750	18	#Max	QPSK	24.82	PASS
Band40	20	39150	1	#0	QPSK	24.78	PASS
Band40	20	39150	1	#Max	QPSK	24.84	PASS
Band40	20	39150	18	#0	QPSK	24.71	PASS
Band40	20	39150	18	#Max	QPSK	24.75	PASS
Band40	20	39550	1	#0	QPSK	24.64	PASS
Band40	20	39550	1	#Max	QPSK	24.76	PASS
Band40	20	39550	18	#0	QPSK	24.65	PASS
Band40	20	39550	18	#Max	QPSK	24.76	PASS



SA output list

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n1	15	5	384500	12@6	DFT_BPSK	22.89	PASS
n1	15	5	384500	1@1	DFT_BPSK	22.77	PASS
n1	15	5	384500	1@23	DFT_BPSK	22.72	PASS
n1	15	5	384500	12@6	DFT_QPSK	22.9	PASS
n1	15	5	384500	1@1	DFT_QPSK	22.74	PASS
n1	15	5	384500	1@23	DFT_QPSK	22.68	PASS
n1	15	5	390000	12@6	DFT_BPSK	22.73	PASS
n1	15	5	390000	1@1	DFT_BPSK	22.67	PASS
n1	15	5	390000	1@23	DFT_BPSK	22.61	PASS
n1	15	5	390000	12@6	DFT_QPSK	22.75	PASS
n1	15	5	390000	1@1	DFT_QPSK	22.61	PASS
n1	15	5	390000	1@23	DFT_QPSK	22.55	PASS
n1	15	5	395500	12@6	DFT_BPSK	22.39	PASS
n1	15	5	395500	1@1	DFT_BPSK	22.27	PASS
n1	15	5	395500	1@23	DFT_BPSK	22.29	PASS
n1	15	5	395500	12@6	DFT_QPSK	22.42	PASS
n1	15	5	395500	1@1	DFT_QPSK	22.26	PASS
n1	15	5	395500	1@23	DFT_QPSK	22.23	PASS
n1	15	20	386000	50@25	DFT_BPSK	22.86	PASS
n1	15	20	386000	1@1	DFT_BPSK	22.79	PASS
n1	15	20	386000	1@104	DFT_BPSK	22.87	PASS
n1	15	20	386000	50@25	DFT_QPSK	22.87	PASS
n1	15	20	386000	1@1	DFT_QPSK	22.72	PASS
n1	15	20	386000	1@104	DFT_QPSK	22.84	PASS
n1	15	20	390000	50@25	DFT_BPSK	22.82	PASS
n1	15	20	390000	1@1	DFT_BPSK	22.75	PASS
n1	15	20	390000	1@104	DFT_BPSK	22.58	PASS
n1	15	20	390000	50@25	DFT_QPSK	22.82	PASS
n1	15	20	390000	1@1	DFT_QPSK	22.7	PASS
n1	15	20	390000	1@104	DFT_QPSK	22.52	PASS
n1	15	20	394000	50@25	DFT_BPSK	22.44	PASS
n1	15	20	394000	1@1	DFT_BPSK	22.42	PASS
n1	15	20	394000	1@104	DFT_BPSK	22.39	PASS
n1	15	20	394000	50@25	DFT_QPSK	22.45	PASS
n1	15	20	394000	1@1	DFT_QPSK	22.36	PASS
n1	15	20	394000	1@104	DFT_QPSK	22.32	PASS
n1	15	50	389000	135@67	DFT_BPSK	22.86	PASS
n1	15	50	389000	1@1	DFT_BPSK	22.72	PASS
n1	15	50	389000	1@268	DFT_BPSK	22.56	PASS
n1	15	50	389000	135@67	DFT_QPSK	22.89	PASS
n1	15	50	389000	1@1	DFT_QPSK	22.62	PASS
n1	15	50	389000	1@268	DFT_QPSK	22.47	PASS
n1	15	50	390000	135@67	DFT_BPSK	22.83	PASS
n1	15	50	390000	1@1	DFT_BPSK	22.67	PASS
n1	15	50	390000	1@268	DFT_BPSK	22.5	PASS
n1	15	50	390000	135@67	DFT_QPSK	22.85	PASS
n1	15	50	390000	1@1	DFT_QPSK	22.6	PASS
n1	15	50	390000	1@268	DFT_QPSK	22.49	PASS



n1	15	50	391000	135@67	DFT_BPSK	22.75	PASS
n1	15	50	391000	1@1	DFT_BPSK	22.69	PASS
n1	15	50	391000	1@268	DFT_BPSK	22.48	PASS
n1	15	50	391000	135@67	DFT_QPSK	22.78	PASS
n1	15	50	391000	1@1	DFT_QPSK	22.66	PASS
n1	15	50	391000	1@268	DFT_QPSK	22.43	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n3	15	5	342500	12@6	DFT_BPSK	23	PASS
n3	15	5	342500	1@1	DFT_BPSK	22.91	PASS
n3	15	5	342500	1@23	DFT_BPSK	22.9	PASS
n3	15	5	342500	12@6	DFT_QPSK	23.05	PASS
n3	15	5	342500	1@1	DFT_QPSK	22.89	PASS
n3	15	5	342500	1@23	DFT_QPSK	22.91	PASS
n3	15	5	349500	12@6	DFT_BPSK	22.46	PASS
n3	15	5	349500	1@1	DFT_BPSK	22.36	PASS
n3	15	5	349500	1@23	DFT_BPSK	22.42	PASS
n3	15	5	349500	12@6	DFT_QPSK	22.47	PASS
n3	15	5	349500	1@1	DFT_QPSK	22.4	PASS
n3	15	5	349500	1@23	DFT_QPSK	22.43	PASS
n3	15	5	356500	12@6	DFT_BPSK	22.29	PASS
n3	15	5	356500	1@1	DFT_BPSK	22.26	PASS
n3	15	5	356500	1@23	DFT_BPSK	22.32	PASS
n3	15	5	356500	12@6	DFT_QPSK	22.35	PASS
n3	15	5	356500	1@1	DFT_QPSK	22.24	PASS
n3	15	5	356500	1@23	DFT_QPSK	22.33	PASS
n3	15	20	344000	50@25	DFT_BPSK	22.92	PASS
n3	15	20	344000	1@1	DFT_BPSK	22.94	PASS
n3	15	20	344000	1@104	DFT_BPSK	22.65	PASS
n3	15	20	344000	50@25	DFT_QPSK	22.92	PASS
n3	15	20	344000	1@1	DFT_QPSK	22.93	PASS
n3	15	20	344000	1@104	DFT_QPSK	22.62	PASS
n3	15	20	349500	50@25	DFT_BPSK	22.56	PASS
n3	15	20	349500	1@1	DFT_BPSK	22.36	PASS
n3	15	20	349500	1@104	DFT_BPSK	22.36	PASS
n3	15	20	349500	50@25	DFT_QPSK	22.53	PASS
n3	15	20	349500	1@1	DFT_QPSK	22.37	PASS
n3	15	20	349500	1@104	DFT_QPSK	22.43	PASS
n3	15	20	355000	50@25	DFT_BPSK	22.18	PASS
n3	15	20	355000	1@1	DFT_BPSK	22.01	PASS
n3	15	20	355000	1@104	DFT_BPSK	22.41	PASS
n3	15	20	355000	50@25	DFT_QPSK	22.19	PASS
n3	15	20	355000	1@1	DFT_QPSK	22.06	PASS
n3	15	20	355000	1@104	DFT_QPSK	22.42	PASS
n3	15	30	345000	80@40	DFT_BPSK	22.89	PASS
n3	15	30	345000	1@1	DFT_BPSK	23.05	PASS
n3	15	30	345000	1@158	DFT_BPSK	22.73	PASS
n3	15	30	345000	80@40	DFT_QPSK	22.87	PASS
n3	15	30	345000	1@1	DFT_QPSK	23.01	PASS
n3	15	30	345000	1@158	DFT_QPSK	22.68	PASS
n3	15	30	349500	80@40	DFT_BPSK	22.63	PASS
n3	15	30	349500	1@1	DFT_BPSK	22.51	PASS
n3	15	30	349500	1@158	DFT_BPSK	22.34	PASS
n3	15	30	349500	80@40	DFT_QPSK	22.65	PASS
n3	15	30	349500	1@1	DFT_QPSK	22.53	PASS
n3	15	30	349500	1@158	DFT_QPSK	22.34	PASS
n3	15	30	354000	80@40	DFT_BPSK	22.2	PASS



n3	15	30	354000	1@1	DFT_BPSK	22.33	PASS
n3	15	30	354000	1@158	DFT_BPSK	22.52	PASS
n3	15	30	354000	80@40	DFT_QPSK	22.19	PASS
n3	15	30	354000	1@1	DFT_QPSK	22.3	PASS
n3	15	30	354000	1@158	DFT_QPSK	22.5	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n7	15	5	500500	12@6	DFT_BPSK	22.14	PASS
n7	15	5	500500	1@1	DFT_BPSK	21.94	PASS
n7	15	5	500500	1@23	DFT_BPSK	22.02	PASS
n7	15	5	500500	12@6	DFT_QPSK	22.22	PASS
n7	15	5	500500	1@1	DFT_QPSK	21.81	PASS
n7	15	5	500500	1@23	DFT_QPSK	21.84	PASS
n7	15	5	507000	12@6	DFT_BPSK	21.96	PASS
n7	15	5	507000	1@1	DFT_BPSK	21.91	PASS
n7	15	5	507000	1@23	DFT_BPSK	21.9	PASS
n7	15	5	507000	12@6	DFT_QPSK	22.07	PASS
n7	15	5	507000	1@1	DFT_QPSK	21.75	PASS
n7	15	5	507000	1@23	DFT_QPSK	21.75	PASS
n7	15	5	513500	12@6	DFT_BPSK	22.44	PASS
n7	15	5	513500	1@1	DFT_BPSK	22.07	PASS
n7	15	5	513500	1@23	DFT_BPSK	22.42	PASS
n7	15	5	513500	12@6	DFT_QPSK	22.25	PASS
n7	15	5	513500	1@1	DFT_QPSK	21.87	PASS
n7	15	5	513500	1@23	DFT_QPSK	22.14	PASS
n7	15	15	501500	36@18	DFT_BPSK	22.09	PASS
n7	15	15	501500	1@1	DFT_BPSK	21.92	PASS
n7	15	15	501500	1@77	DFT_BPSK	22.01	PASS
n7	15	15	501500	36@18	DFT_QPSK	22.13	PASS
n7	15	15	501500	1@1	DFT_QPSK	21.81	PASS
n7	15	15	501500	1@77	DFT_QPSK	21.86	PASS
n7	15	15	507000	36@18	DFT_BPSK	22	PASS
n7	15	15	507000	1@1	DFT_BPSK	21.96	PASS
n7	15	15	507000	1@77	DFT_BPSK	21.99	PASS
n7	15	15	507000	36@18	DFT_QPSK	22.05	PASS
n7	15	15	507000	1@1	DFT_QPSK	21.84	PASS
n7	15	15	507000	1@77	DFT_QPSK	21.84	PASS
n7	15	15	512500	36@18	DFT_BPSK	21.73	PASS
n7	15	15	512500	1@1	DFT_BPSK	22.07	PASS
n7	15	15	512500	1@77	DFT_BPSK	22.56	PASS
n7	15	15	512500	36@18	DFT_QPSK	21.5	PASS
n7	15	15	512500	1@1	DFT_QPSK	21.82	PASS
n7	15	15	512500	1@77	DFT_QPSK	22.31	PASS
n7	15	20	502000	50@25	DFT_BPSK	22.16	PASS
n7	15	20	502000	1@1	DFT_BPSK	22.01	PASS
n7	15	20	502000	1@104	DFT_BPSK	22.12	PASS
n7	15	20	502000	50@25	DFT_QPSK	22.16	PASS
n7	15	20	502000	1@1	DFT_QPSK	21.83	PASS
n7	15	20	502000	1@104	DFT_QPSK	21.97	PASS
n7	15	20	507000	50@25	DFT_BPSK	22.07	PASS
n7	15	20	507000	1@1	DFT_BPSK	21.98	PASS
n7	15	20	507000	1@104	DFT_BPSK	22.06	PASS
n7	15	20	507000	50@25	DFT_QPSK	22.1	PASS
n7	15	20	507000	1@1	DFT_QPSK	21.82	PASS
n7	15	20	507000	1@104	DFT_QPSK	21.86	PASS
n7	15	20	512000	50@25	DFT_BPSK	21.49	PASS



n7	15	20	512000	1@1	DFT_BPSK	22.11	PASS
n7	15	20	512000	1@104	DFT_BPSK	22.3	PASS
n7	15	20	512000	50@25	DFT_QPSK	21.33	PASS
n7	15	20	512000	1@1	DFT_QPSK	21.94	PASS
n7	15	20	512000	1@104	DFT_QPSK	22.09	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n8	15	5	176500	12@6	DFT_BPSK	22.97	PASS
n8	15	5	176500	1@1	DFT_BPSK	22.95	PASS
n8	15	5	176500	1@23	DFT_BPSK	22.79	PASS
n8	15	5	176500	12@6	DFT_QPSK	22.96	PASS
n8	15	5	176500	1@1	DFT_QPSK	22.95	PASS
n8	15	5	176500	1@23	DFT_QPSK	22.7	PASS
n8	15	5	179500	12@6	DFT_BPSK	23.03	PASS
n8	15	5	179500	1@1	DFT_BPSK	22.78	PASS
n8	15	5	179500	1@23	DFT_BPSK	23.09	PASS
n8	15	5	179500	12@6	DFT_QPSK	23.04	PASS
n8	15	5	179500	1@1	DFT_QPSK	22.77	PASS
n8	15	5	179500	1@23	DFT_QPSK	23.08	PASS
n8	15	5	182500	12@6	DFT_BPSK	23.32	PASS
n8	15	5	182500	1@1	DFT_BPSK	23.3	PASS
n8	15	5	182500	1@23	DFT_BPSK	23.16	PASS
n8	15	5	182500	12@6	DFT_QPSK	23.37	PASS
n8	15	5	182500	1@1	DFT_QPSK	23.21	PASS
n8	15	5	182500	1@23	DFT_QPSK	23.06	PASS
n8	15	15	177500	36@18	DFT_BPSK	22.75	PASS
n8	15	15	177500	1@1	DFT_BPSK	23.02	PASS
n8	15	15	177500	1@77	DFT_BPSK	22.82	PASS
n8	15	15	177500	36@18	DFT_QPSK	22.73	PASS
n8	15	15	177500	1@1	DFT_QPSK	23	PASS
n8	15	15	177500	1@77	DFT_QPSK	22.82	PASS
n8	15	15	179500	36@18	DFT_BPSK	22.96	PASS
n8	15	15	179500	1@1	DFT_BPSK	22.67	PASS
n8	15	15	179500	1@77	DFT_BPSK	23.4	PASS
n8	15	15	179500	36@18	DFT_QPSK	23	PASS
n8	15	15	179500	1@1	DFT_QPSK	22.61	PASS
n8	15	15	179500	1@77	DFT_QPSK	23.32	PASS
n8	15	15	181500	36@18	DFT_BPSK	23.4	PASS
n8	15	15	181500	1@1	DFT_BPSK	23.21	PASS
n8	15	15	181500	1@77	DFT_BPSK	23.18	PASS
n8	15	15	181500	36@18	DFT_QPSK	23.44	PASS
n8	15	15	181500	1@1	DFT_QPSK	23.19	PASS
n8	15	15	181500	1@77	DFT_QPSK	23.14	PASS
n8	15	20	178000	50@25	DFT_BPSK	22.79	PASS
n8	15	20	178000	1@1	DFT_BPSK	23.03	PASS
n8	15	20	178000	1@104	DFT_BPSK	23.14	PASS
n8	15	20	178000	50@25	DFT_QPSK	22.8	PASS
n8	15	20	178000	1@1	DFT_QPSK	23.01	PASS
n8	15	20	178000	1@104	DFT_QPSK	23.14	PASS
n8	15	20	179500	50@25	DFT_BPSK	23.02	PASS
n8	15	20	179500	1@1	DFT_BPSK	22.68	PASS
n8	15	20	179500	1@104	DFT_BPSK	23.47	PASS
n8	15	20	179500	50@25	DFT_QPSK	23.02	PASS
n8	15	20	179500	1@1	DFT_QPSK	22.67	PASS
n8	15	20	179500	1@104	DFT_QPSK	23.42	PASS
n8	15	20	181000	50@25	DFT_BPSK	23.43	PASS



n8	15	20	181000	1@1	DFT_BPSK	22.85	PASS
n8	15	20	181000	1@104	DFT_BPSK	23.19	PASS
n8	15	20	181000	50@25	DFT_QPSK	23.38	PASS
n8	15	20	181000	1@1	DFT_QPSK	22.81	PASS
n8	15	20	181000	1@104	DFT_QPSK	23.15	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n20	15	5	166900	12@6	DFT_BPSK	23.17	PASS
n20	15	5	166900	1@1	DFT_BPSK	22.97	PASS
n20	15	5	166900	1@23	DFT_BPSK	23.18	PASS
n20	15	5	166900	12@6	DFT_QPSK	23.22	PASS
n20	15	5	166900	1@1	DFT_QPSK	22.84	PASS
n20	15	5	166900	1@23	DFT_QPSK	23.08	PASS
n20	15	5	169400	12@6	DFT_BPSK	22.63	PASS
n20	15	5	169400	1@1	DFT_BPSK	22.67	PASS
n20	15	5	169400	1@23	DFT_BPSK	22.28	PASS
n20	15	5	169400	12@6	DFT_QPSK	22.62	PASS
n20	15	5	169400	1@1	DFT_QPSK	22.68	PASS
n20	15	5	169400	1@23	DFT_QPSK	22.26	PASS
n20	15	5	171900	12@6	DFT_BPSK	22.09	PASS
n20	15	5	171900	1@1	DFT_BPSK	21.87	PASS
n20	15	5	171900	1@23	DFT_BPSK	22.06	PASS
n20	15	5	171900	12@6	DFT_QPSK	22.09	PASS
n20	15	5	171900	1@1	DFT_QPSK	21.89	PASS
n20	15	5	171900	1@23	DFT_QPSK	22.07	PASS
n20	15	15	167900	36@18	DFT_BPSK	23.12	PASS
n20	15	15	167900	1@1	DFT_BPSK	22.94	PASS
n20	15	15	167900	1@77	DFT_BPSK	22.63	PASS
n20	15	15	167900	36@18	DFT_QPSK	23.17	PASS
n20	15	15	167900	1@1	DFT_QPSK	22.89	PASS
n20	15	15	167900	1@77	DFT_QPSK	22.63	PASS
n20	15	15	169400	36@18	DFT_BPSK	22.61	PASS
n20	15	15	169400	1@1	DFT_BPSK	23.1	PASS
n20	15	15	169400	1@77	DFT_BPSK	22	PASS
n20	15	15	169400	36@18	DFT_QPSK	22.63	PASS
n20	15	15	169400	1@1	DFT_QPSK	23.08	PASS
n20	15	15	169400	1@77	DFT_QPSK	22.01	PASS
n20	15	15	170900	36@18	DFT_BPSK	22.03	PASS
n20	15	15	170900	1@1	DFT_BPSK	22.43	PASS
n20	15	15	170900	1@77	DFT_BPSK	22.12	PASS
n20	15	15	170900	36@18	DFT_QPSK	22.05	PASS
n20	15	15	170900	1@1	DFT_QPSK	22.44	PASS
n20	15	15	170900	1@77	DFT_QPSK	22.14	PASS
n20	15	20	168400	50@25	DFT_BPSK	23.05	PASS
n20	15	20	168400	1@1	DFT_BPSK	22.97	PASS
n20	15	20	168400	1@104	DFT_BPSK	22.22	PASS
n20	15	20	168400	50@25	DFT_QPSK	23.02	PASS
n20	15	20	168400	1@1	DFT_QPSK	22.92	PASS
n20	15	20	168400	1@104	DFT_QPSK	22.24	PASS
n20	15	20	169400	50@25	DFT_BPSK	22.64	PASS
n20	15	20	169400	1@1	DFT_BPSK	23.14	PASS
n20	15	20	169400	1@104	DFT_BPSK	21.94	PASS
n20	15	20	169400	50@25	DFT_QPSK	22.63	PASS
n20	15	20	169400	1@1	DFT_QPSK	23.09	PASS
n20	15	20	169400	1@104	DFT_QPSK	21.95	PASS
n20	15	20	170400	50@25	DFT_BPSK	22.22	PASS



n20	15	20	170400	1@1	DFT_BPSK	22.87	PASS
n20	15	20	170400	1@104	DFT_BPSK	22.1	PASS
n20	15	20	170400	50@25	DFT_QPSK	22.23	PASS
n20	15	20	170400	1@1	DFT_QPSK	22.86	PASS
n20	15	20	170400	1@104	DFT_QPSK	22.1	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n28(703-736)	15	5	141100	12@6	DFT_BPSK	22.64	PASS
n28(703-736)	15	5	141100	1@1	DFT_BPSK	22.75	PASS
n28(703-736)	15	5	141100	1@23	DFT_BPSK	22.31	PASS
n28(703-736)	15	5	141100	12@6	DFT_QPSK	22.61	PASS
n28(703-736)	15	5	141100	1@1	DFT_QPSK	22.72	PASS
n28(703-736)	15	5	141100	1@23	DFT_QPSK	22.29	PASS
n28(703-736)	15	5	143900	12@6	DFT_BPSK	22.34	PASS
n28(703-736)	15	5	143900	1@1	DFT_BPSK	22.07	PASS
n28(703-736)	15	5	143900	1@23	DFT_BPSK	22.34	PASS
n28(703-736)	15	5	143900	12@6	DFT_QPSK	22.3	PASS
n28(703-736)	15	5	143900	1@1	DFT_QPSK	22.11	PASS
n28(703-736)	15	5	143900	1@23	DFT_QPSK	22.33	PASS
n28(703-736)	15	5	146700	12@6	DFT_BPSK	23.45	PASS
n28(703-736)	15	5	146700	1@1	DFT_BPSK	23.25	PASS
n28(703-736)	15	5	146700	1@23	DFT_BPSK	23.31	PASS
n28(703-736)	15	5	146700	12@6	DFT_QPSK	23.46	PASS
n28(703-736)	15	5	146700	1@1	DFT_QPSK	23.29	PASS
n28(703-736)	15	5	146700	1@23	DFT_QPSK	23.33	PASS
n28(703-736)	15	15	142100	36@18	DFT_BPSK	22.26	PASS
n28(703-736)	15	15	142100	1@1	DFT_BPSK	22.87	PASS
n28(703-736)	15	15	142100	1@77	DFT_BPSK	22.16	PASS
n28(703-736)	15	15	142100	36@18	DFT_QPSK	22.21	PASS
n28(703-736)	15	15	142100	1@1	DFT_QPSK	22.88	PASS
n28(703-736)	15	15	142100	1@77	DFT_QPSK	22.18	PASS
n28(703-736)	15	15	143900	36@18	DFT_BPSK	22.26	PASS
n28(703-736)	15	15	143900	1@1	DFT_BPSK	22.08	PASS
n28(703-736)	15	15	143900	1@77	DFT_BPSK	22.95	PASS
n28(703-736)	15	15	143900	36@18	DFT_QPSK	22.31	PASS
n28(703-736)	15	15	143900	1@1	DFT_QPSK	22.11	PASS
n28(703-736)	15	15	143900	1@77	DFT_QPSK	22.95	PASS
n28(703-736)	15	15	145700	36@18	DFT_BPSK	23.06	PASS
n28(703-736)	15	15	145700	1@1	DFT_BPSK	22.48	PASS
n28(703-736)	15	15	145700	1@77	DFT_BPSK	23.38	PASS
n28(703-736)	15	15	145700	36@18	DFT_QPSK	23.15	PASS
n28(703-736)	15	15	145700	1@1	DFT_QPSK	22.46	PASS
n28(703-736)	15	15	145700	1@77	DFT_QPSK	23.4	PASS



n28(703-736)	15	20	142600	50@25	DFT_BPSK	22.25	PASS
n28(703-736)	15	20	142600	1@1	DFT_BPSK	22.86	PASS
n28(703-736)	15	20	142600	1@104	DFT_BPSK	22.5	PASS
n28(703-736)	15	20	142600	50@25	DFT_QPSK	22.24	PASS
n28(703-736)	15	20	142600	1@1	DFT_QPSK	22.86	PASS
n28(703-736)	15	20	142600	1@104	DFT_QPSK	22.5	PASS
n28(703-736)	15	20	143900	50@25	DFT_BPSK	22.38	PASS
n28(703-736)	15	20	143900	1@1	DFT_BPSK	22.16	PASS
n28(703-736)	15	20	143900	1@104	DFT_BPSK	23.18	PASS
n28(703-736)	15	20	143900	50@25	DFT_QPSK	22.35	PASS
n28(703-736)	15	20	143900	1@1	DFT_QPSK	22.2	PASS
n28(703-736)	15	20	143900	1@104	DFT_QPSK	23.17	PASS
n28(703-736)	15	20	145200	50@25	DFT_BPSK	22.93	PASS
n28(703-736)	15	20	145200	1@1	DFT_BPSK	22.21	PASS
n28(703-736)	15	20	145200	1@104	DFT_BPSK	23.35	PASS
n28(703-736)	15	20	145200	50@25	DFT_QPSK	22.98	PASS
n28(703-736)	15	20	145200	1@1	DFT_QPSK	22.23	PASS
n28(703-736)	15	20	145200	1@104	DFT_QPSK	23.41	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n38	30	10	515000	12@6	DFT_BPSK	22.12	PASS
n38	30	10	515000	1@1	DFT_BPSK	22.04	PASS
n38	30	10	515000	1@22	DFT_BPSK	22.1	PASS
n38	30	10	515000	12@6	DFT_QPSK	22.16	PASS
n38	30	10	515000	1@1	DFT_QPSK	22.05	PASS
n38	30	10	515000	1@22	DFT_QPSK	22.04	PASS
n38	30	10	519000	12@6	DFT_BPSK	22.2	PASS
n38	30	10	519000	1@1	DFT_BPSK	22.21	PASS
n38	30	10	519000	1@22	DFT_BPSK	22.13	PASS
n38	30	10	519000	12@6	DFT_QPSK	22.2	PASS
n38	30	10	519000	1@1	DFT_QPSK	22.17	PASS
n38	30	10	519000	1@22	DFT_QPSK	22.12	PASS
n38	30	10	523000	12@6	DFT_BPSK	22.15	PASS
n38	30	10	523000	1@1	DFT_BPSK	22.03	PASS
n38	30	10	523000	1@22	DFT_BPSK	22.34	PASS
n38	30	10	523000	12@6	DFT_QPSK	22.17	PASS
n38	30	10	523000	1@1	DFT_QPSK	21.95	PASS
n38	30	10	523000	1@22	DFT_QPSK	22.21	PASS
n38	30	20	516000	25@12	DFT_BPSK	22.16	PASS
n38	30	20	516000	1@1	DFT_BPSK	22.04	PASS
n38	30	20	516000	1@49	DFT_BPSK	22.26	PASS
n38	30	20	516000	25@12	DFT_QPSK	22.24	PASS
n38	30	20	516000	1@1	DFT_QPSK	21.96	PASS
n38	30	20	516000	1@49	DFT_QPSK	22.19	PASS
n38	30	20	519000	25@12	DFT_BPSK	22.23	PASS
n38	30	20	519000	1@1	DFT_BPSK	22.07	PASS
n38	30	20	519000	1@49	DFT_BPSK	22.11	PASS
n38	30	20	519000	25@12	DFT_QPSK	22.24	PASS
n38	30	20	519000	1@1	DFT_QPSK	21.97	PASS
n38	30	20	519000	1@49	DFT_QPSK	22.01	PASS
n38	30	20	522000	25@12	DFT_BPSK	22.22	PASS
n38	30	20	522000	1@1	DFT_BPSK	22.06	PASS
n38	30	20	522000	1@49	DFT_BPSK	22.34	PASS
n38	30	20	522000	25@12	DFT_QPSK	22.24	PASS
n38	30	20	522000	1@1	DFT_QPSK	22.03	PASS
n38	30	20	522000	1@49	DFT_QPSK	22.3	PASS
n38	30	40	518000	50@25	DFT_BPSK	22.28	PASS
n38	30	40	518000	1@1	DFT_BPSK	22.01	PASS
n38	30	40	518000	1@104	DFT_BPSK	22.17	PASS
n38	30	40	518000	50@25	DFT_QPSK	22.28	PASS
n38	30	40	518000	1@1	DFT_QPSK	22.01	PASS
n38	30	40	518000	1@104	DFT_QPSK	22.12	PASS
n38	30	40	519000	50@25	DFT_BPSK	22.21	PASS
n38	30	40	519000	1@1	DFT_BPSK	21.95	PASS
n38	30	40	519000	1@104	DFT_BPSK	22.24	PASS
n38	30	40	519000	50@25	DFT_QPSK	22.24	PASS
n38	30	40	519000	1@1	DFT_QPSK	21.92	PASS
n38	30	40	519000	1@104	DFT_QPSK	22.2	PASS
n38	30	40	520000	50@25	DFT_BPSK	22.26	PASS



n38	30	40	520000	1@1	DFT_BPSK	22	PASS
n38	30	40	520000	1@104	DFT_BPSK	22.37	PASS
n38	30	40	520000	50@25	DFT_QPSK	22.26	PASS
n38	30	40	520000	1@1	DFT_QPSK	21.96	PASS
n38	30	40	520000	1@104	DFT_QPSK	22.34	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n40	30	10	461000	12@6	DFT_BPSK	22.04	PASS
n40	30	10	461000	1@1	DFT_BPSK	22	PASS
n40	30	10	461000	1@22	DFT_BPSK	22.03	PASS
n40	30	10	461000	12@6	DFT_QPSK	22.02	PASS
n40	30	10	461000	1@1	DFT_QPSK	21.87	PASS
n40	30	10	461000	1@22	DFT_QPSK	21.95	PASS
n40	30	10	470000	12@6	DFT_BPSK	22.33	PASS
n40	30	10	470000	1@1	DFT_BPSK	22.32	PASS
n40	30	10	470000	1@22	DFT_BPSK	22.17	PASS
n40	30	10	470000	12@6	DFT_QPSK	22.38	PASS
n40	30	10	470000	1@1	DFT_QPSK	22.3	PASS
n40	30	10	470000	1@22	DFT_QPSK	22.18	PASS
n40	30	10	479000	12@6	DFT_BPSK	22.21	PASS
n40	30	10	479000	1@1	DFT_BPSK	22.21	PASS
n40	30	10	479000	1@22	DFT_BPSK	22.19	PASS
n40	30	10	479000	12@6	DFT_QPSK	22.31	PASS
n40	30	10	479000	1@1	DFT_QPSK	22.18	PASS
n40	30	10	479000	1@22	DFT_QPSK	22.12	PASS
n40	30	30	463000	36@18	DFT_BPSK	22.23	PASS
n40	30	30	463000	1@1	DFT_BPSK	22.03	PASS
n40	30	30	463000	1@76	DFT_BPSK	22.07	PASS
n40	30	30	463000	36@18	DFT_QPSK	22.15	PASS
n40	30	30	463000	1@1	DFT_QPSK	21.91	PASS
n40	30	30	463000	1@76	DFT_QPSK	22.08	PASS
n40	30	30	470000	36@18	DFT_BPSK	22.49	PASS
n40	30	30	470000	1@1	DFT_BPSK	22.27	PASS
n40	30	30	470000	1@76	DFT_BPSK	22.17	PASS
n40	30	30	470000	36@18	DFT_QPSK	22.42	PASS
n40	30	30	470000	1@1	DFT_QPSK	22.27	PASS
n40	30	30	470000	1@76	DFT_QPSK	22.18	PASS
n40	30	30	477000	36@18	DFT_BPSK	22.54	PASS
n40	30	30	477000	1@1	DFT_BPSK	22.29	PASS
n40	30	30	477000	1@76	DFT_BPSK	22.26	PASS
n40	30	30	477000	36@18	DFT_QPSK	22.47	PASS
n40	30	30	477000	1@1	DFT_QPSK	22.26	PASS
n40	30	30	477000	1@76	DFT_QPSK	22.19	PASS
n40	30	80	468000	108@54	DFT_BPSK	22.24	PASS
n40	30	80	468000	1@1	DFT_BPSK	22.13	PASS
n40	30	80	468000	1@215	DFT_BPSK	22.43	PASS
n40	30	80	468000	108@54	DFT_QPSK	22.29	PASS
n40	30	80	468000	1@1	DFT_QPSK	22.08	PASS
n40	30	80	468000	1@215	DFT_QPSK	22.41	PASS
n40	30	80	470000	108@54	DFT_BPSK	22.37	PASS
n40	30	80	470000	1@1	DFT_BPSK	22.2	PASS
n40	30	80	470000	1@215	DFT_BPSK	22.31	PASS
n40	30	80	470000	108@54	DFT_QPSK	22.37	PASS
n40	30	80	470000	1@1	DFT_QPSK	22.18	PASS
n40	30	80	470000	1@215	DFT_QPSK	22.28	PASS
n40	30	80	472000	108@54	DFT_BPSK	22.49	PASS



n40	30	80	472000	1@1	DFT_BPSK	22.15	PASS
n40	30	80	472000	1@215	DFT_BPSK	22.24	PASS
n40	30	80	472000	108@54	DFT_QPSK	22.44	PASS
n40	30	80	472000	1@1	DFT_QPSK	22.2	PASS
n40	30	80	472000	1@215	DFT_QPSK	22.2	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n41(2500-2690)	30	10	501000	12@6	DFT_BPSK	21.54	PASS
n41(2500-2690)	30	10	501000	1@1	DFT_BPSK	21.6	PASS
n41(2500-2690)	30	10	501000	1@22	DFT_BPSK	21.49	PASS
n41(2500-2690)	30	10	501000	12@6	DFT_QPSK	21.58	PASS
n41(2500-2690)	30	10	501000	1@1	DFT_QPSK	21.45	PASS
n41(2500-2690)	30	10	501000	1@22	DFT_QPSK	21.44	PASS
n41(2500-2690)	30	10	519000	12@6	DFT_BPSK	21.54	PASS
n41(2500-2690)	30	10	519000	1@1	DFT_BPSK	21.54	PASS
n41(2500-2690)	30	10	519000	1@22	DFT_BPSK	21.5	PASS
n41(2500-2690)	30	10	519000	12@6	DFT_QPSK	21.55	PASS
n41(2500-2690)	30	10	519000	1@1	DFT_QPSK	21.55	PASS
n41(2500-2690)	30	10	519000	1@22	DFT_QPSK	21.51	PASS
n41(2500-2690)	30	10	537000	12@6	DFT_BPSK	21.45	PASS
n41(2500-2690)	30	10	537000	1@1	DFT_BPSK	21.26	PASS
n41(2500-2690)	30	10	537000	1@22	DFT_BPSK	21.37	PASS
n41(2500-2690)	30	10	537000	12@6	DFT_QPSK	21.35	PASS
n41(2500-2690)	30	10	537000	1@1	DFT_QPSK	21.25	PASS
n41(2500-2690)	30	10	537000	1@22	DFT_QPSK	21.43	PASS
n41(2500-2690)	30	50	505002	64@32	DFT_BPSK	21.85	PASS
n41(2500-2690)	30	50	505002	1@1	DFT_BPSK	21.52	PASS
n41(2500-2690)	30	50	505002	1@131	DFT_BPSK	21.65	PASS
n41(2500-2690)	30	50	505002	64@32	DFT_QPSK	21.86	PASS
n41(2500-2690)	30	50	505002	1@1	DFT_QPSK	21.34	PASS
n41(2500-2690)	30	50	505002	1@131	DFT_QPSK	21.65	PASS
n41(2500-2690)	30	50	519000	64@32	DFT_BPSK	21.67	PASS
n41(2500-2690)	30	50	519000	1@1	DFT_BPSK	21.35	PASS
n41(2500-2690)	30	50	519000	1@131	DFT_BPSK	21.73	PASS
n41(2500-2690)	30	50	519000	64@32	DFT_QPSK	21.68	PASS
n41(2500-2690)	30	50	519000	1@1	DFT_QPSK	21.35	PASS
n41(2500-2690)	30	50	519000	1@131	DFT_QPSK	21.76	PASS
n41(2500-2690)	30	50	532998	64@32	DFT_BPSK	21.95	PASS
n41(2500-2690)	30	50	532998	1@1	DFT_BPSK	21.58	PASS
n41(2500-2690)	30	50	532998	1@131	DFT_BPSK	21.61	PASS
n41(2500-2690)	30	50	532998	64@32	DFT_QPSK	21.98	PASS
n41(2500-2690)	30	50	532998	1@1	DFT_QPSK	21.58	PASS
n41(2500-2690)	30	50	532998	1@131	DFT_QPSK	21.64	PASS



n41(2500-2690)	30	100	510000	135@67	DFT_BPSK	21.77	PASS
n41(2500-2690)	30	100	510000	1@1	DFT_BPSK	21.52	PASS
n41(2500-2690)	30	100	510000	1@271	DFT_BPSK	21.65	PASS
n41(2500-2690)	30	100	510000	135@67	DFT_QPSK	21.78	PASS
n41(2500-2690)	30	100	510000	1@1	DFT_QPSK	21.45	PASS
n41(2500-2690)	30	100	510000	1@271	DFT_QPSK	21.67	PASS
n41(2500-2690)	30	100	519000	135@67	DFT_BPSK	21.59	PASS
n41(2500-2690)	30	100	519000	1@1	DFT_BPSK	21.36	PASS
n41(2500-2690)	30	100	519000	1@271	DFT_BPSK	21.77	PASS
n41(2500-2690)	30	100	519000	135@67	DFT_QPSK	21.61	PASS
n41(2500-2690)	30	100	519000	1@1	DFT_QPSK	21.48	PASS
n41(2500-2690)	30	100	519000	1@271	DFT_QPSK	21.75	PASS
n41(2500-2690)	30	100	528000	135@67	DFT_BPSK	21.88	PASS
n41(2500-2690)	30	100	528000	1@1	DFT_BPSK	21.42	PASS
n41(2500-2690)	30	100	528000	1@271	DFT_BPSK	21.68	PASS
n41(2500-2690)	30	100	528000	135@67	DFT_QPSK	21.91	PASS
n41(2500-2690)	30	100	528000	1@1	DFT_QPSK	21.48	PASS
n41(2500-2690)	30	100	528000	1@271	DFT_QPSK	21.69	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n77(3400-4200)	30	10	627000	12@6	DFT_BPSK	21.96	PASS
n77(3400-4200)	30	10	627000	1@1	DFT_BPSK	21.96	PASS
n77(3400-4200)	30	10	627000	1@22	DFT_BPSK	21.96	PASS
n77(3400-4200)	30	10	627000	12@6	DFT_QPSK	22.07	PASS
n77(3400-4200)	30	10	627000	1@1	DFT_QPSK	22.04	PASS
n77(3400-4200)	30	10	627000	1@22	DFT_QPSK	22.01	PASS
n77(3400-4200)	30	10	653334	12@6	DFT_BPSK	22.26	PASS
n77(3400-4200)	30	10	653334	1@1	DFT_BPSK	22.24	PASS
n77(3400-4200)	30	10	653334	1@22	DFT_BPSK	22.32	PASS
n77(3400-4200)	30	10	653334	12@6	DFT_QPSK	22.29	PASS
n77(3400-4200)	30	10	653334	1@1	DFT_QPSK	22.23	PASS
n77(3400-4200)	30	10	653334	1@22	DFT_QPSK	22.31	PASS
n77(3400-4200)	30	10	679666	12@6	DFT_BPSK	21.78	PASS
n77(3400-4200)	30	10	679666	1@1	DFT_BPSK	21.8	PASS
n77(3400-4200)	30	10	679666	1@22	DFT_BPSK	21.9	PASS
n77(3400-4200)	30	10	679666	12@6	DFT_QPSK	21.89	PASS
n77(3400-4200)	30	10	679666	1@1	DFT_QPSK	21.8	PASS
n77(3400-4200)	30	10	679666	1@22	DFT_QPSK	21.79	PASS
n77(3400-4200)	30	50	628334	64@32	DFT_BPSK	22.01	PASS
n77(3400-4200)	30	50	628334	1@1	DFT_BPSK	21.98	PASS
n77(3400-4200)	30	50	628334	1@131	DFT_BPSK	21.91	PASS
n77(3400-4200)	30	50	628334	64@32	DFT_QPSK	21.98	PASS
n77(3400-4200)	30	50	628334	1@1	DFT_QPSK	22.01	PASS
n77(3400-4200)	30	50	628334	1@131	DFT_QPSK	21.99	PASS
n77(3400-4200)	30	50	653334	64@32	DFT_BPSK	22.45	PASS
n77(3400-4200)	30	50	653334	1@1	DFT_BPSK	22.13	PASS
n77(3400-4200)	30	50	653334	1@131	DFT_BPSK	22.48	PASS
n77(3400-4200)	30	50	653334	64@32	DFT_QPSK	22.46	PASS
n77(3400-4200)	30	50	653334	1@1	DFT_QPSK	22.19	PASS
n77(3400-4200)	30	50	653334	1@131	DFT_QPSK	22.52	PASS
n77(3400-4200)	30	50	678332	64@32	DFT_BPSK	21.97	PASS
n77(3400-4200)	30	50	678332	1@1	DFT_BPSK	21.68	PASS
n77(3400-4200)	30	50	678332	1@131	DFT_BPSK	21.65	PASS
n77(3400-4200)	30	50	678332	64@32	DFT_QPSK	21.97	PASS
n77(3400-4200)	30	50	678332	1@1	DFT_QPSK	21.72	PASS
n77(3400-4200)	30	50	678332	1@131	DFT_QPSK	21.67	PASS



n77(3400-4200)	30	100	630000	135@67	DFT_BPSK	22.06	PASS
n77(3400-4200)	30	100	630000	1@1	DFT_BPSK	22.06	PASS
n77(3400-4200)	30	100	630000	1@271	DFT_BPSK	21.76	PASS
n77(3400-4200)	30	100	630000	135@67	DFT_QPSK	22.07	PASS
n77(3400-4200)	30	100	630000	1@1	DFT_QPSK	22.12	PASS
n77(3400-4200)	30	100	630000	1@271	DFT_QPSK	21.84	PASS
n77(3400-4200)	30	100	653334	135@67	DFT_BPSK	22.53	PASS
n77(3400-4200)	30	100	653334	1@1	DFT_BPSK	21.88	PASS
n77(3400-4200)	30	100	653334	1@271	DFT_BPSK	22.55	PASS
n77(3400-4200)	30	100	653334	135@67	DFT_QPSK	22.52	PASS
n77(3400-4200)	30	100	653334	1@1	DFT_QPSK	21.97	PASS
n77(3400-4200)	30	100	653334	1@271	DFT_QPSK	22.64	PASS
n77(3400-4200)	30	100	676666	135@67	DFT_BPSK	22	PASS
n77(3400-4200)	30	100	676666	1@1	DFT_BPSK	21.93	PASS
n77(3400-4200)	30	100	676666	1@271	DFT_BPSK	21.63	PASS
n77(3400-4200)	30	100	676666	135@67	DFT_QPSK	21.99	PASS
n77(3400-4200)	30	100	676666	1@1	DFT_QPSK	22.03	PASS
n77(3400-4200)	30	100	676666	1@271	DFT_QPSK	21.7	PASS



Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Power (dBm)	Verdict
n78(3400-3800)	30	10	627000	12@6	DFT_BPSK	22.07	PASS
n78(3400-3800)	30	10	627000	1@1	DFT_BPSK	22.01	PASS
n78(3400-3800)	30	10	627000	1@22	DFT_BPSK	22.01	PASS
n78(3400-3800)	30	10	627000	12@6	DFT_QPSK	22.15	PASS
n78(3400-3800)	30	10	627000	1@1	DFT_QPSK	22.05	PASS
n78(3400-3800)	30	10	627000	1@22	DFT_QPSK	22.04	PASS
n78(3400-3800)	30	10	640000	12@6	DFT_BPSK	22.37	PASS
n78(3400-3800)	30	10	640000	1@1	DFT_BPSK	22.31	PASS
n78(3400-3800)	30	10	640000	1@22	DFT_BPSK	22.3	PASS
n78(3400-3800)	30	10	640000	12@6	DFT_QPSK	22.37	PASS
n78(3400-3800)	30	10	640000	1@1	DFT_QPSK	22.36	PASS
n78(3400-3800)	30	10	640000	1@22	DFT_QPSK	22.39	PASS
n78(3400-3800)	30	10	653000	12@6	DFT_BPSK	22.55	PASS
n78(3400-3800)	30	10	653000	1@1	DFT_BPSK	22.44	PASS
n78(3400-3800)	30	10	653000	1@22	DFT_BPSK	22.5	PASS
n78(3400-3800)	30	10	653000	12@6	DFT_QPSK	22.57	PASS
n78(3400-3800)	30	10	653000	1@1	DFT_QPSK	22.51	PASS
n78(3400-3800)	30	10	653000	1@22	DFT_QPSK	22.56	PASS
n78(3400-3800)	30	50	628334	64@32	DFT_BPSK	22.1	PASS
n78(3400-3800)	30	50	628334	1@1	DFT_BPSK	22.12	PASS
n78(3400-3800)	30	50	628334	1@131	DFT_BPSK	22.02	PASS
n78(3400-3800)	30	50	628334	64@32	DFT_QPSK	22.07	PASS
n78(3400-3800)	30	50	628334	1@1	DFT_QPSK	22.14	PASS
n78(3400-3800)	30	50	628334	1@131	DFT_QPSK	22.02	PASS
n78(3400-3800)	30	50	640000	64@32	DFT_BPSK	22.43	PASS
n78(3400-3800)	30	50	640000	1@1	DFT_BPSK	22.21	PASS
n78(3400-3800)	30	50	640000	1@131	DFT_BPSK	22.23	PASS
n78(3400-3800)	30	50	640000	64@32	DFT_QPSK	22.37	PASS
n78(3400-3800)	30	50	640000	1@1	DFT_QPSK	22.3	PASS
n78(3400-3800)	30	50	640000	1@131	DFT_QPSK	22.31	PASS
n78(3400-3800)	30	50	651666	64@32	DFT_BPSK	22.52	PASS
n78(3400-3800)	30	50	651666	1@1	DFT_BPSK	22.05	PASS
n78(3400-3800)	30	50	651666	1@131	DFT_BPSK	22.54	PASS
n78(3400-3800)	30	50	651666	64@32	DFT_QPSK	22.46	PASS
n78(3400-3800)	30	50	651666	1@1	DFT_QPSK	22.11	PASS
n78(3400-3800)	30	50	651666	1@131	DFT_QPSK	22.6	PASS



n78(3400-3800)	30	100	630000	135@67	DFT_BPSK	22.19	PASS
n78(3400-3800)	30	100	630000	1@1	DFT_BPSK	22.23	PASS
n78(3400-3800)	30	100	630000	1@271	DFT_BPSK	21.81	PASS
n78(3400-3800)	30	100	630000	135@67	DFT_QPSK	22.21	PASS
n78(3400-3800)	30	100	630000	1@1	DFT_QPSK	22.26	PASS
n78(3400-3800)	30	100	630000	1@271	DFT_QPSK	21.88	PASS
n78(3400-3800)	30	100	640000	135@67	DFT_BPSK	22.56	PASS
n78(3400-3800)	30	100	640000	1@1	DFT_BPSK	22.31	PASS
n78(3400-3800)	30	100	640000	1@271	DFT_BPSK	22.15	PASS
n78(3400-3800)	30	100	640000	135@67	DFT_QPSK	22.55	PASS
n78(3400-3800)	30	100	640000	1@1	DFT_QPSK	22.36	PASS
n78(3400-3800)	30	100	640000	1@271	DFT_QPSK	22.2	PASS
n78(3400-3800)	30	100	650000	135@67	DFT_BPSK	22.52	PASS
n78(3400-3800)	30	100	650000	1@1	DFT_BPSK	22.1	PASS
n78(3400-3800)	30	100	650000	1@271	DFT_BPSK	22.8	PASS
n78(3400-3800)	30	100	650000	135@67	DFT_QPSK	22.5	PASS
n78(3400-3800)	30	100	650000	1@1	DFT_QPSK	22.14	PASS
n78(3400-3800)	30	100	650000	1@271	DFT_QPSK	22.85	PASS



NSA output list

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	Test ID	RB Allocation	Modulation	Power (dBm)	Low Limit (dBm)	High Limit (dBm)	Verdict
Band8	-	5	21475	1~6	1@LOW	QPSK	20.42	-	-	-
n78(3400-3800)	30	10	627000	1~6	1@1	DFT_BPSK	19.09	-	-	-
Sum	-	-	-	1~6	-	-	22.82	19	26	PASS
Band8	-	5	21475	1~6	8@LOW	QPSK	20.44	-	-	-
n78(3400-3800)	30	10	627000	1~6	12@6	DFT_BPSK	19.17	-	-	-
Sum	-	-	-	1~6	-	-	22.86	19	26	PASS
Band8	-	5	21475	1~6	1@LOW	QPSK	20.42	-	-	-
n78(3400-3800)	30	10	627000	1~6	1@1	DFT_QPSK	19.17	-	-	-
Sum	-	-	-	1~6	-	-	22.85	19	26	PASS
Band8	-	5	21475	1~6	8@LOW	QPSK	20.47	-	-	-
n78(3400-3800)	30	10	627000	1~6	12@6	DFT_QPSK	19.28	-	-	-
Sum	-	-	-	1~6	-	-	22.93	19	26	PASS
Band8	-	5	21625	1~6	8@LOW	QPSK	20.39	-	-	-
n78(3400-3800)	30	10	640000	1~6	12@6	DFT_BPSK	19.59	-	-	-
Sum	-	-	-	1~6	-	-	23.02	19	26	PASS
Band8	-	5	21625	1~6	8@LOW	QPSK	20.38	-	-	-
n78(3400-3800)	30	10	640000	1~6	12@6	DFT_QPSK	19.52	-	-	-
Sum	-	-	-	1~6	-	-	22.98	19	26	PASS
Band8	-	5	21775	1~6	1@HIGH	QPSK	20.27	-	-	-
n78(3400-3800)	30	10	653000	1~6	1@22	DFT_BPSK	19.62	-	-	-
Sum	-	-	-	1~6	-	-	22.97	19	26	PASS
Band8	-	5	21775	1~6	8@HIGH	QPSK	20.29	-	-	-
n78(3400-3800)	30	10	653000	1~6	12@6	DFT_BPSK	19.61	-	-	-
Sum	-	-	-	1~6	-	-	22.97	19	26	PASS
Band8	-	5	21775	1~6	1@HIGH	QPSK	20.25	-	-	-
n78(3400-3800)	30	10	653000	1~6	1@22	DFT_QPSK	19.7	-	-	-
Sum	-	-	-	1~6	-	-	22.99	19	26	PASS
Band8	-	5	21775	1~6	8@HIGH	QPSK	20.3	-	-	-
n78(3400-3800)	30	10	653000	1~6	12@6	DFT_QPSK	19.66	-	-	-
Sum	-	-	-	1~6	-	-	23	19	26	PASS
Band8	-	10	21500	1~6	1@LOW	QPSK	20.39	-	-	-
n78(3400-3800)	30	100	630000	1~6	1@1	DFT_BPSK	19.41	-	-	-
Sum	-	-	-	1~6	-	-	22.94	19	26	PASS
Band8	-	10	21500	1~6	12@LOW	QPSK	20.39	-	-	-
n78(3400-3800)	30	100	630000	1~6	135@67	DFT_BPSK	19.39	-	-	-
Sum	-	-	-	1~6	-	-	22.93	19	26	PASS
Band8	-	10	21500	1~6	1@LOW	QPSK	20.42	-	-	-
n78(3400-3800)	30	100	630000	1~6	1@1	DFT_QPSK	19.52	-	-	-
Sum	-	-	-	1~6	-	-	23	19	26	PASS
Band8	-	10	21500	1~6	12@LOW	QPSK	20.38	-	-	-
n78(3400-3800)	30	100	630000	1~6	135@67	DFT_QPSK	19.36	-	-	-



Sum	-	-	-	1~6	-	-	22.91	19	26	PASS
Band8	-	10	21625	1~6	12@LOW	QPSK	20.35	-	-	-
n78(3400-3800)	30	100	640000	1~6	135@67	DFT_BPSK	19.78	-	-	-
Sum	-	-	-	1~6	-	-	23.08	19	26	PASS
Band8	-	10	21625	1~6	12@LOW	QPSK	20.34	-	-	-
n78(3400-3800)	30	100	640000	1~6	135@67	DFT_QPSK	19.72	-	-	-
Sum	-	-	-	1~6	-	-	23.05	19	26	PASS
Band8	-	10	21750	1~6	1@HIGH	QPSK	20.28	-	-	-
n78(3400-3800)	30	100	650000	1~6	1@271	DFT_BPSK	19.97	-	-	-
Sum	-	-	-	1~6	-	-	23.14	19	26	PASS
Band8	-	10	21750	1~6	12@HIGH	QPSK	20.28	-	-	-
n78(3400-3800)	30	100	650000	1~6	135@67	DFT_BPSK	19.69	-	-	-
Sum	-	-	-	1~6	-	-	23.01	19	26	PASS
Band8	-	10	21750	1~6	1@HIGH	QPSK	20.32	-	-	-
n78(3400-3800)	30	100	650000	1~6	1@271	DFT_QPSK	20.08	-	-	-
Sum	-	-	-	1~6	-	-	23.21	19	26	PASS
Band8	-	10	21750	1~6	12@HIGH	QPSK	20.3	-	-	-
n78(3400-3800)	30	100	650000	1~6	135@67	DFT_QPSK	19.6	-	-	-
Sum	-	-	-	1~6	-	-	22.97	19	26	PASS
Band8	-	5	21475	7~9	1@LOW	QPSK	23.42	20.3	25.7	PASS
n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-	-	-
Band8	-	5	21475	7~9	8@LOW	QPSK	23.48	20.3	25.7	PASS
n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-	-	-
Band8	-	5	21625	7~9	8@LOW	QPSK	23.4	20.3	25.7	PASS
n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-	-	-
Band8	-	5	21775	7~9	1@HIGH	QPSK	23.31	20.3	25.7	PASS
n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-	-	-
Band8	-	5	21775	7~9	8@LOW	QPSK	23.34	20.3	25.7	PASS
n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-	-	-
Band8	-	10	21500	7~9	1@LOW	QPSK	23.43	20.3	25.7	PASS
n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-	-	-
Band8	-	10	21500	7~9	12@LOW	QPSK	23.38	20.3	25.7	PASS
n78(3400-3800)	30	10	627000	7~9	NA	NA	-	-	-	-
Band8	-	10	21625	7~9	12@LOW	QPSK	23.35	20.3	25.7	PASS
n78(3400-3800)	30	10	640000	7~9	NA	NA	-	-	-	-
Band8	-	10	21750	7~9	1@HIGH	QPSK	23.5	20.3	25.7	PASS
n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-	-	-
Band8	-	10	21750	7~9	12@LOW	QPSK	23.33	20.3	25.7	PASS
n78(3400-3800)	30	10	653000	7~9	NA	NA	-	-	-	-
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	627000	10~15	1@1	DFT_BPSK	22.15	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	627000	10~15	12@6	DFT_BPSK	22.13	19	26	PASS



Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	627000	10~15	1@1	DFT_QPSK	22.15	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	627000	10~15	12@6	DFT_QPSK	22.23	19	26	PASS
Band8	-	5	21625	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	640000	10~15	12@6	DFT_BPSK	22.57	19	26	PASS
Band8	-	5	21625	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	640000	10~15	12@6	DFT_QPSK	22.55	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	653000	10~15	1@22	DFT_BPSK	22.66	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	653000	10~15	12@6	DFT_BPSK	22.62	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	653000	10~15	1@22	DFT_QPSK	22.68	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	10	653000	10~15	12@6	DFT_QPSK	22.72	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	630000	10~15	1@1	DFT_BPSK	22.44	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	630000	10~15	135@67	DFT_BPSK	22.34	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	630000	10~15	1@1	DFT_QPSK	22.43	19	26	PASS
Band8	-	5	21475	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	630000	10~15	135@67	DFT_QPSK	22.34	19	26	PASS
Band8	-	5	21625	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	640000	10~15	135@67	DFT_BPSK	22.75	19	26	PASS
Band8	-	5	21625	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	640000	10~15	135@67	DFT_QPSK	22.71	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	650000	10~15	1@271	DFT_BPSK	22.97	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	650000	10~15	135@67	DFT_BPSK	22.66	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	650000	10~15	1@271	DFT_QPSK	23.06	19	26	PASS
Band8	-	5	21775	10~15	NA	NA	-	-	-	-
n78(3400-3800)	30	100	650000	10~15	135@67	DFT_QPSK	22.65	19	26	PASS



9.2 Tune up power

Mode	GSM900	GSM1800
GSM/PCS	30.5±1dBm	28.5±1dBm
GPRS (1 Slot)	25.7±1dBm	23.7±1dBm
GPRS (2 Slot)	26.5±1dBm	24±1dBm
GPRS (3 Slot)	26.5±1dBm	24±1dBm
GPRS (4 Slot)	26.5±1dBm	24±1dBm

Mode	WCDMA Band I	WCDMA Band VIII
RMC	23.5±1dBm	23.5±1dBm
HSDPA Subtest-1	22.5±1dBm	22.5±1dBm
HSDPA Subtest-2	22±1dBm	22±1dBm
HSDPA Subtest-3	21±1dBm	21±1dBm
HSDPA Subtest-4	21.5±1dBm	21±1dBm
HSUPA Subtest-1	22.5±1dBm	22.2±1dBm
HSUPA Subtest-2	22.5±1dBm	22.5±1dBm
HSUPA Subtest-3	21.2±1dBm	22.3±1dBm
HSUPA Subtest-4	22.7±1dBm	22.5±1dBm
HSUPA Subtest-5	22±1dBm	22±1dBm

BW[MHz]	Mode	Band 1	Band 3	Band 7	Band 8	Band 20
1.4	QPSK	N/A	23.5±1dBm	N/A	23.5±1dBm	N/A
3	QPSK	N/A	N/A	N/A	N/A	N/A
5	QPSK	23.5±1dBm	23.5±1dBm	23±1dBm	23.5±1dBm	23.5±1dBm
10	QPSK	N/A	N/A	N/A	23.7±1dBm	N/A
20	QPSK	23.7±1dBm	23.5±1dBm	23.2±1dBm	N/A	23.7±1dBm

BW[MHz]	Mode	Band 28	Band 34	Band 38	Band 40
1.4	QPSK	N/A	N/A	N/A	N/A
3	QPSK	23.2±1dBm	N/A	N/A	N/A
5	QPSK	23.2±1dBm	23.5±1dBm	24.5±1dBm	24±1dBm
10	QPSK	N/A	N/A	N/A	N/A
20	QPSK	23.5±1dBm	23.7±1dBm	24.7±1dBm	24±1dBm

BW[MHz]	Mode	N1	N3	N7	N8	N20	N28
5	DFT_BPSK	22±1dBm	22.2±1dBm	21.5±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
5	DFT_QPSK	22±1dBm	22.2±1dBm	21.5±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
15	DFT_BPSK	N/A	N/A	21.7±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
15	DFT_QPSK	N/A	N/A	21.7±1dBm	22.5±1dBm	22.5±1dBm	22.5±1dBm
20	DFT_BPSK	22±1dBm	22±1dBm	21.8±1dBm	22.7±1dBm	22.6±1dBm	22.6±1dBm
20	DFT_QPSK	22±1dBm	22±1dBm	21.8±1dBm	22.7±1dBm	22.6±1dBm	22.6±1dBm
30	DFT_BPSK	N/A	22.3±1dBm	N/A	N/A	N/A	N/A
30	DFT_QPSK	N/A	22.3±1dBm	N/A	N/A	N/A	N/A
50	DFT_BPSK	22.2±1dBm	N/A	N/A	N/A	N/A	N/A
50	DFT_QPSK	22.2±1dBm	N/A	N/A	N/A	N/A	N/A



BW[MHz]	Mode	N38	N40	N41	N77	N78
10	DFT_BPSK	21.5±1dBm	21.5±1dBm	21±1dBm	21.5±1dBm	21.6±1dBm
10	DFT_QPSK	21.5±1dBm	21.5±1dBm	21±1dBm	21.5±1dBm	21.6±1dBm
20	DFT_BPSK	21.5±1dBm	N/A	N/A	N/A	N/A
20	DFT_QPSK	21.5±1dBm	N/A	N/A	N/A	N/A
40	DFT_BPSK	21.6±1dBm	21.7±1dBm	N/A	N/A	N/A
40	DFT_QPSK	21.6±1dBm	21.7±1dBm	N/A	N/A	N/A
50	DFT_BPSK	N/A	N/A	21±1dBm	21.7±1dBm	22±1dBm
50	DFT_QPSK	N/A	N/A	21±1dBm	21.7±1dBm	22±1dBm
80	DFT_BPSK	N/A	21.8±1dBm	N/A	N/A	N/A
80	DFT_QPSK	N/A	21.8±1dBm	N/A	N/A	N/A
100	DFT_BPSK	N/A	N/A	21.2±1dBm	22±1dBm	22±1dBm
100	DFT_QPSK	N/A	N/A	21.2±1dBm	22±1dBm	22±1dBm

BW[MHz]	Mode	NSA N78+B8
10	DFT_BPSK	22.3±1dBm
10	DFT_QPSK	22.3±1dBm
100	DFT_BPSK	22.5±1dBm
100	DFT_QPSK	22.5±1dBm

Mode	BT
GFSK	7.3±1dBm
$\pi/4$ -DQPSK	5.7±1dBm
8DPSK	5.7±1dBm

Mode	BLE
GFSK(1Mbps)	7±1dBm
	7±1dBm
	5±1dBm
GFSK(2Mbps)	7±1dBm
	7.2±1dBm
	5.3±1dBm

Mode	NFC
GFSK	-44±1dBm

2.4G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11b	15±1dBm	14.5±1dBm	N/A
802.11g	13.5±1dBm	12.5±1dBm	N/A
802.11n(HT20)	13.5±1dBm	12.5±1dBm	13.3±1dBm
802.11n(HT40)	13.5±1dBm	12.5±1dBm	12.5±1dBm
802.11ax (HE20)	13.5±1dBm	13±1dBm	13.2±1dBm
802.11ax (HE40)	13.5±1dBm	12.5±1dBm	13±1dBm



5.2G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	9±1dBm	9.3±1dBm	N/A
802.11n-HT20	9±1dBm	9.2±1dBm	11.1±1dBm
802.11n-HT40	9.3±1dBm	9.2±1dBm	10.5±1dBm
802.11ac80	9.2±1dBm	8.5±1dBm	10±1dBm
802.11ax80	9.2±1dBm	9±1dBm	10±1dBm

5.3G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	9±1dBm	9±1dBm	N/A
802.11n-HT20	9±1dBm	9±1dBm	11±1dBm
802.11n-HT40	9.2±1dBm	9.1±1dBm	11.2±1dBm
802.11ac80	9±1dBm	8.2±1dBm	10±1dBm
802.11ax80	9.3±1dBm	9±1dBm	10±1dBm

5.6G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	11.2±1dBm	10.1±1dBm	N/A
802.11n-HT20	10±1dBm	9±1dBm	10.8±1dBm
802.11n-HT40	10.2±1dBm	9.3±1dBm	11.2±1dBm
802.11ac80	10±1dBm	9±1dBm	11±1dBm
802.11ax80	10.2±1dBm	9.5±1dBm	11±1dBm

5.8G WLAN			
Mode	ANT 1	ANT 2	MIMO
802.11a	12.5±1dBm	11.5±1dBm	N/A
802.11n-HT20	11.3±1dBm	10.7±1dBm	11±1dBm
802.11n-HT40	11.5±1dBm	10.7±1dBm	11.2±1dBm
802.11ac80	11.3±1dBm	10.5±1dBm	11±1dBm
802.11ax80	11.5±1dBm	10.7±1dBm	11.3±1dBm

10. Test Photos and Results

10.1 EUT Photos

Front side

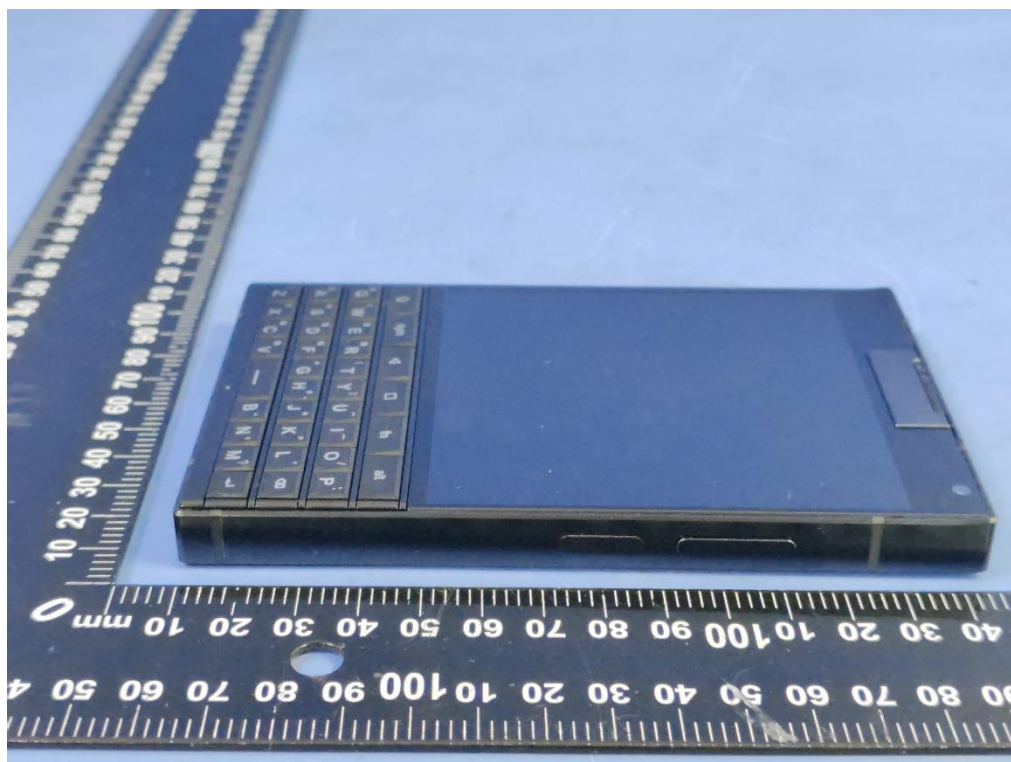


Back side

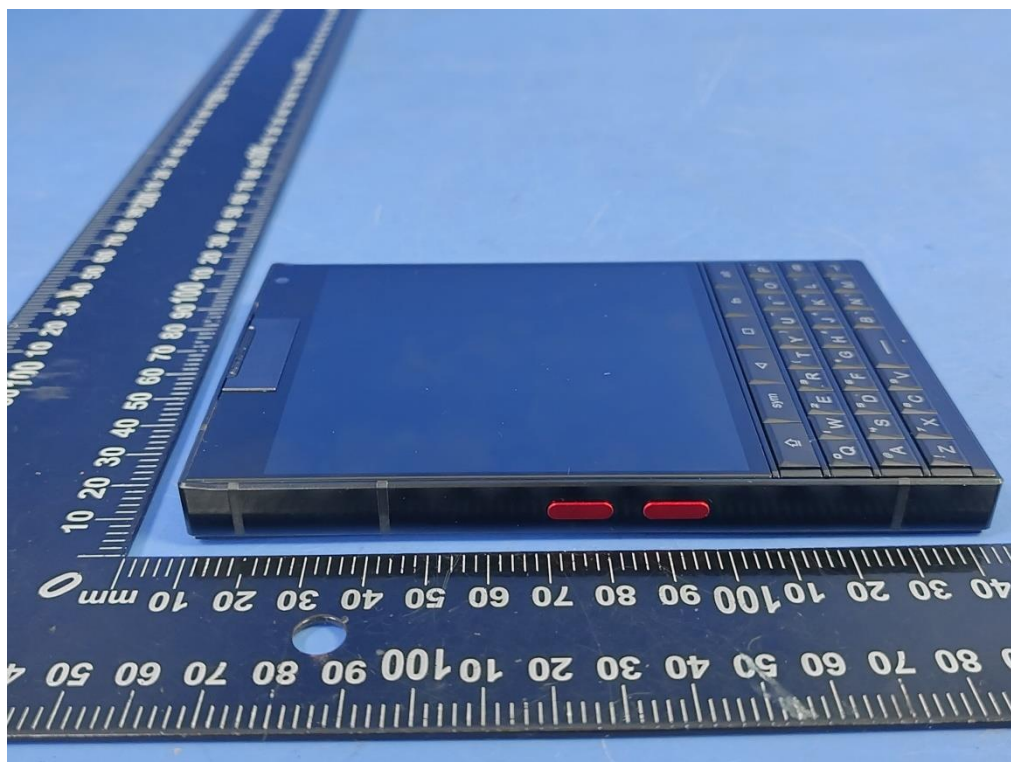




Right Edge

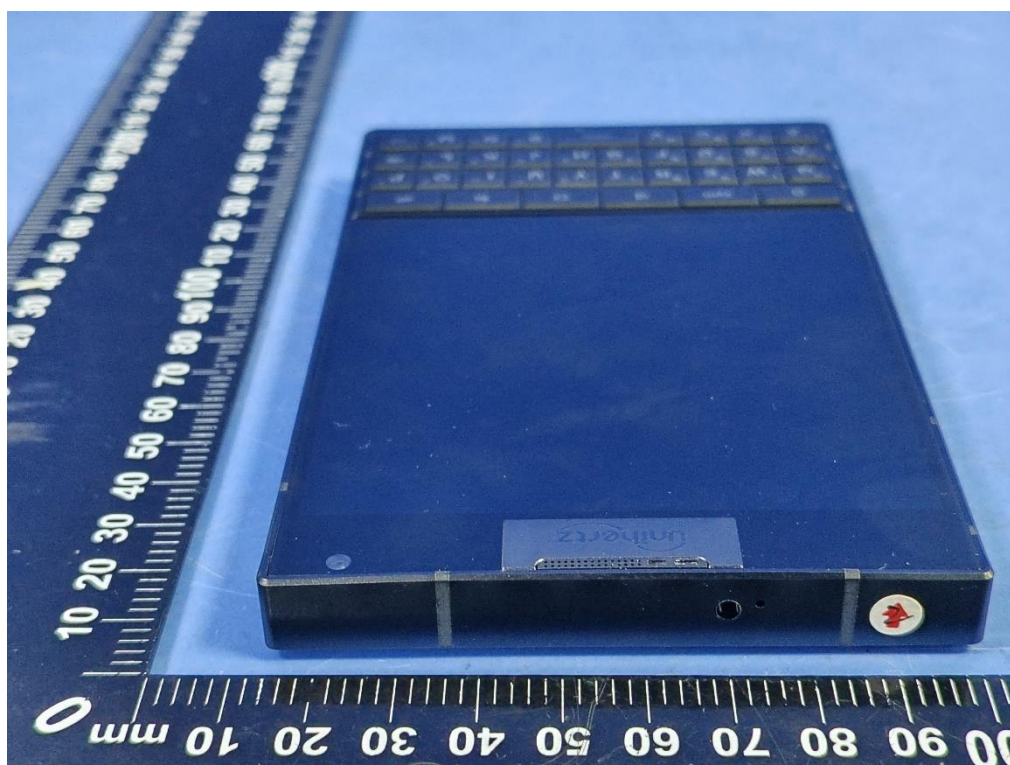


Left Edge





Top Edge



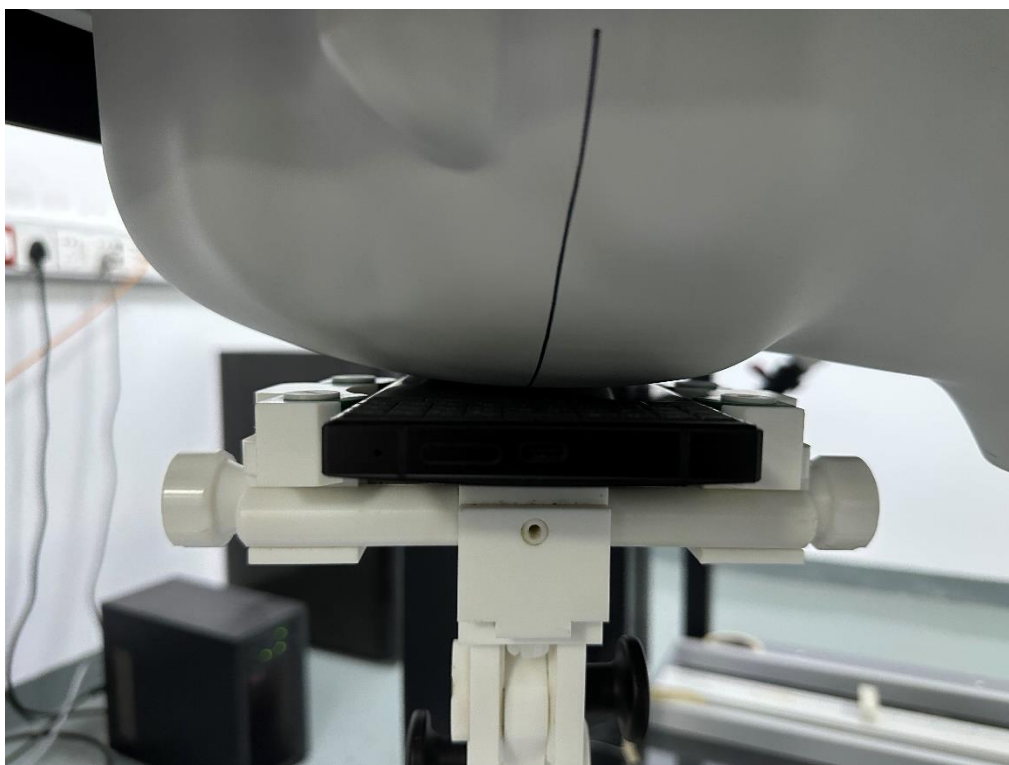
Bottom Edge



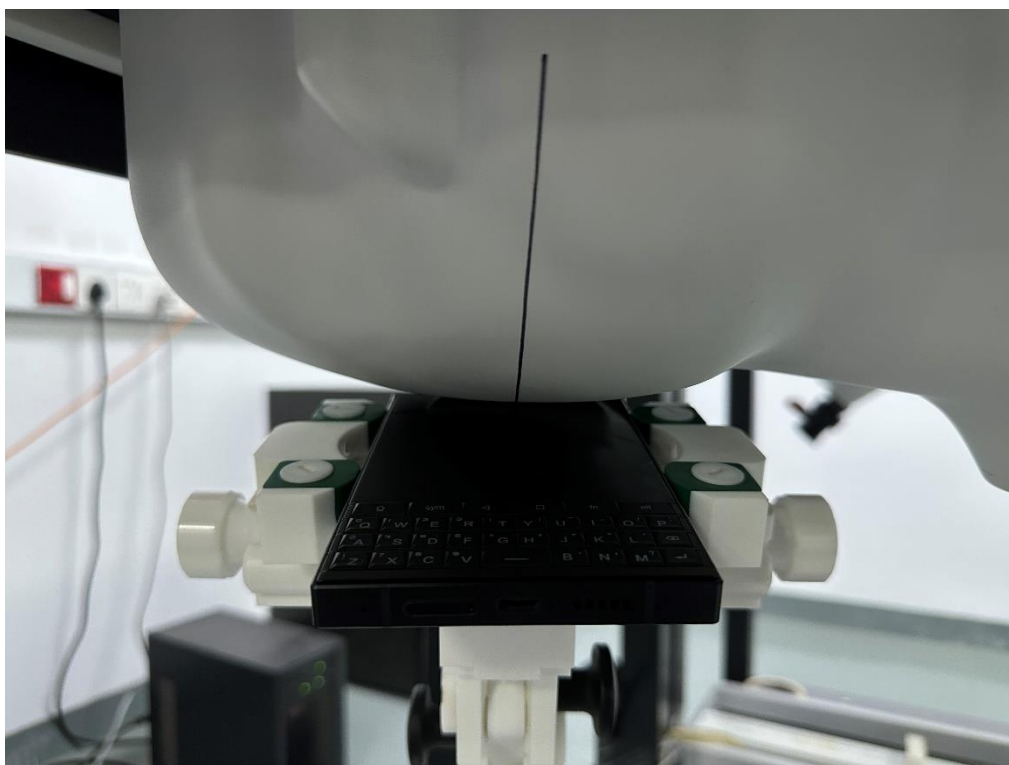


10.2 Setup Photos

Right Touch

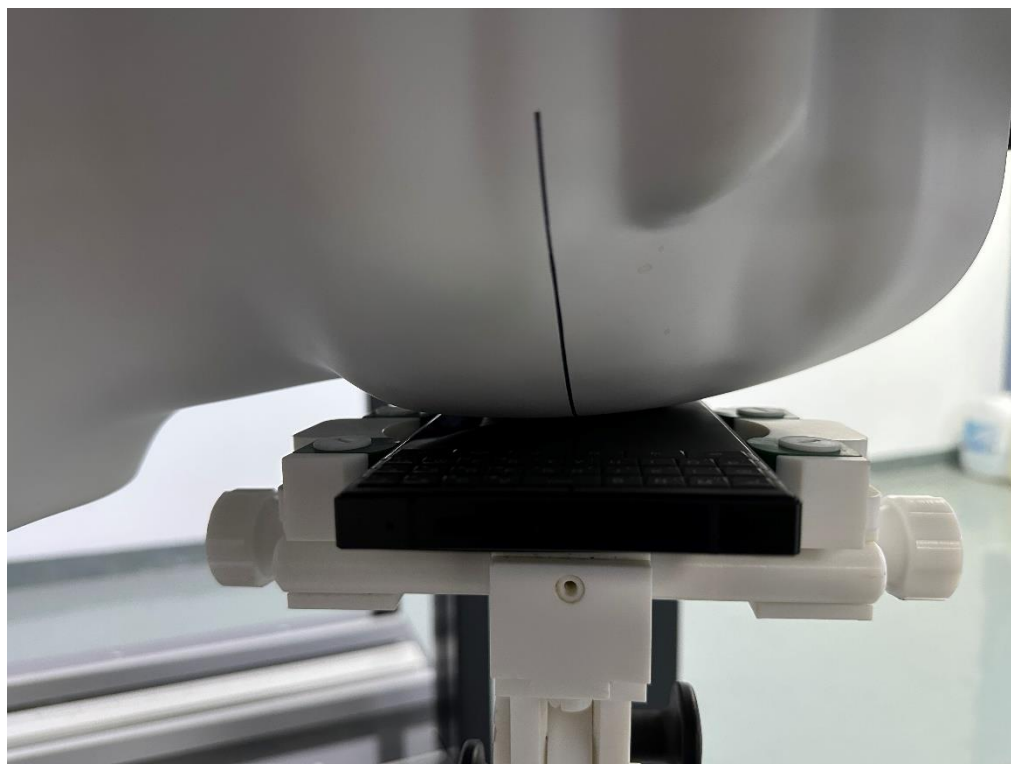


Right Tilt

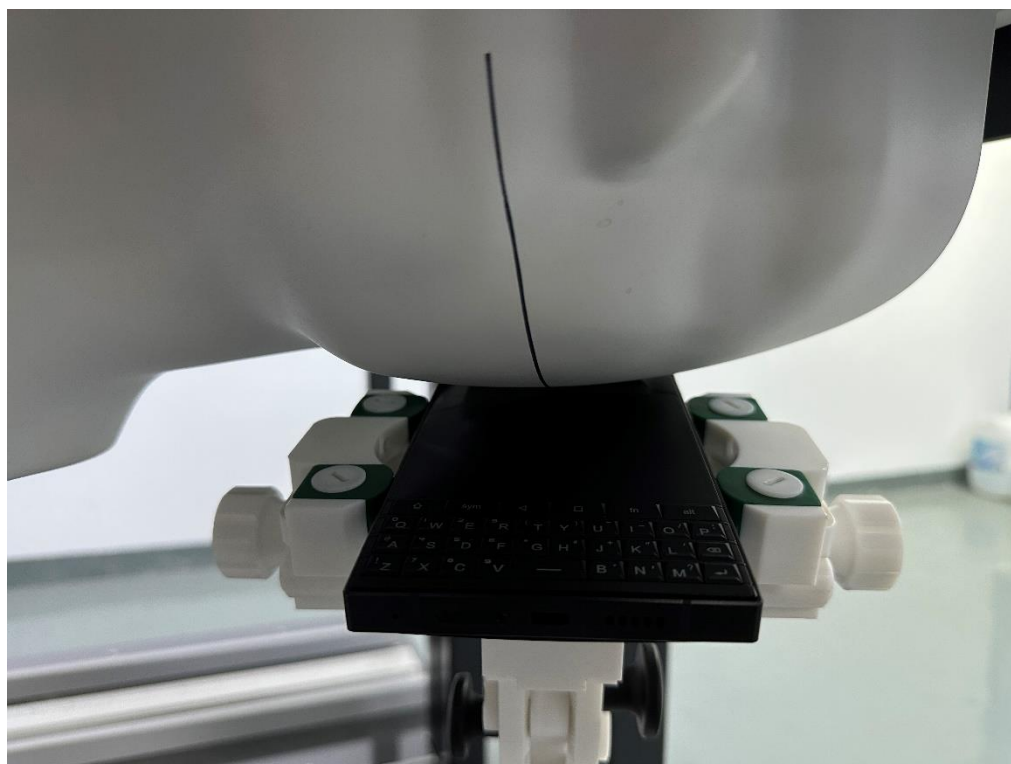




Left Touch



Left Tilt

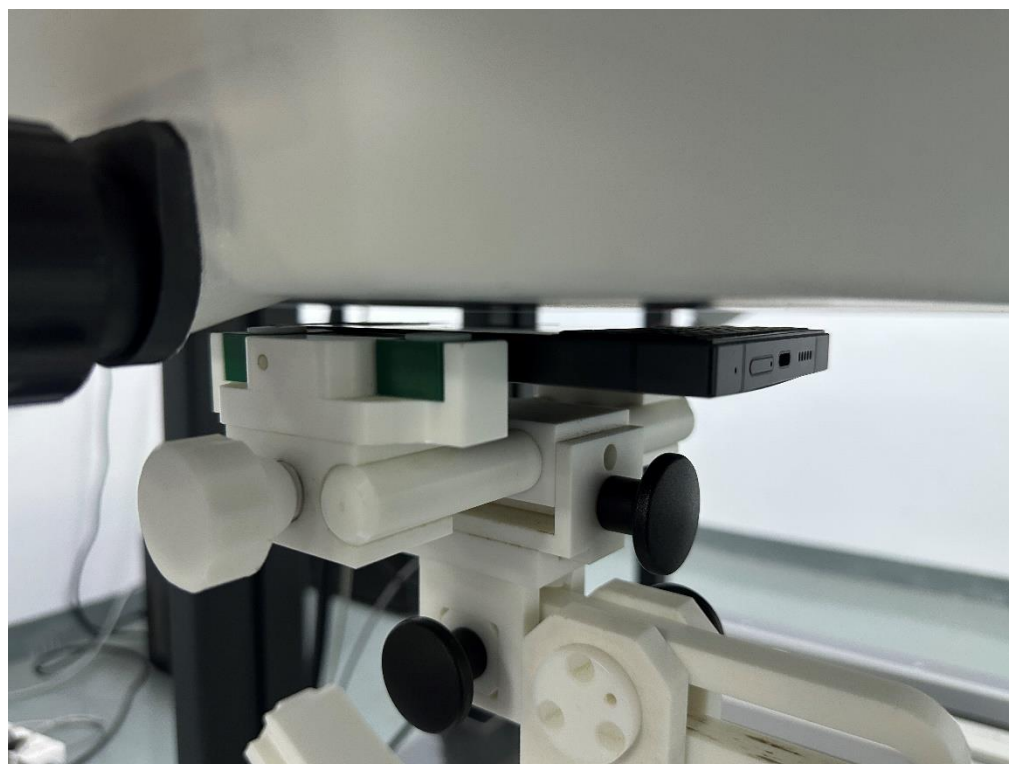




Body Front side

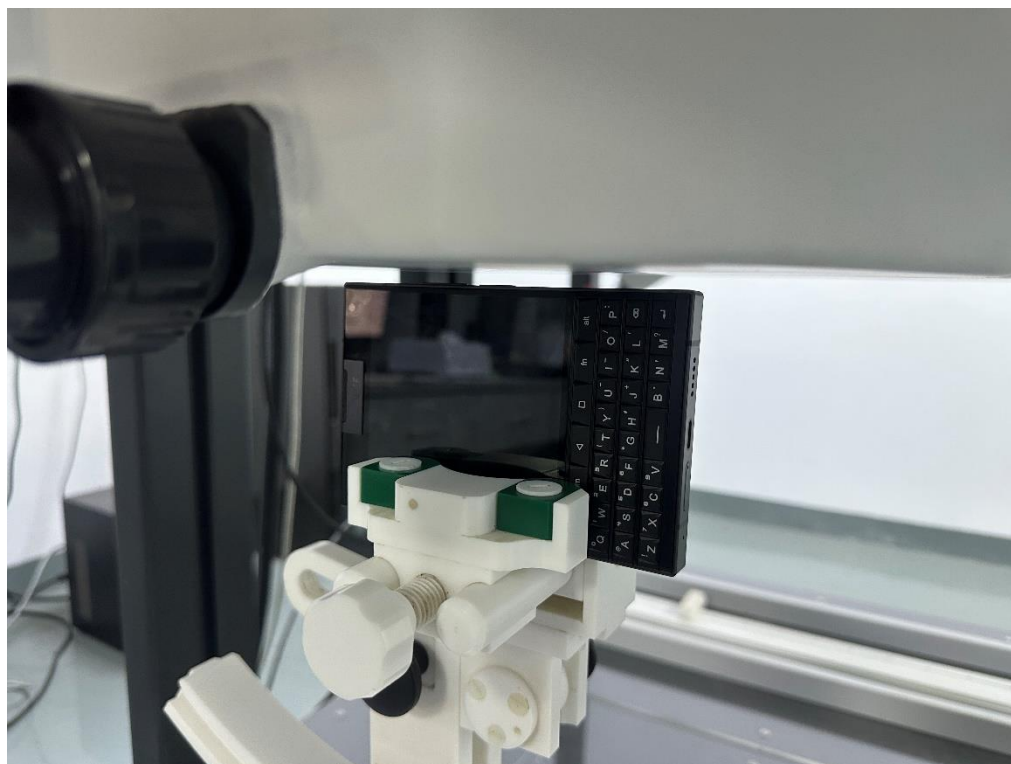


Body Back side

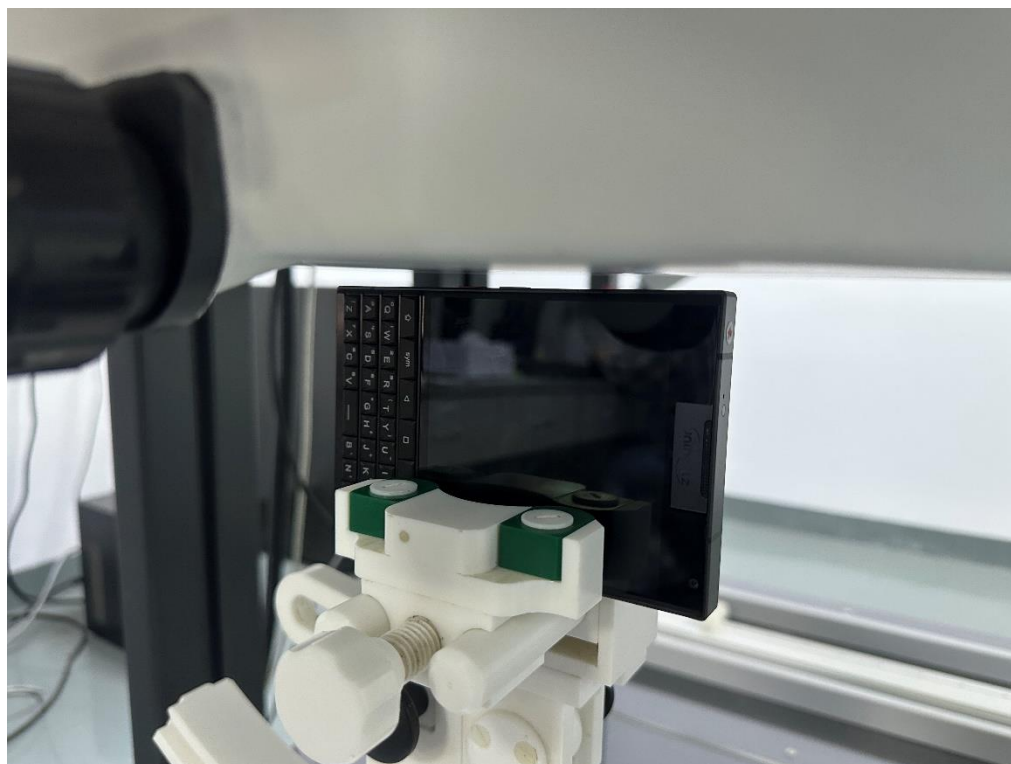




Body Right side



Body Left side



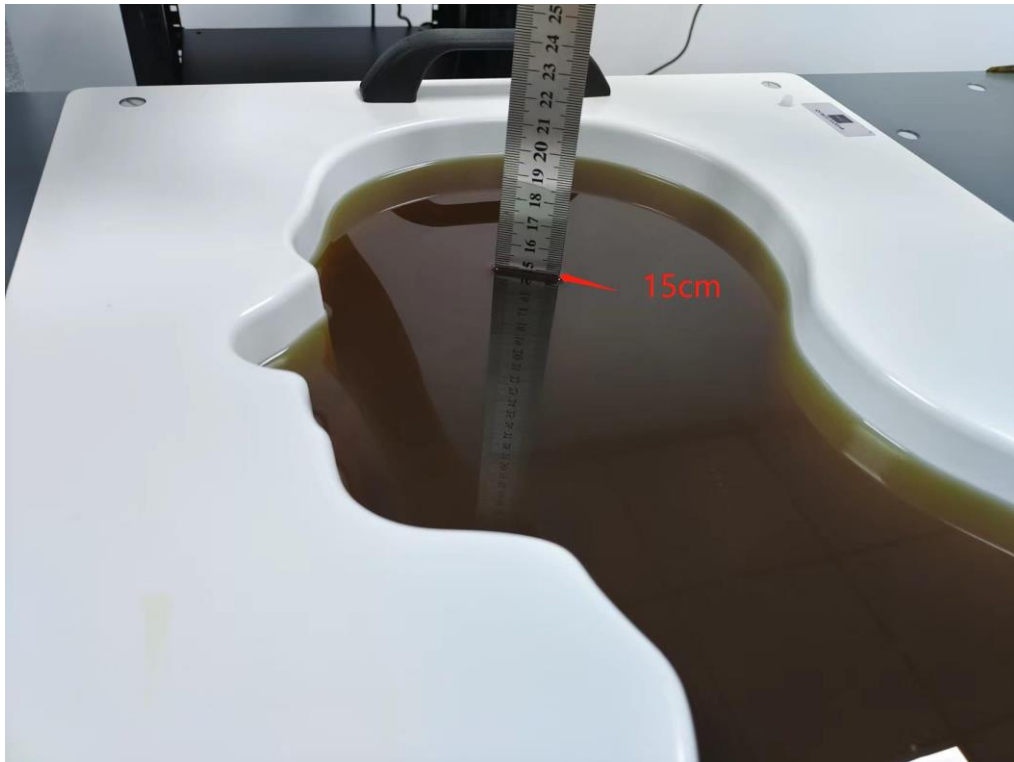
Top Edge



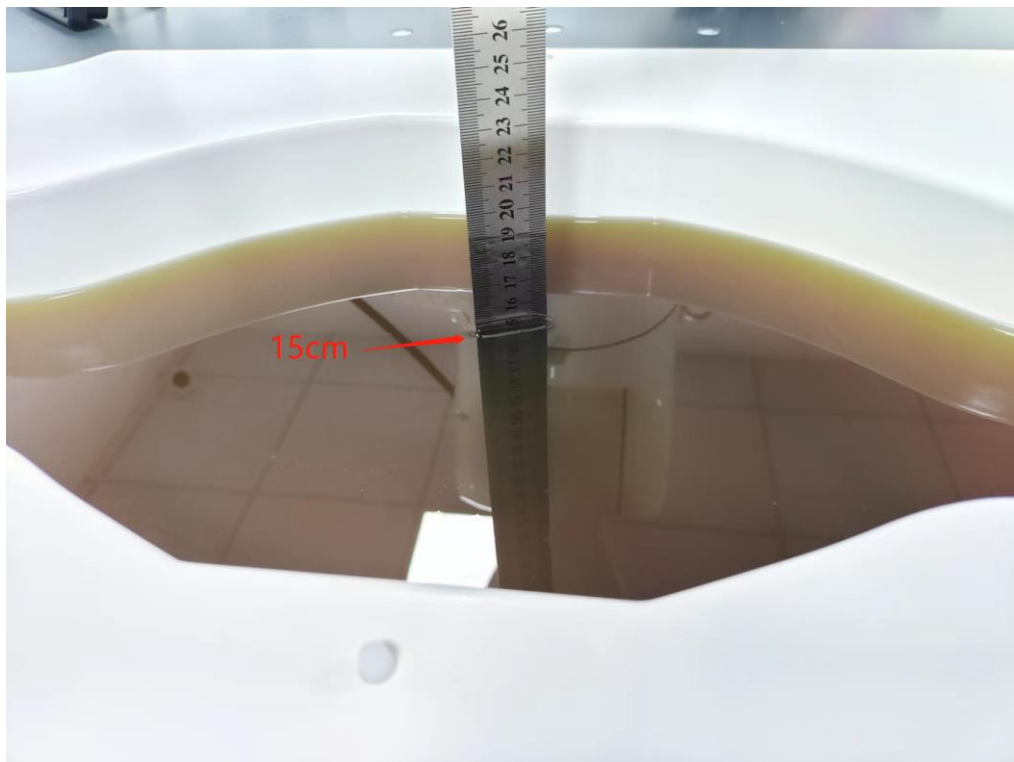
Bottom Edge



Liquid depth (15 cm)



Liquid depth (15 cm)





11. SAR Result Summary

11.1 Head SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM900	Voice	Right Cheek	880.2	0.147	-1.47	31.50	31.41	0.150	/
		Right Tilt	880.2	0.133	3.80	31.50	31.41	0.136	/
		Left Cheek	880.2	0.371	-1.53	31.50	31.41	0.379	1
		Left Tilt	880.2	0.337	0.45	31.50	31.41	0.344	/
GSM1800	Voice	Right Cheek	1784.8	0.069	-1.01	29.50	29.26	0.073	/
		Right Tilt	1784.8	0.065	0.69	29.50	29.26	0.069	/
		Left Cheek	1784.8	0.079	-1.10	29.50	29.26	0.083	3
		Left Tilt	1784.8	0.072	0.28	29.50	29.26	0.076	/
WCDMA Band I	RMC	Right Cheek	1922.4	0.222	1.51	24.50	24.47	0.224	/
		Right Tilt	1922.4	0.202	3.02	24.50	24.47	0.203	/
		Left Cheek	1922.4	0.262	0.86	24.50	24.47	0.264	5
		Left Tilt	1922.4	0.242	-0.50	24.50	24.47	0.244	/
WCDMA Band VIII	RMC	Right Cheek	882.4	0.270	-1.09	24.50	24.25	0.286	/
		Right Tilt	882.4	0.243	-2.14	24.50	24.25	0.257	/
		Left Cheek	882.4	0.319	0.28	24.50	24.25	0.338	7
		Left Tilt	882.4	0.291	2.58	24.50	24.25	0.308	/
LTE Band 1	20MHz BW, 1RB Offset 0	Right Cheek	1950	0.140	-2.94	24.70	24.53	0.146	/
		Right Tilt	1950	0.127	-0.25	24.70	24.53	0.132	/
		Left Cheek	1950	0.161	-0.81	24.70	24.53	0.167	9
		Left Tilt	1950	0.146	2.29	24.70	24.53	0.152	/
LTE Band 3	20MHz BW, 1RB Offset 0	Right Cheek	1775	0.078	-3.21	24.50	24.42	0.079	/
		Right Tilt	1775	0.074	-1.37	24.50	24.42	0.075	/
		Left Cheek	1775	0.091	1.36	24.50	24.42	0.093	11
		Left Tilt	1775	0.082	-1.12	24.50	24.42	0.084	/
LTE Band 7	20MHz BW, 1RB Offset 0	Right Cheek	2510	0.257	-1.10	24.20	23.95	0.272	/
		Right Tilt	2510	0.233	0.20	24.20	23.95	0.247	/
		Left Cheek	2510	0.302	3.77	24.20	23.95	0.320	13
		Left Tilt	2510	0.277	-3.07	24.20	23.95	0.293	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	885	0.234	3.14	24.70	24.46	0.247	/
		Right Tilt	885	0.214	0.04	24.70	24.46	0.226	/
		Left Cheek	885	0.275	2.95	24.70	24.46	0.291	15
		Left Tilt	885	0.252	-1.38	24.70	24.46	0.266	/
LTE Band 20	20MHz BW, 1RB Offset 0	Right Cheek	847	0.149	3.52	24.70	24.42	0.159	/
		Right Tilt	847	0.139	0.35	24.70	24.42	0.148	/
		Left Cheek	847	0.176	1.51	24.70	24.42	0.188	17
		Left Tilt	847	0.162	3.45	24.70	24.42	0.173	/
LTE Band 28	20MHz BW, 1RB Offset 0	Right Cheek	713	0.087	-0.54	24.50	24.13	0.095	/
		Right Tilt	713	0.080	-3.58	24.50	24.13	0.087	/
		Left Cheek	713	0.100	2.99	24.50	24.13	0.109	19
		Left Tilt	713	0.090	-1.60	24.50	24.13	0.098	/
LTE Band 34	15MHz BW, 16RB	Right Cheek	2017.5	0.387	-0.01	24.70	24.53	0.402	/
		Right Tilt	2017.5	0.351	0.68	24.70	24.53	0.365	/



	Offset 0	Left Cheek	2017.5	0.454	3.97	24.70	24.53	0.472	21
		Left Tilt	2017.5	0.413	-0.02	24.70	24.53	0.429	/
LTE Band 38	20MHz BW, 1RB Offset 0	Right Cheek	2610	0.164	-0.04	25.70	25.22	0.183	/
		Right Tilt	2610	0.148	0.40	25.70	25.22	0.165	/
		Left Cheek	2610	0.191	-1.58	25.70	25.22	0.213	23
		Left Tilt	2610	0.176	2.80	25.70	25.22	0.197	/
LTE Band 40	20MHz BW, 1RB Offset 0	Right Cheek	2310	0.214	0.94	25.00	24.85	0.222	/
		Right Tilt	2310	0.193	-1.41	25.00	24.85	0.200	/
		Left Cheek	2310	0.252	2.55	25.00	24.85	0.261	25
		Left Tilt	2310	0.233	-3.70	25.00	24.85	0.241	/
SA N1	20MHz 50RB offset 0	Right Cheek	1930	0.711	-1.04	23.20	22.89	0.764	/
		Right Tilt	1930	0.645	-2.44	23.20	22.89	0.693	/
		Left Cheek	1930	0.838	-2.62	23.20	22.89	0.900	27
		Left Cheek	1950	0.786	0.96	23.20	22.85	0.852	/
		Left Cheek	1970	0.733	-3.36	23.20	22.78	0.807	/
		Left Tilt	1930	0.757	-3.68	23.20	22.89	0.813	/
SA N3	20MHz 1RB offset 0	Right Cheek	1725	0.643	2.17	23.30	23.05	0.681	/
		Right Tilt	1725	0.581	2.65	23.30	23.05	0.615	/
		Left Cheek	1725	0.755	0.92	23.30	23.05	0.800	29
		Left Tilt	1725	0.680	3.10	23.30	23.05	0.720	/
SA N7	20MHz 50RB offset 0	Right Cheek	2560	0.244	3.88	22.80	22.30	0.274	/
		Right Tilt	2560	0.221	1.36	22.80	22.30	0.248	/
		Left Cheek	2560	0.288	-2.36	22.80	22.30	0.323	31
		Left Tilt	2560	0.263	1.46	22.80	22.30	0.295	/
SA N8	20MHz 50RB offset 0	Right Cheek	897.5	0.089	2.75	23.70	23.47	0.094	/
		Right Tilt	897.5	0.083	2.12	23.70	23.47	0.088	/
		Left Cheek	897.5	0.102	1.57	23.70	23.47	0.108	33
		Left Tilt	897.5	0.095	-3.15	23.70	23.47	0.100	/
SA N20	20MHz 50RB offset 0	Right Cheek	847	0.147	-2.11	23.60	23.14	0.163	/
		Right Tilt	847	0.134	2.19	23.60	23.14	0.149	/
		Left Cheek	847	0.173	1.34	23.60	23.14	0.192	35
		Left Tilt	847	0.159	3.10	23.60	23.14	0.177	/
SA N28	20MHz 1RB offset 0	Right Cheek	738	0.056	0.63	23.60	23.41	0.059	/
		Right Tilt	738	0.055	3.73	23.60	23.41	0.057	/
		Left Cheek	738	0.067	1.71	23.60	23.41	0.070	37
		Left Tilt	738	0.065	1.82	23.60	23.41	0.068	/
SA N38	20MHz 25RB offset 0	Right Cheek	2600	0.258	-3.62	22.60	22.37	0.272	/
		Right Tilt	2600	0.234	-0.45	22.60	22.37	0.247	/
		Left Cheek	2600	0.300	1.91	22.60	22.37	0.316	39
		Left Tilt	2600	0.272	-1.57	22.60	22.37	0.287	/
SA N40	80MHz 1RB offset 0	Right Cheek	2360	0.440	3.10	22.80	22.49	0.473	/
		Right Tilt	2360	0.401	-1.09	22.80	22.49	0.431	/
		Left Cheek	2360	0.518	3.77	22.80	22.49	0.556	41
		Left Tilt	2360	0.470	-3.24	22.80	22.49	0.505	/
SA N41	100MHz 135RB offset 0	Right Cheek	2640	0.366	2.38	22.20	21.91	0.391	/
		Right Tilt	2640	0.333	-2.62	22.20	21.91	0.356	/
		Left Cheek	2640	0.430	1.60	22.20	21.91	0.460	43
		Left Tilt	2640	0.391	-2.48	22.20	21.91	0.418	/



SA N77	100MHz 135RB offset 0	Right Cheek	3800	0.188	-2.50	23.00	22.64	0.204	/
		Right Tilt	3800	0.170	-3.99	23.00	22.64	0.185	/
		Left Cheek	3800	0.221	-0.52	23.00	22.64	0.240	45
		Left Tilt	3800	0.200	0.41	23.00	22.64	0.217	/
SA N78	100MHz 135RB offset 0	Right Cheek	3750	0.136	1.94	23.00	22.85	0.141	/
		Right Tilt	3750	0.125	-3.17	23.00	22.85	0.129	/
		Left Cheek	3750	0.156	0.55	23.00	22.85	0.161	47
		Left Tilt	3750	0.146	2.57	23.00	22.85	0.151	/
2.4GHz WLAN ANT 1	802.11b	Right Cheek	2442	0.044	2.65	16.00	15.78	0.046	/
		Right Tilt	2442	0.061	2.65	16.00	15.78	0.064	/
		Left Cheek	2442	0.051	2.65	16.00	15.78	0.054	/
		Left Tilt	2442	0.067	2.65	16.00	15.78	0.070	49
2.4GHz WLAN ANT 2	802.11b	Right Cheek	2442	0.059	-1.77	15.50	15.22	0.063	/
		Right Tilt	2442	0.082	-1.77	15.50	15.22	0.087	/
		Left Cheek	2442	0.073	-1.77	15.50	15.22	0.078	/
		Left Tilt	2442	0.104	-1.77	15.50	15.22	0.111	51
2.4GHz WLAN MIMO 1	802.11ax- HE20	Right Cheek	2442	0.035	2.08	14.30	14.09	0.037	/
		Right Tilt	2442	0.041	2.08	14.30	14.09	0.043	/
		Left Cheek	2442	0.034	2.08	14.30	14.09	0.036	/
		Left Tilt	2442	0.047	2.08	14.30	14.09	0.049	53
2.4GHz WLAN MIMO 2	802.11ax- HE20	Right Cheek	2442	0.036	2.08	14.30	14.09	0.038	/
		Right Tilt	2442	0.045	2.08	14.30	14.09	0.047	/
		Left Cheek	2442	0.043	2.08	14.30	14.09	0.045	/
		Left Tilt	2442	0.054	2.08	14.30	14.09	0.057	55
5.2GHz WLAN ANT 1	802.11ax80	Right Cheek	5210	0.090	2.99	10.30	10.18	0.093	/
		Right Tilt	5210	0.127	2.99	10.30	10.18	0.131	/
		Left Cheek	5210	0.113	2.99	10.30	10.18	0.116	/
		Left Tilt	5210	0.155	2.99	10.30	10.18	0.159	57
5.2GHz WLAN ANT 2	802.11a	Right Cheek	5180	0.138	-1.42	10.30	10.18	0.142	/
		Right Tilt	5180	0.196	-1.42	10.30	10.18	0.201	59
		Left Cheek	5180	0.108	-1.42	10.30	10.18	0.111	/
		Left Tilt	5180	0.147	-1.42	10.30	10.18	0.151	/
5.2GHz WLAN MIMO 1	802.11n- HT20	Right Cheek	5180	0.026	-3.81	12.10	11.95	0.027	/
		Right Tilt	5180	0.034	-3.81	12.10	11.95	0.035	/
		Left Cheek	5180	0.033	-3.81	12.10	11.95	0.034	/
		Left Tilt	5180	0.044	-3.81	12.10	11.95	0.046	61
5.2GHz WLAN MIMO 2	802.11n- HT20	Right Cheek	5180	0.041	-3.81	12.10	11.95	0.042	/
		Right Tilt	5180	0.057	-3.81	12.10	11.95	0.059	/
		Left Cheek	5180	0.052	-3.81	12.10	11.95	0.054	/
		Left Tilt	5180	0.071	-3.81	12.10	11.95	0.073	63
5.3GHz WLAN ANT 1	802.11ax80	Right Cheek	5290	0.090	-0.04	10.30	10.12	0.094	/
		Right Tilt	5290	0.121	-0.04	10.30	10.12	0.126	/
		Left Cheek	5290	0.106	-0.04	10.30	10.12	0.110	/
		Left Tilt	5290	0.151	-0.04	10.30	10.12	0.157	65
5.3GHz WLAN ANT 2	802.11n- HT40	Right Cheek	5310	0.107	2.03	10.10	9.84	0.114	/
		Right Tilt	5310	0.153	2.03	10.10	9.84	0.162	67
		Left Cheek	5310	0.078	2.03	10.10	9.84	0.083	/
		Left Tilt	5310	0.109	2.03	10.10	9.84	0.116	/



5.3GHz WLAN MIMO 1	802.11n- HT40	Right Cheek	5310	0.080	0.55	13.20	12.00	0.105	/
		Right Tilt	5310	0.112	0.55	13.20	12.00	0.148	/
		Left Cheek	5310	0.098	0.55	13.20	12.00	0.129	/
		Left Tilt	5310	0.137	0.55	13.20	12.00	0.181	69
5.3GHz WLAN MIMO 2	802.11n- HT40	Right Cheek	5310	0.063	0.55	13.20	12.00	0.083	/
		Right Tilt	5310	0.086	0.55	13.20	12.00	0.113	/
		Left Cheek	5310	0.076	0.55	13.20	12.00	0.100	/
		Left Tilt	5310	0.104	0.55	13.20	12.00	0.137	71
5.6GHz WLAN ANT 1	802.11a	Right Cheek	5500	0.134	1.25	12.20	12.03	0.139	/
		Right Tilt	5500	0.187	1.25	12.20	12.03	0.194	73
		Left Cheek	5500	0.120	1.25	12.20	12.03	0.125	/
		Left Tilt	5500	0.165	1.25	12.20	12.03	0.172	/
5.6GHz WLAN ANT 2	802.11a	Right Cheek	5500	0.127	1.13	11.10	10.95	0.131	/
		Right Tilt	5500	0.179	1.13	11.10	10.95	0.185	75
		Left Cheek	5500	0.093	1.13	11.10	10.95	0.096	/
		Left Tilt	5500	0.127	1.13	11.10	10.95	0.131	/
5.6GHz WLAN MIMO 1	802.11n- HT40	Right Cheek	5510	0.091	-0.42	12.20	11.96	0.096	/
		Right Tilt	5510	0.130	-0.42	12.20	11.96	0.137	/
		Left Cheek	5510	0.115	-0.42	12.20	11.96	0.122	/
		Left Tilt	5510	0.164	-0.42	12.20	11.96	0.173	77
5.6GHz WLAN MIMO 2	802.11n- HT40	Right Cheek	5510	0.052	-0.42	12.20	11.96	0.055	/
		Right Tilt	5510	0.068	-0.42	12.20	11.96	0.072	/
		Left Cheek	5510	0.062	-0.42	12.20	11.96	0.066	/
		Left Tilt	5510	0.082	-0.42	12.20	11.96	0.087	79
5.8GHz WLAN ANT 1	802.11a	Right Cheek	5745	0.175	1.39	13.50	13.34	0.182	/
		Right Tilt	5745	0.246	1.39	13.50	13.34	0.255	81
		Left Cheek	5745	0.130	1.39	13.50	13.34	0.135	/
		Left Tilt	5745	0.178	1.39	13.50	13.34	0.185	/
5.8GHz WLAN ANT 2	802.11a	Right Cheek	5785	0.155	0.92	12.50	12.45	0.157	/
		Right Tilt	5785	0.218	0.92	12.50	12.45	0.221	83
		Left Cheek	5785	0.109	0.92	12.50	12.45	0.110	/
		Left Tilt	5785	0.154	0.92	12.50	12.45	0.156	/
5.8GHz WLAN MIMO 1	802.11ax80	Right Cheek	5775	0.098	0.56	12.30	12.19	0.101	/
		Right Tilt	5775	0.137	0.56	12.30	12.19	0.141	/
		Left Cheek	5775	0.125	0.56	12.30	12.19	0.128	/
		Left Tilt	5775	0.173	0.56	12.30	12.19	0.177	85
5.8GHz WLAN MIMO 2	802.11ax80	Right Cheek	5775	0.023	0.56	12.30	12.19	0.024	/
		Right Tilt	5775	0.026	0.56	12.30	12.19	0.027	/
		Left Cheek	5775	0.024	0.56	12.30	12.19	0.025	/
		Left Tilt	5775	0.033	0.56	12.30	12.19	0.034	87
BT	GF	Right Cheek	2441	0.093	-2.63	8.30	8.19	0.095	89
		Right Tilt	2441	0.061	-1.99	8.30	8.19	0.063	/
		Left Cheek	2441	0.085	-2.96	8.30	8.19	0.087	/
		Left Tilt	2441	0.070	-1.92	8.30	8.19	0.072	/



Band	Mode	Max SAR	WIFI MIMO
		(W/Kg)	
2.4G WLAN	802.11ax-HE20	0.049	0.106
	802.11ax-HE20	0.057	
5.2G WLAN	802.11n-HT20	0.046	0.119
	802.11n-HT20	0.073	
5.3G WLAN	802.11n-HT40	0.181	0.318
	802.11n-HT40	0.137	
5.6G WLAN	802.11n-HT40	0.173	0.260
	802.11n-HT40	0.087	
5.8G WLAN	802.11ax80	0.177	0.211
	802.11n-HT40	0.034	

NSA:

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
SA N78	100MHz 135RB offset 0	Right Cheek	3750	0.136	3.71	23.00	22.85	0.141	/
		Right Tilt	3750	0.125	2.23	23.00	22.85	0.129	/
		Left Cheek	3750	0.156	2.69	23.00	22.85	0.161	47
		Left Tilt	3750	0.146	0.27	23.00	22.85	0.151	/
LTE Band 8	10MHz BW, 12RB Offset 0	Right Cheek	885	0.234	2.18	24.70	24.46	0.247	/
		Right Tilt	885	0.214	3.05	24.70	24.46	0.226	/
		Left Cheek	885	0.275	2.94	24.70	24.46	0.291	15
		Left Tilt	885	0.252	-1.77	24.70	24.46	0.266	/

Band	Mode	Max SAR	NSA_N78+B8
		(W/Kg)	
NSA_N78+B8	N78	0.161	0.452
	LTE B8	0.291	



11.2 Body SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM900	GPRS (GMSK, 4-Slot)	Front Side	902.4	0.484	-0.85	27.50	27.37	0.499	/
		Back Side	902.4	0.857	0.64	27.50	27.37	0.883	/
		Left Edge	902.4	0.248	1.07	27.50	27.37	0.256	/
		Right Edge	902.4	0.160	-0.27	27.50	27.37	0.165	/
		Top Edge	902.4	0.076	3.51	27.50	27.37	0.078	/
		Bottom Edge	880.2	1.018	0.71	27.50	27.34	1.056	/
		Bottom Edge	902.4	1.066	3.84	27.50	27.37	1.098	2
		Bottom Edge	914.8	0.925	3.17	27.50	27.06	1.024	/
GSM1800	GPRS (GMSK, 4-Slot)	Front Side	1784.8	0.388	-1.65	25.00	24.91	0.396	/
		Back Side	1784.8	0.685	1.12	25.00	24.91	0.699	/
		Left Edge	1784.8	0.199	-3.05	25.00	24.91	0.203	/
		Right Edge	1784.8	0.127	2.71	25.00	24.91	0.130	/
		Top Edge	1784.8	0.062	-2.29	25.00	24.91	0.063	/
		Bottom Edge	1784.8	0.853	-3.92	25.00	24.91	0.871	4
WCDMA Band I	RMC	Front Side	1922.4	0.399	1.09	24.50	24.47	0.402	/
		Back Side	1922.4	0.705	-0.16	24.50	24.47	0.710	/
		Left Edge	1922.4	0.202	-2.49	24.50	24.47	0.203	/
		Right Edge	1922.4	0.135	-1.25	24.50	24.47	0.136	/
		Top Edge	1922.4	0.062	0.36	24.50	24.47	0.062	/
		Bottom Edge	1922.4	0.880	-2.89	24.50	24.47	0.886	6
WCDMA Band VIII	RMC	Front Side	882.4	0.147	2.69	24.50	24.25	0.156	/
		Back Side	882.4	0.261	-1.32	24.50	24.25	0.276	/
		Left Edge	882.4	0.078	0.52	24.50	24.25	0.083	/
		Right Edge	882.4	0.049	-2.43	24.50	24.25	0.052	/
		Top Edge	882.4	0.026	-3.40	24.50	24.25	0.028	/
		Bottom Edge	882.4	0.327	-1.98	24.50	24.25	0.346	8
LTE Band 1	20MHz BW, 1RB Offset 0	Front Side	1950	0.256	-0.92	24.70	24.53	0.266	/
		Back Side	1950	0.459	2.84	24.70	24.53	0.477	/
		Left Edge	1950	0.135	2.32	24.70	24.53	0.140	/
		Right Edge	1950	0.084	1.38	24.70	24.53	0.087	/
		Top Edge	1950	0.042	0.58	24.70	24.53	0.044	/
		Bottom Edge	1950	0.571	-2.06	24.70	24.53	0.594	10
LTE Band 3	20MHz BW, 1RB Offset 0	Front Side	1775	0.390	-2.12	24.50	24.42	0.397	/
		Back Side	1775	0.689	-3.95	24.50	24.42	0.702	/
		Left Edge	1775	0.200	0.30	24.50	24.42	0.204	/
		Right Edge	1775	0.129	1.90	24.50	24.42	0.131	/
		Top Edge	1775	0.060	3.91	24.50	24.42	0.061	/
		Bottom Edge	1775	0.858	-3.49	24.50	24.42	0.874	12
LTE Band 7	20MHz BW, 1RB Offset 0	Front Side	2510	0.261	0.92	24.20	23.95	0.276	/
		Back Side	2510	0.461	-3.25	24.20	23.95	0.488	/
		Left Edge	2510	0.135	-0.80	24.20	23.95	0.143	/
		Right Edge	2510	0.087	-0.86	24.20	23.95	0.092	/
		Top Edge	2510	0.043	-3.47	24.20	23.95	0.046	/
		Bottom Edge	2510	0.577	3.38	24.20	23.95	0.611	14



LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	885	0.125	-0.02	24.70	24.46	0.132	/
		Back Side	885	0.219	3.66	24.70	24.46	0.231	/
		Left Edge	885	0.063	3.41	24.70	24.46	0.067	/
		Right Edge	885	0.044	-1.00	24.70	24.46	0.046	/
		Top Edge	885	0.019	-2.87	24.70	24.46	0.020	/
		Bottom Edge	885	0.269	-1.60	24.70	24.46	0.284	16
LTE Band 20	20MHz BW, 1RB Offset 0	Front Side	847	0.124	1.69	24.70	24.42	0.132	/
		Back Side	847	0.217	2.79	24.70	24.42	0.231	/
		Left Edge	847	0.066	-0.72	24.70	24.42	0.070	/
		Right Edge	847	0.043	3.36	24.70	24.42	0.046	/
		Top Edge	847	0.021	3.19	24.70	24.42	0.022	/
		Bottom Edge	847	0.268	-2.48	24.70	24.42	0.286	18
LTE Band 28	20MHz BW, 1RB Offset 0	Front Side	713	0.072	-3.64	24.50	24.13	0.078	/
		Back Side	713	0.127	-2.56	24.50	24.13	0.138	/
		Left Edge	713	0.037	-1.19	24.50	24.13	0.040	/
		Right Edge	713	0.026	-2.97	24.50	24.13	0.028	/
		Top Edge	713	0.015	3.56	24.50	24.13	0.016	/
		Bottom Edge	713	0.157	2.58	24.50	24.13	0.171	20
LTE Band 34	15MHz BW, 16RB Offset 0	Front Side	2017.5	0.490	2.41	24.70	24.53	0.510	/
		Back Side	2017.5	0.869	-0.43	24.70	24.53	0.904	/
		Left Edge	2017.5	0.249	-0.58	24.70	24.53	0.259	/
		Right Edge	2017.5	0.165	-1.23	24.70	24.53	0.172	/
		Top Edge	2017.5	0.077	-2.18	24.70	24.53	0.080	/
		Bottom Edge	2017.5	1.085	2.71	24.70	24.53	1.128	22
LTE Band 38	20MHz BW, 1RB Offset 0	Front Side	2610	0.180	3.58	25.70	25.22	0.201	/
		Back Side	2610	0.316	2.84	25.70	25.22	0.353	/
		Left Edge	2610	0.091	-0.61	25.70	25.22	0.102	/
		Right Edge	2610	0.060	-1.53	25.70	25.22	0.067	/
		Top Edge	2610	0.030	-2.20	25.70	25.22	0.034	/
		Bottom Edge	2610	0.394	3.99	25.70	25.22	0.440	24
LTE Band 40	20MHz BW, 1RB Offset 0	Front Side	2310	0.271	0.95	25.00	24.85	0.281	/
		Back Side	2310	0.476	2.20	25.00	24.85	0.493	/
		Left Edge	2310	0.136	3.09	25.00	24.85	0.141	/
		Right Edge	2310	0.092	-1.07	25.00	24.85	0.095	/
		Top Edge	2310	0.042	0.55	25.00	24.85	0.043	/
		Bottom Edge	2310	0.593	2.07	25.00	24.85	0.614	26
SA N1	20MHz 50RB offset 0	Front Side	1930	0.366	-0.45	23.20	22.89	0.393	/
		Back Side	1930	0.649	-2.87	23.20	22.89	0.697	/
		Left Edge	1930	0.188	-2.08	23.20	22.89	0.202	/
		Right Edge	1930	0.122	-0.09	23.20	22.89	0.131	/
		Top Edge	1930	0.059	3.80	23.20	22.89	0.063	/
		Bottom Edge	1930	0.807	0.91	23.20	22.89	0.867	28
SA N3	20MHz 1RB offset 0	Front Side	1725	0.399	0.48	23.30	23.05	0.423	/
		Back Side	1725	0.710	3.57	23.30	23.05	0.752	/
		Left Edge	1725	0.207	2.50	23.30	23.05	0.219	/
		Right Edge	1725	0.134	-0.23	23.30	23.05	0.142	/
		Top Edge	1725	0.064	3.60	23.30	23.05	0.068	/
		Bottom Edge	1725	0.884	2.71	23.30	23.05	0.936	30



SA N7	20MHz 50RB offset 0	Front Side	2560	0.252	-3.16	22.80	22.30	0.283	/
		Back Side	2560	0.448	-1.81	22.80	22.30	0.503	/
		Left Edge	2560	0.128	-0.68	22.80	22.30	0.144	/
		Right Edge	2560	0.083	-1.76	22.80	22.30	0.093	/
		Top Edge	2560	0.041	0.65	22.80	22.30	0.046	/
		Bottom Edge	2560	0.558	-2.56	22.80	22.30	0.626	32
SA N8	20MHz 50RB offset 0	Front Side	897.5	0.113	0.55	23.70	23.47	0.119	/
		Back Side	897.5	0.205	-2.42	23.70	23.47	0.216	/
		Left Edge	897.5	0.059	-3.45	23.70	23.47	0.062	/
		Right Edge	897.5	0.039	2.93	23.70	23.47	0.041	/
		Top Edge	897.5	0.017	-3.82	23.70	23.47	0.018	/
		Bottom Edge	897.5	0.251	0.33	23.70	23.47	0.265	34
SA N20	20MHz 50RB offset 0	Front Side	847	0.237	-2.15	23.60	23.14	0.263	/
		Back Side	847	0.420	-3.01	23.60	23.14	0.467	/
		Left Edge	847	0.123	3.19	23.60	23.14	0.137	/
		Right Edge	847	0.079	2.89	23.60	23.14	0.088	/
		Top Edge	847	0.039	-1.93	23.60	23.14	0.043	/
		Bottom Edge	847	0.525	-1.45	23.60	23.14	0.584	36
SA N28	20MHz 1RB offset 0	Front Side	738	0.056	0.15	23.60	23.41	0.059	/
		Back Side	738	0.095	1.82	23.60	23.41	0.099	/
		Left Edge	738	0.026	3.03	23.60	23.41	0.027	/
		Right Edge	738	0.020	2.66	23.60	23.41	0.021	/
		Top Edge	738	0.008	2.29	23.60	23.41	0.008	/
		Bottom Edge	738	0.115	-2.79	23.60	23.41	0.120	38
SA N38	20MHz 25RB offset 0	Front Side	2600	0.296	-2.03	22.60	22.37	0.312	/
		Back Side	2600	0.527	-0.65	22.60	22.37	0.556	/
		Left Edge	2600	0.086	0.87	22.60	22.37	0.091	/
		Right Edge	2600	0.262	0.23	22.60	22.37	0.276	/
		Top Edge	2600	0.655	2.67	22.60	22.37	0.691	40
		Bottom Edge	2600	0.047	-0.63	22.60	22.37	0.050	/
SA N40	80MHz 1RB offset 0	Front Side	2360	0.455	-3.04	22.80	22.49	0.489	/
		Back Side	2360	0.806	-0.98	22.80	22.49	0.866	/
		Left Edge	2360	0.133	-1.56	22.80	22.49	0.143	/
		Right Edge	2360	0.399	-2.50	22.80	22.49	0.429	/
		Top Edge	2340	0.971	0.69	22.80	22.43	1.057	/
		Top Edge	2350	0.908	-1.22	22.80	22.37	1.003	/
		Top Edge	2360	1.003	3.48	22.80	22.49	1.077	42
		Bottom Edge	2360	0.070	0.23	22.80	22.49	0.075	/
SA N41	100MHz 135RB offset 0	Front Side	2640	0.333	1.14	22.20	21.91	0.356	/
		Back Side	2640	0.589	2.67	22.20	21.91	0.630	/
		Left Edge	2640	0.096	0.76	22.20	21.91	0.103	/
		Right Edge	2640	0.293	2.28	22.20	21.91	0.313	/
		Top Edge	2640	0.731	0.55	22.20	21.91	0.781	44
		Bottom Edge	2640	0.055	3.23	22.20	21.91	0.059	/
SA N77	100MHz 135RB offset 0	Front Side	3800	0.717	2.14	23.00	22.64	0.779	/
		Back Side	3800	0.891	1.06	23.00	22.64	0.968	/
		Left Edge	3800	0.206	1.21	23.00	22.64	0.224	/
		Right Edge	3450	1.027	2.29	23.00	22.12	1.258	/
		Right Edge	3800	1.188	2.43	23.00	22.64	1.291	46
		Right Edge	4150	0.952	1.07	23.00	22.03	1.190	/
		Top Edge	3800	0.086	-1.03	23.00	22.64	0.093	/



		Bottom Edge	3800	0.309	-2.41	23.00	22.64	0.336	/
SA N78	100MHz 135RB offset 0	Front Side	3750	0.450	0.57	23.00	22.85	0.466	/
		Back Side	3750	0.565	2.31	23.00	22.85	0.585	/
		Left Edge	3750	0.129	-3.57	23.00	22.85	0.134	/
		Right Edge	3750	0.750	-1.50	23.00	22.85	0.776	48
		Top Edge	3750	0.053	1.09	23.00	22.85	0.055	/
		Bottom Edge	3750	0.199	2.21	23.00	22.85	0.206	/
2.4GHz WLAN ANT 1	802.11b	Front Side	2442	0.111	2.59	16.00	15.78	0.117	/
		Back Side	2442	0.072	3.10	16.00	15.78	0.076	/
		Left Edge	2442	0.129	1.38	16.00	15.78	0.136	50
		Right Edge	2442	0.029	2.34	16.00	15.78	0.031	/
		Top Edge	2442	0.076	-1.42	16.00	15.78	0.080	/
		Bottom Edge	2442	0.018	-1.64	16.00	15.78	0.019	/
2.4GHz WLAN ANT 2	802.11b	Front Side	2442	0.097	3.88	15.50	15.22	0.103	/
		Back Side	2442	0.063	-1.46	15.50	15.22	0.067	/
		Left Edge	2442	0.025	3.32	15.50	15.22	0.027	/
		Right Edge	2442	0.068	-1.38	15.50	15.22	0.073	/
		Top Edge	2442	0.111	3.75	15.50	15.22	0.118	52
		Bottom Edge	2442	0.015	2.31	15.50	15.22	0.016	/
2.4GHz WLAN MIMO 1	802.11ax- HE20	Front Side	2442	0.076	3.17	14.30	14.09	0.080	/
		Back Side	2442	0.047	-2.37	14.30	14.09	0.049	/
		Left Edge	2442	0.085	-3.65	14.30	14.09	0.089	/
		Right Edge	2442	0.017	-3.15	14.30	14.09	0.018	/
		Top Edge	2442	0.092	-3.05	14.30	14.09	0.097	54
		Bottom Edge	2442	0.013	-1.44	14.30	14.09	0.014	/
2.4GHz WLAN MIMO 2	802.11ax- HE20	Front Side	2442	0.070	1.70	14.30	14.09	0.073	/
		Back Side	2442	0.041	0.49	14.30	14.09	0.043	/
		Left Edge	2442	0.045	-3.05	14.30	14.09	0.047	/
		Right Edge	2442	0.018	-3.34	14.30	14.09	0.019	/
		Top Edge	2442	0.078	-0.52	14.30	14.09	0.082	56
		Bottom Edge	2442	0.008	-3.12	14.30	14.09	0.008	/
5.2GHz WLAN ANT 1	802.11ax80	Front Side	5210	0.178	-2.49	10.30	10.18	0.183	/
		Back Side	5210	0.112	3.36	10.30	10.18	0.115	/
		Left Edge	5210	0.047	3.18	10.30	10.18	0.048	/
		Right Edge	5210	0.111	0.41	10.30	10.18	0.114	/
		Top Edge	5210	0.204	-3.25	10.30	10.18	0.210	58
		Bottom Edge	5210	0.024	-2.90	10.30	10.18	0.025	/
5.2GHz WLAN ANT 2	802.11a	Front Side	5180	0.168	-3.19	10.30	10.18	0.173	/
		Back Side	5180	0.108	-1.27	10.30	10.18	0.111	/
		Left Edge	5180	0.105	-2.40	10.30	10.18	0.108	/
		Right Edge	5180	0.046	2.10	10.30	10.18	0.047	/
		Top Edge	5180	0.197	3.42	10.30	10.18	0.203	60
		Bottom Edge	5180	0.022	-2.74	10.30	10.18	0.023	/
5.2GHz WLAN MIMO 1	802.11n- HT20	Front Side	5180	0.055	0.05	12.10	11.95	0.057	/
		Back Side	5180	0.036	-3.92	12.10	11.95	0.037	/
		Left Edge	5180	0.015	1.58	12.10	11.95	0.016	/
		Right Edge	5180	0.035	3.78	12.10	11.95	0.036	/
		Top Edge	5180	0.064	1.23	12.10	11.95	0.066	62
		Bottom Edge	5180	0.009	3.18	12.10	11.95	0.009	/



5.2GHz WLAN MIMO 2	802.11n- HT20	Front Side	5180	0.071	1.52	12.10	11.95	0.073	/
		Back Side	5180	0.043	-1.98	12.10	11.95	0.045	/
		Left Edge	5180	0.044	-0.43	12.10	11.95	0.046	/
		Right Edge	5180	0.018	-3.61	12.10	11.95	0.019	/
		Top Edge	5180	0.081	2.82	12.10	11.95	0.084	64
		Bottom Edge	5180	0.010	-1.84	12.10	11.95	0.010	/
5.3GHz WLAN ANT 1	802.11ax80	Front Side	5290	0.195	3.14	10.30	10.12	0.203	/
		Back Side	5290	0.120	-2.55	10.30	10.12	0.125	/
		Left Edge	5290	0.050	-2.08	10.30	10.12	0.052	/
		Right Edge	5290	0.122	2.00	10.30	10.12	0.127	/
		Top Edge	5290	0.225	0.89	10.30	10.12	0.235	66
		Bottom Edge	5290	0.027	3.13	10.30	10.12	0.028	/
5.3GHz WLAN ANT 2	802.11n- HT40	Front Side	5310	0.174	1.19	10.10	9.84	0.185	/
		Back Side	5310	0.106	-2.21	10.10	9.84	0.113	/
		Left Edge	5310	0.109	-1.02	10.10	9.84	0.116	/
		Right Edge	5310	0.045	3.10	10.10	9.84	0.048	/
		Top Edge	5310	0.201	2.59	10.10	9.84	0.213	68
		Bottom Edge	5310	0.027	3.45	10.10	9.84	0.029	/
5.3GHz WLAN MIMO 1	802.11n- HT40	Front Side	5310	0.159	0.23	13.20	12.00	0.210	/
		Back Side	5310	0.100	-3.05	13.20	12.00	0.132	/
		Left Edge	5310	0.045	-2.63	13.20	12.00	0.059	/
		Right Edge	5310	0.099	-3.08	13.20	12.00	0.131	/
		Top Edge	5310	0.186	2.08	13.20	12.00	0.245	70
		Bottom Edge	5310	0.024	-1.86	13.20	12.00	0.032	/
5.3GHz WLAN MIMO 2	802.11n- HT40	Front Side	5310	0.200	-2.12	13.20	12.00	0.264	/
		Back Side	5310	0.126	-2.14	13.20	12.00	0.166	/
		Left Edge	5310	0.124	-0.32	13.20	12.00	0.163	/
		Right Edge	5310	0.053	-2.42	13.20	12.00	0.070	/
		Top Edge	5310	0.234	0.47	13.20	12.00	0.308	72
		Bottom Edge	5310	0.027	0.21	13.20	12.00	0.036	/
5.6GHz WLAN ANT 1	802.11a	Front Side	5500	0.249	3.57	12.20	12.03	0.259	/
		Back Side	5500	0.156	-3.99	12.20	12.03	0.162	/
		Left Edge	5500	0.069	0.35	12.20	12.03	0.072	/
		Right Edge	5500	0.158	1.13	12.20	12.03	0.164	/
		Top Edge	5500	0.293	0.40	12.20	12.03	0.305	74
		Bottom Edge	5500	0.038	-0.19	12.20	12.03	0.040	/
5.6GHz WLAN ANT 2	802.11a	Front Side	5500	0.170	0.89	11.10	10.95	0.176	/
		Back Side	5500	0.108	-2.19	11.10	10.95	0.112	/
		Left Edge	5500	0.105	2.25	11.10	10.95	0.109	/
		Right Edge	5500	0.043	-0.13	11.10	10.95	0.045	/
		Top Edge	5500	0.196	2.16	11.10	10.95	0.203	76
		Bottom Edge	5500	0.025	2.17	11.10	10.95	0.026	/
5.6GHz WLAN MIMO 1	802.11n- HT40	Front Side	5510	0.124	0.51	12.20	11.96	0.131	/
		Back Side	5510	0.076	-1.36	12.20	11.96	0.080	/
		Left Edge	5510	0.034	-3.49	12.20	11.96	0.036	/
		Right Edge	5510	0.078	2.49	12.20	11.96	0.082	/
		Top Edge	5510	0.144	-1.15	12.20	11.96	0.152	78
		Bottom Edge	5510	0.020	0.49	12.20	11.96	0.021	/
5.6GHz	802.11n-	Front Side	5510	0.131	0.46	12.20	11.96	0.138	/



WLAN MIMO 2	HT40	Back Side	5510	0.084	3.90	12.20	11.96	0.089	/
		Left Edge	5510	0.083	0.43	12.20	11.96	0.088	/
		Right Edge	5510	0.036	2.65	12.20	11.96	0.038	/
		Top Edge	5510	0.154	-0.13	12.20	11.96	0.163	80
		Bottom Edge	5510	0.019	-3.30	12.20	11.96	0.020	/
5.8GHz WLAN ANT 1	802.11a	Front Side	5745	0.269	0.16	13.50	13.34	0.279	/
		Back Side	5745	0.170	-0.72	13.50	13.34	0.176	/
		Left Edge	5745	0.072	-3.77	13.50	13.34	0.075	/
		Right Edge	5745	0.168	-0.39	13.50	13.34	0.174	/
		Top Edge	5745	0.313	-1.21	13.50	13.34	0.325	82
		Bottom Edge	5745	0.037	2.48	13.50	13.34	0.038	/
5.8GHz WLAN ANT 2	802.11a	Front Side	5785	0.189	-0.34	12.50	12.45	0.191	/
		Back Side	5785	0.117	3.53	12.50	12.45	0.118	/
		Left Edge	5785	0.116	3.90	12.50	12.45	0.117	/
		Right Edge	5785	0.051	0.97	12.50	12.45	0.052	/
		Top Edge	5785	0.219	-0.58	12.50	12.45	0.222	84
		Bottom Edge	5785	0.027	-1.86	12.50	12.45	0.027	/
5.8GHz WLAN MIMO 1	802.11ax80	Front Side	5775	0.148	1.25	12.30	12.19	0.152	/
		Back Side	5775	0.096	-2.25	12.30	12.19	0.098	/
		Left Edge	5775	0.040	3.14	12.30	12.19	0.041	/
		Right Edge	5775	0.094	3.97	12.30	12.19	0.096	/
		Top Edge	5775	0.174	-3.83	12.30	12.19	0.178	86
		Bottom Edge	5775	0.020	1.13	12.30	12.19	0.021	/
5.8GHz WLAN MIMO 2	802.11ax80	Front Side	5775	0.145	-3.27	12.30	12.19	0.149	/
		Back Side	5775	0.094	-0.34	12.30	12.19	0.096	/
		Left Edge	5775	0.093	-0.07	12.30	12.19	0.095	/
		Right Edge	5775	0.039	3.54	12.30	12.19	0.040	/
		Top Edge	5775	0.170	0.51	12.30	12.19	0.174	88
		Bottom Edge	5775	0.022	2.27	12.30	12.19	0.023	/
BT	GFSK	Front Side	2441	0.082	2.18	8.30	8.19	0.084	/
		Back Side	2441	0.088	-0.36	8.30	8.19	0.090	90
		Left Edge	2441	0.051	3.31	8.30	8.19	0.052	/
		Right Edge	2441	0.046	0.25	8.30	8.19	0.047	/
		Top Edge	2441	0.025	3.10	8.30	8.19	0.026	/
		Bottom Edge	2441	0.055	-3.14	8.30	8.19	0.056	/

Band	Mode	Max SAR	WIFI MIMO
		(W/Kg)	
2.4G WLAN	802.11ax-HE20	0.097	0.179
	802.11ax-HE20	0.082	
5.2G WLAN	802.11n-HT20	0.066	0.150
	802.11n-HT20	0.084	
5.3G WLAN	802.11n-HT40	0.245	0.553
	802.11n-HT40	0.308	
5.6G WLAN	802.11n-HT40	0.152	0.315
	802.11n-HT40	0.163	
5.8G WLAN	802.11ax80	0.178	0.352
	802.11n-HT40 ANT 2	0.174	



NSA

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
SA N78	100MHz 135RB offset 0	Front Side	3750	0.450	-1.25	23.00	22.85	0.466	/
		Back Side	3750	0.565	3.18	23.00	22.85	0.585	/
		Left Edge	3750	0.129	-2.60	23.00	22.85	0.134	/
		Right Edge	3750	0.750	1.00	23.00	22.85	0.776	48
		Top Edge	3750	0.053	2.29	23.00	22.85	0.055	/
		Bottom Edge	3750	0.199	2.37	23.00	22.85	0.206	/
LTE Band 8	20MHz BW, 12RB Offset 0	Front Side	885	0.125	-2.27	24.70	24.46	0.132	/
		Back Side	885	0.219	2.71	24.70	24.46	0.231	/
		Left Edge	885	0.063	-1.52	24.70	24.46	0.067	/
		Right Edge	885	0.044	3.19	24.70	24.46	0.046	/
		Top Edge	885	0.019	1.91	24.70	24.46	0.020	/
		Bottom Edge	885	0.269	-1.60	24.70	24.46	0.284	16

Band	Mode	Max SAR	NSA_N78+B8
		(W/Kg)	
NSA_N78+B8	N78	0.776	1.060
	LTE B8	0.284	

Note:

1. The test separation of all above table is 5mm.
2. Two SIM card slot can't work at the same time.
3. When the 10g SAR is $\leq 1.0\text{W/kg}$, testing for low and high channel is optional.



11.3 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

Note:

1. The 2.4GHz WLAN and 5GHz 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. The reported SAR summation is calculated based on the same configuration and test position.
4. DUT will choose either 2G/3G/4G/5G according to the network signal condition, therefore, 2G/3G/4G/5G will not transmit simultaneously.
5. Multi -band transmission analysis for Body SAR is performed following EN 62209-2 procedure. One way of determining the threshold power level available to the secondary transmitter($P_{available}$) is to calculate it from the measured peak spatial-average SAR of the primary transmitter (SAR_1) according to the equation:

$$P_{available} = P_{th,m} * (SAR_{lim.} - SAR_1) / SAR_{lim.}$$

where:

$P_{th,m}$ is the threshold exclusion power level taken from Annex B of IEC 62479 for the frequency of the secondary transmitter at the separation distance used in the testing.

If the output power of the secondary transmitter is less than $P_{available}$, SAR measurement for the secondary transmitter is not necessary.



Simultaneous Mode	Position	SAR ₁	Secondary transmitter Maximum Average Power		Separation distance	P _{available}	Result
		10g(W/Kg)	dBm	mW	(mm)	mW	
GSM + 2.4GWLAN	Head	0.379	16.00	39.811	5	16.210	Yes
	Body	1.098			5	9.020	Yes
WCDMA + 2.4GWLAN	Head	0.338			5	16.620	Yes
	Body	0.886			5	11.140	Yes
LTE + 2.4GWLAN	Head	0.472			5	15.280	Yes
	Body	1.128			5	8.720	Yes
SA + 2.4GWLAN	Head	0.900			5	11.000	Yes
	Body	1.291			5	7.090	Yes
NSA + 2.4GWLAN	Head	0.452			5	15.480	Yes
	Body	1.060			5	9.400	Yes
GSM + 5.2GWLAN	Head	0.379	12.10	16.218	5	16.210	Yes
	Body	1.098			5	9.020	Yes
WCDMA + 5.2GWLAN	Head	0.338			5	16.620	No
	Body	0.886			5	11.140	Yes
LTE + 5.2GWLAN	Head	0.472			5	15.280	Yes
	Body	1.128			5	8.720	Yes
SA + 5.2GWLAN	Head	0.900			5	11.000	Yes
	Body	1.291			5	7.090	Yes
NSA + 5.2GWLAN	Head	0.452			5	15.480	Yes
	Body	1.060			5	9.400	Yes
GSM + 5.3GWLAN	Head	0.379	13.20	20.893	5	16.210	Yes
	Body	1.098			5	9.020	Yes
WCDMA + 5.3GWLAN	Head	0.338			5	16.620	Yes
	Body	0.886			5	11.140	Yes
LTE + 5.3GWLAN	Head	0.472			5	15.280	Yes
	Body	1.128			5	8.720	Yes
SA + 5.3GWLAN	Head	0.900			5	11.000	Yes
	Body	1.291			5	7.090	Yes
NSA + 5.3GWLAN	Head	0.452			5	15.480	Yes
	Body	1.060			5	9.400	Yes
GSM + 5.6GWLAN	Head	0.379	12.20	16.596	5	16.210	Yes
	Body	1.098			5	9.020	Yes
WCDMA + 5.6GWLAN	Head	0.338			5	16.620	No
	Body	0.886			5	11.140	Yes
LTE + 5.6GWLAN	Head	0.472			5	15.280	Yes
	Body	1.128			5	8.720	Yes
SA + 5.6GWLAN	Head	0.900			5	11.000	Yes
	Body	1.291			5	7.090	Yes
NSA + 5.6GWLAN	Head	0.452			5	15.480	Yes
	Body	1.060			5	9.400	Yes
GSM + 5.8GWLAN	Head	0.379	13.50	22.387	5	16.210	Yes
	Body	1.098			5	9.020	Yes
WCDMA + 5.8GWLAN	Head	0.338			5	16.620	Yes
	Body	0.886			5	11.140	Yes



LTE + 5.8GWLAN	Head	0.472			5	15.280	Yes
	Body	1.128			5	8.720	Yes
SA + 5.8GWLAN	Head	0.900			5	11.000	Yes
	Body	1.291			5	7.090	Yes
NSA + 5.8GWLAN	Head	0.452			5	15.480	Yes
	Body	1.060			5	9.400	Yes
GSM + BT	Head	0.379	8.30	6.761	5	16.210	No
	Body	1.098			5	9.020	No
WCDMA + BT	Head	0.338			5	16.620	No
	Body	0.886			5	11.140	No
LTE + BT	Head	0.472			5	15.280	No
	Body	1.128			5	8.720	No
SA +BT	Head	0.900			5	11.000	No
	Body	1.291			5	7.090	No
NSA +BT	Head	0.452			5	15.480	No
	Body	1.060			5	9.400	No

The worst case of simultaneous transmission:

Simultaneous Mode	Position	SAR ₁ 10g	SAR ₂ 10g	Secondary transmitter Maximum Average Power		Separation distance (mm)	P _{available}	Result
		(W/Kg)	(W/Kg)	dBm	mW		mW	
SA + 5.3GWLAN+BT	Head	0.900	0.318	8.300	6.76083	5	7.820	No
SA + 5.3GWLAN+BT	Body	1.291	0.553	8.300	6.76083	5	1.560	Yes

Simultaneous Mode	Position	SAR1 10g	SAR2 10g	SAR3 10g	Secondary transmitter Maximum Average Power		Separation distance (mm)	P _{available}	Result
		(W/Kg)	(W/Kg)	(W/Kg)	dBm	mW		mW	
SA + 5.3GWLAN + BT + NFC	Head	0.900	0.318	0.095	-43.0	0.00005	5	6.870	No
SA + 5.3GWLAN + BT + NFC	Body	1.291	0.553	0.090	-43.0	0.00005	5	0.660	No



Simultaneous Mode	Position	Mode	Max. 10-g SAR W/Kg	10-g Sum SAR W/Kg
GSM + 2.4GWLAN	Head	GSM	0.379	0.490
		2.4GHz WLAN	0.111	
	Body	GSM	1.098	1.277
		2.4GHz WLAN	0.179	
WCDMA + 2.4GWLAN	Head	WCDMA	0.338	0.449
		2.4GHz WLAN	0.111	
	Body	WCDMA	0.886	1.065
		2.4GHz WLAN	0.179	
LTE + 2.4GWLAN	Head	LTE	0.472	0.583
		2.4GHz WLAN	0.111	
	Body	LTE	1.128	1.307
		2.4GHz WLAN	0.179	
SA + 2.4GWLAN	Head	SA	0.900	1.011
		2.4GHz WLAN	0.111	
	Body	SA	1.291	1.470
		2.4GHz WLAN	0.179	
NSA+ 2.4GWLAN	Head	NSA	0.452	0.563
		2.4GHz WLAN	0.111	
	Body	NSA	1.060	1.239
		2.4GHz WLAN	0.179	
GSM + 5.2GWLAN	Head	GSM	0.379	0.582
		5.2GHz WLAN	0.203	
	Body	GSM	1.098	1.311
		5.2GHz WLAN	0.213	
WCDMA + 5.2GWLAN	Head	WCDMA	0.338	0.541
		5.2GHz WLAN	0.203	
	Body	WCDMA	0.886	1.099
		5.2GHz WLAN	0.213	
LTE + 5.2GWLAN	Head	LTE	0.472	0.675
		5.2GHz WLAN	0.203	
	Body	LTE	1.128	1.341
		5.2GHz WLAN	0.213	
SA + 5.2GWLAN	Head	SA	0.900	1.103
		5.2GHz WLAN	0.203	
	Body	SA	1.291	1.504
		5.2GHz WLAN	0.213	
NSA + 5.2GWLAN	Head	NSA	0.452	0.655
		5.2GHz WLAN	0.203	
	Body	NSA	1.060	1.273
		5.2GHz WLAN	0.213	
GSM + 5.3GWLAN	Head	GSM	0.379	0.697
		5.3GHz WLAN	0.318	
	Body	GSM	1.098	1.651
		5.3GHz WLAN	0.553	



WCDMA + 5.3GWLAN	Head	WCDMA	0.338	0.656
		5.3GHz WLAN	0.318	
	Body	WCDMA	0.886	1.439
		5.3GHz WLAN	0.553	
LTE + 5.3GWLAN	Head	LTE	0.472	0.790
		5.3GHz WLAN	0.318	
	Body	LTE	1.128	1.681
		5.3GHz WLAN	0.553	
SA + 5.3GWLAN	Head	SA	0.900	1.218
		5.3GHz WLAN	0.318	
	Body	SA	1.291	1.844
		5.3GHz WLAN	0.553	
NSA + 5.3GWLAN	Head	NSA	0.452	0.770
		5.3GHz WLAN	0.318	
	Body	NSA	1.060	1.613
		5.3GHz WLAN	0.553	
GSM + 5.6GWLAN	Head	GSM	0.379	0.639
		5.6GHz WLAN	0.260	
	Body	GSM	1.098	1.414
		5.6GHz WLAN	0.316	
WCDMA + 5.6GWLAN	Head	WCDMA	0.338	0.598
		5.6GHz WLAN	0.260	
	Body	WCDMA	0.886	1.202
		5.6GHz WLAN	0.316	
LTE + 5.6GWLAN	Head	LTE	0.472	0.732
		5.6GHz WLAN	0.260	
	Body	LTE	1.128	1.444
		5.6GHz WLAN	0.316	
SA + 5.6GWLAN	Head	SA	0.900	1.160
		5.6GHz WLAN	0.260	
	Body	SA	1.291	1.607
		5.6GHz WLAN	0.316	
NSA + 5.6GWLAN	Head	NSA	0.452	0.712
		5.6GHz WLAN	0.260	
	Body	NSA	1.060	1.376
		5.6GHz WLAN	0.316	
GSM + 5.8GWLAN	Head	GSM	0.379	0.642
		5.8GHz WLAN	0.263	
	Body	GSM	1.098	1.450
		5.8GHz WLAN	0.352	
WCDMA + 5.8GWLAN	Head	WCDMA	0.338	0.601
		5.8GHz WLAN	0.263	
	Body	WCDMA	0.886	1.238
		5.8GHz WLAN	0.352	
LTE + 5.8GWLAN	Head	LTE	0.472	0.735
		5.8GHz WLAN	0.263	
	Body	LTE	1.128	1.480
		5.8GHz WLAN	0.352	



SA + 5.8GWLAN	Head	SA	0.900	1.163
		5.8GHz WLAN	0.263	
	Body	SA	1.291	1.643
		5.8GHz WLAN	0.352	
NSA + 5.8GWLAN	Head	NSA	0.452	0.715
		5.8GHz WLAN	0.263	
	Body	NSA	1.060	1.412
		5.8GHz WLAN	0.352	
SA + 5.3GWLAN+BT	Head	SA	0.900	1.313
		BT	0.095	
		5.3GHz WLAN	0.318	
	Body	SA	1.291	1.934
		BT	0.090	
		5.3GHz WLAN	0.553	

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.



12. 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
2000MHz Dipole	MVG	DIP2G000	SN 06/22 DIP2G000-642	2025.02.05	2028.02.04
2300MHz Dipole	MVG	DIP2G300	SN 06/22 DIP2G100-644	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
3500MHz Dipole	MVG	DIP3G500	SN 06/22 DIP3G500-647	2025.02.05	2028.02.04
3700MHz Dipole	MVG	DIP3G700	SN 06/22 DIP3G700-648	2025.02.05	2028.02.04
4200MHz Dipole	MVG	DIP4G200	SN 06/22 DIP4G200-650	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 Plot

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

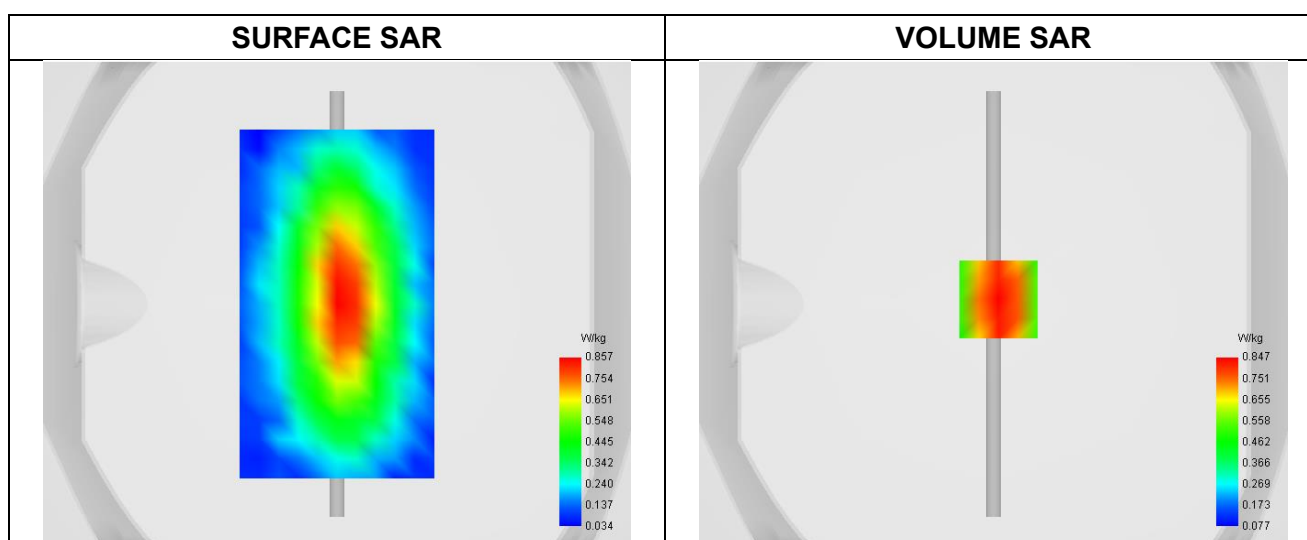
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-07-14

Experimental conditions.

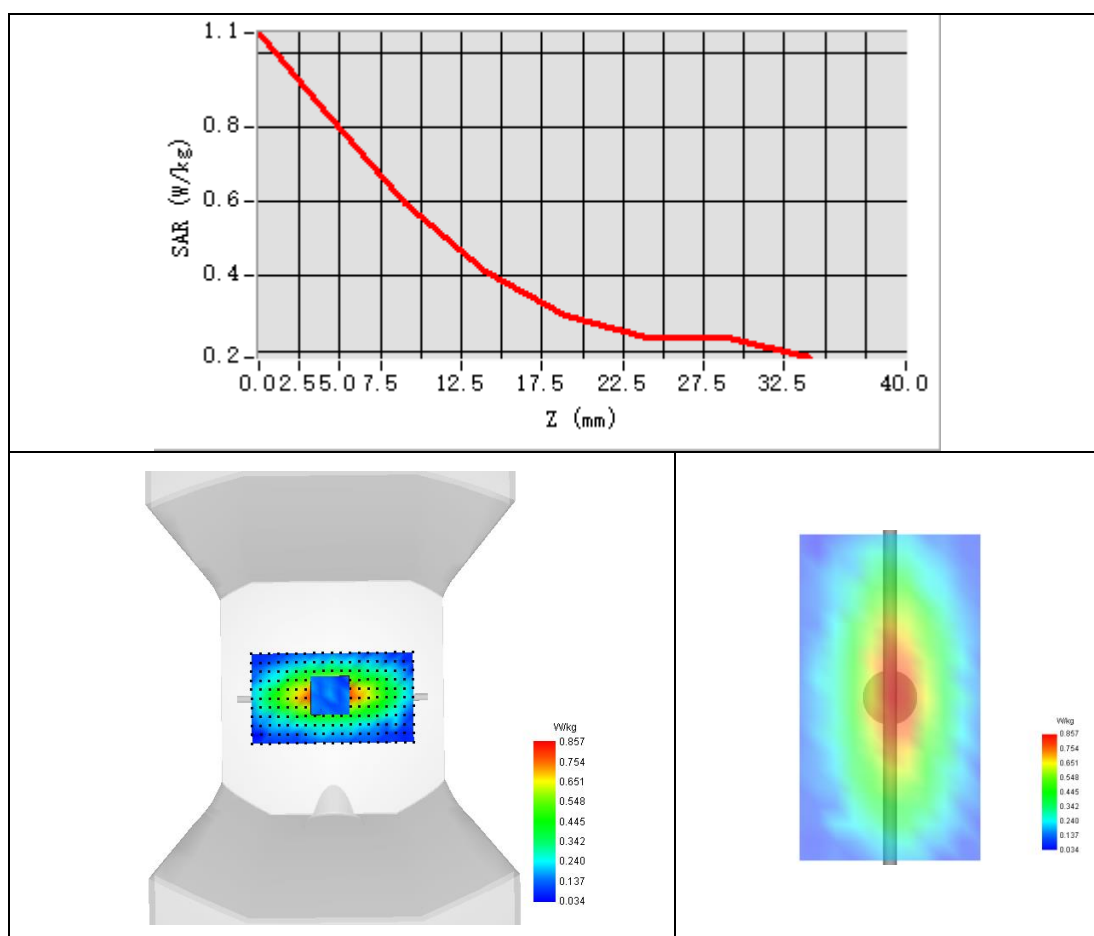
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	41.77
Conductivity (S/m)	0.85
Probe	SN 04/22 EPGO364
ConvF	1.67
Crest factor:	1:1



Maximum location: X=3.00, Y=0.00 ; SAR Peak: 1.28 W/kg

SAR 10g (W/Kg)	0.517
SAR 1g (W/Kg)	0.875

Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

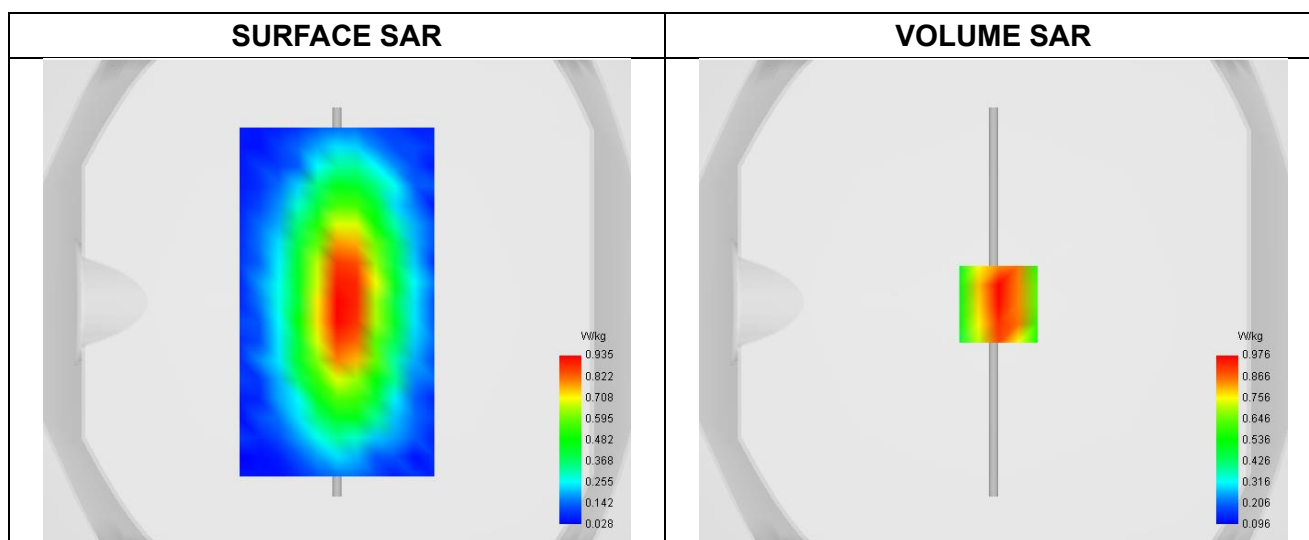
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-07-12

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.07
Conductivity (S/m)	0.93
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

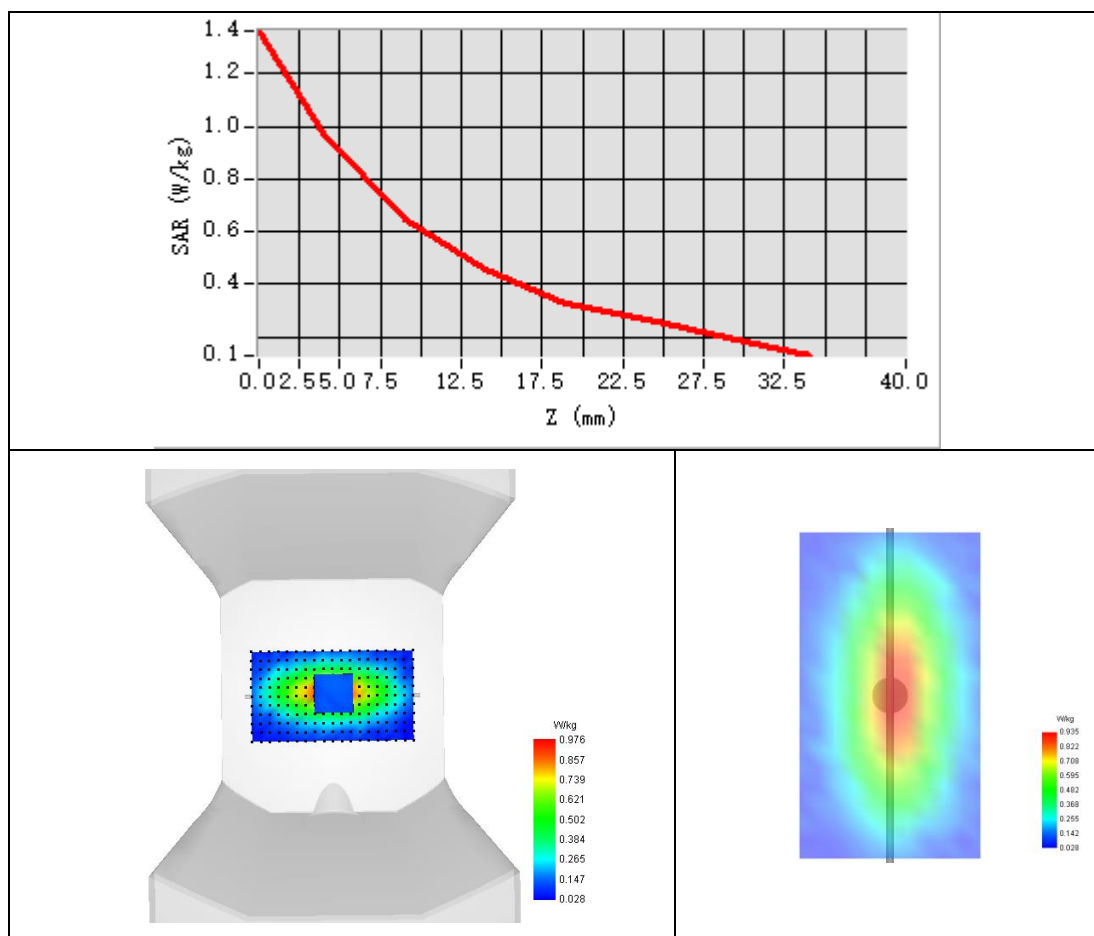


Maximum location: X=-2.00, Y=3.00 ; SAR Peak: 1.33W/kg

SAR 10g (W/Kg)	0.601
SAR 1g (W/Kg)	0.973



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

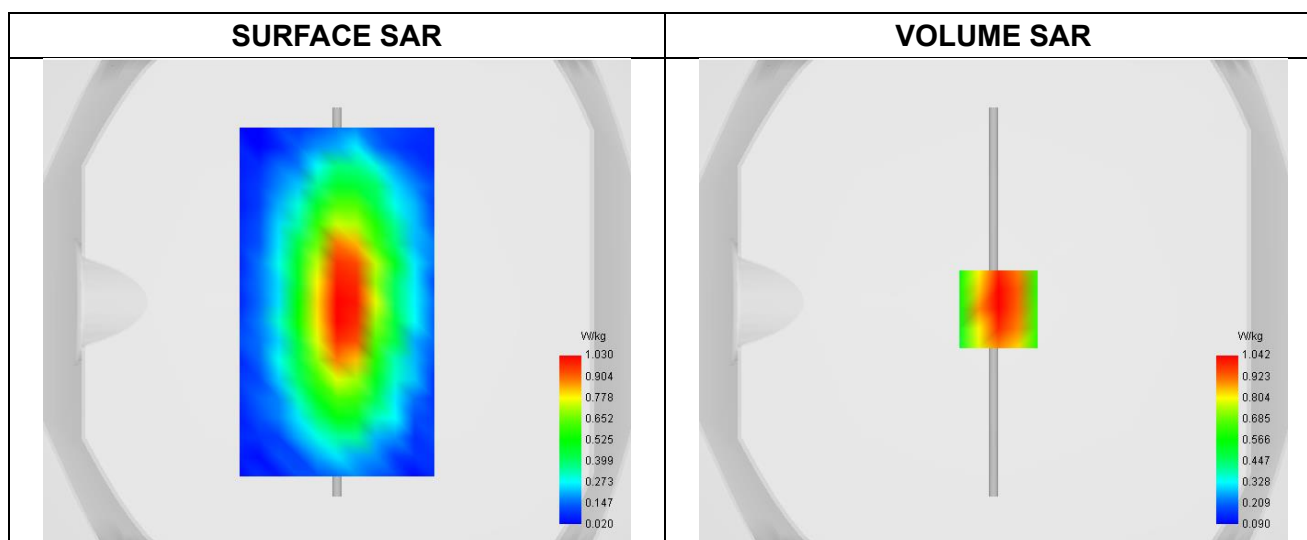
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-07-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	40.87
Conductivity (S/m)	0.87
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

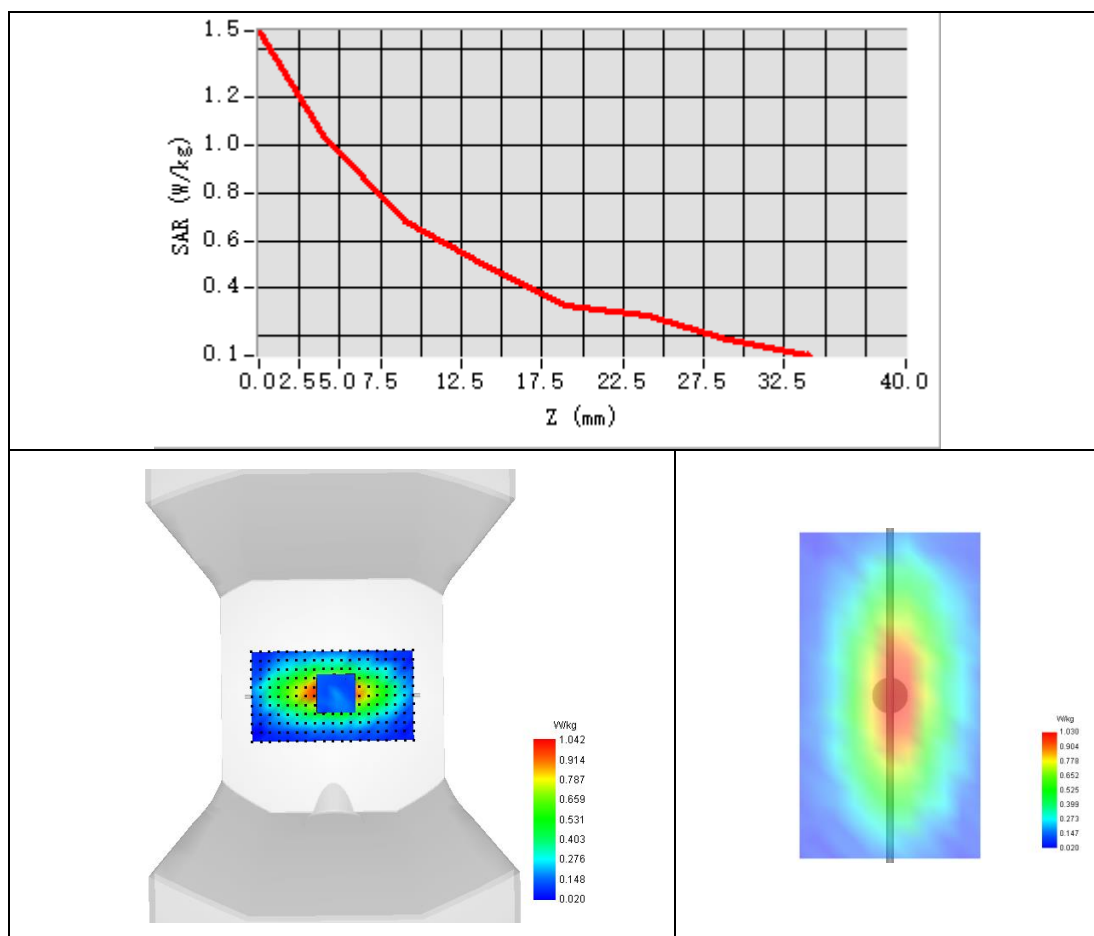


Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.52W/kg

SAR 10g (W/Kg)	0.595
SAR 1g (W/Kg)	0.980



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

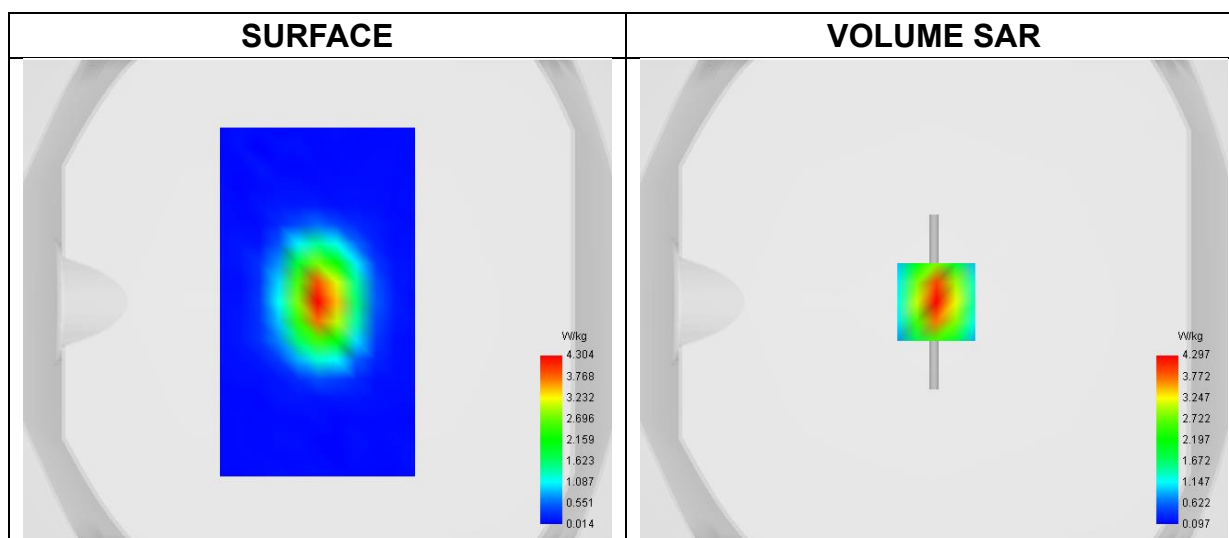
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.11
Conductivity (S/m)	1.34
Probe	SN 04/22 EPG0364
ConvF	1.92
Crest factor:	1:1

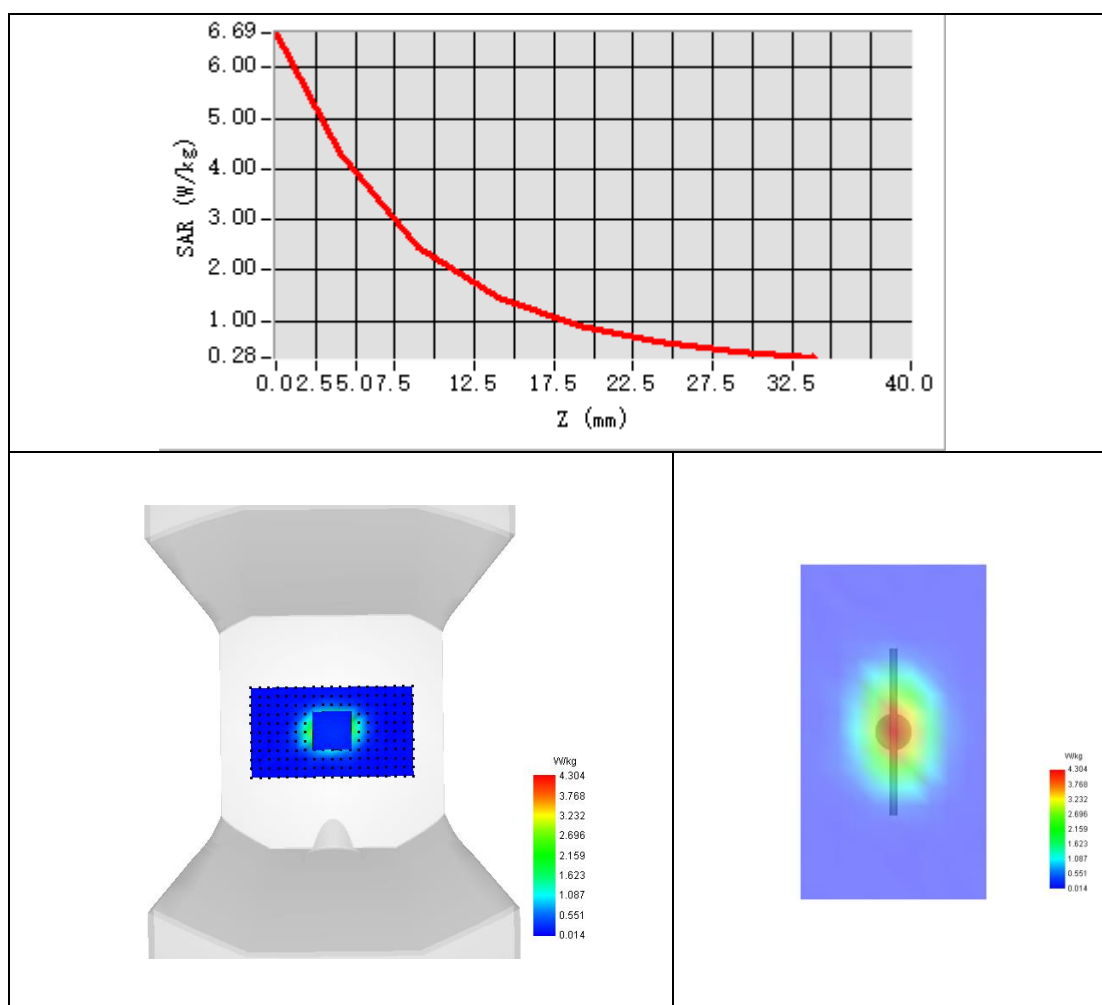


Maximum location: X=3.00, Y=2.00 ; SAR Peak: 7.16 W/kg

SAR 10g (W/Kg)	2.079
SAR 1g (W/Kg)	3.941



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

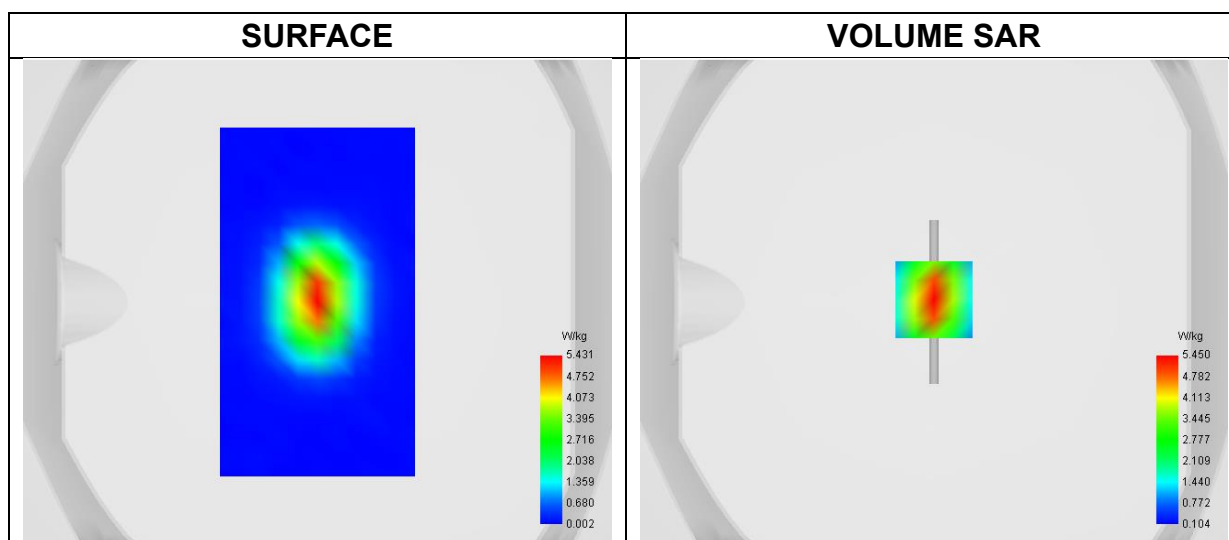
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.29
Conductivity (S/m)	1.35
Probe	SN 04/22 EPG0364
ConvF	2.20
Crest factor:	1:1

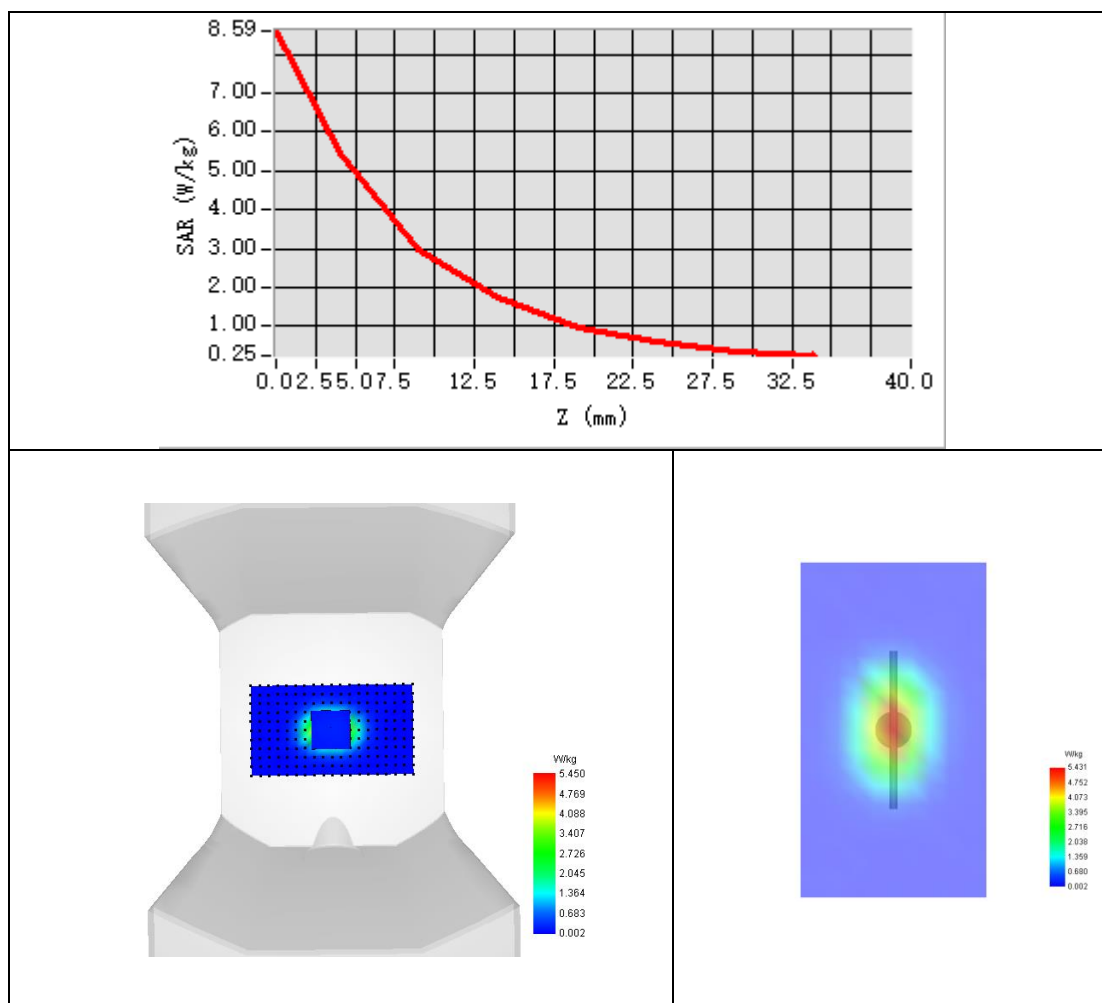


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.80 W/kg

SAR 10g (W/Kg)	2.060
SAR 1g (W/Kg)	4.104



Z Axis Scan





System Performance Check Data (2000MHz)

Type: Phone measurement (Complete)

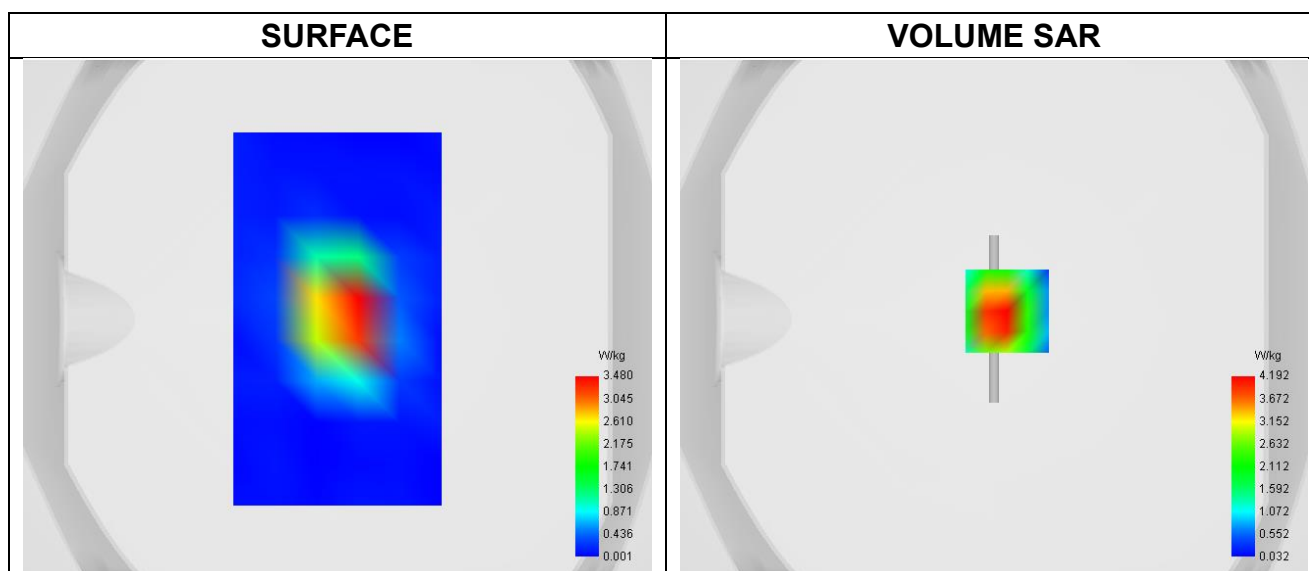
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2000
Channels	Middle
Signal	CW
Frequency (MHz)	2000.000
Relative permittivity	40.80
Conductivity (S/m)	1.42
Probe	SN 04/22 EPGO364
ConvF	2.33
Crest factor:	1:1

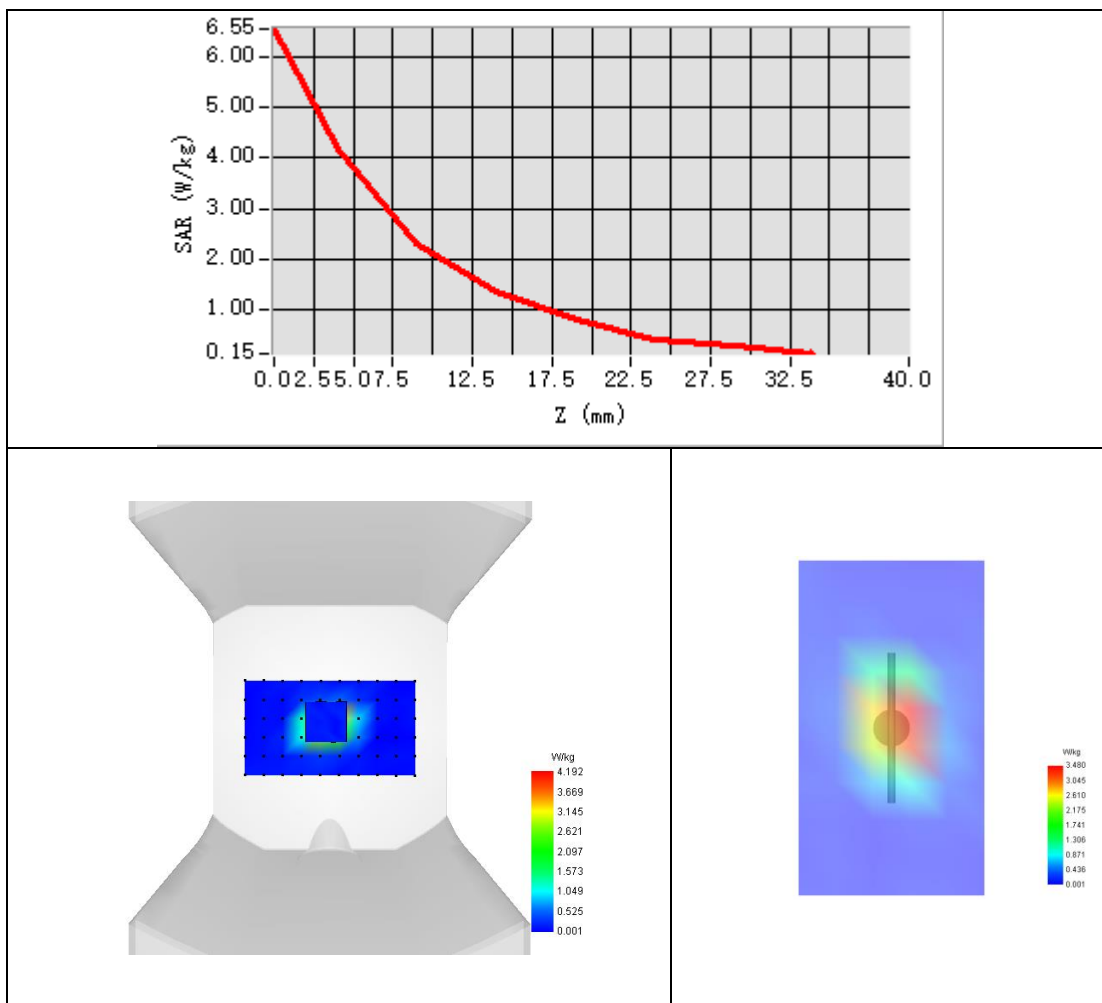


Maximum location: X=3.00, Y=1.00 ; SAR Peak: 7.52 W/kg

SAR 10g (W/Kg)	2.073
SAR 1g (W/Kg)	4.305



Z Axis Scan





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

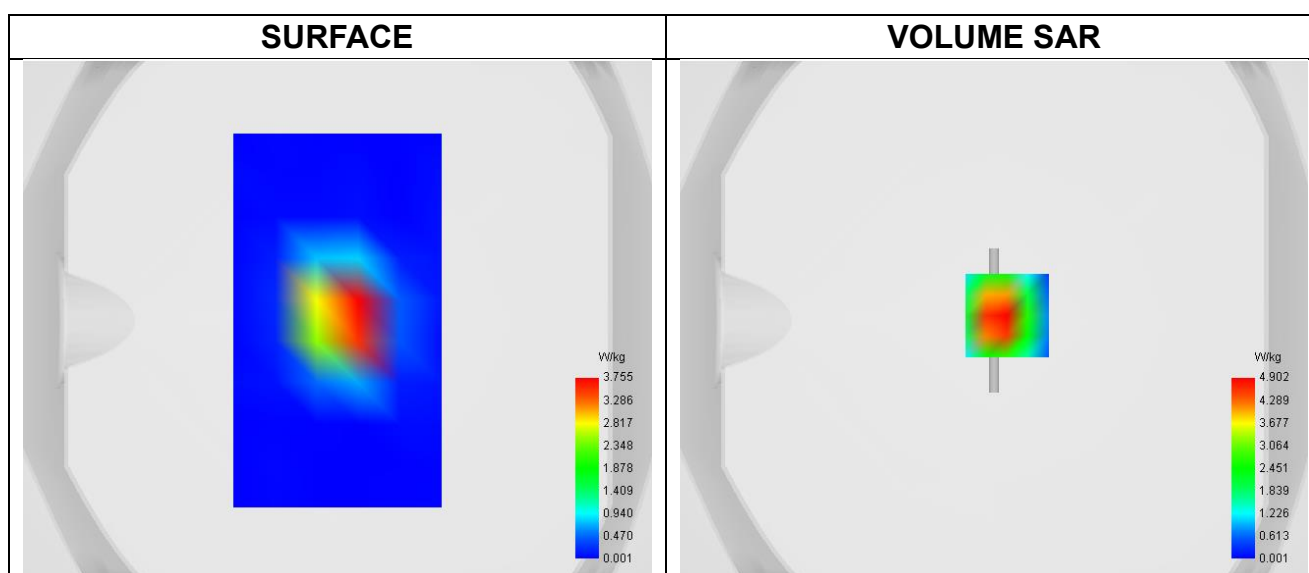
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Channels	Middle
Signal	CW
Frequency (MHz)	2300.000
Relative permittivity	40.39
Conductivity (S/m)	1.67
Probe	SN 04/22 EPGO364
ConvF	2.32
Crest factor:	1:1

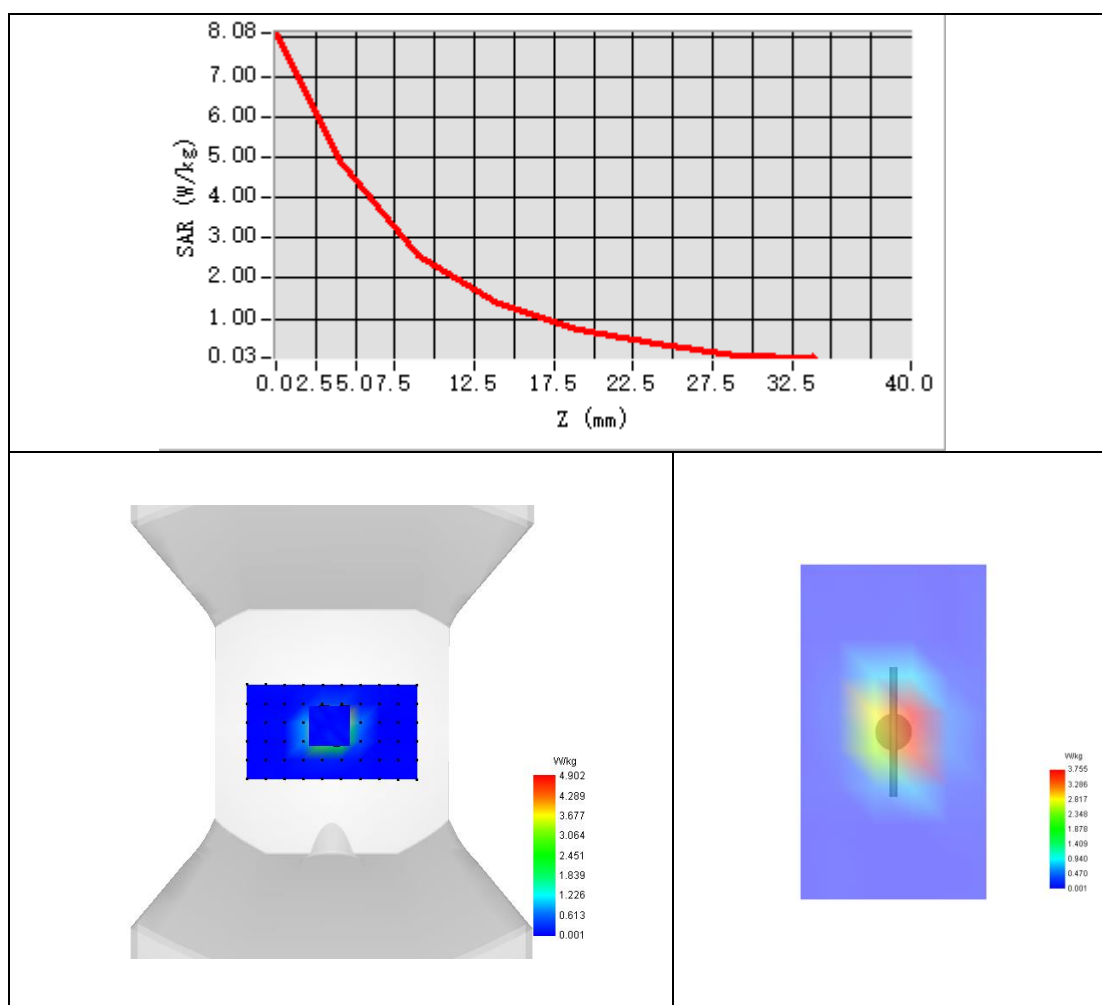


Maximum location: X=2.00, Y=3.00 ; SAR Peak: 8.68 W/kg

SAR 10g (W/Kg)	2.327
SAR 1g (W/Kg)	5.083



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

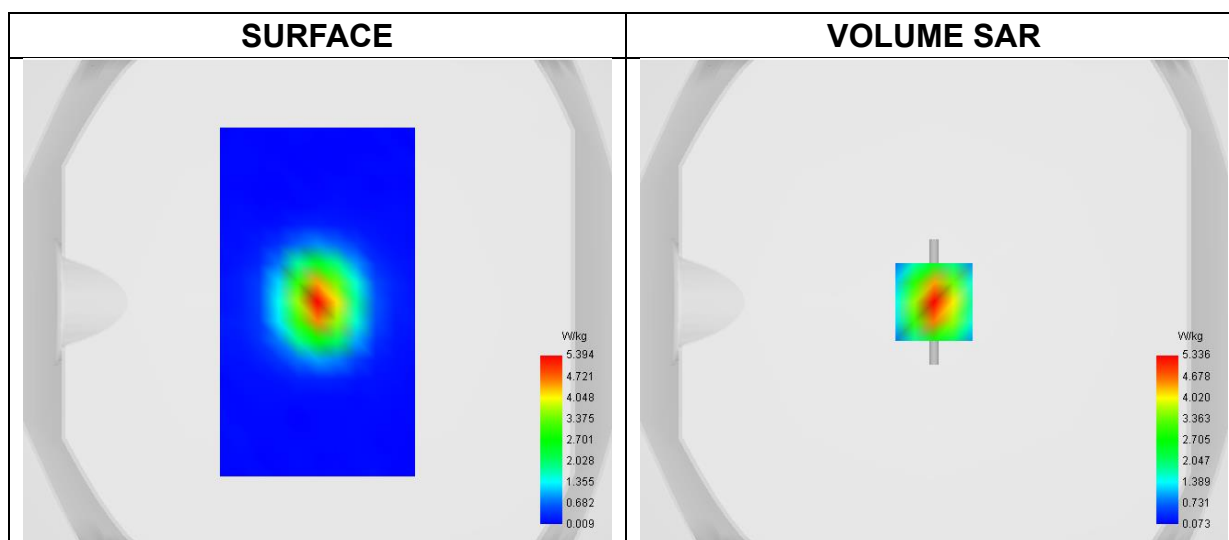
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.07
Conductivity (S/m)	1.77
Probe	SN 04/22 EPG0364
ConvF	2.33
Crest factor:	1:1

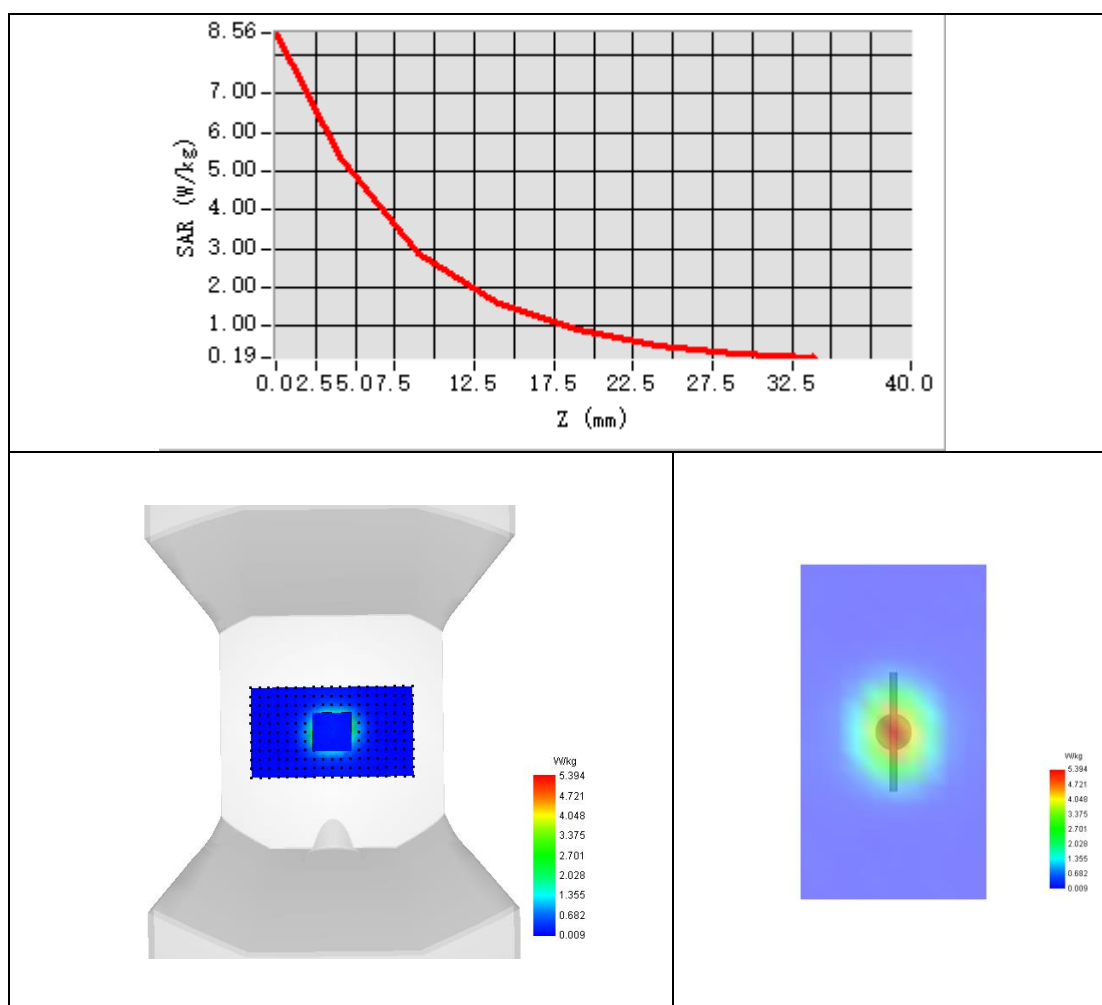


Maximum location: X=3.00, Y=2.00 ; SAR Peak: 8.28 W/kg

SAR 10g (W/Kg)	2.403
SAR 1g (W/Kg)	5.416



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

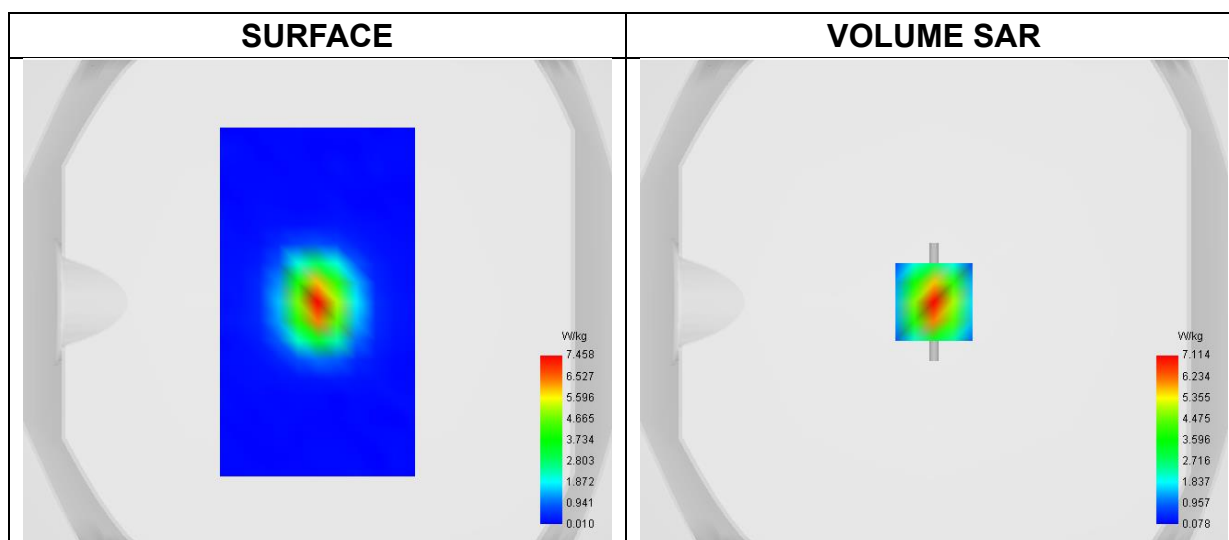
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-06

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.38
Conductivity (S/m)	1.95
Probe	SN 04/22 EPG0364
ConvF	2.37
Crest factor:	1:1

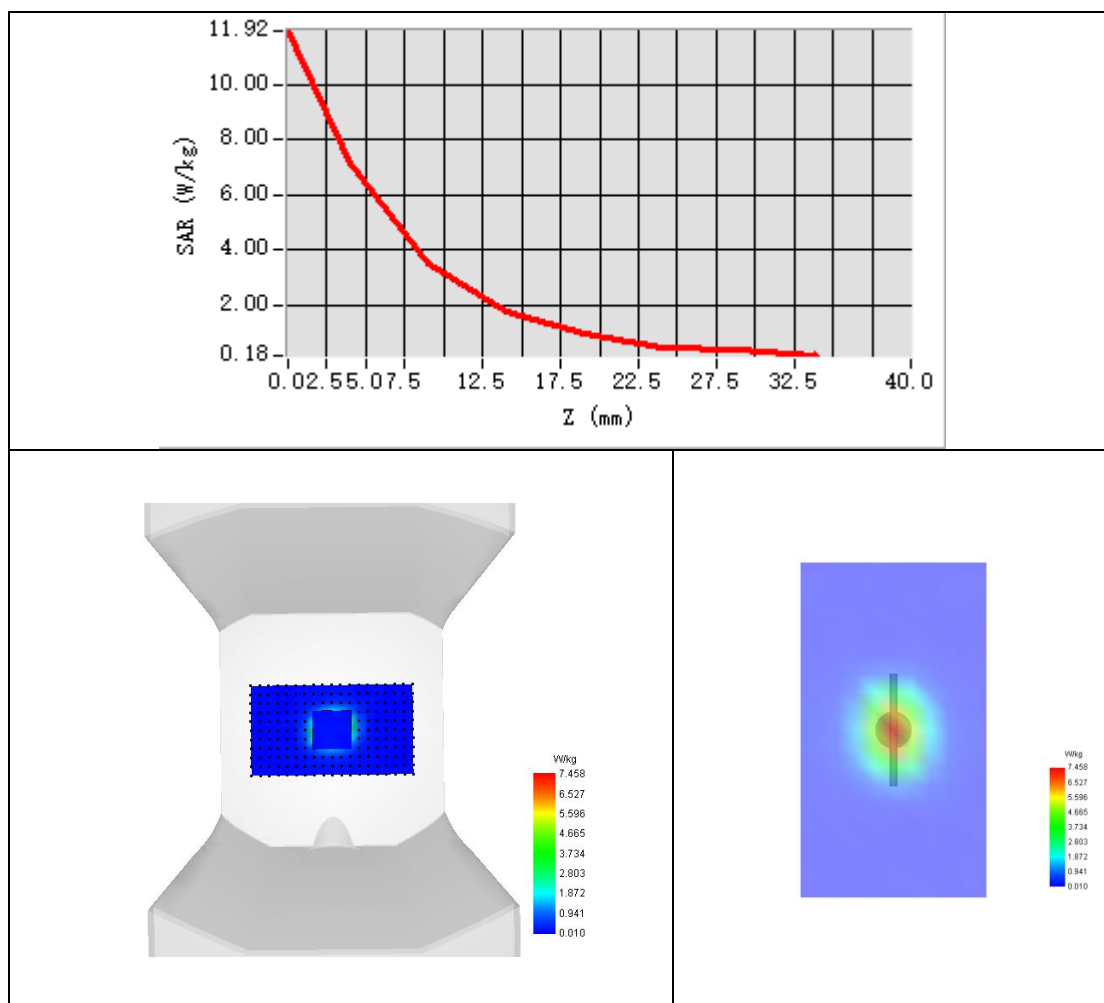


Maximum location: X=3.00, Y=2.00 ; SAR Peak: 9.63 W/kg

SAR 10g (W/Kg)	2.401
SAR 1g (W/Kg)	5.645



Z Axis Scan





System Performance Check Data (3500MHz)

Type: Phone measurement (Complete)

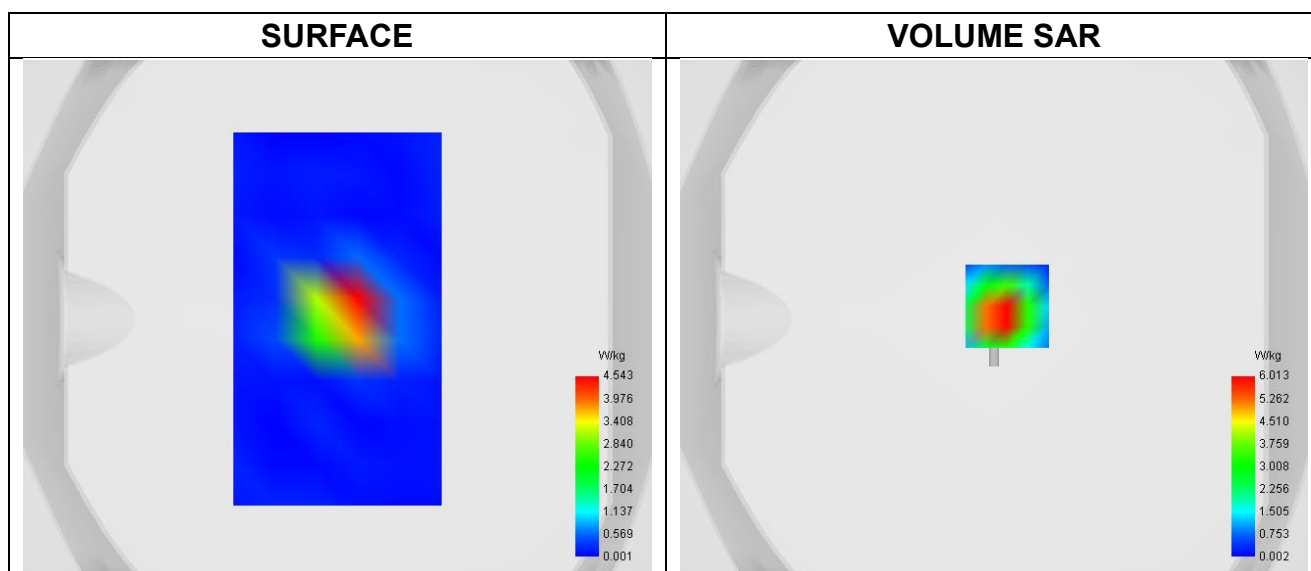
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-16

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW3500
Channels	Middle
Signal	CW
Frequency (MHz)	3500.000
Relative permittivity	38.15
Conductivity (S/m)	3.03
Probe	SN 04/22 EPGO364
ConvF	1.81
Crest factor:	1:1

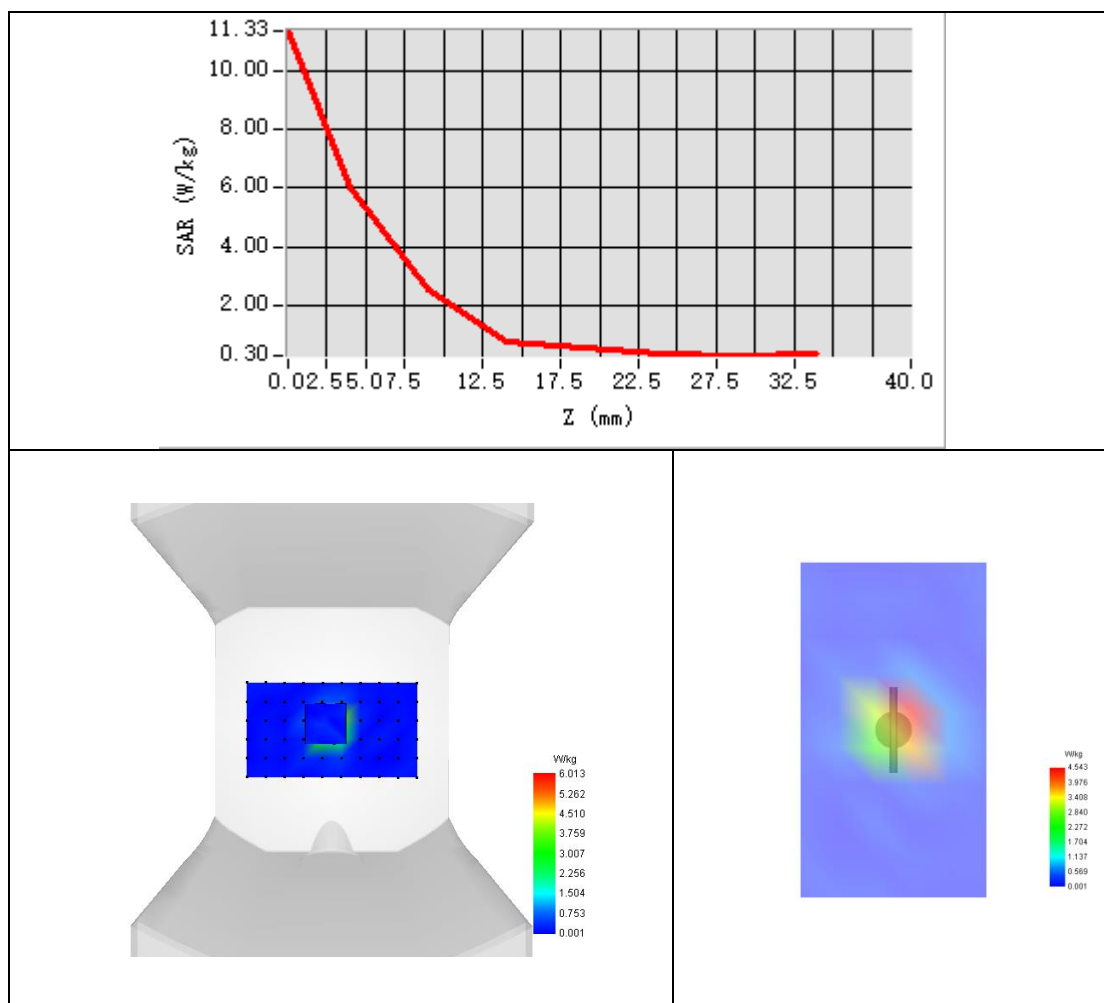


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 14.52 W/kg

SAR 10g (W/Kg)	2.538
SAR 1g (W/Kg)	6.905



Z Axis Scan





System Performance Check Data (3700MHz)

Type: Phone measurement (Complete)

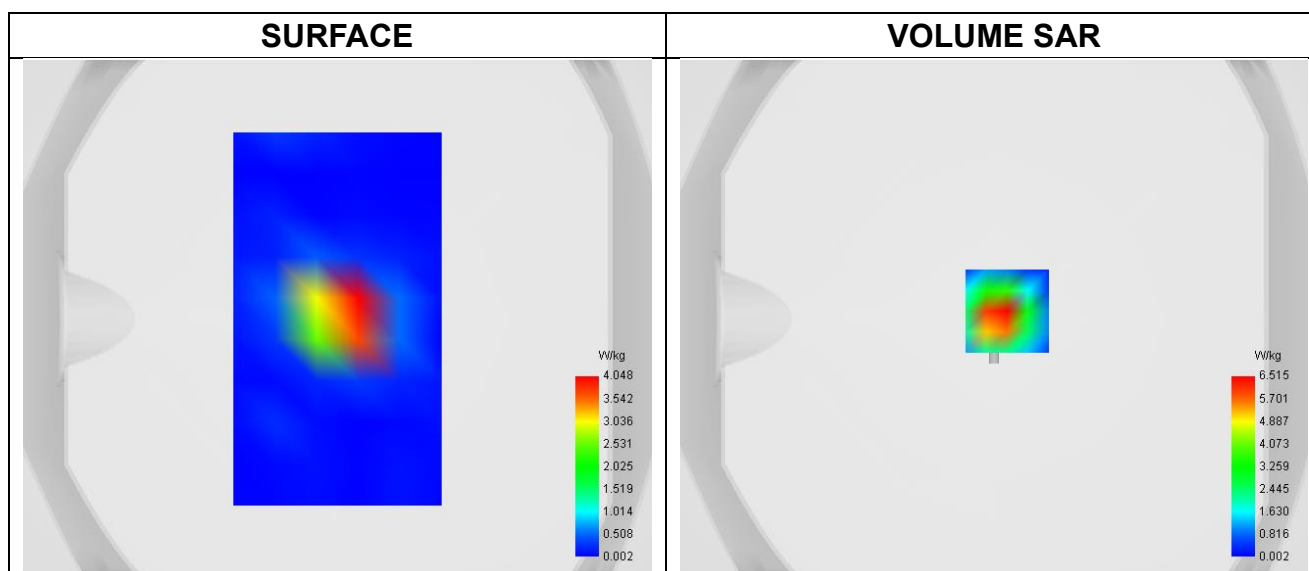
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-16

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW3700
Channels	Middle
Signal	CW
Frequency (MHz)	3700.000
Relative permittivity	37.75
Conductivity (S/m)	3.14
Probe	SN 04/22 EPGO364
ConvF	1.81
Crest factor:	1:1

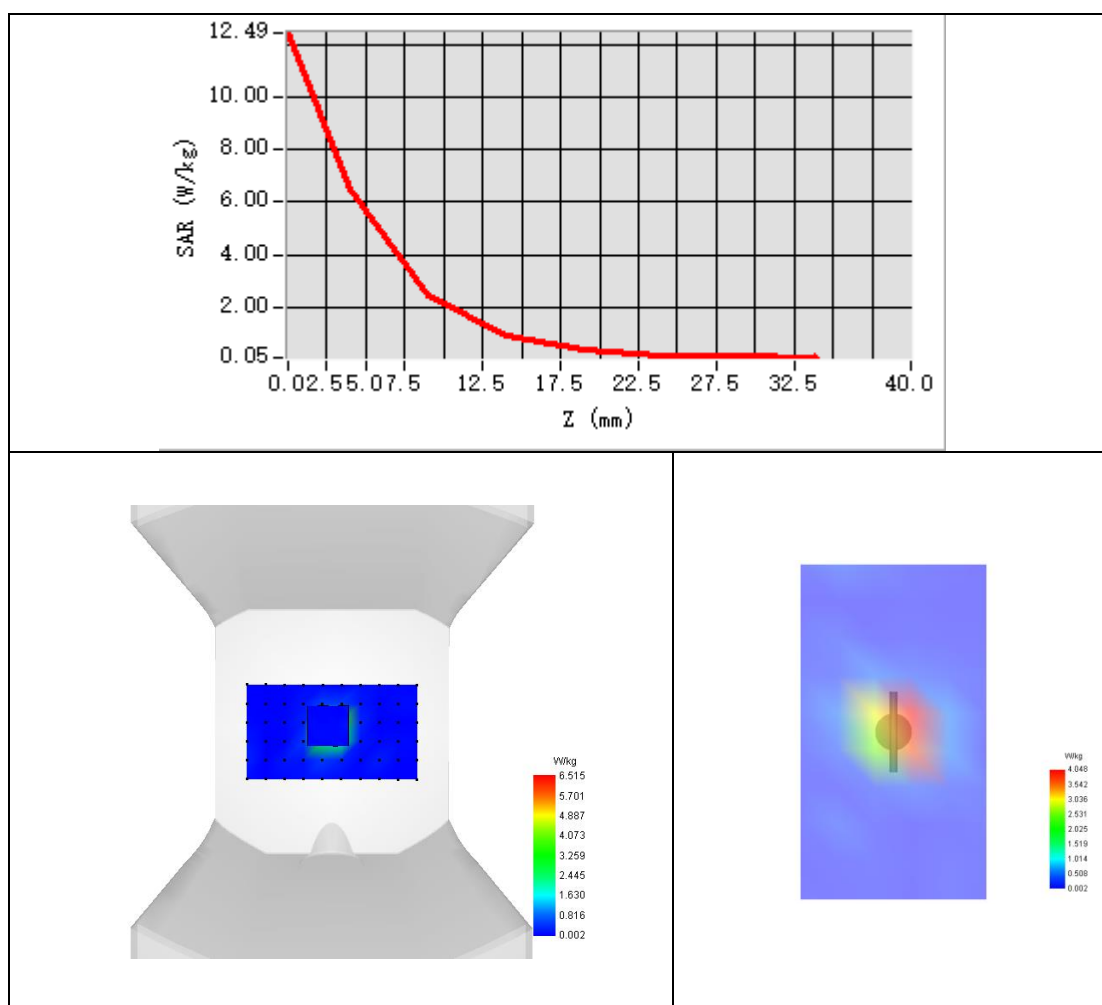


Maximum location: X=5.00, Y=3.00 ; SAR Peak: 14.11 W/kg

SAR 10g (W/Kg)	2.560
SAR 1g (W/Kg)	6.971



Z Axis Scan





System Performance Check Data (4200MHz)

Type: Phone measurement (Complete)

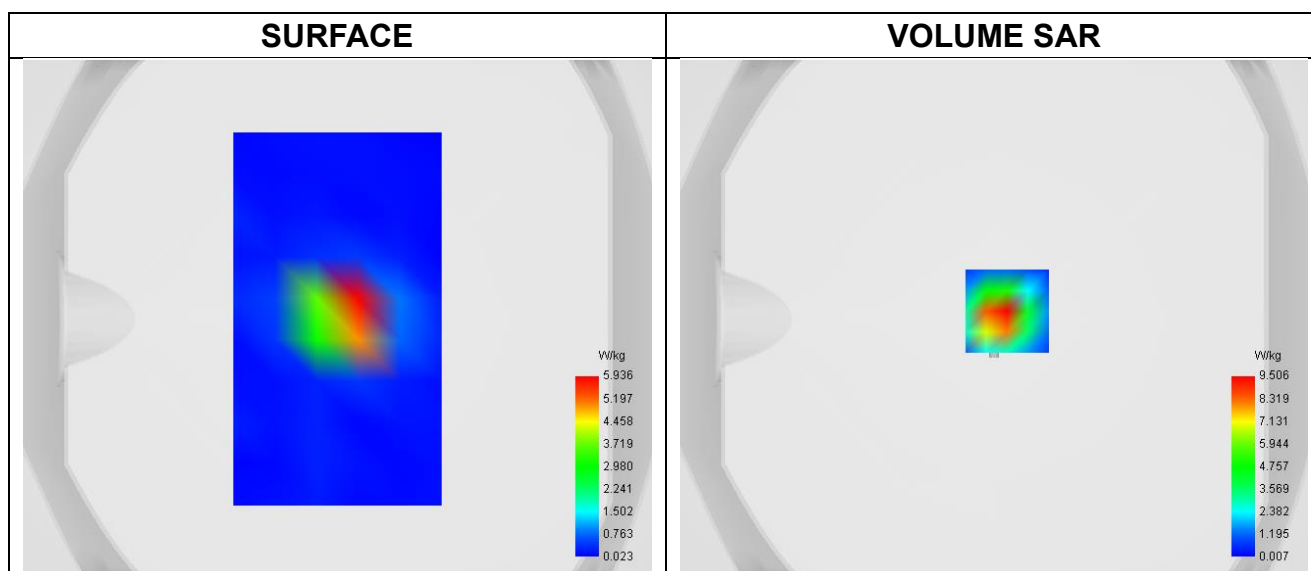
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2025-07-16

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW4200
Channels	Middle
Signal	CW
Frequency (MHz)	4200.000
Relative permittivity	37.51
Conductivity (S/m)	3.69
Probe	SN 04/22 EPGO364
ConvF	2.08
Crest factor:	1:1

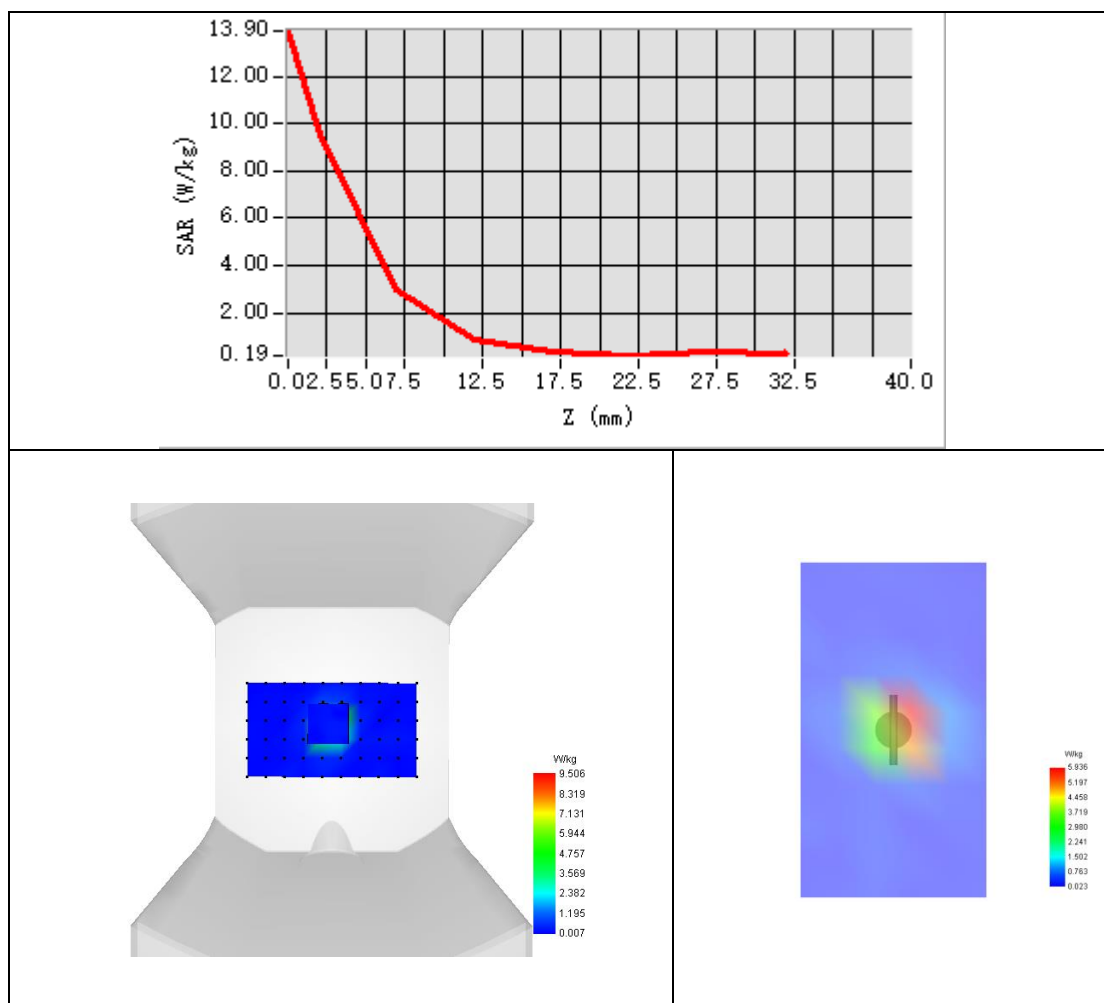


Maximum location: X=2.00, Y=3.00 ; SAR Peak: 15.24 W/kg

SAR 10g (W/Kg)	2.208
SAR 1g (W/Kg)	6.664



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

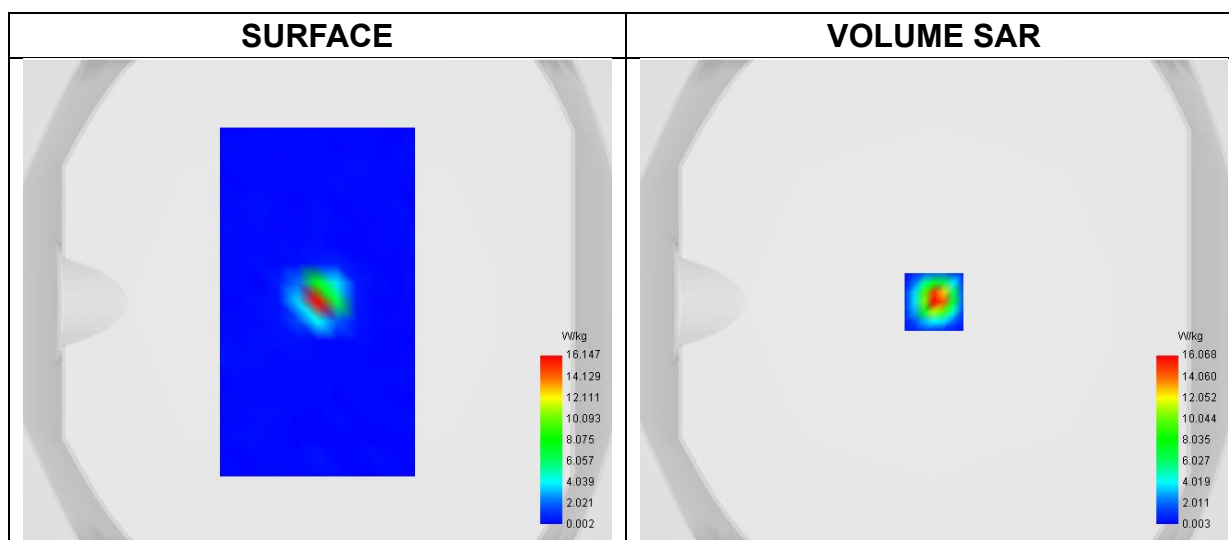
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2025-07-18

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.04
Conductivity (S/m)	4.64
Probe	SN 04/22 EPGO364
ConvF	1.99
Crest factor:	1:1

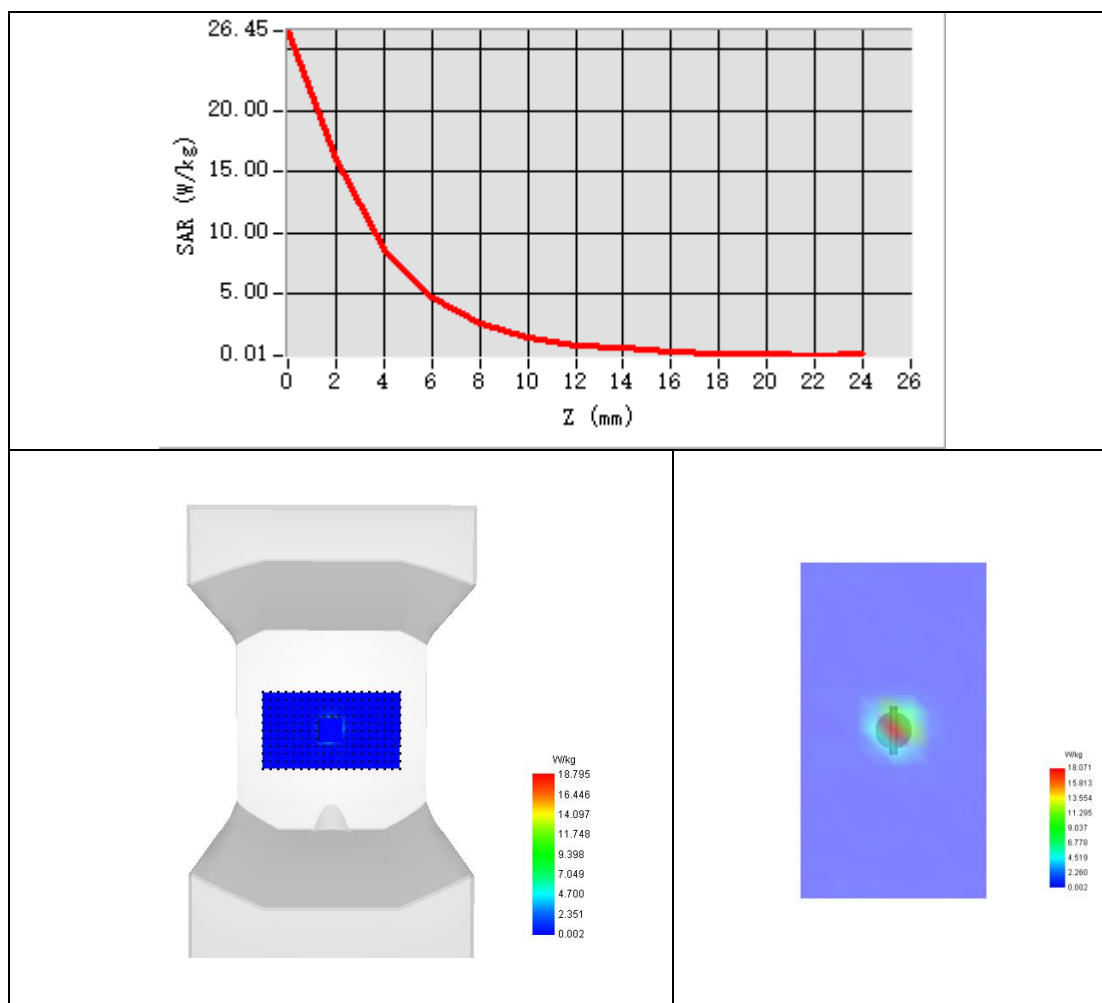


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 29.22 W/kg

SAR 10g (W/Kg)	2.288
SAR 1g (W/Kg)	8.075



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

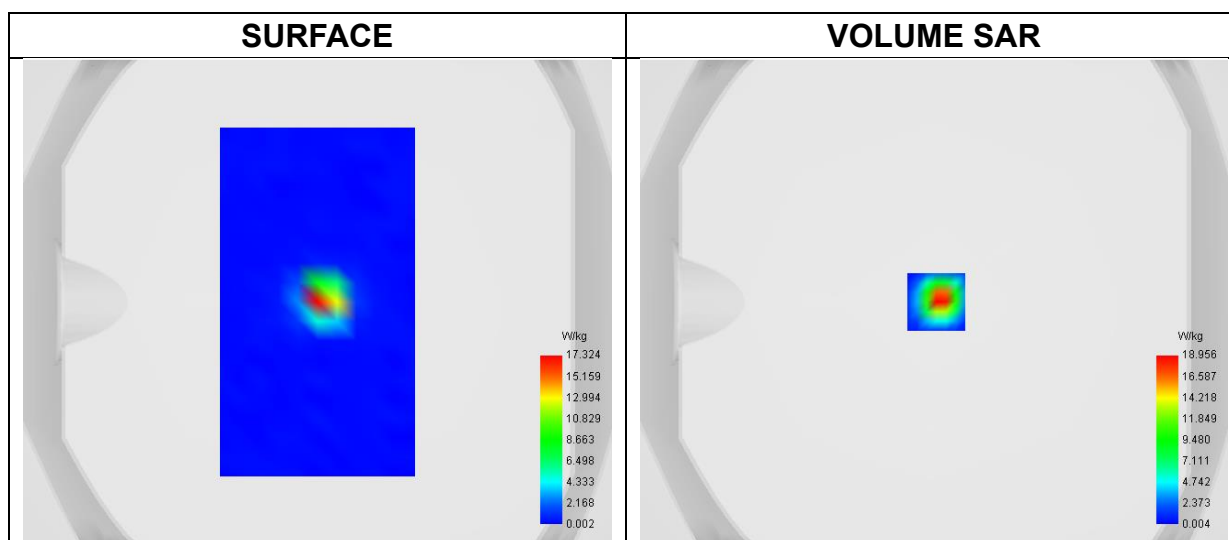
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2025-07-22

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.48
Conductivity (S/m)	4.84
Probe	SN 04/22 EPG0364
ConvF	1.87
Crest factor:	1:1

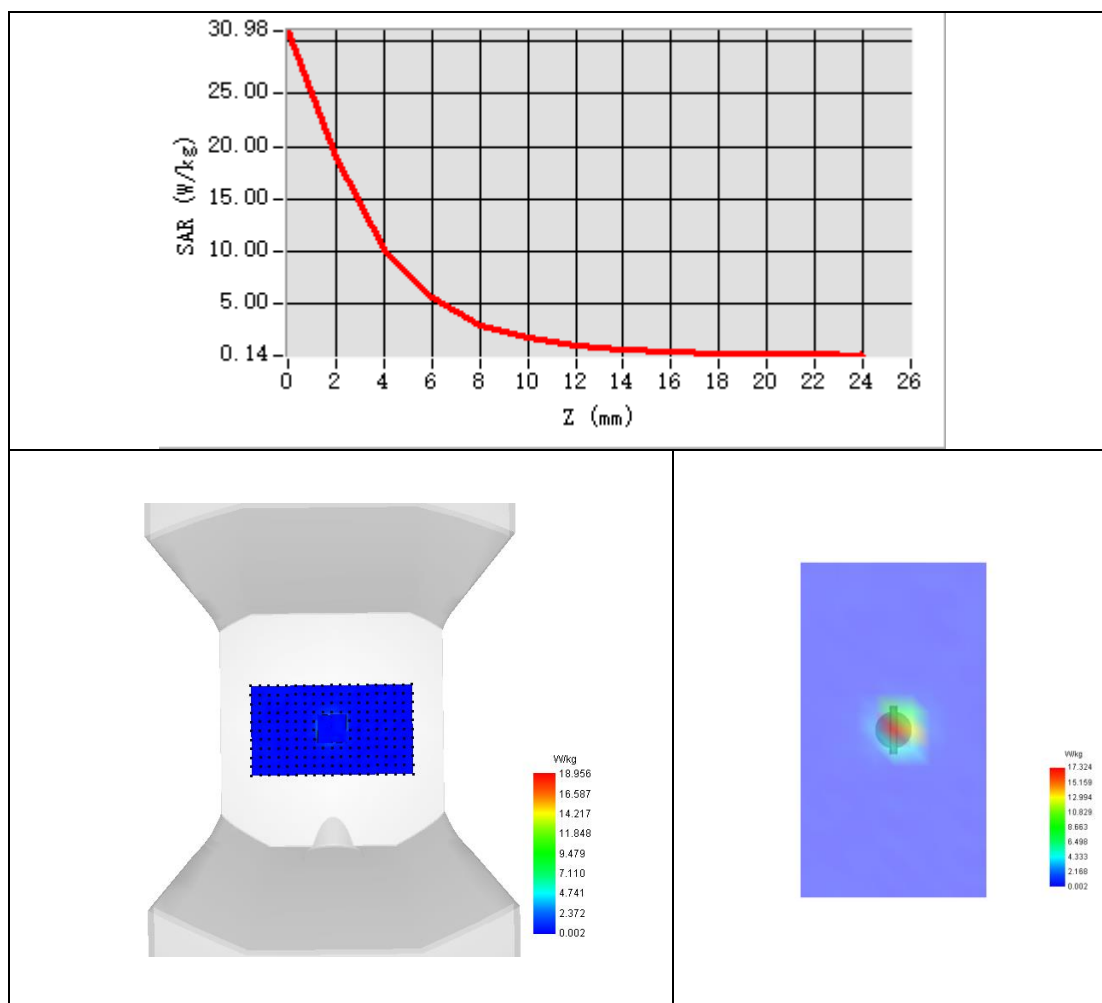


Maximum location: X=3.00, Y=1.00 ; SAR Peak: 29.81 W/kg

SAR 10g (W/Kg)	2.456
SAR 1g (W/Kg)	8.468



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

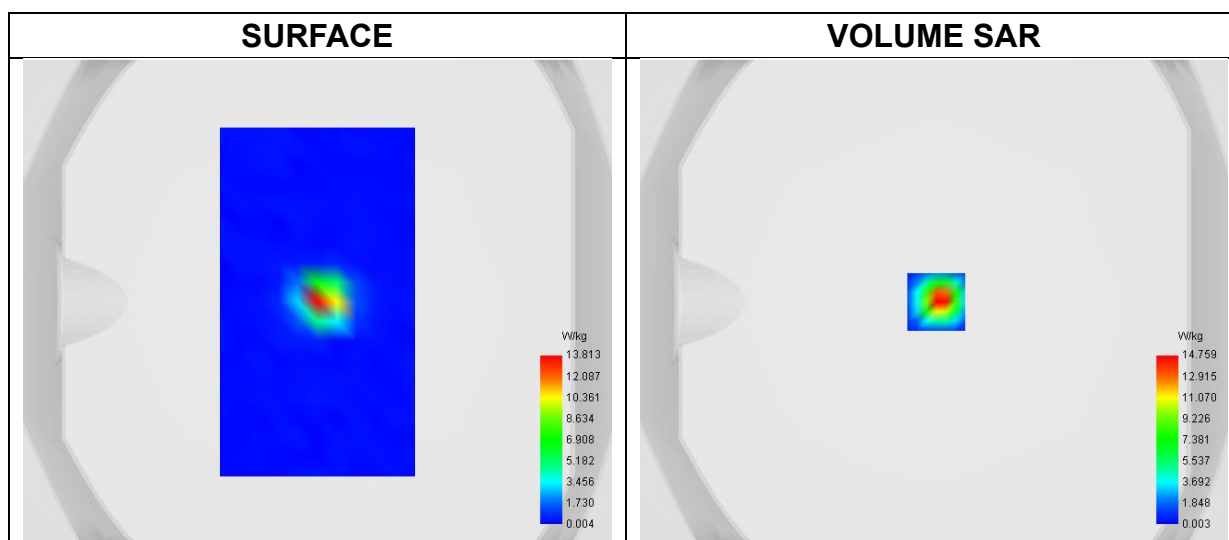
Area scan resolution: dx=4mm, dy=4mm

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

Date of measurement: 2025-07-19

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.72
Conductivity (S/m)	5.12
Probe	SN 04/22 EPGO364
ConvF	1.87
Crest factor:	1:1

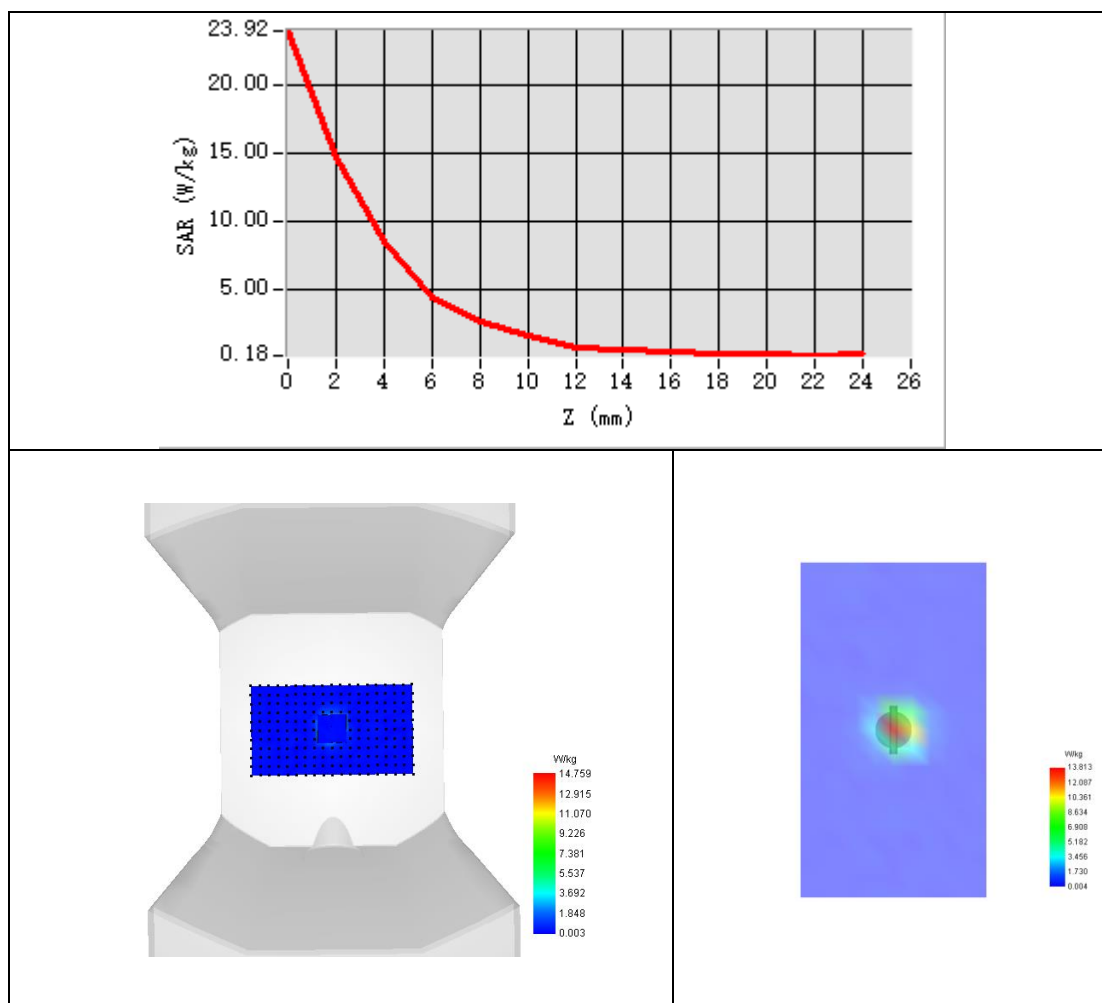


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 35.03 W/kg

SAR 10g (W/Kg)	2.343
SAR 1g (W/Kg)	8.141



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

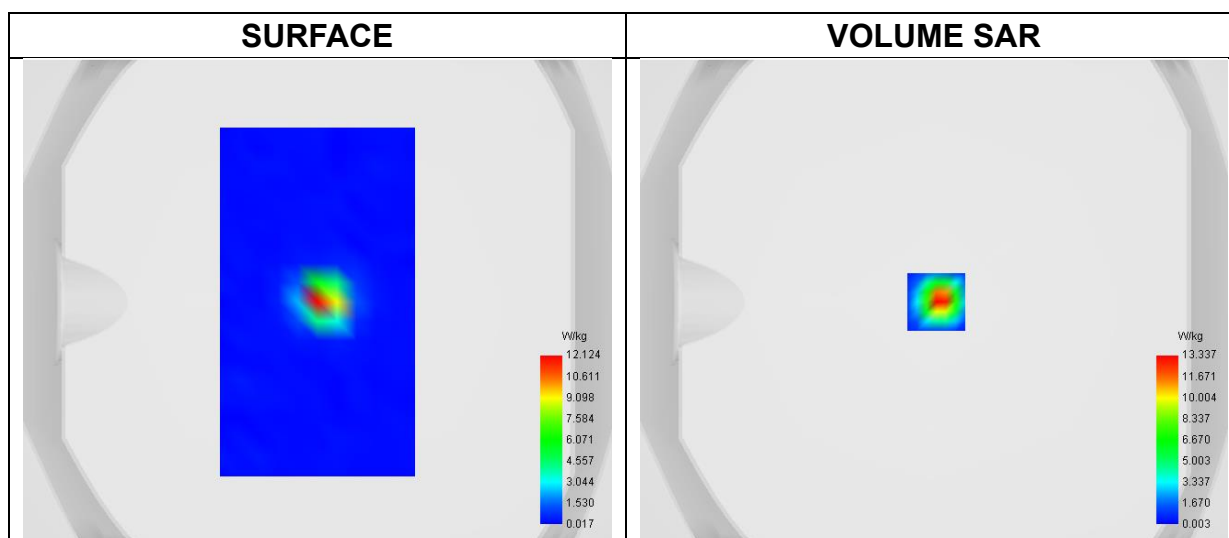
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2025-07-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.00
Conductivity (S/m)	5.29
Probe	SN 04/22 EPG0364
ConvF	1.70
Crest factor:	1:1

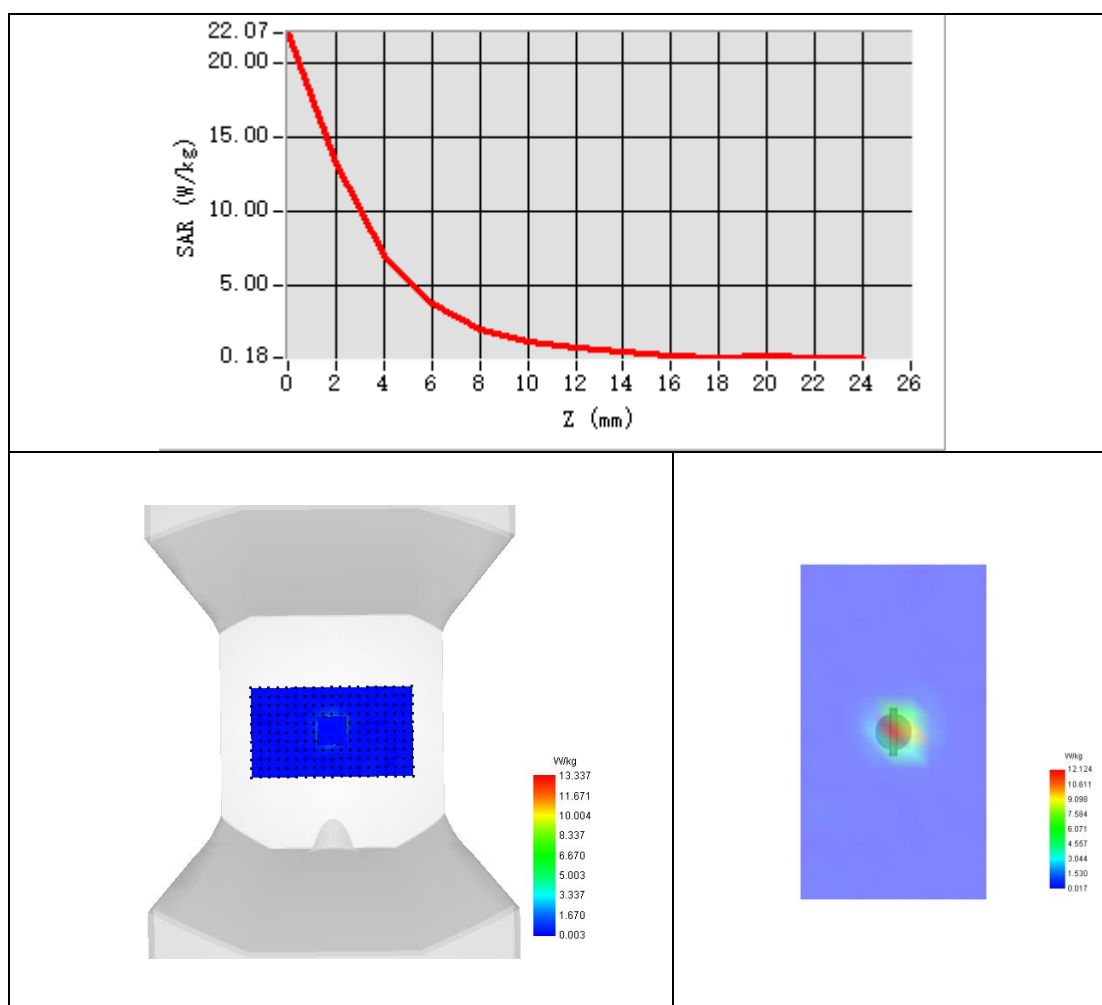


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 26.7 W/kg

SAR 10g (W/Kg)	2.365
SAR 1g (W/Kg)	8.172



Z Axis Scan



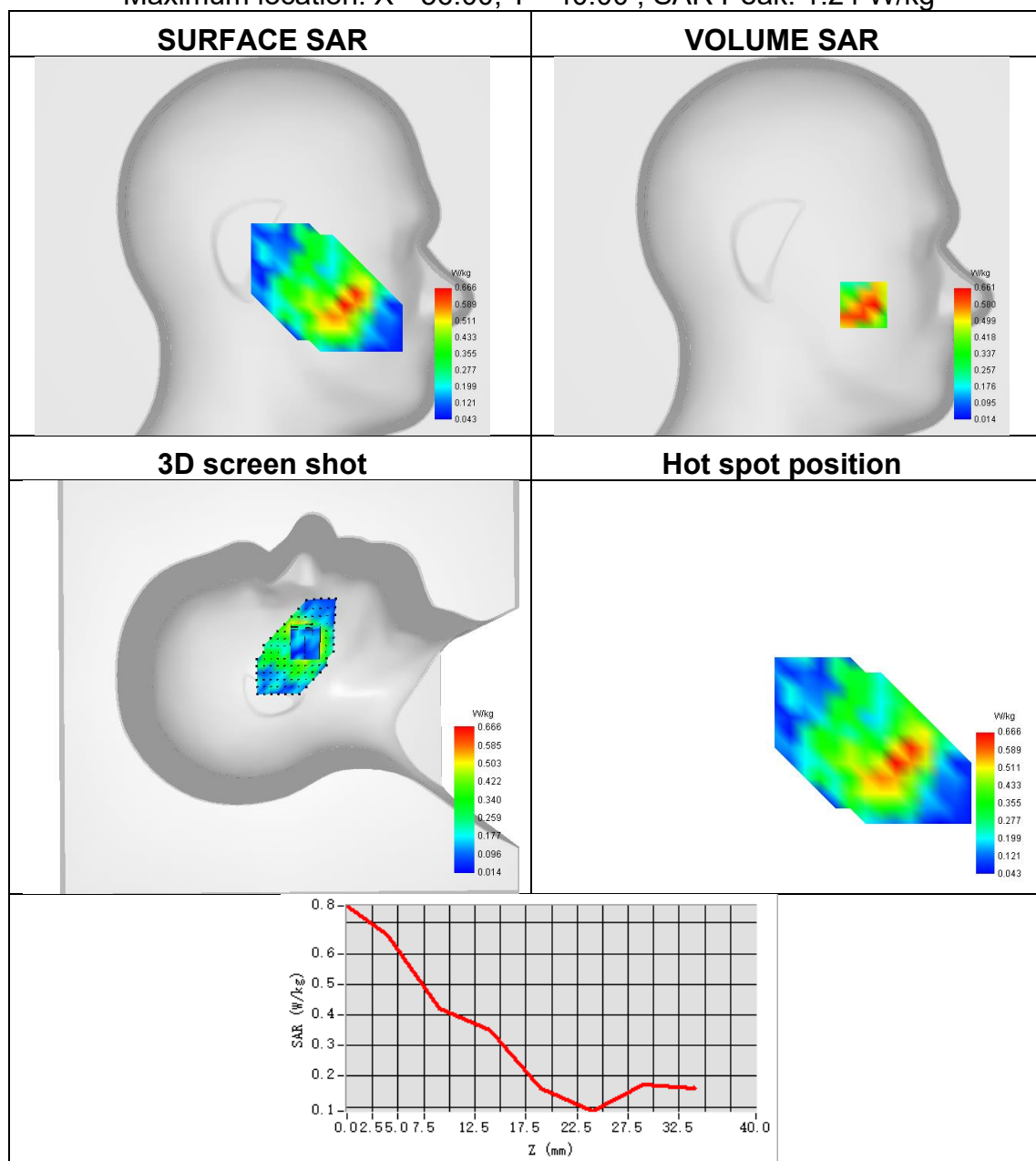


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM900
Signal	TDMA (GSM)
Frequency	880.2
SAR 10g (W/Kg)	0.371
SAR 1g (W/Kg)	0.632

Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 1.24 W/kg

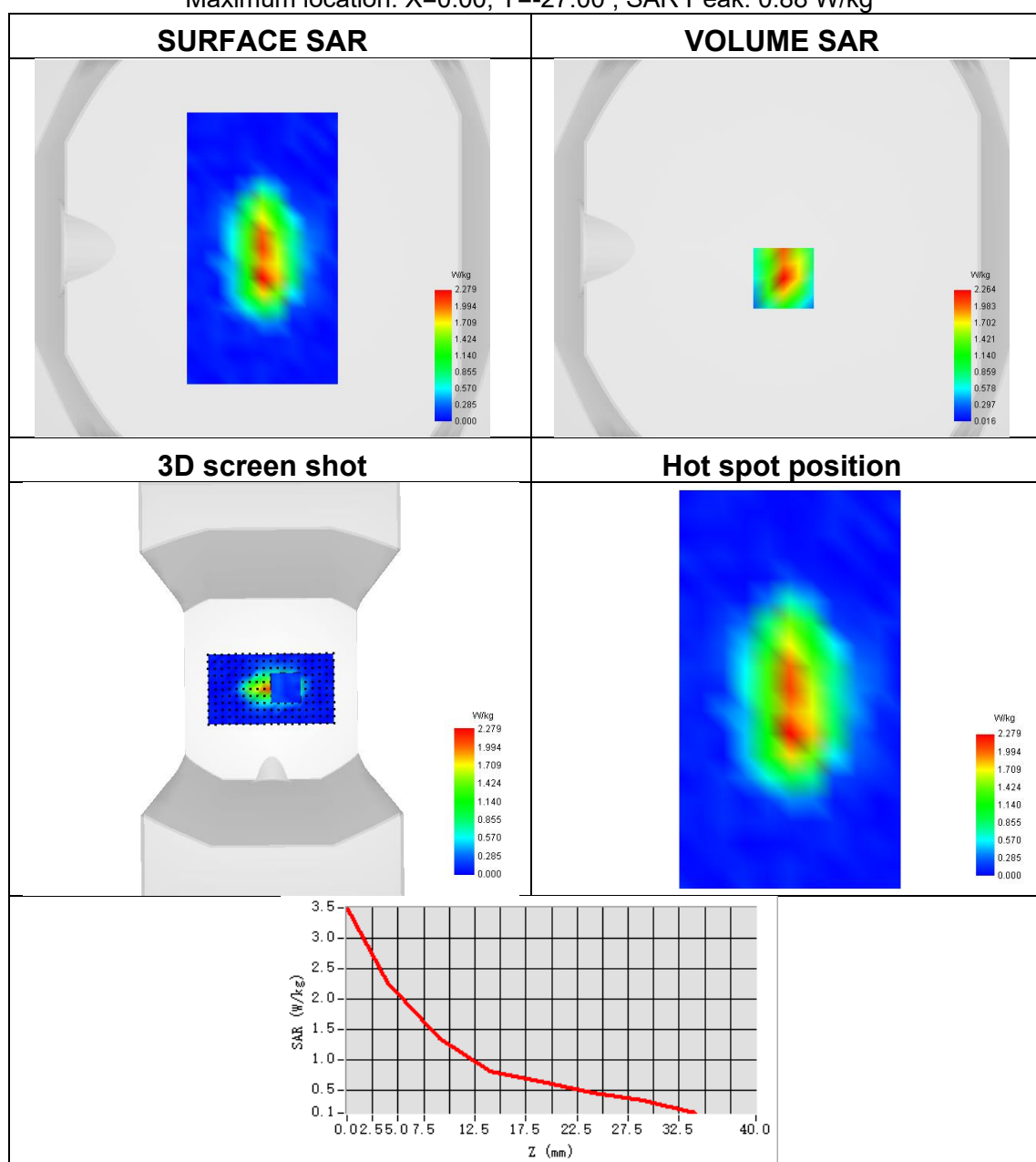




Plot 2:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	GPRS900
Signal	TDMA (GPRS)
Frequency	902.4
SAR 10g (W/Kg)	1.066
SAR 1g (W/Kg)	2.076

Maximum location: X=0.00, Y=-27.00 ; SAR Peak: 0.88 W/kg

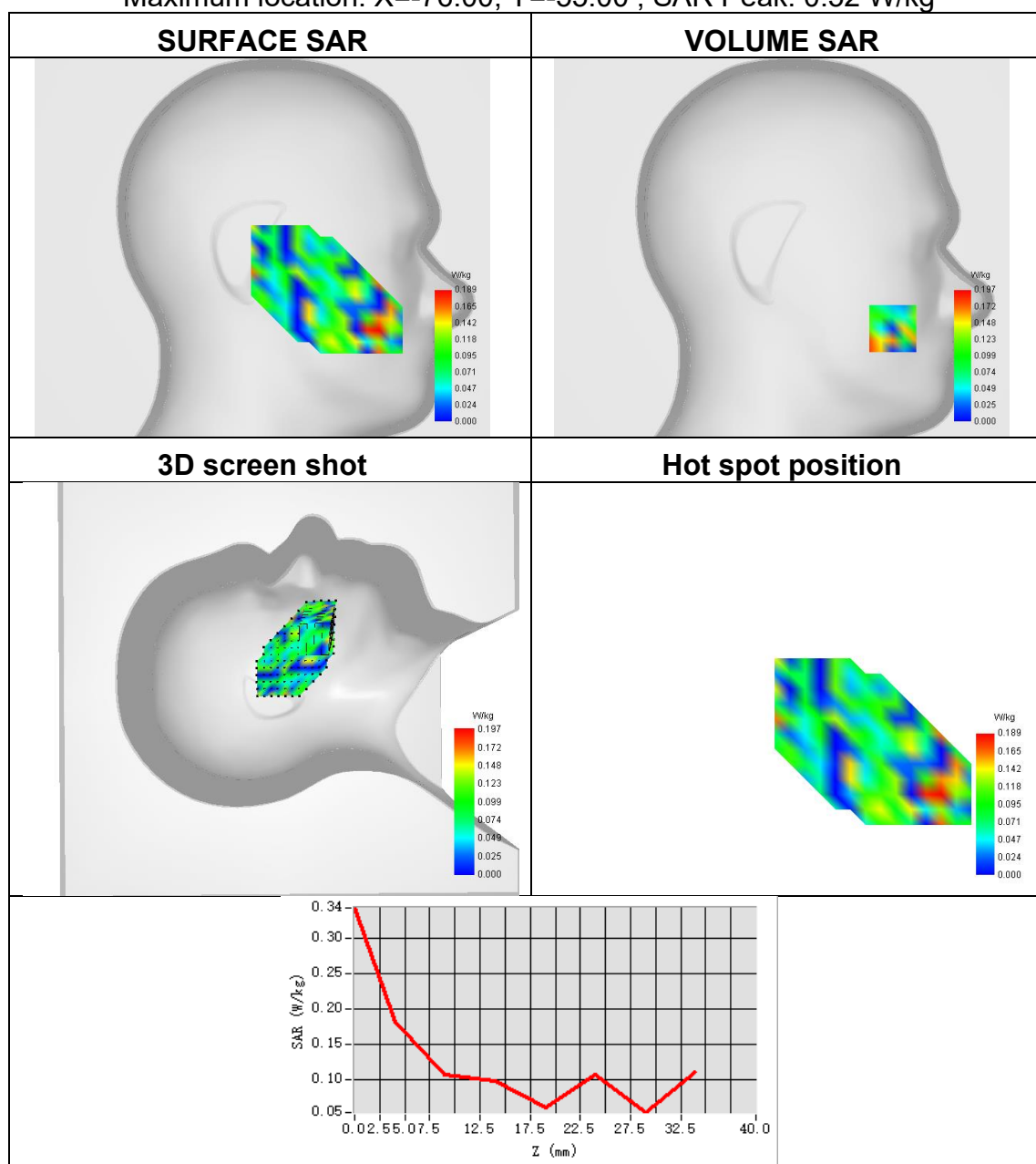




Plot 3:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	GSM1800
Signal	TDMA (GSM)
Frequency	1784.8
SAR 10g (W/Kg)	0.079
SAR 1g (W/Kg)	0.186

Maximum location: X=-76.00, Y=-55.00 ; SAR Peak: 0.52 W/kg

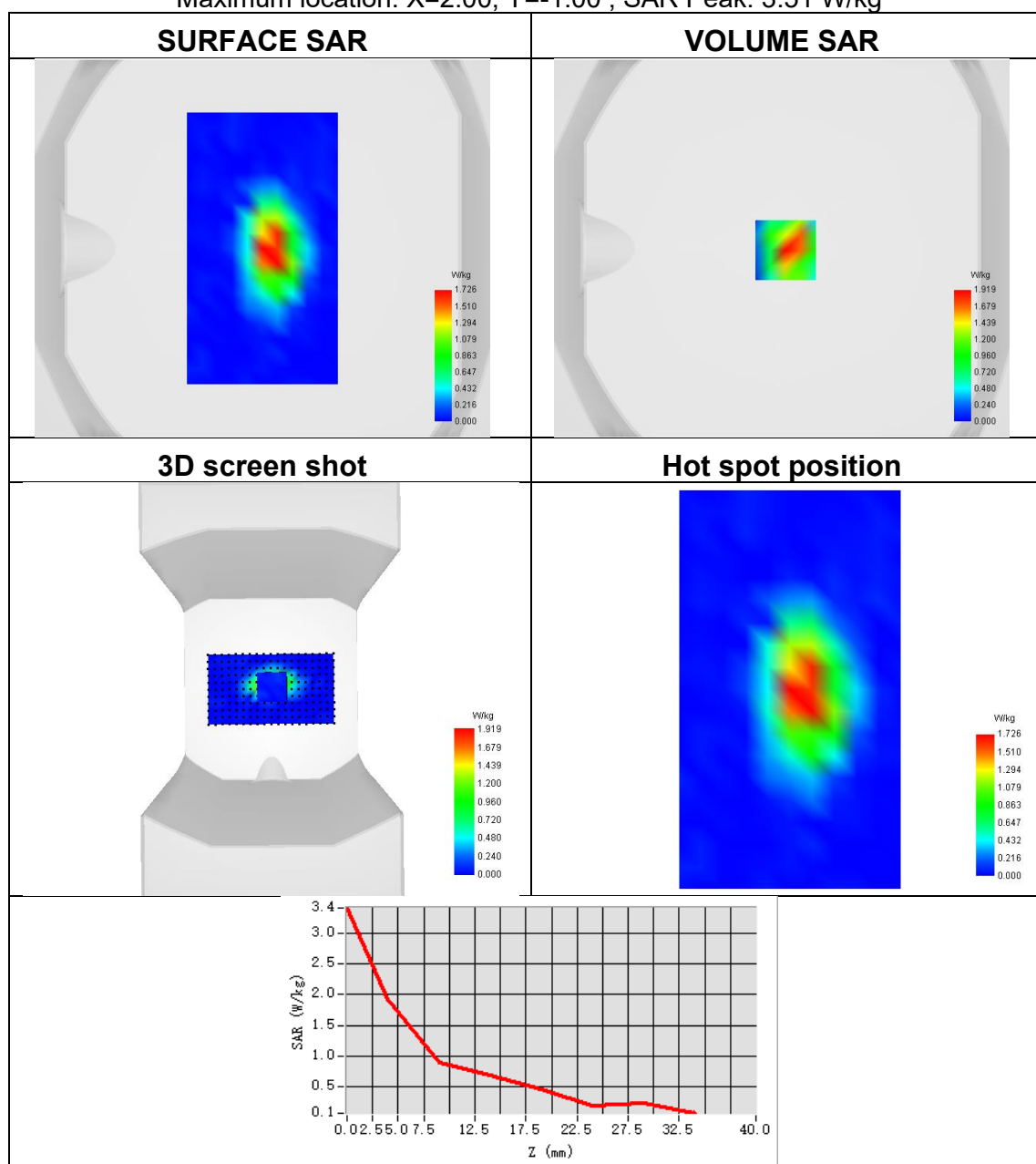




Plot 4:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	GPRS1800
Signal	TDMA (GPRS)
Frequency	1784.8
SAR 10g (W/Kg)	0.853
SAR 1g (W/Kg)	1.862

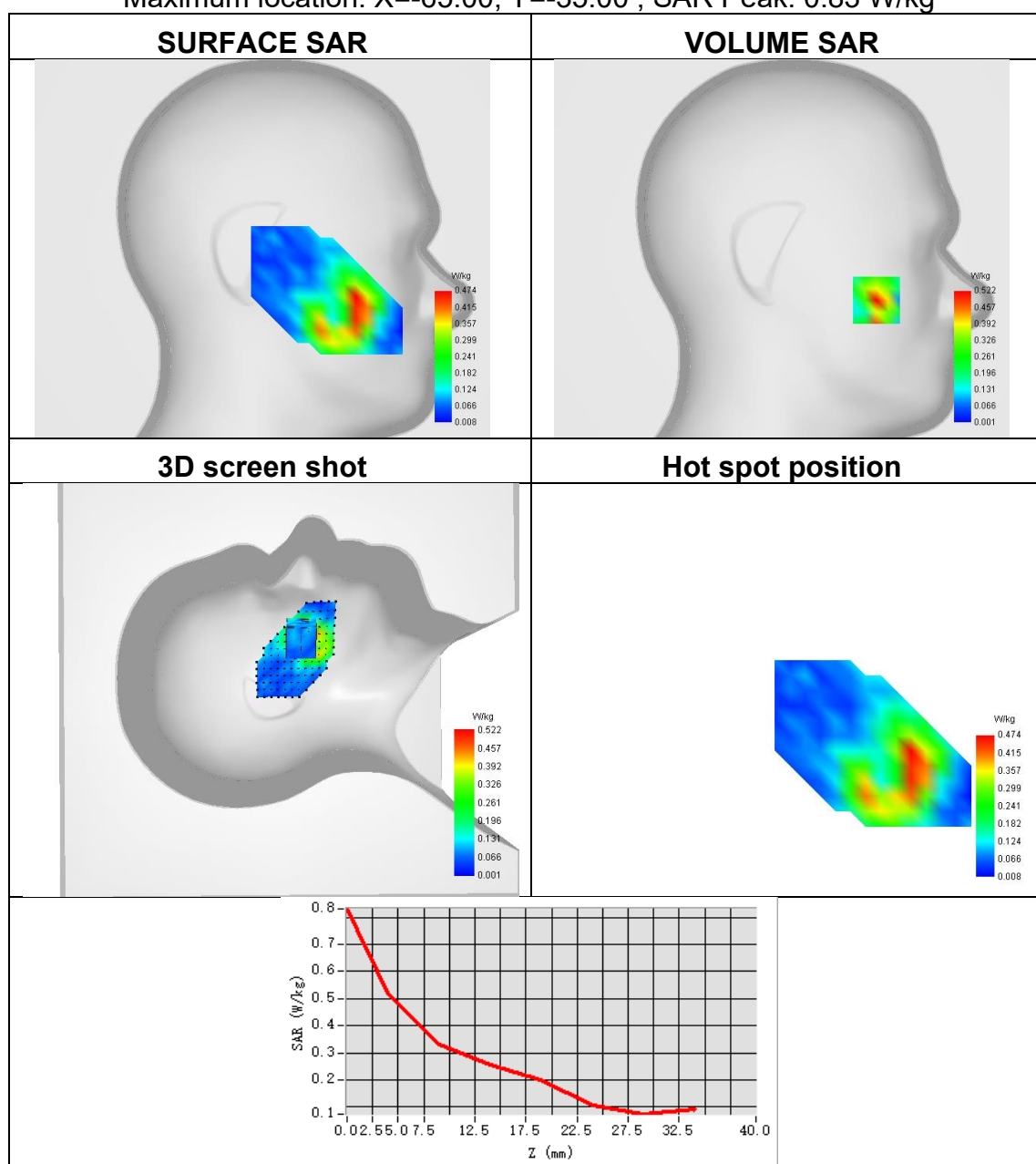
Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 3.51 W/kg



Plot 5:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 1 (UMTS)
Signal	WCDMA
Frequency	1922.4
SAR 10g (W/Kg)	0.262
SAR 1g (W/Kg)	0.482

Maximum location: X=-65.00, Y=-35.00 ; SAR Peak: 0.83 W/kg

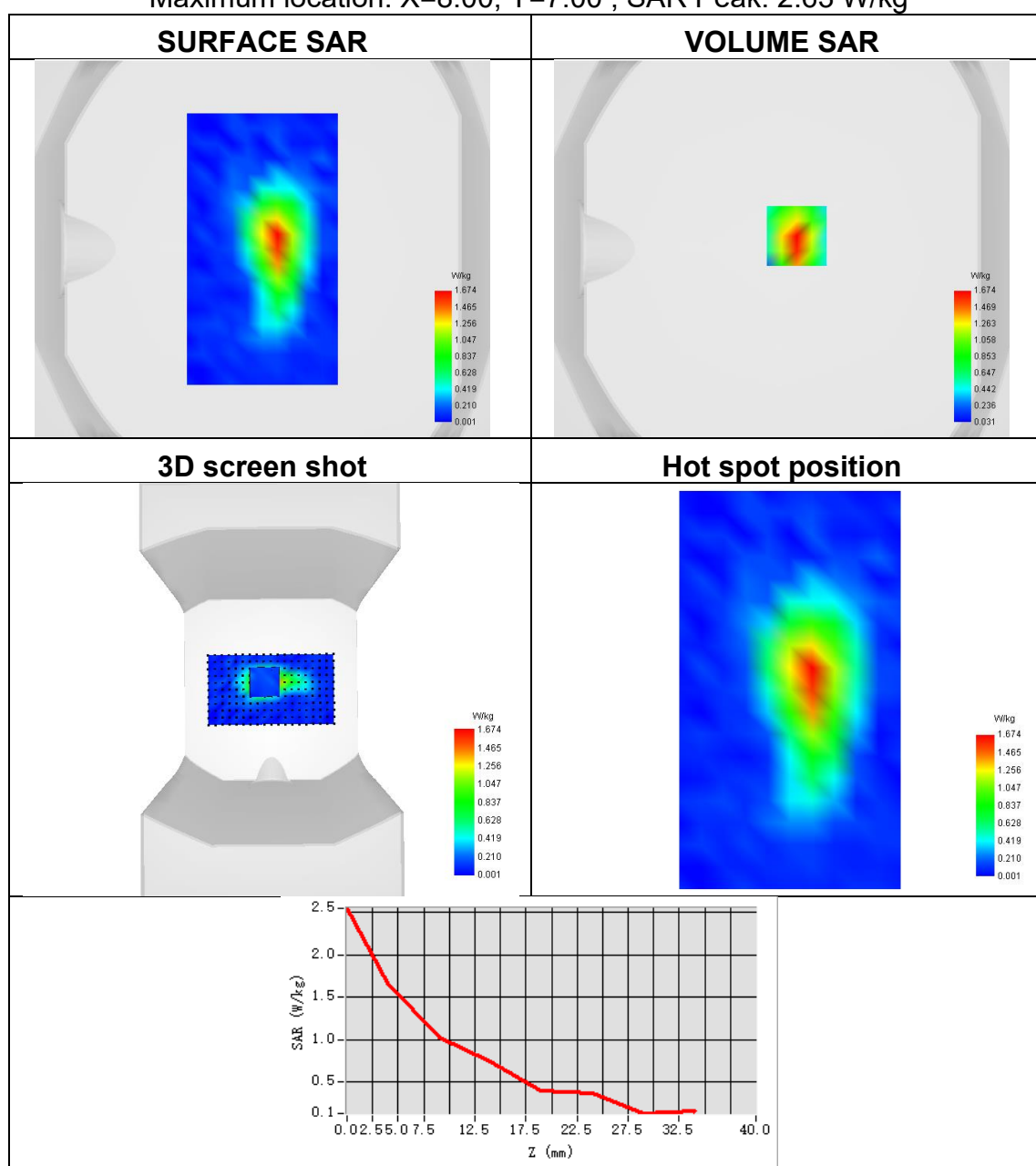




Plot 6:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	Band 1 (UMTS)
Signal	WCDMA
Frequency	1922.4
SAR 10g (W/Kg)	0.880
SAR 1g (W/Kg)	1.610

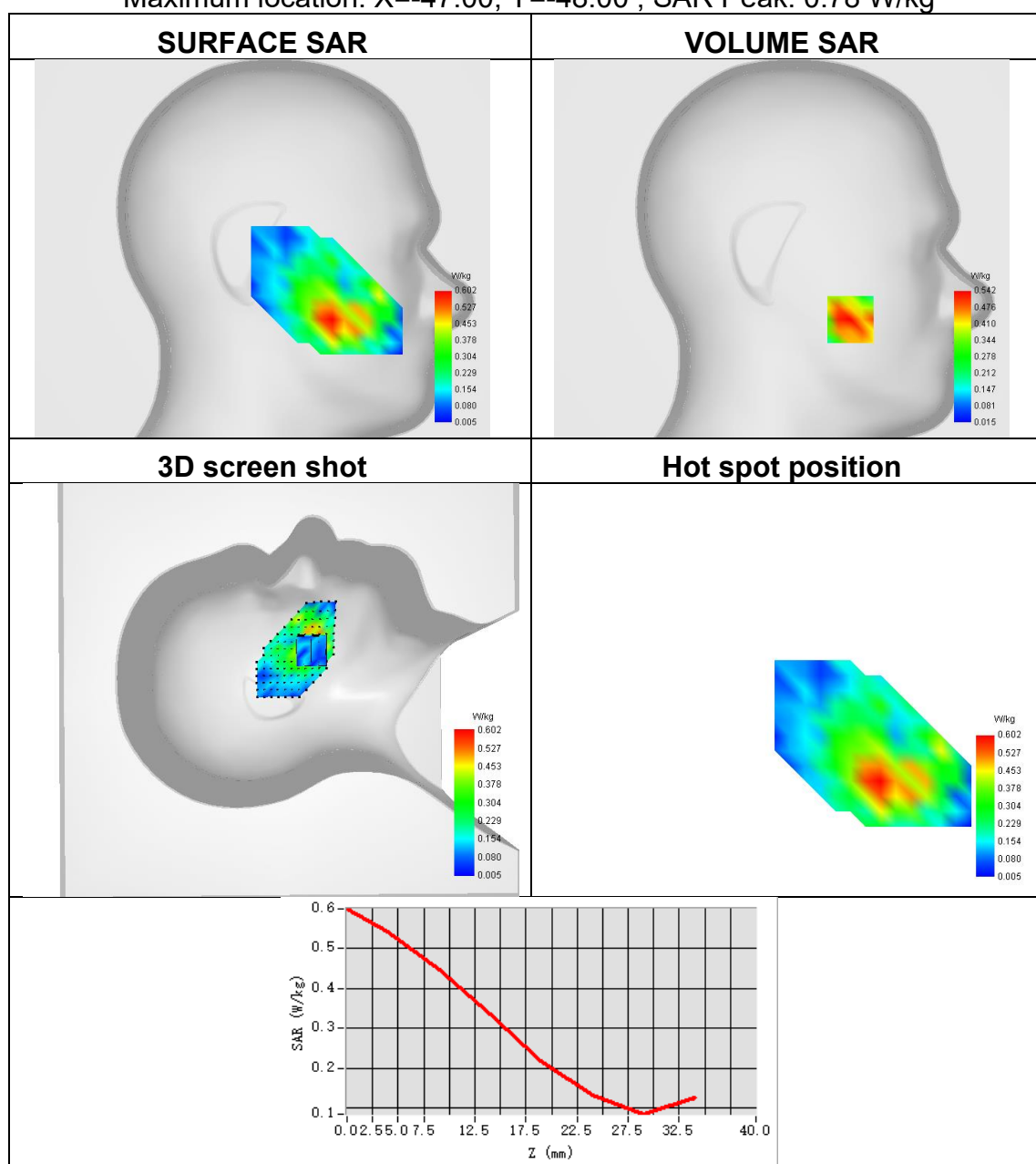
Maximum location: X=8.00, Y=7.00 ; SAR Peak: 2.63 W/kg



Plot 7:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	Band 8 (900)
Signal	WCDMA
Frequency	882.4
SAR 10g (W/Kg)	0.319
SAR 1g (W/Kg)	0.530

Maximum location: X=-47.00, Y=-48.00 ; SAR Peak: 0.78 W/kg

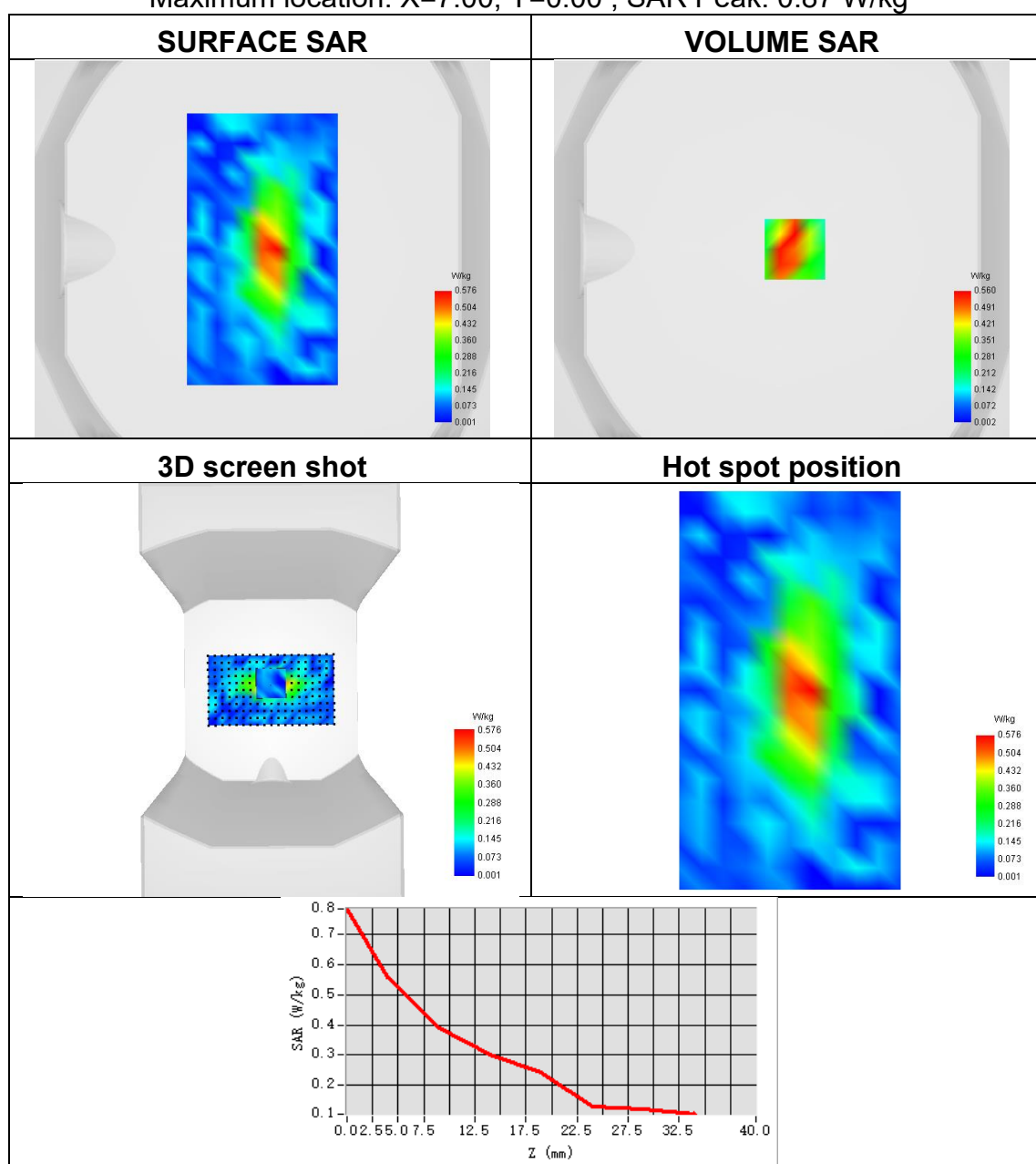




Plot 8:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	Band 8 (900)
Signal	WCDMA
Frequency	882.4
SAR 10g (W/Kg)	0.327
SAR 1g (W/Kg)	0.529

Maximum location: X=7.00, Y=0.00 ; SAR Peak: 0.87 W/kg

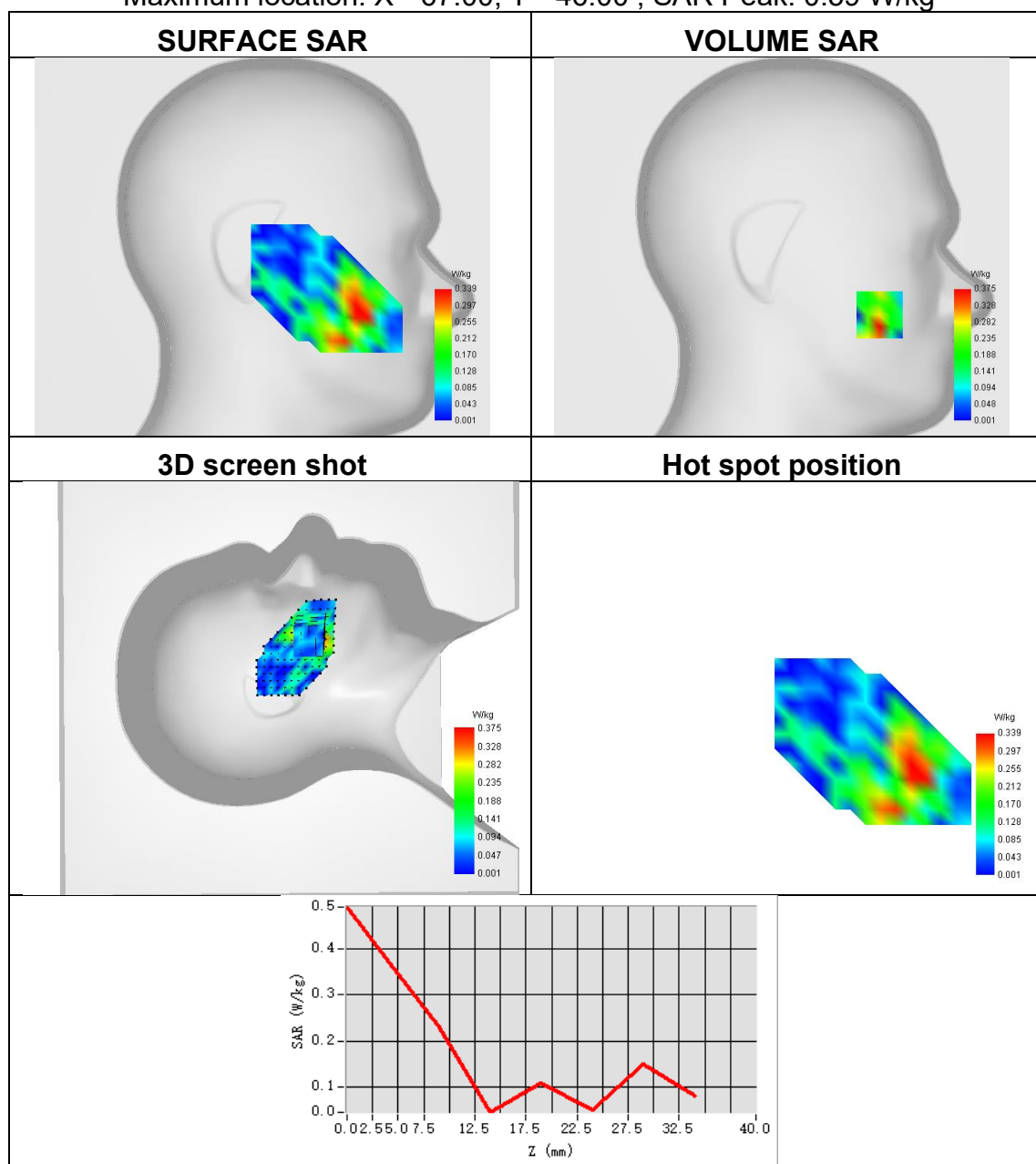




Plot 9:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 1
Signal	LTE FDD
Frequency	1950
SAR 10g (W/Kg)	0.161
SAR 1g (W/Kg)	0.306

Maximum location: X=-67.00, Y=-46.00 ; SAR Peak: 0.59 W/kg

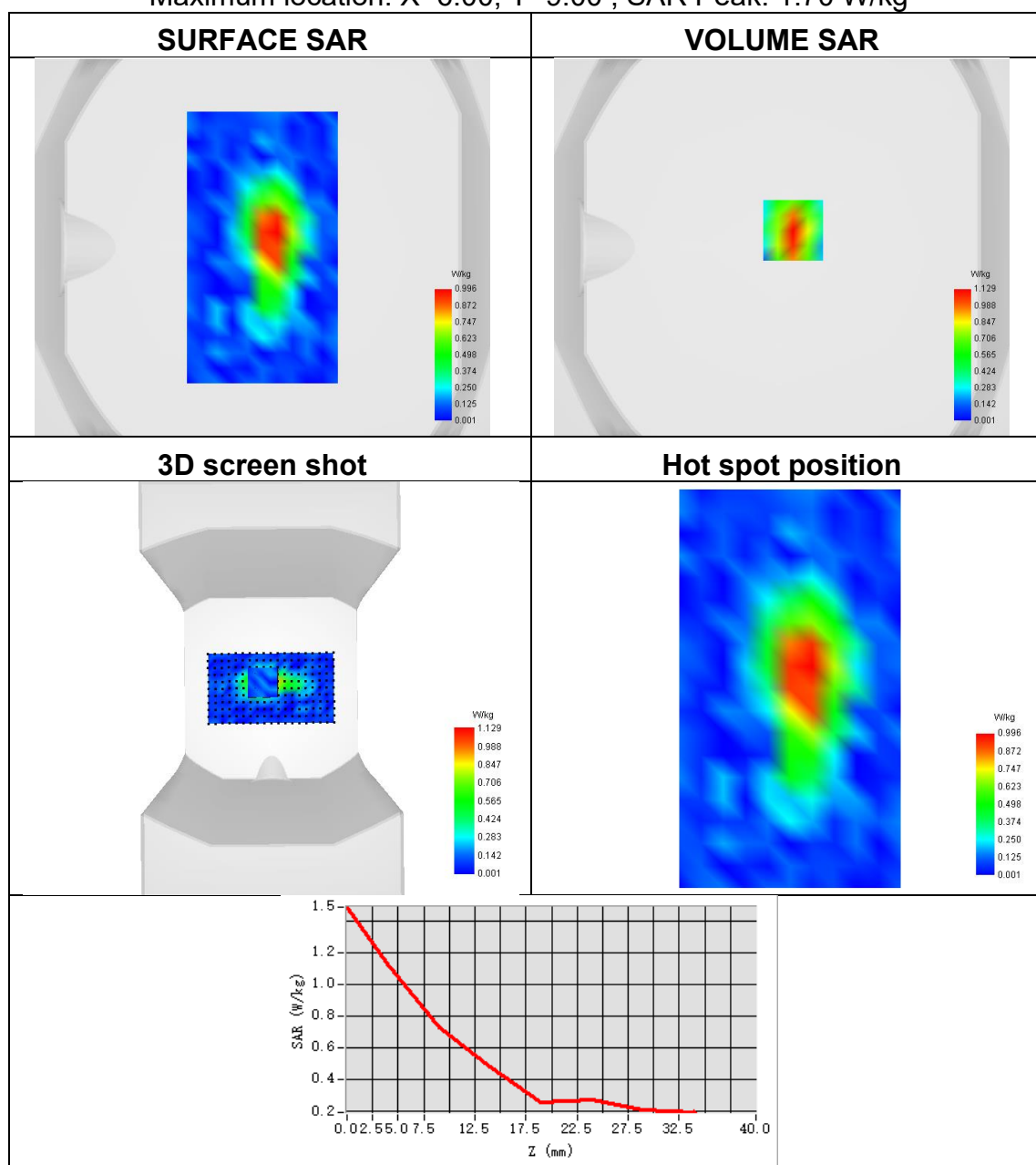




Plot 10:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 1
Signal	LTE FDD
Frequency	1950
SAR 10g (W/Kg)	0.571
SAR 1g (W/Kg)	1.047

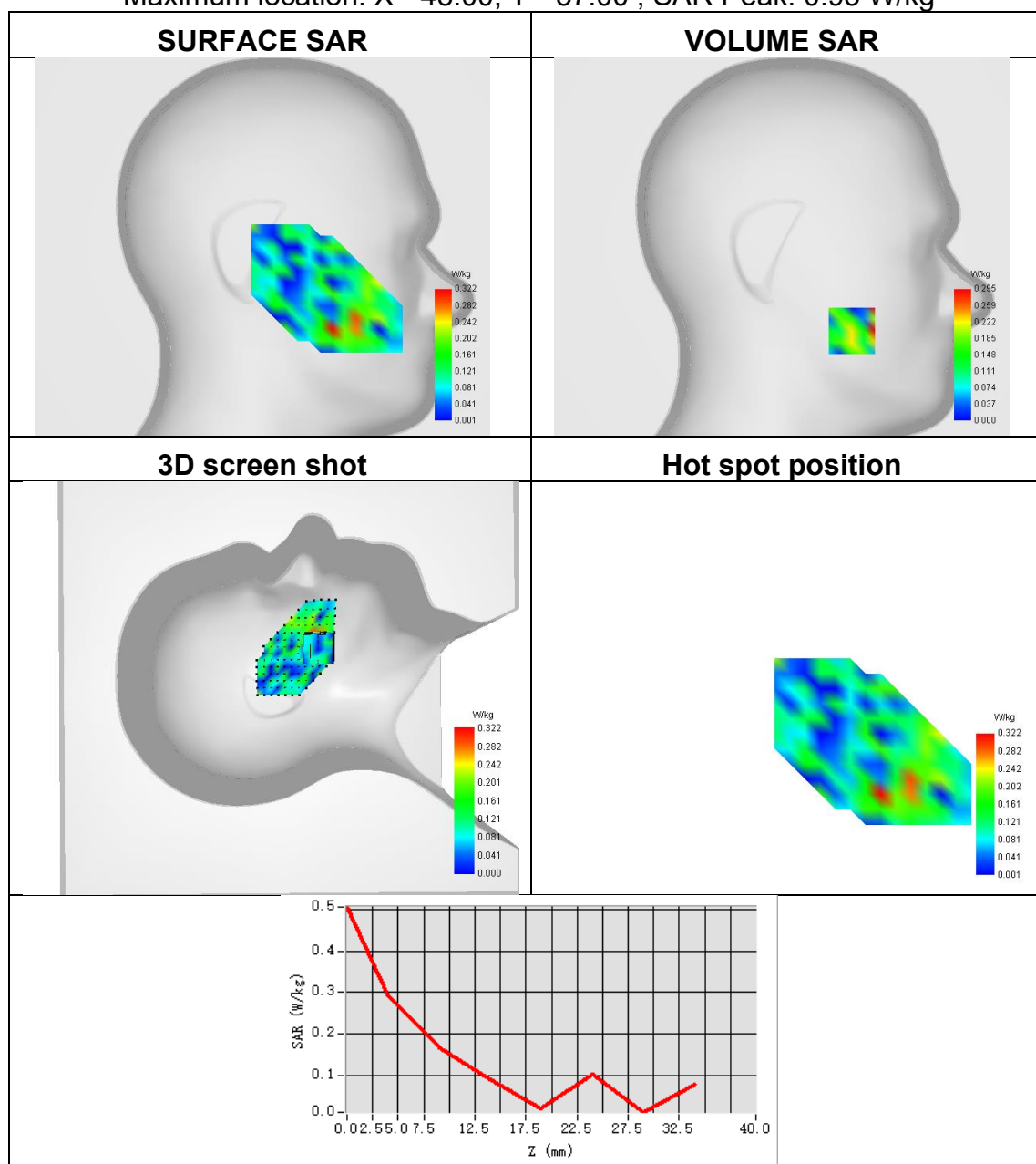
Maximum location: X=6.00, Y=9.00 ; SAR Peak: 1.70 W/kg



Plot 11:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 3
Signal	LTE FDD
Frequency	1775
SAR 10g (W/Kg)	0.091
SAR 1g (W/Kg)	0.134

Maximum location: X=-48.00, Y=-57.00 ; SAR Peak: 0.93 W/kg

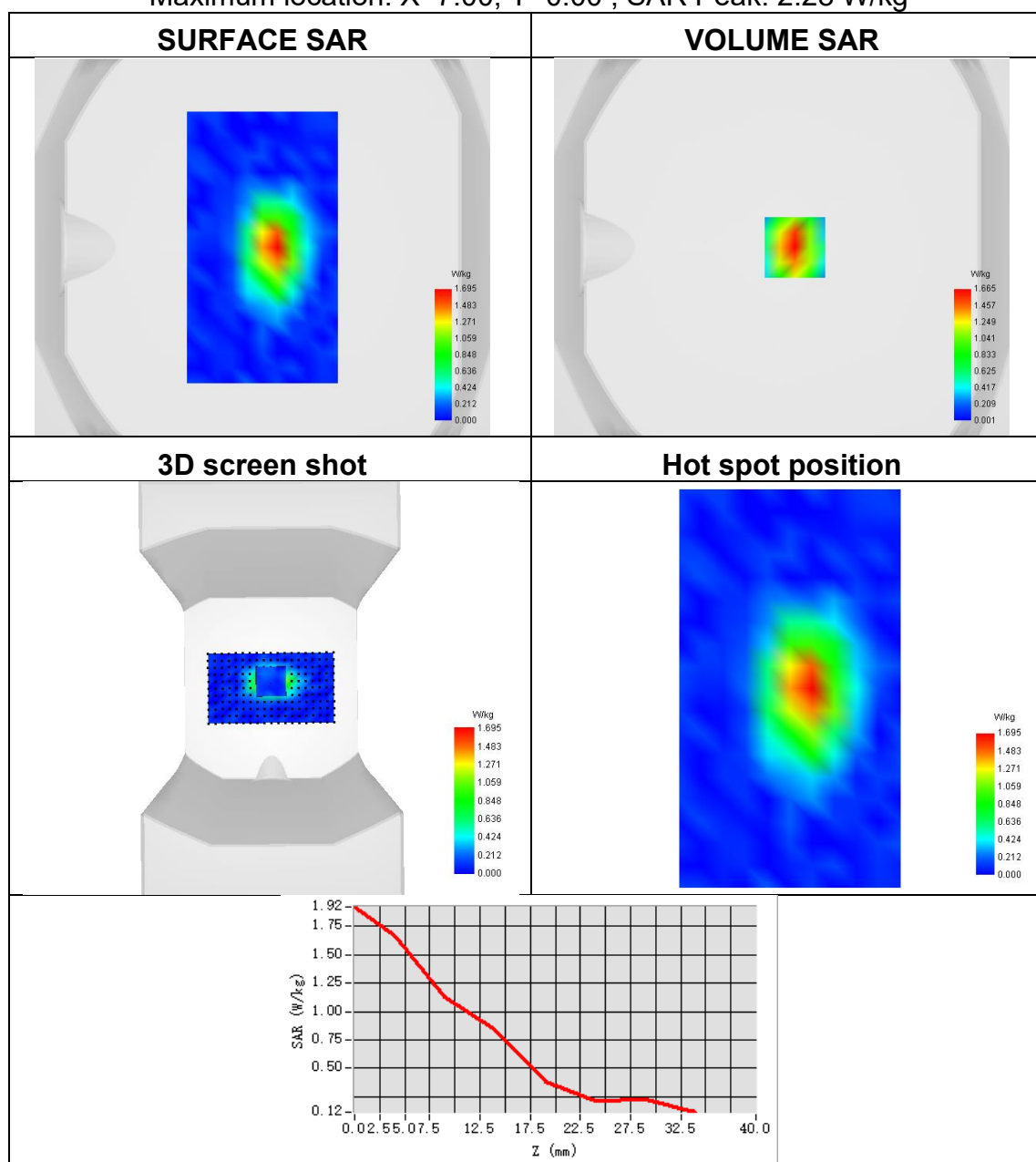




Plot 12:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 3
Signal	LTE FDD
Frequency	1775
SAR 10g (W/Kg)	0.858
SAR 1g (W/Kg)	1.518

Maximum location: X=7.00, Y=0.00 ; SAR Peak: 2.28 W/kg

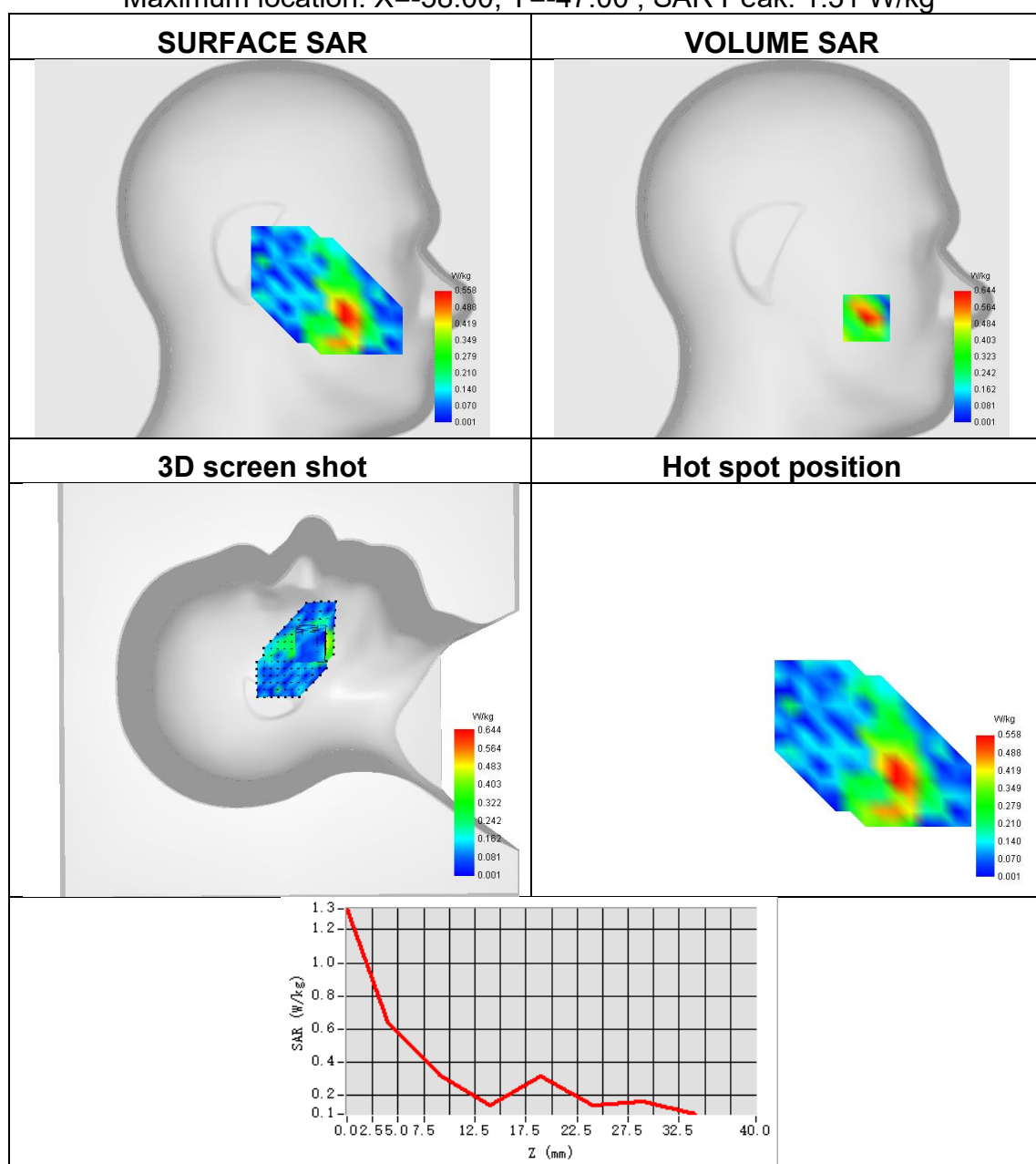




Plot 13:

Test Date	2025-07-06
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)	0.302
SAR 1g (W/Kg)	0.617

Maximum location: X=-58.00, Y=-47.00 ; SAR Peak: 1.31 W/kg

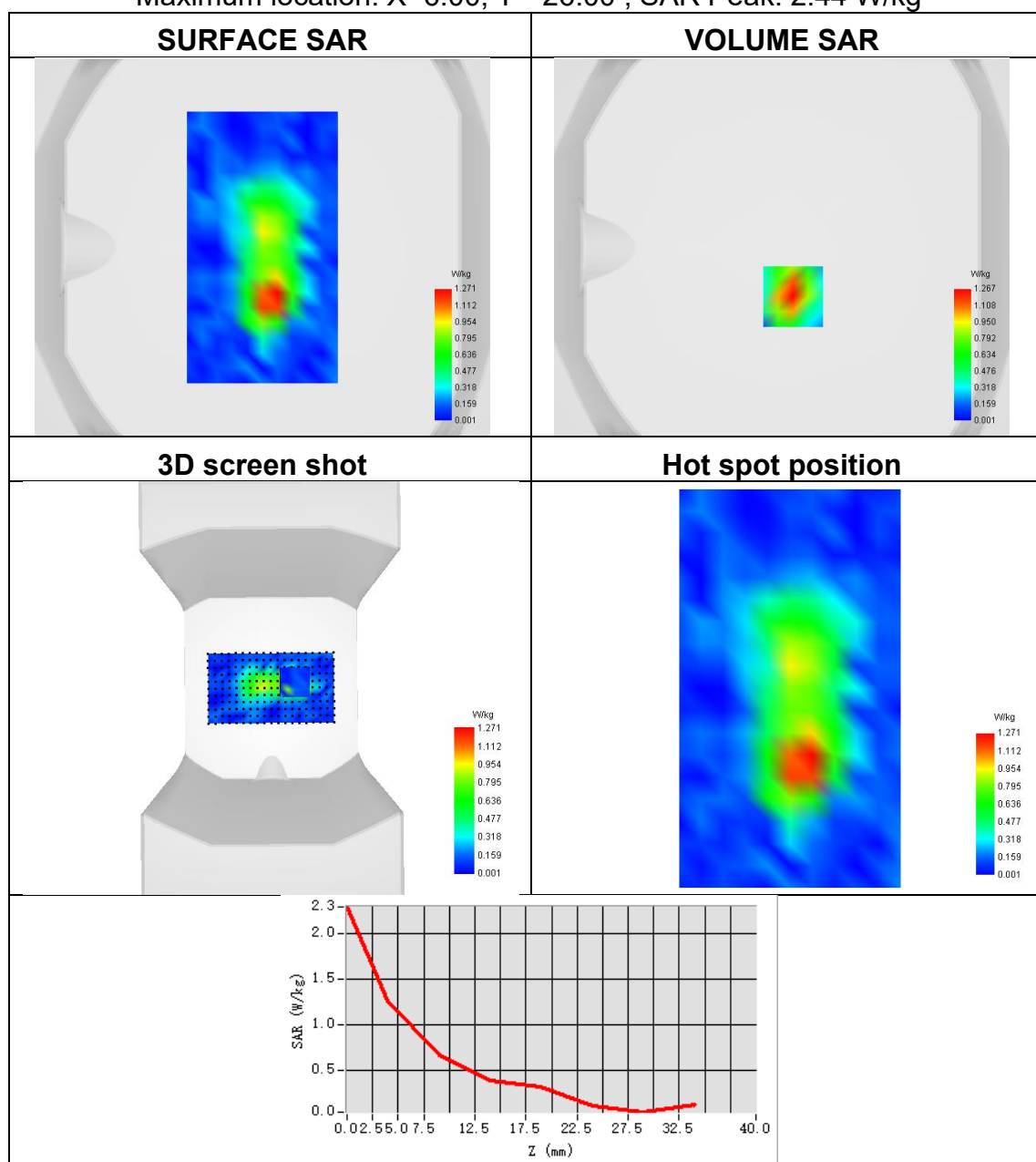




Plot 14:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 7
Signal	LTE FDD
Frequency	2510
SAR 10g (W/Kg)	0.577
SAR 1g (W/Kg)	1.267

Maximum location: X=6.00, Y=-26.00 ; SAR Peak: 2.44 W/kg

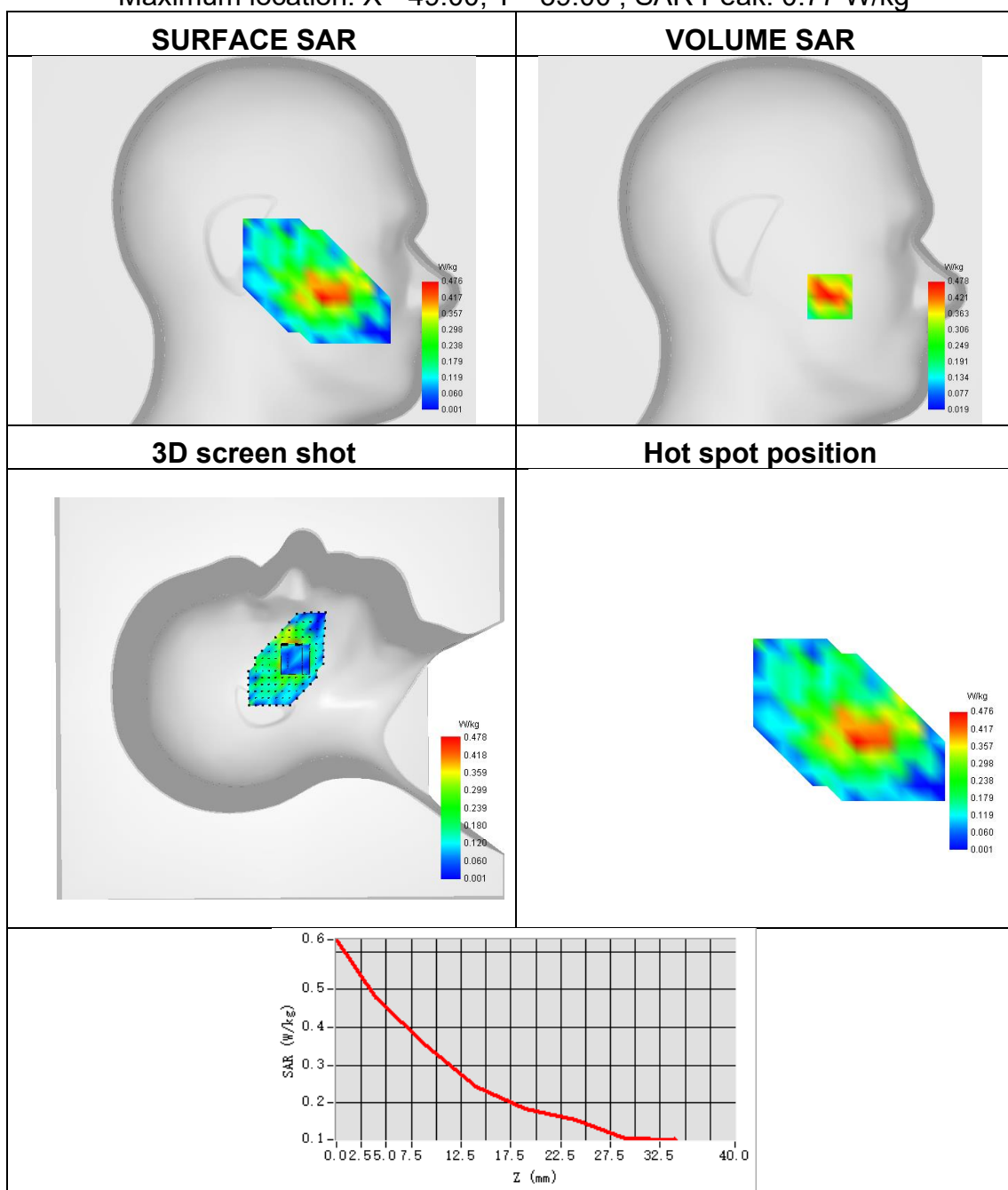




Plot 15:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 8
Signal	LTE FDD
Frequency	885
SAR 10g (W/Kg)	0.275
SAR 1g (W/Kg)	0.454

Maximum location: X=-49.00, Y=-39.00 ; SAR Peak: 0.77 W/kg

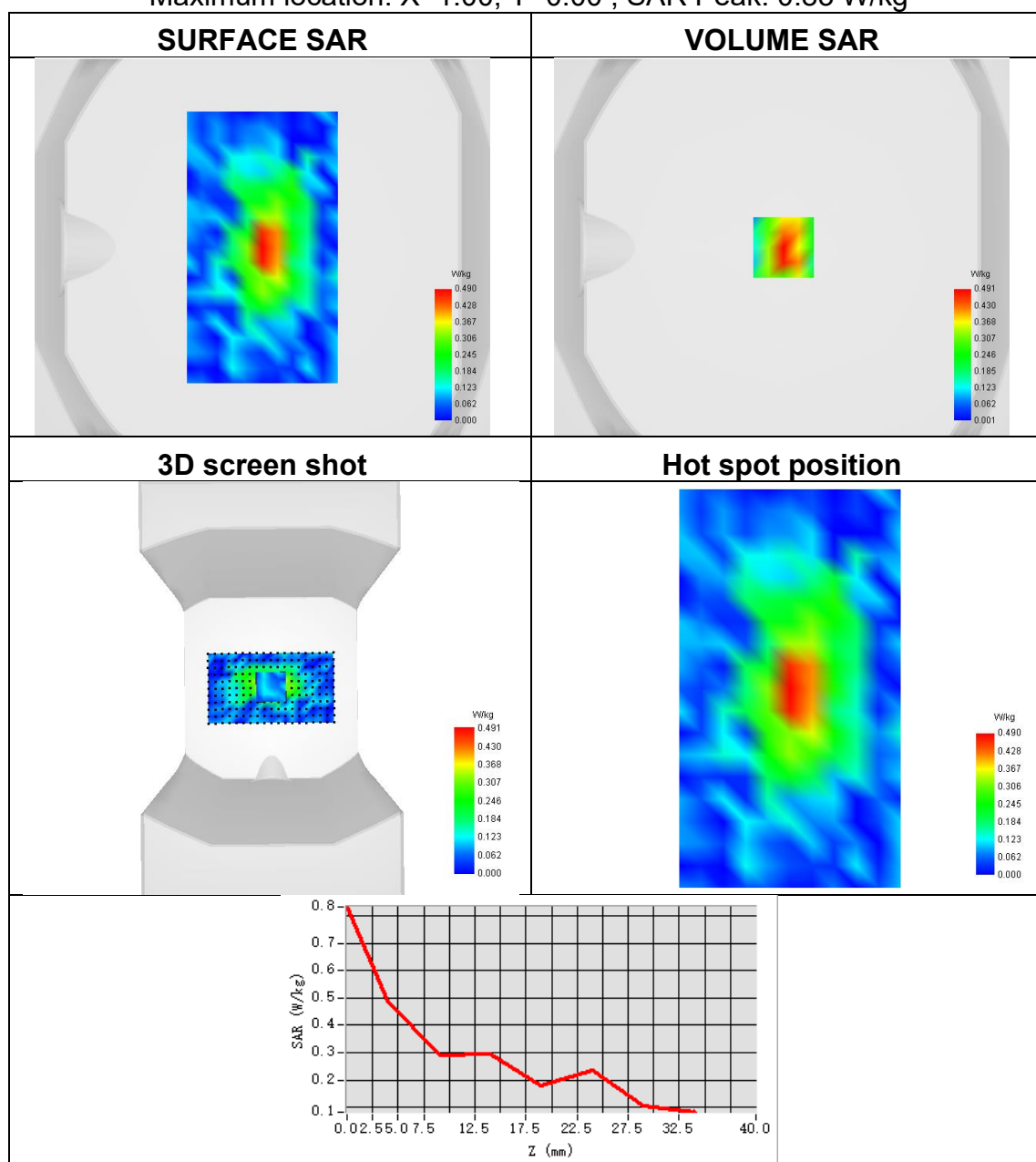




Plot 16:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 8
Signal	LTE FDD
Frequency	885
SAR 10g (W/Kg)	0.269
SAR 1g (W/Kg)	0.490

Maximum location: X=1.00, Y=0.00 ; SAR Peak: 0.83 W/kg

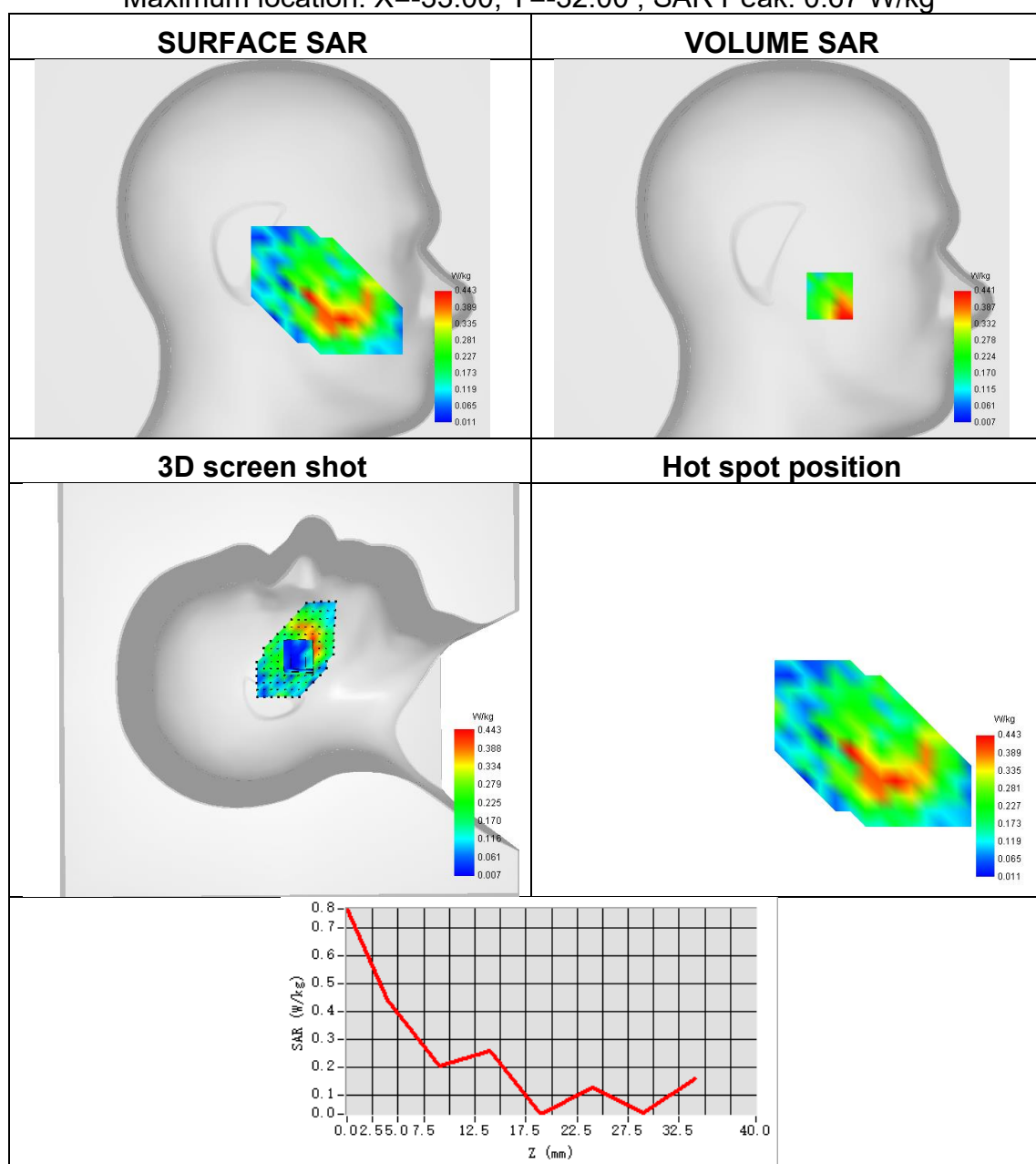




Plot 17:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 20
Signal	LTE FDD
Frequency	847
SAR 10g (W/Kg)	0.176
SAR 1g (W/Kg)	0.381

Maximum location: X=-33.00, Y=-32.00 ; SAR Peak: 0.67 W/kg

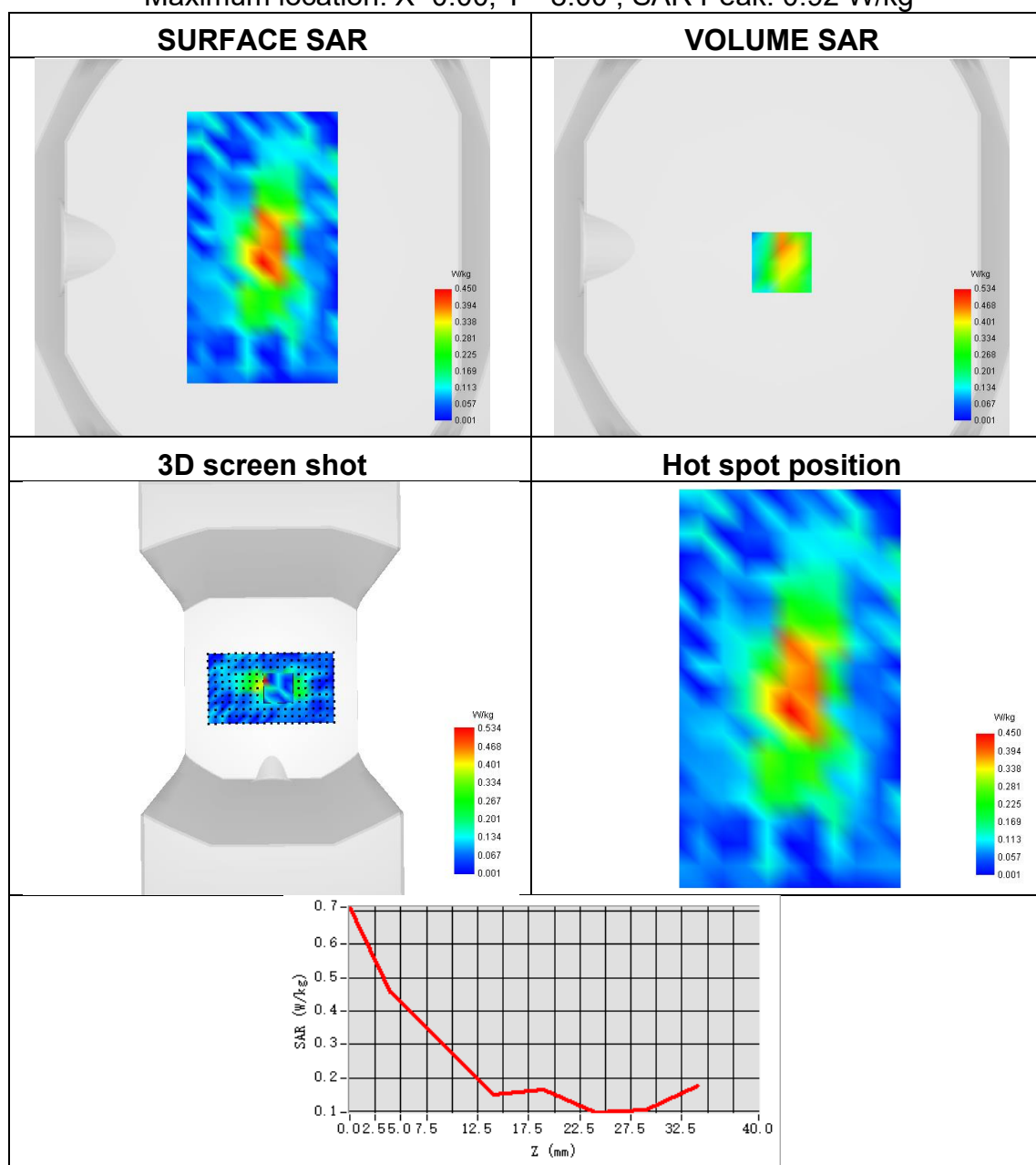




Plot 18:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 20
Signal	LTE FDD
Frequency	847
SAR 10g (W/Kg)	0.268
SAR 1g (W/Kg)	0.478

Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 0.92 W/kg

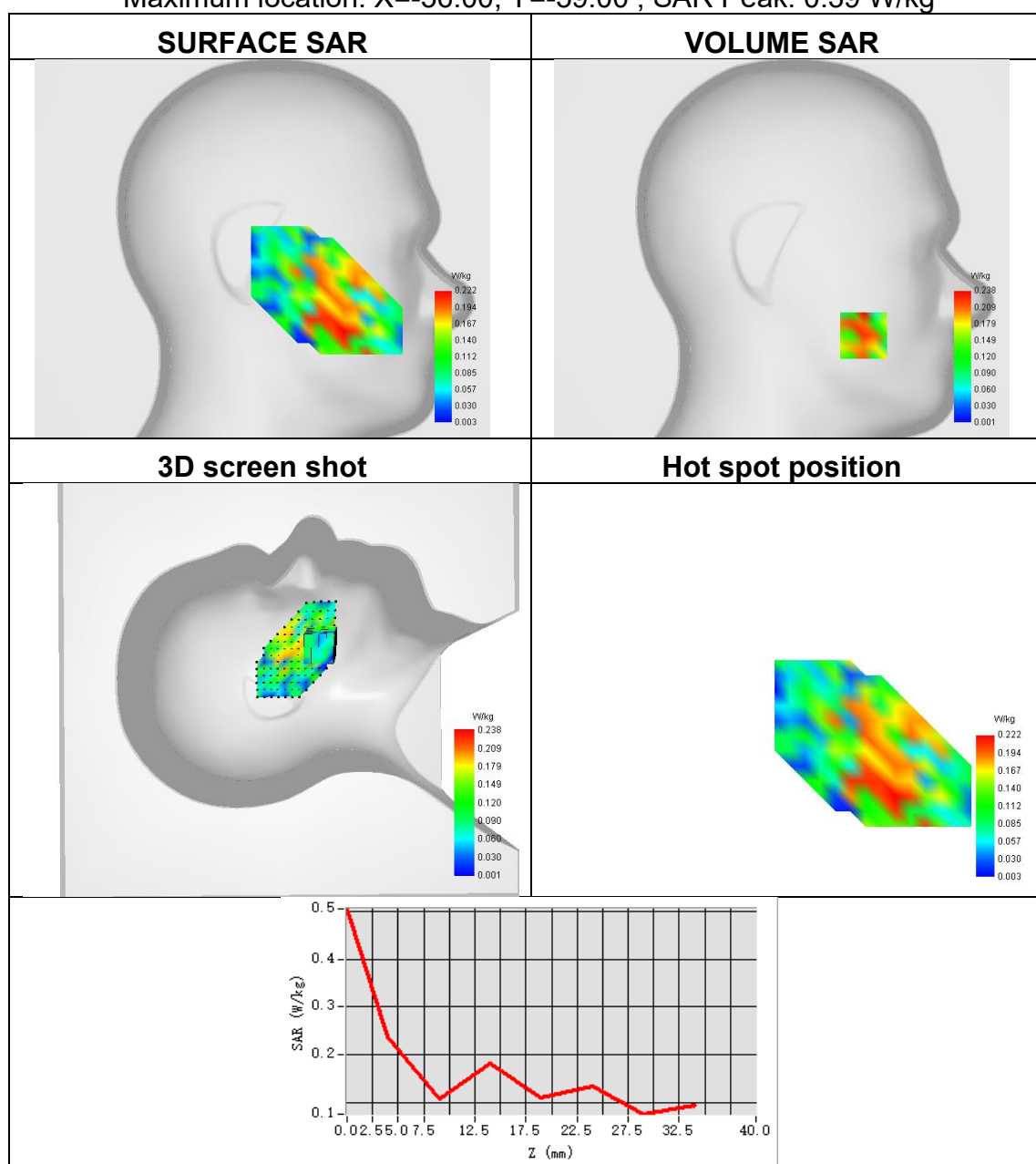




Plot 19:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 28
Signal	LTE FDD
Frequency	713
SAR 10g (W/Kg)	0.100
SAR 1g (W/Kg)	0.184

Maximum location: X=-56.00, Y=-59.00 ; SAR Peak: 0.39 W/kg

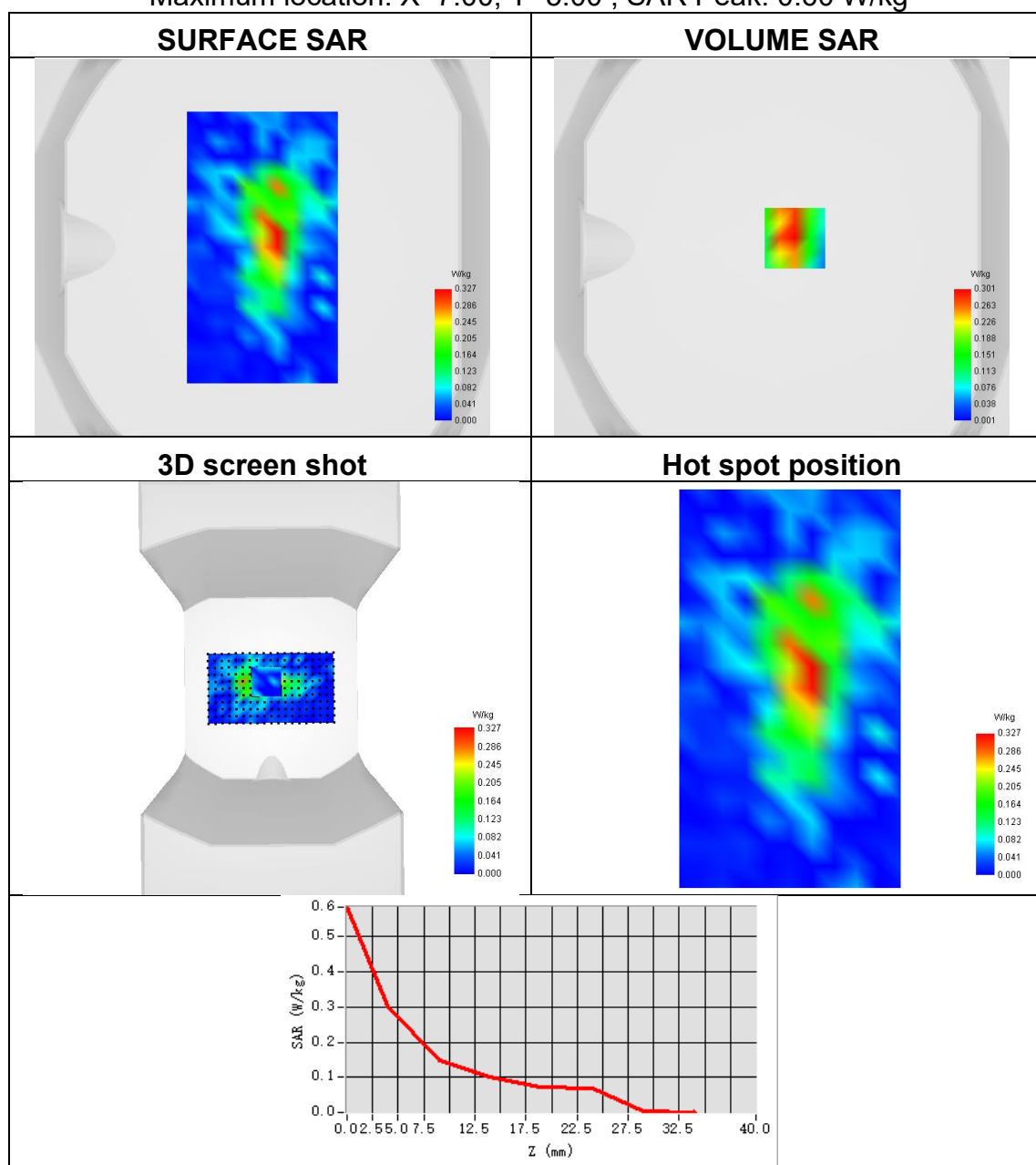




Plot 20:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 28
Signal	LTE FDD
Frequency	713
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.333

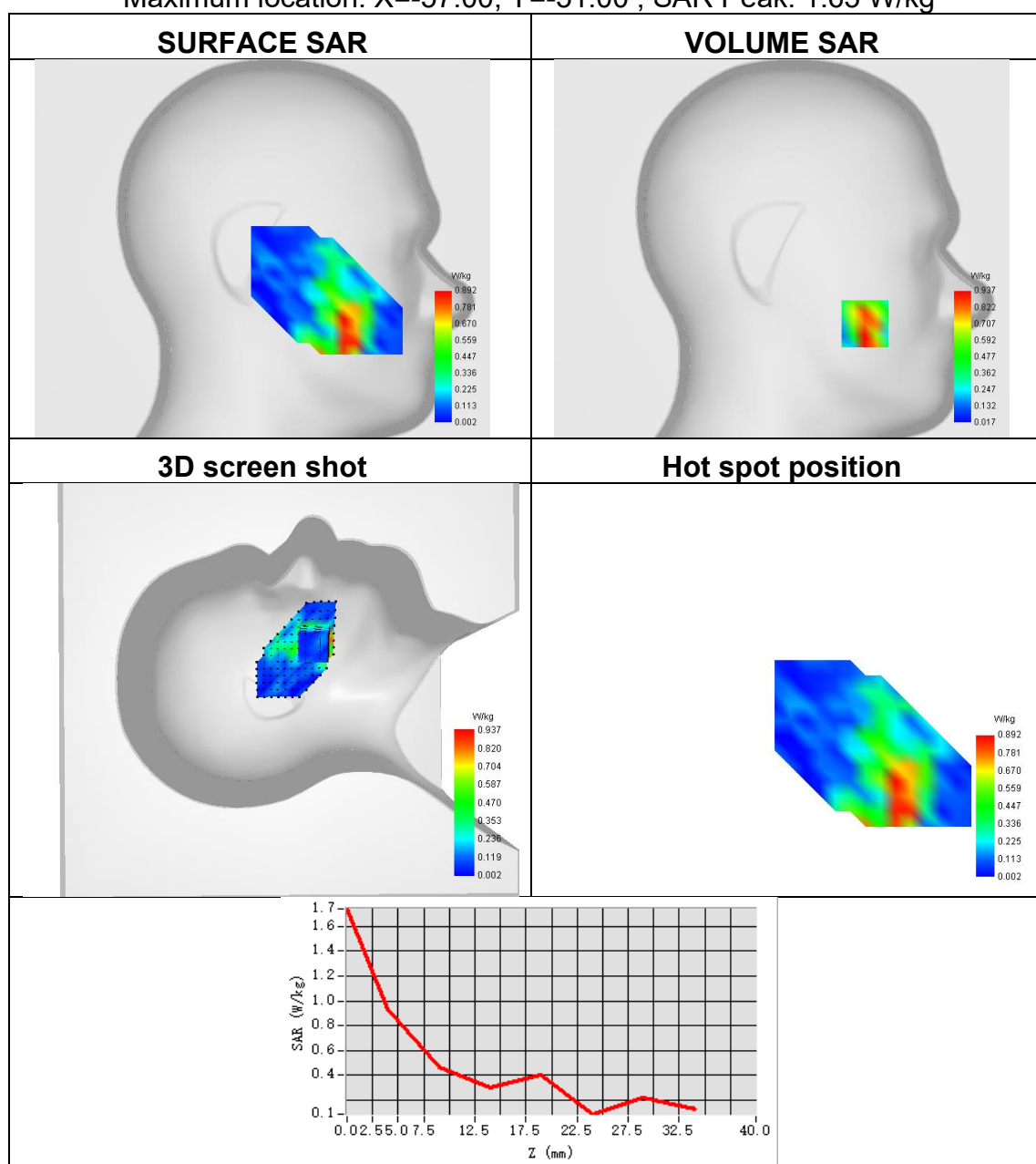
Maximum location: X=7.00, Y=5.00 ; SAR Peak: 0.60 W/kg



Plot 21:

Test Date	2025-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left Cheek
Device Position	Cheek
Band	LTE band 34
Signal	LTE TDD
Frequency	2017.5
SAR 10g (W/Kg)	0.454
SAR 1g (W/Kg)	0.911

Maximum location: X=-57.00, Y=-51.00 ; SAR Peak: 1.65 W/kg

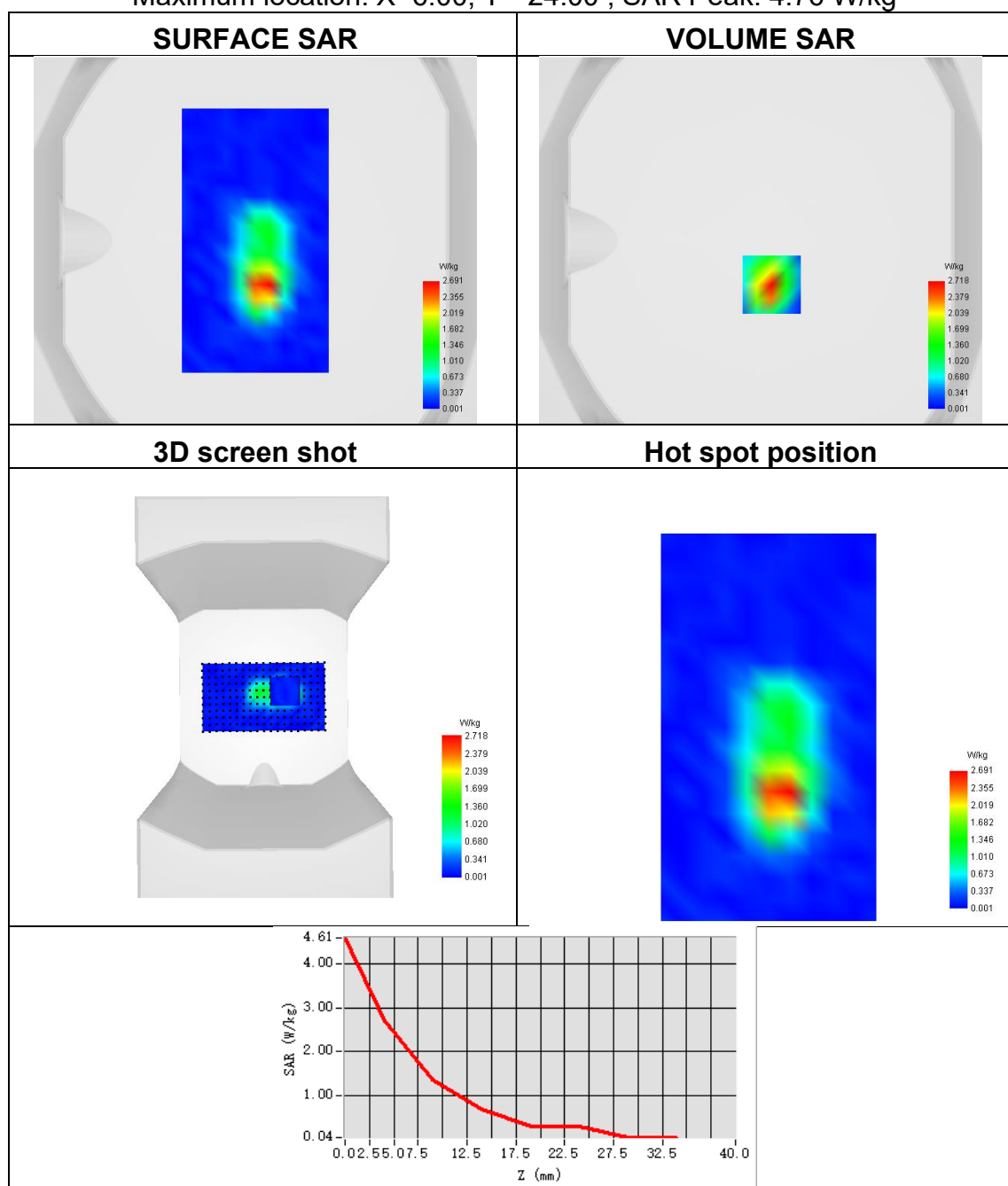




Plot 22:

Test Date	2025-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 34
Signal	LTE TDD
Frequency	2017.5
SAR 10g (W/Kg)	1.085
SAR 1g (W/Kg)	2.529

Maximum location: X=6.00, Y=-24.00 ; SAR Peak: 4.76 W/kg

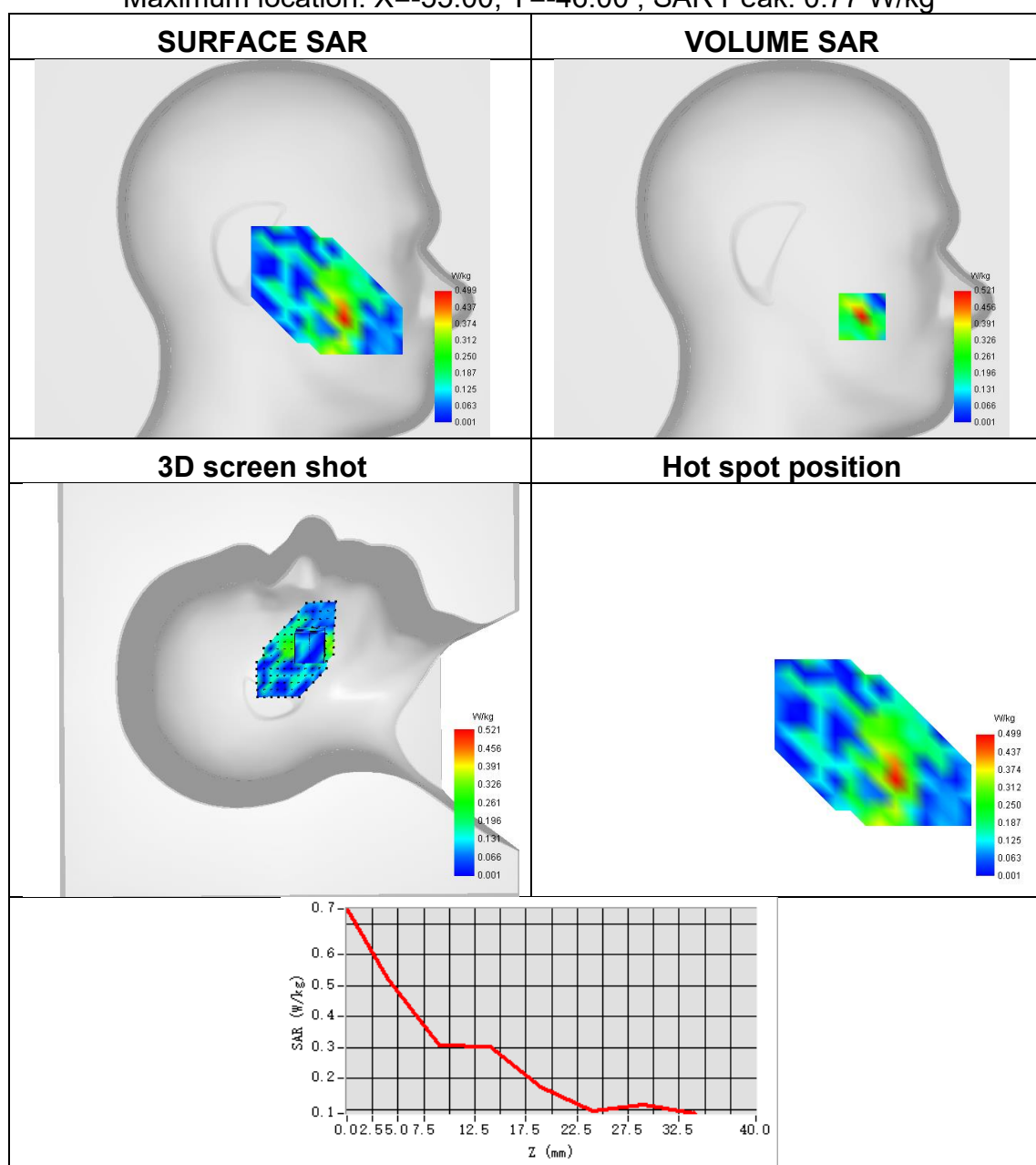




Plot 23:

Test Date	2025-07-06
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)	0.191
SAR 1g (W/Kg)	0.440

Maximum location: X=-55.00, Y=-46.00 ; SAR Peak: 0.77 W/kg

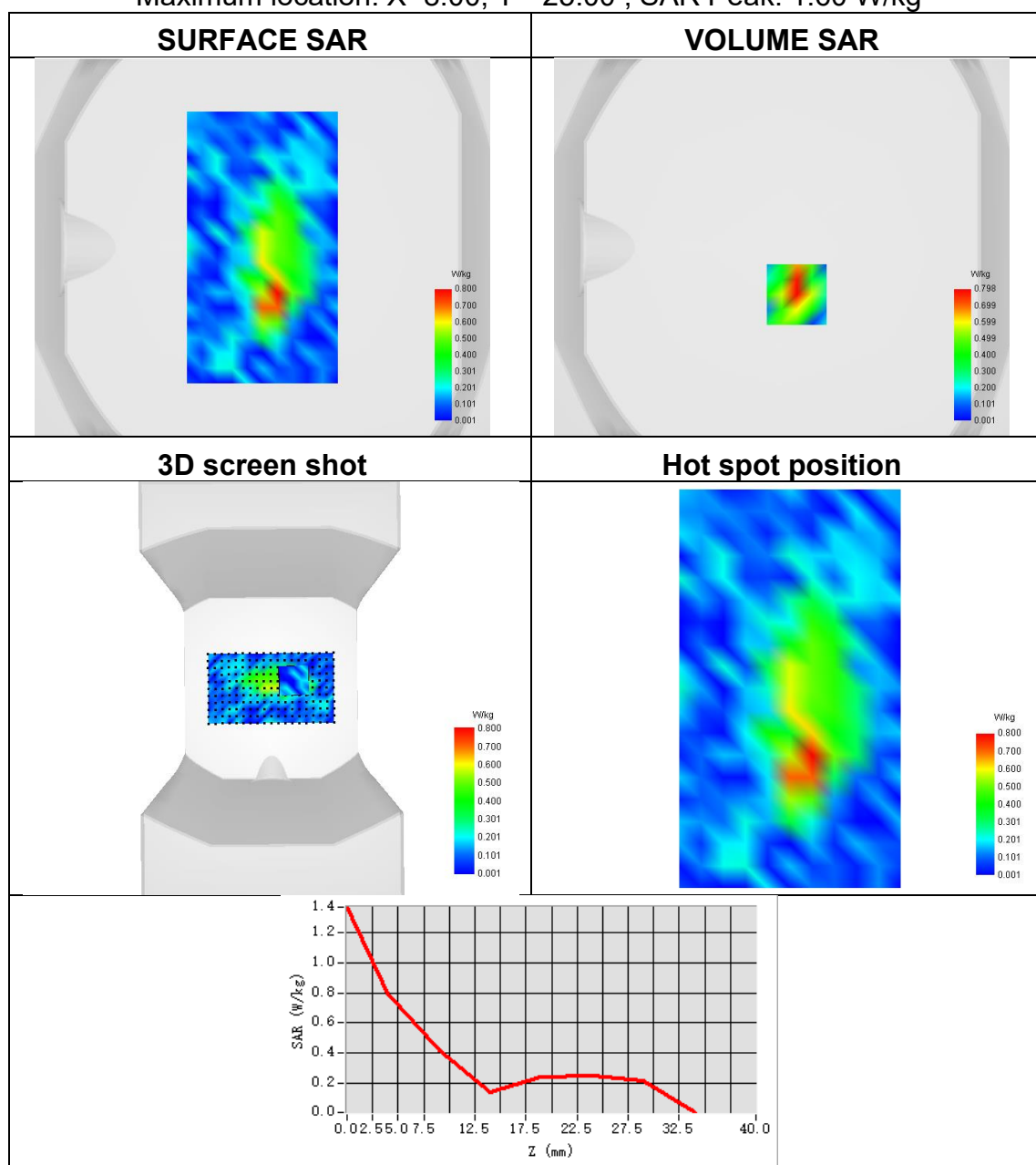




Plot 24:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 38
Signal	LTE TDD
Frequency	2610
SAR 10g (W/Kg)	0.394
SAR 1g (W/Kg)	0.766

Maximum location: X=8.00, Y=-25.00 ; SAR Peak: 1.60 W/kg

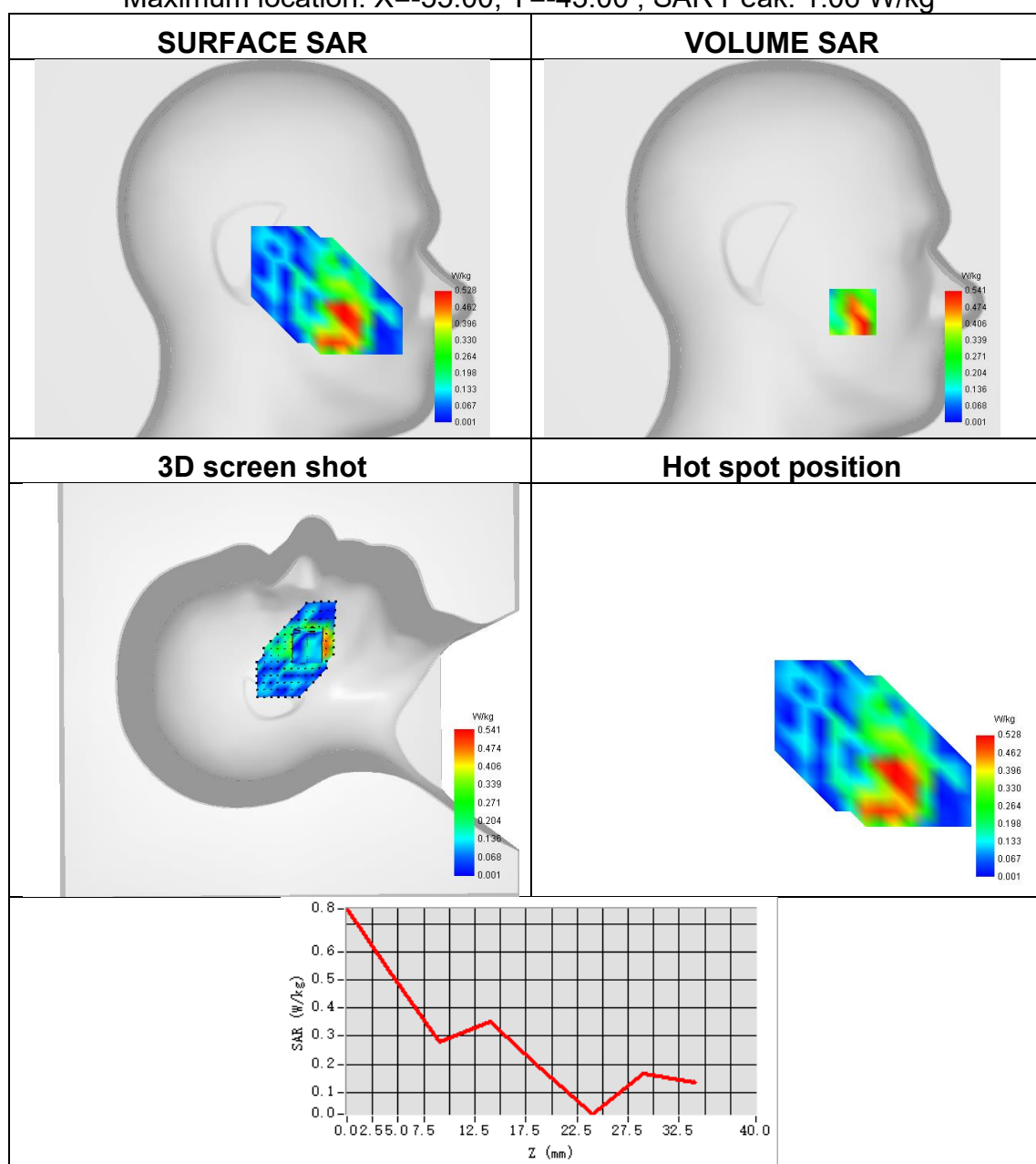




Plot 25:

Test Date	2025-07-15
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	2310
SAR 10g (W/Kg)	0.252
SAR 1g (W/Kg)	0.495

Maximum location: X=-55.00, Y=-43.00 ; SAR Peak: 1.06 W/kg

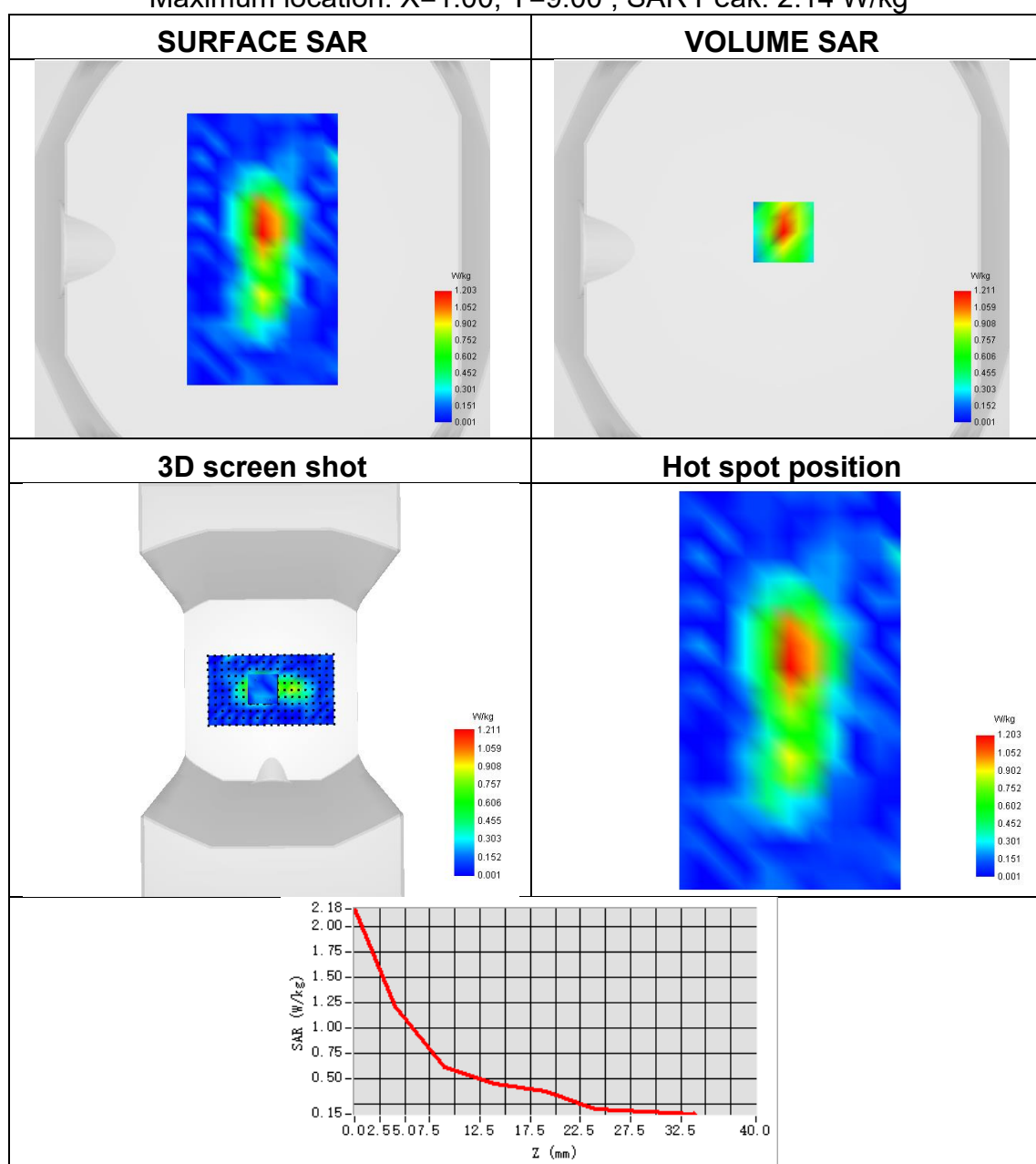




Plot 26:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	LTE band 40
Signal	LTE TDD
Frequency	2310
SAR 10g (W/Kg)	0.593
SAR 1g (W/Kg)	1.161

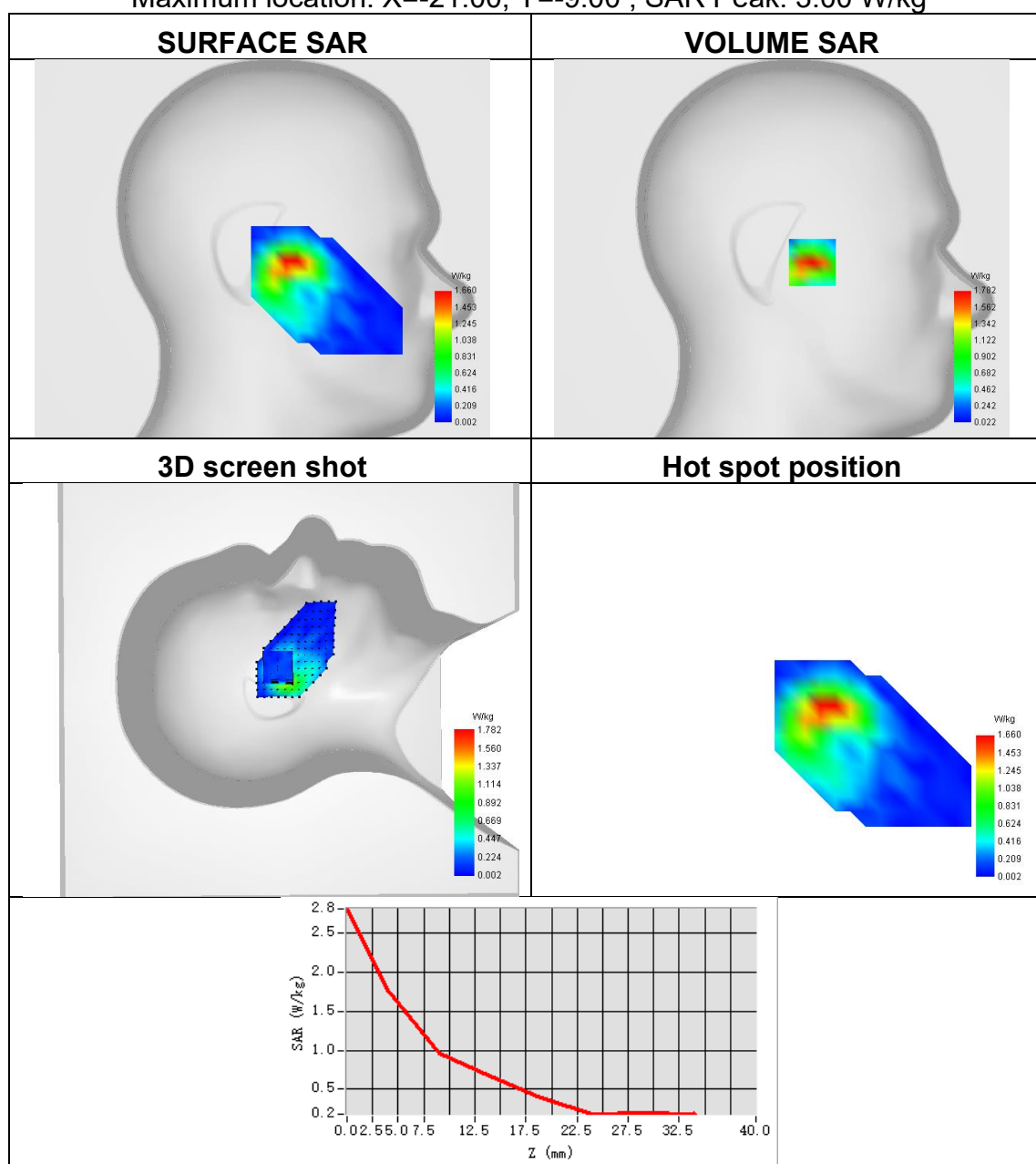
Maximum location: X=1.00, Y=9.00 ; SAR Peak: 2.14 W/kg



Plot 27:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 1
Signal	NR FDD
Frequency	1930
SAR 10g (W/Kg)	0.838
SAR 1g (W/Kg)	1.672

Maximum location: X=-21.00, Y=-9.00 ; SAR Peak: 3.00 W/kg

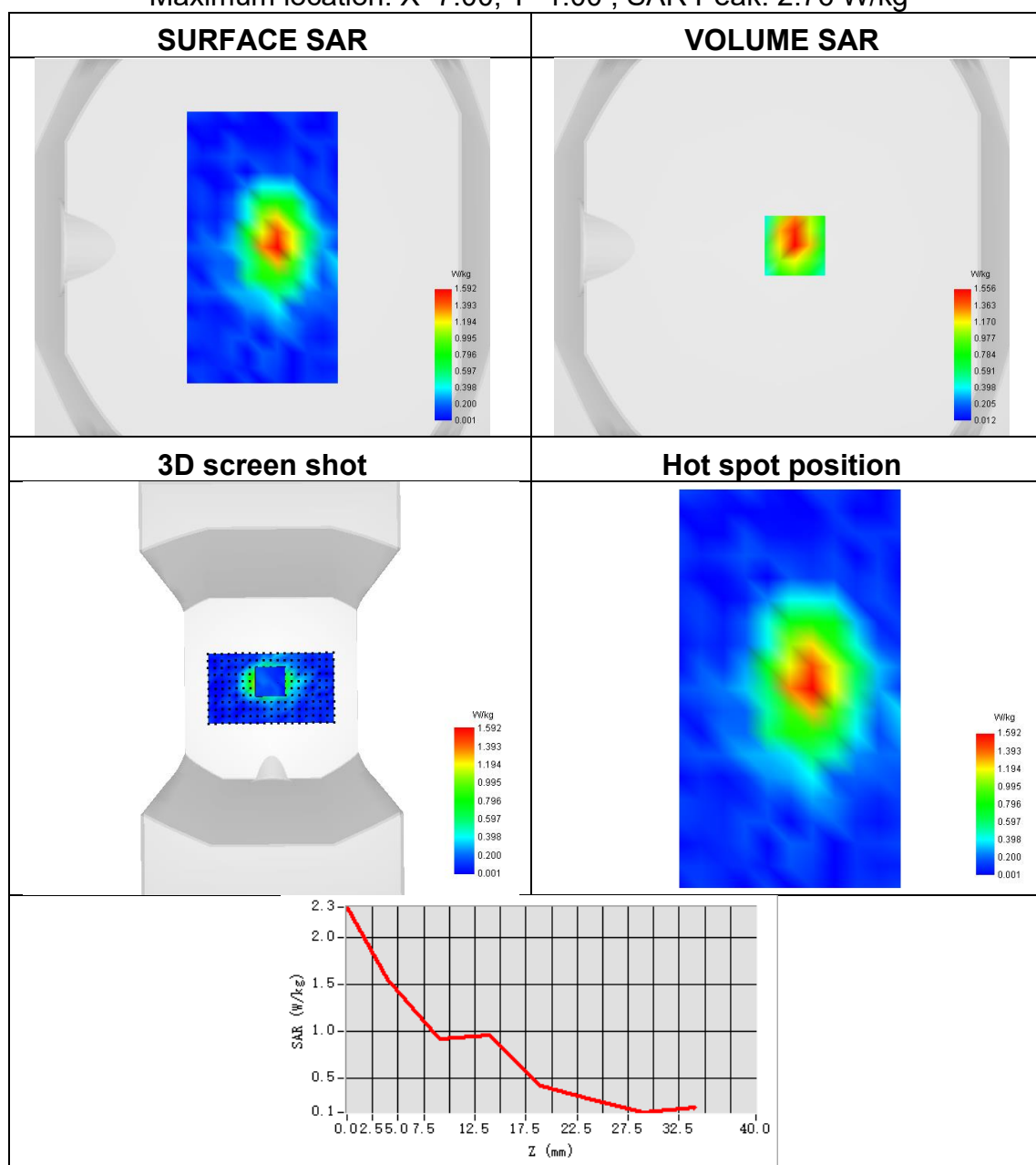




Plot 28:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 1
Signal	NR FDD
Frequency	1930
SAR 10g (W/Kg)	0.807
SAR 1g (W/Kg)	1.523

Maximum location: X=7.00, Y=1.00 ; SAR Peak: 2.76 W/kg

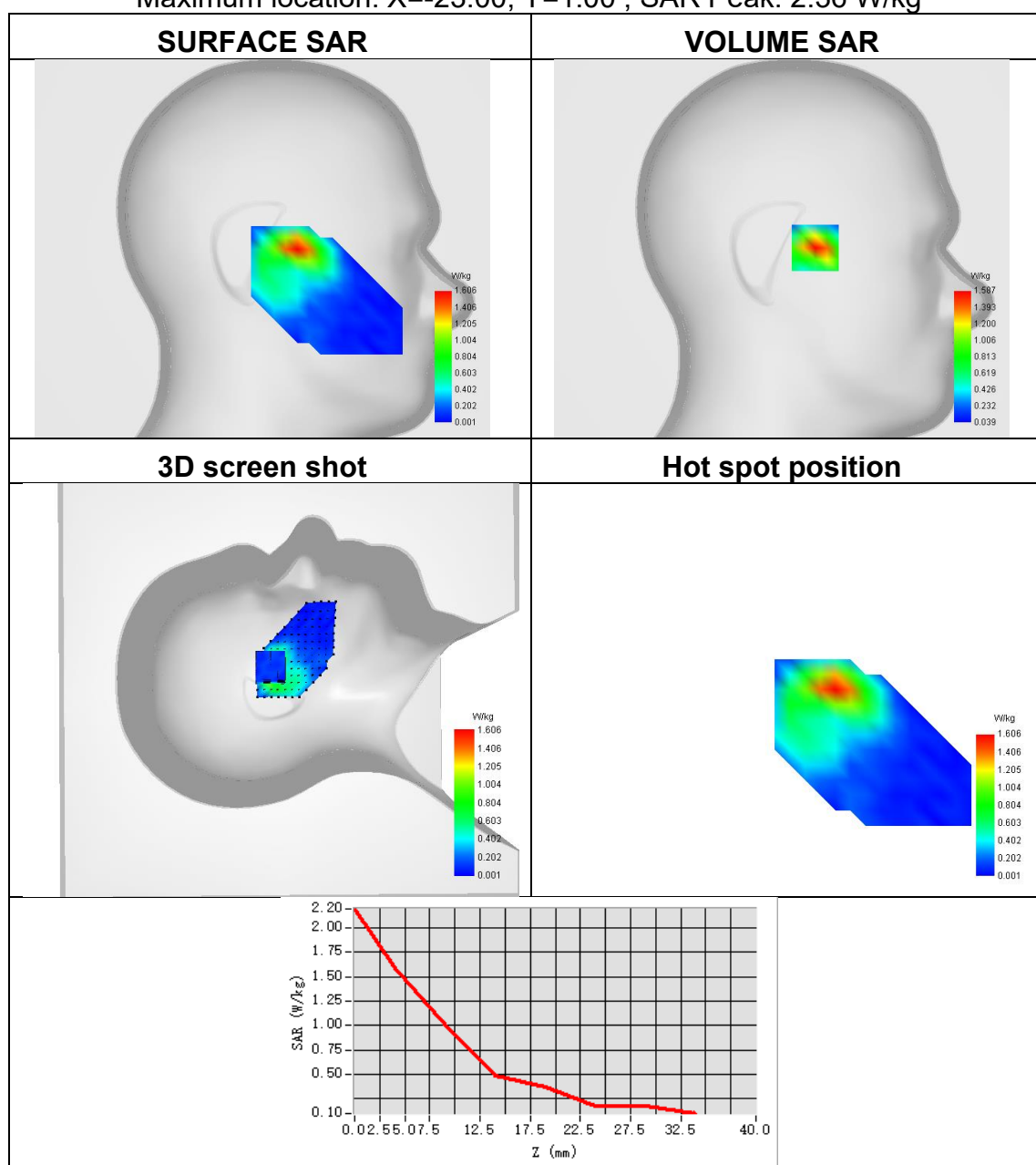




Plot 29:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 3
Signal	NR FDD
Frequency	1725
SAR 10g (W/Kg)	0.755
SAR 1g (W/Kg)	1.430

Maximum location: X=-23.00, Y=1.00 ; SAR Peak: 2.36 W/kg

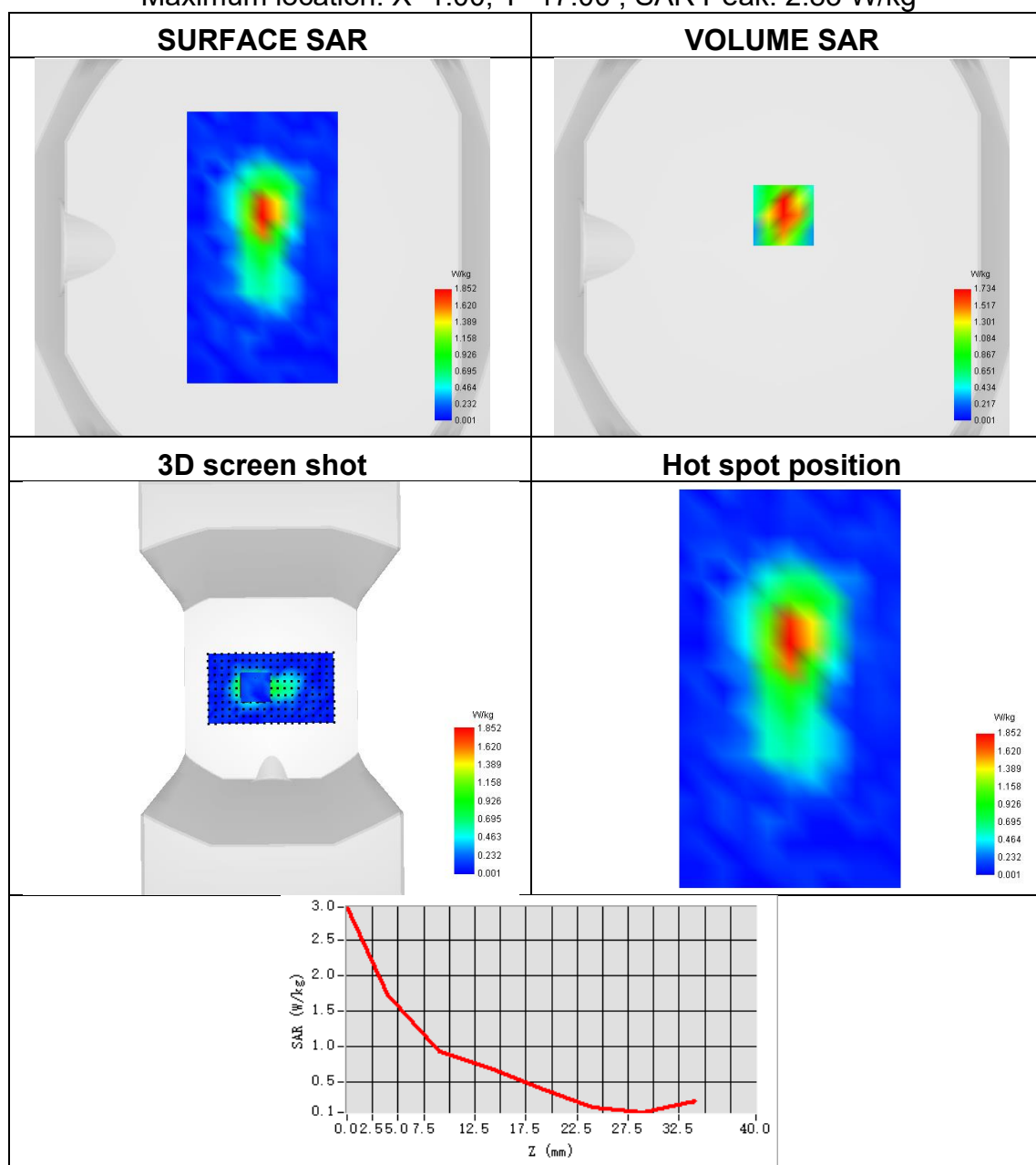




Plot 30:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 3
Signal	NR FDD
Frequency	1725
SAR 10g (W/Kg)	0.884
SAR 1g (W/Kg)	1.644

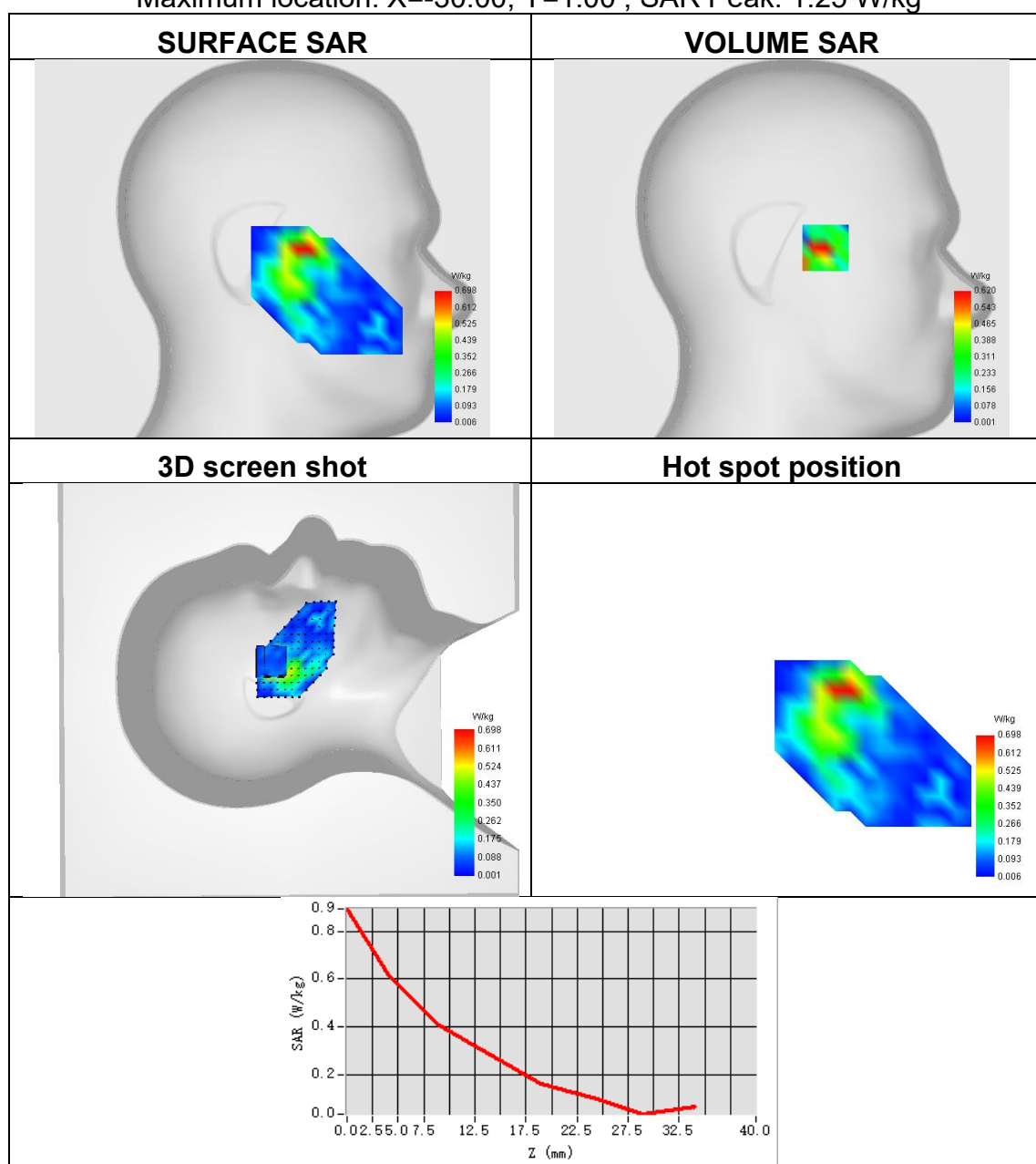
Maximum location: X=1.00, Y=17.00 ; SAR Peak: 2.83 W/kg



Plot 31:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 7
Signal	NR FDD
Frequency	2560
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	0.599

Maximum location: X=-30.00, Y=1.00 ; SAR Peak: 1.25 W/kg

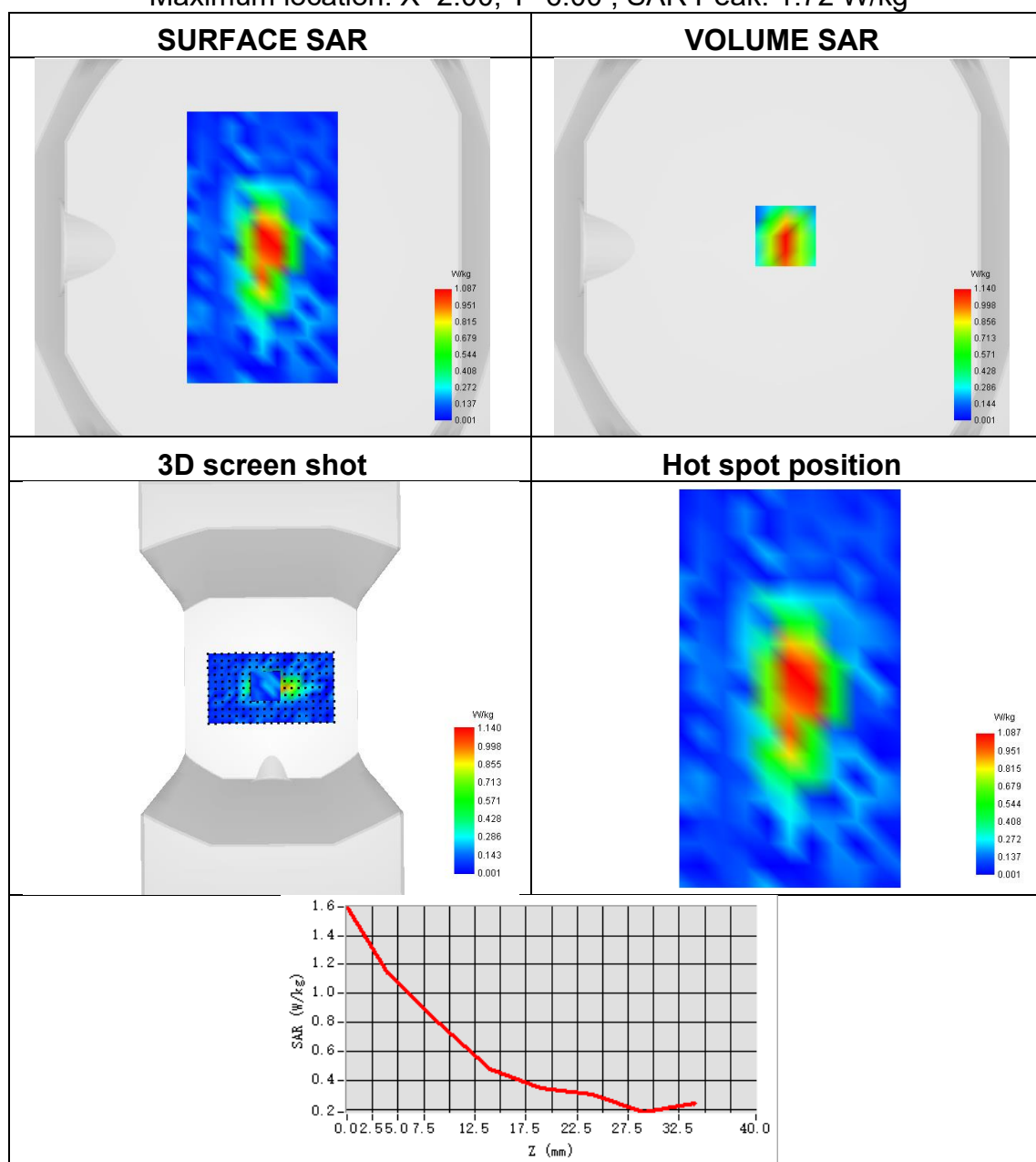




Plot 32:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 7
Signal	NR FDD
Frequency	2560
SAR 10g (W/Kg)	0.558
SAR 1g (W/Kg)	1.053

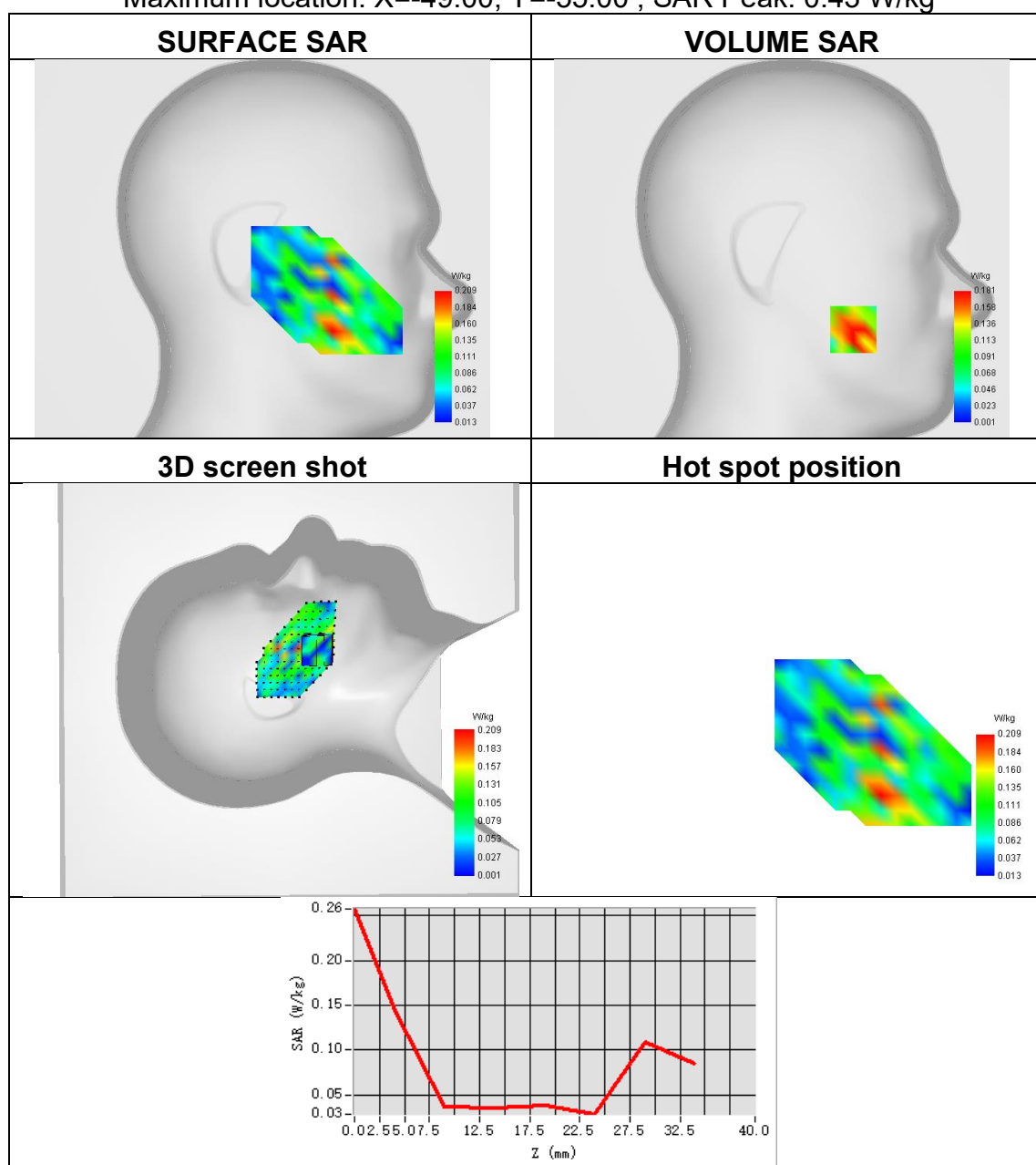
Maximum location: X=2.00, Y=6.00 ; SAR Peak: 1.72 W/kg



Plot 33:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 8
Signal	NR FDD
Frequency	897.5
SAR 10g (W/Kg)	0.102
SAR 1g (W/Kg)	0.144

Maximum location: X=-49.00, Y=-55.00 ; SAR Peak: 0.43 W/kg

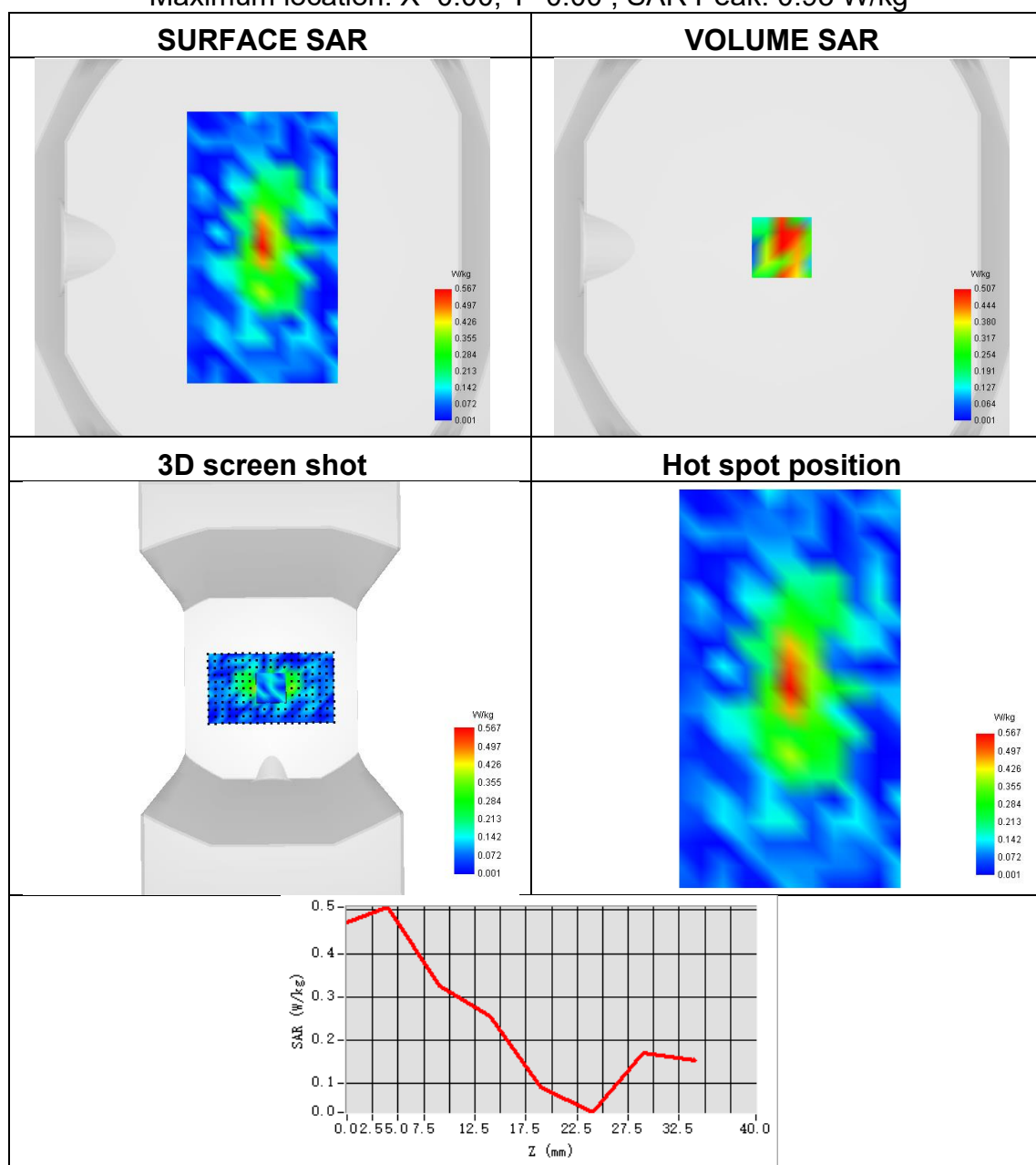




Plot 34:

Test Date	2025-07-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 8
Signal	NR FDD
Frequency	897.5
SAR 10g (W/Kg)	0.251
SAR 1g (W/Kg)	0.457

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.93 W/kg

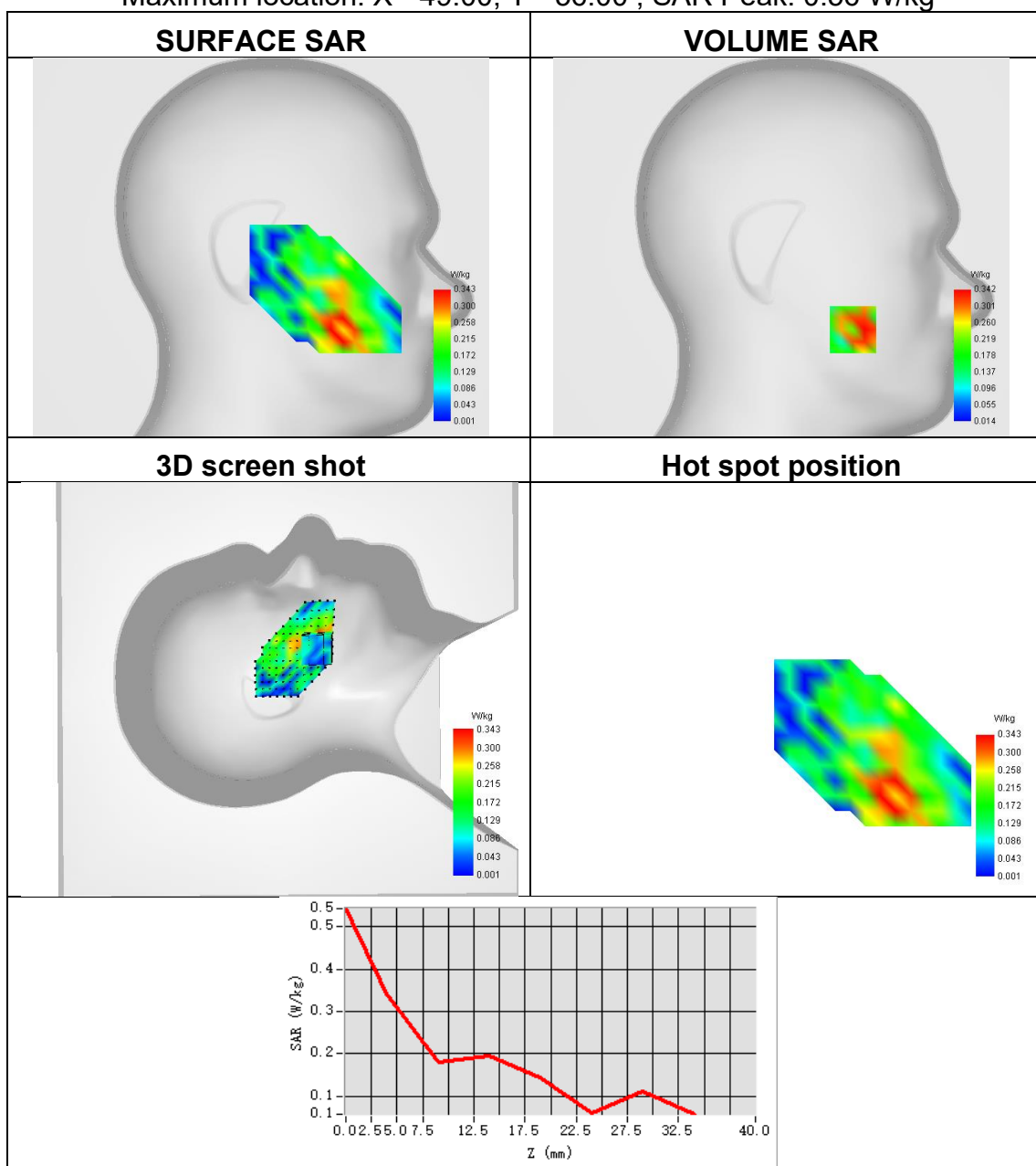




Plot 35:

Test Date	2025-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 20
Signal	NR FDD
Frequency	847
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.323

Maximum location: X=-49.00, Y=-56.00 ; SAR Peak: 0.56 W/kg

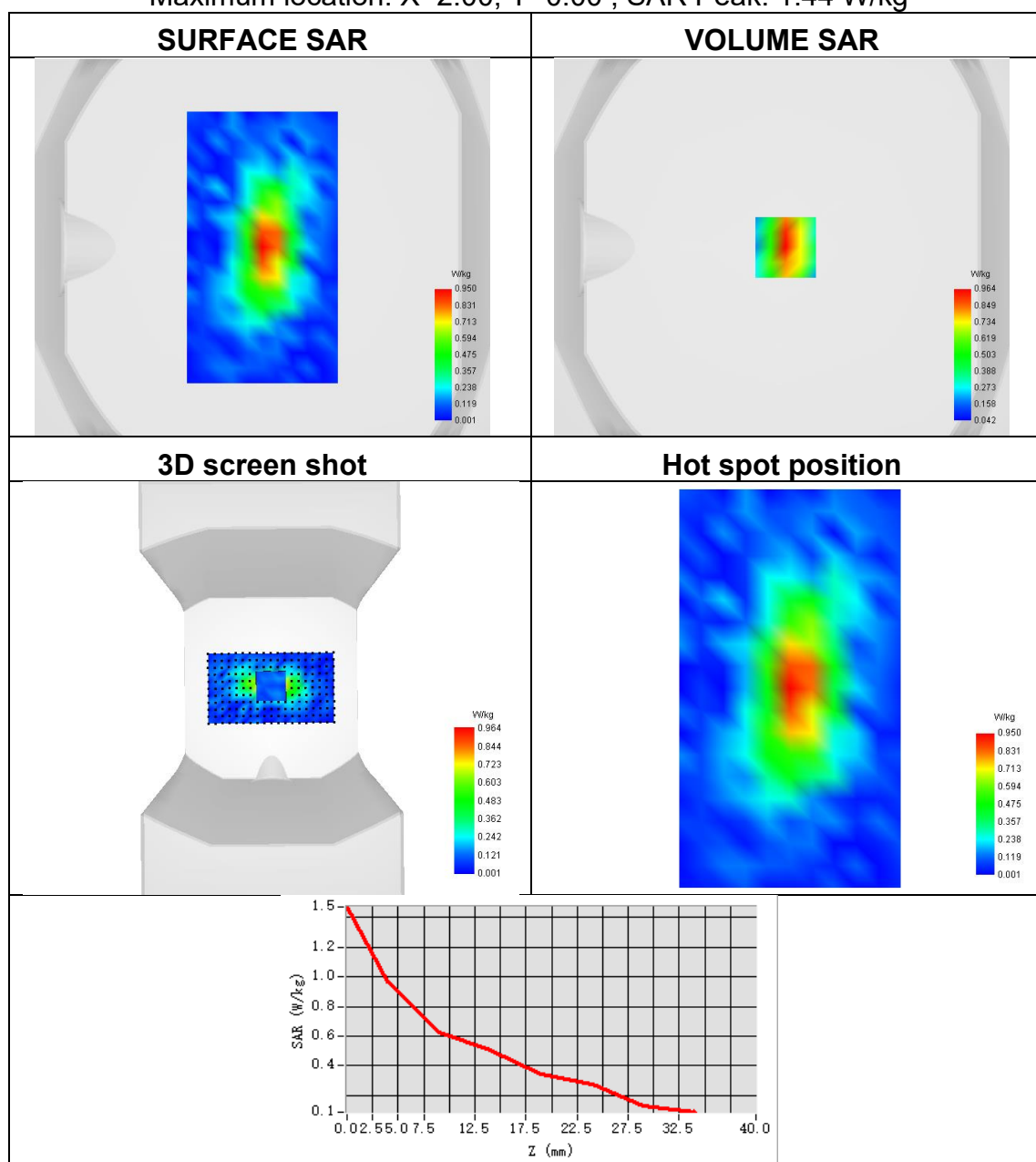




Plot 36:

Test Date	2025-07-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 20
Signal	NR FDD
Frequency	847
SAR 10g (W/Kg)	0.525
SAR 1g (W/Kg)	0.906

Maximum location: X=2.00, Y=0.00 ; SAR Peak: 1.44 W/kg

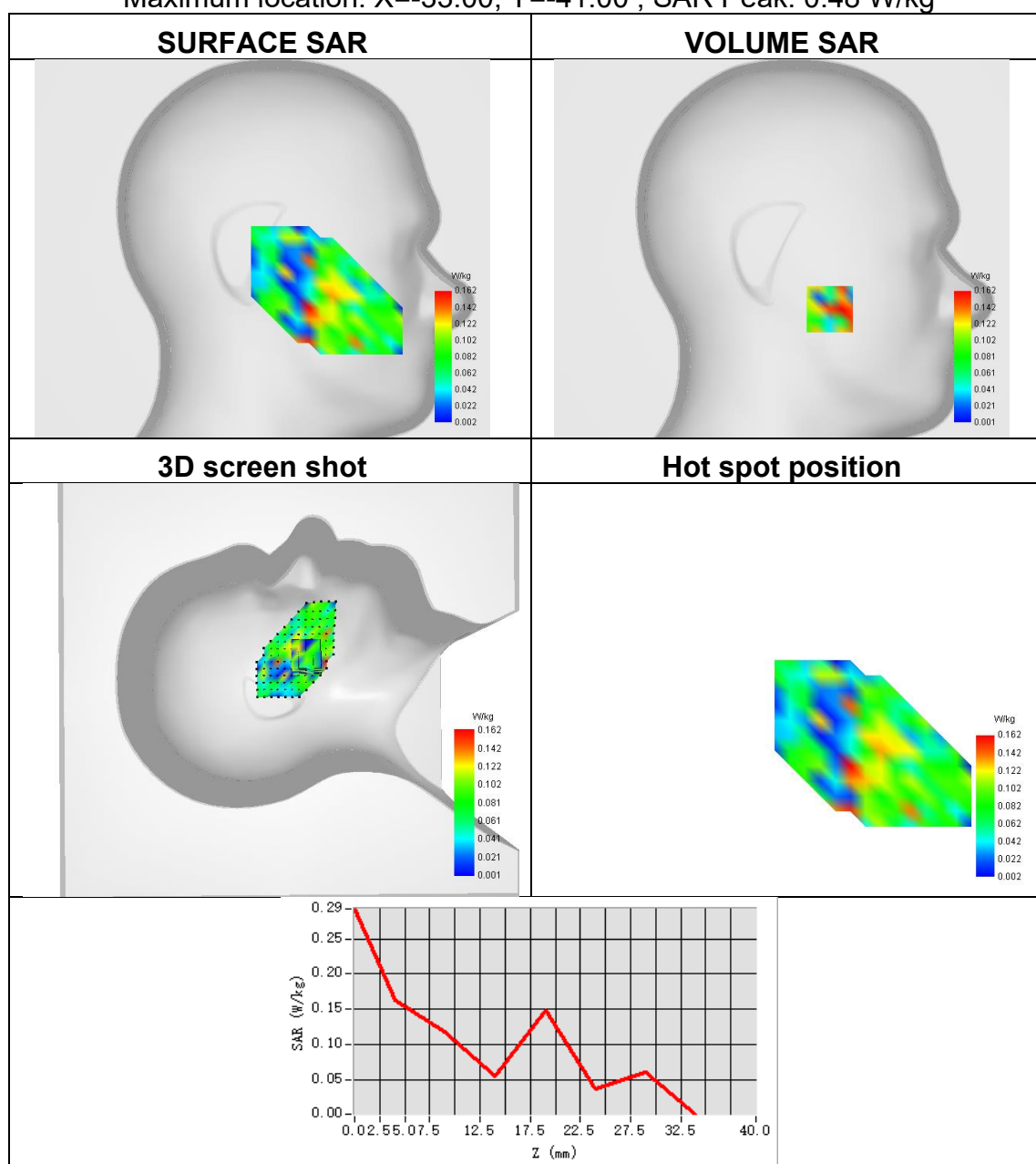




Plot 37:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 28
Signal	NR FDD
Frequency	738
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.129

Maximum location: X=-33.00, Y=-41.00 ; SAR Peak: 0.48 W/kg

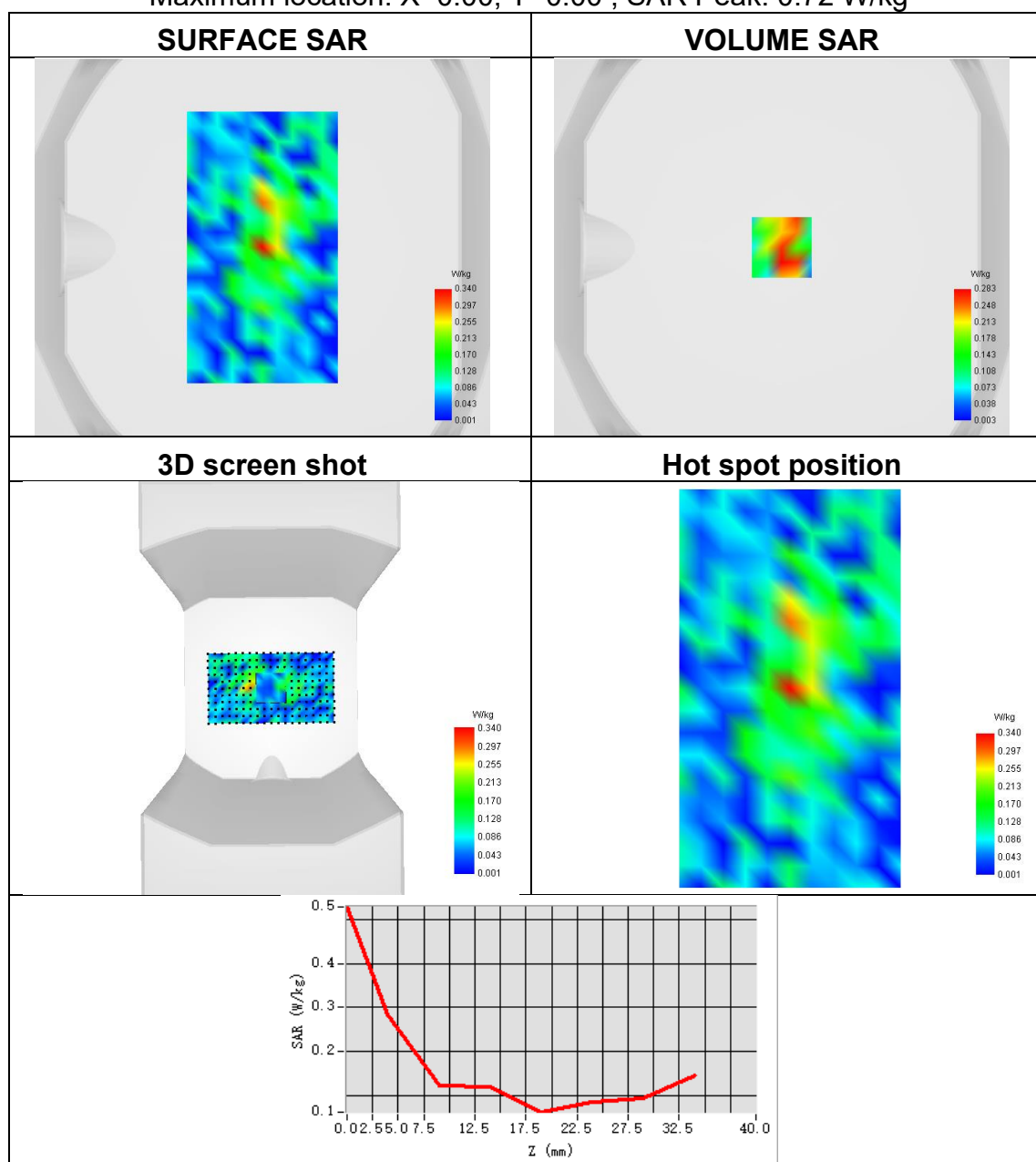




Plot 38:

Test Date	2025-07-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Edge
Band	NR band 28
Signal	NR FDD
Frequency	738
SAR 10g (W/Kg)	0.115
SAR 1g (W/Kg)	0.261

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.72 W/kg

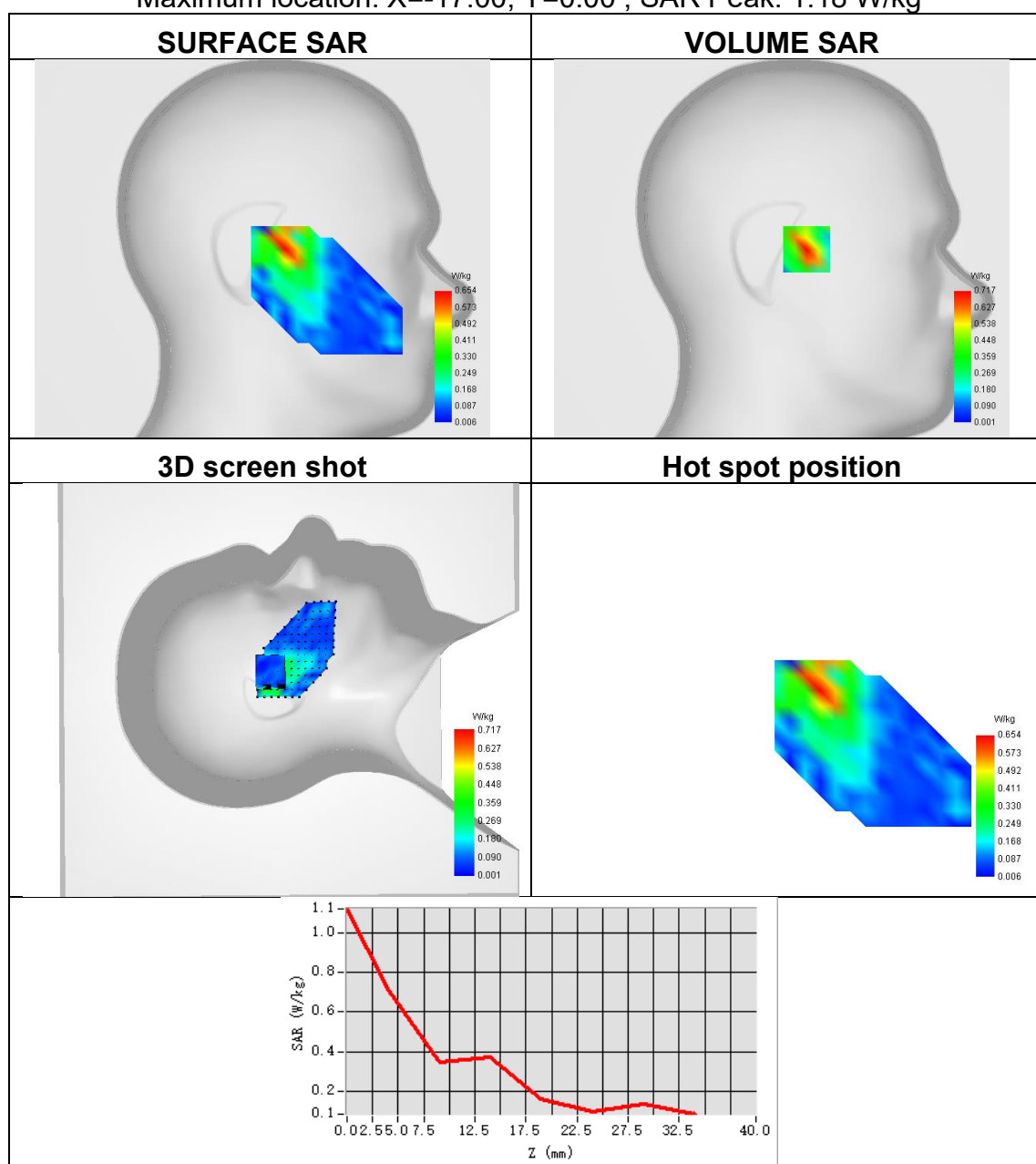




Plot 39:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 38
Signal	NR TDD
Frequency	2600
SAR 10g (W/Kg)	0.300
SAR 1g (W/Kg)	0.661

Maximum location: X=-17.00, Y=0.00 ; SAR Peak: 1.18 W/kg

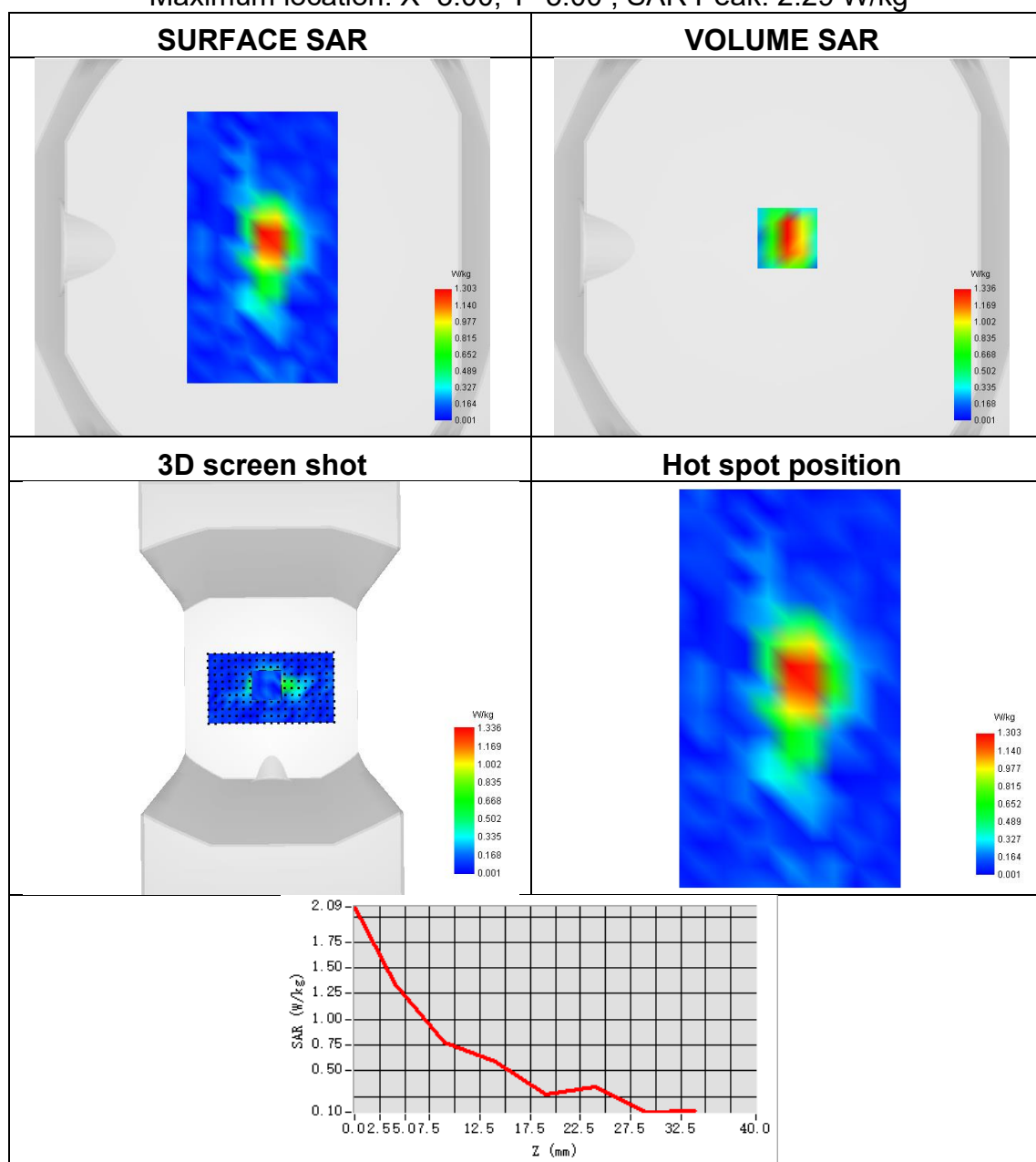




Plot 40:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	NR band 38
Signal	NR TDD
Frequency	2600
SAR 10g (W/Kg)	0.655
SAR 1g (W/Kg)	1.302

Maximum location: X=3.00, Y=5.00 ; SAR Peak: 2.29 W/kg

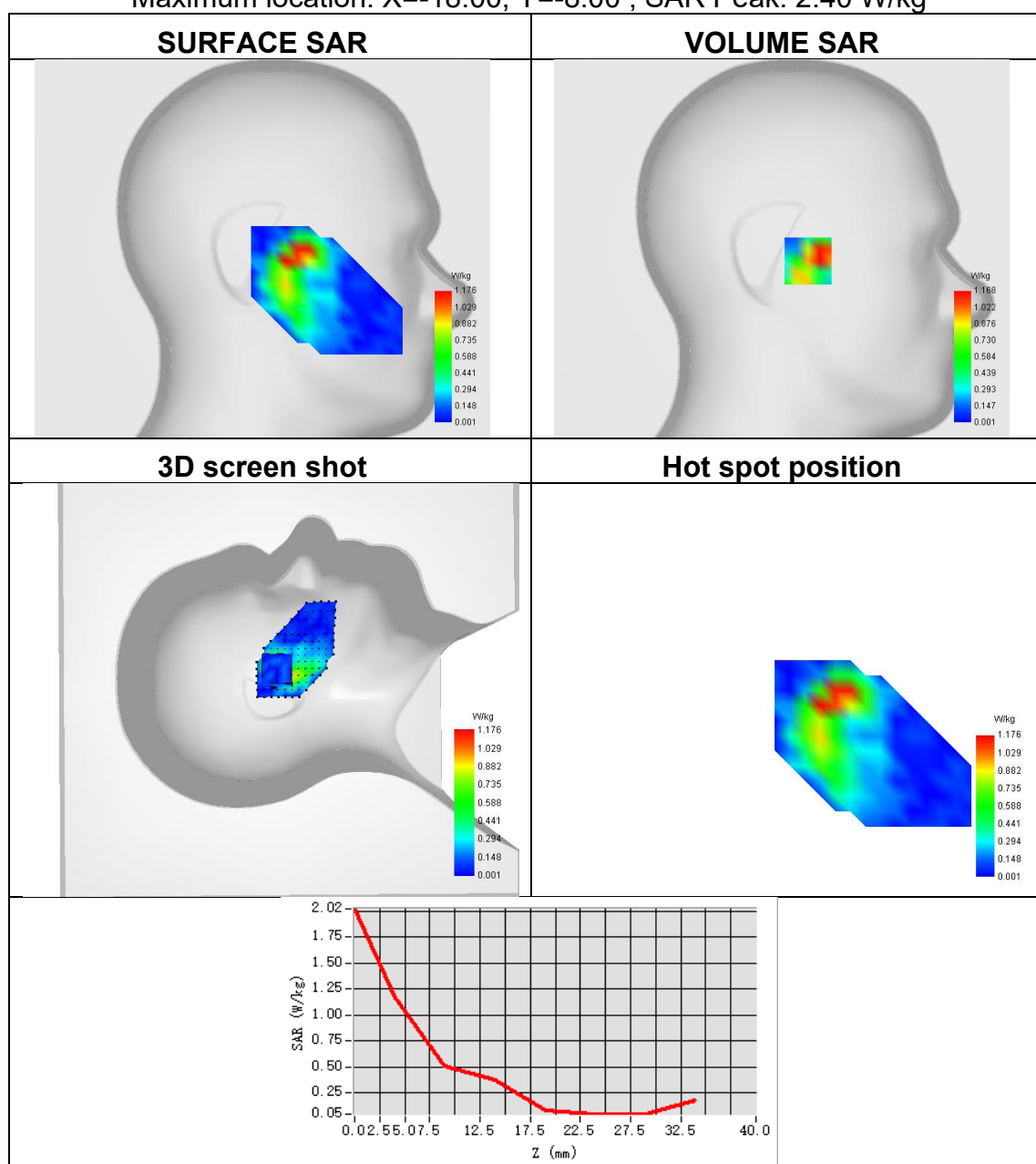




Plot 41:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 40
Signal	NR TDD
Frequency	2360
SAR 10g (W/Kg)	0.518
SAR 1g (W/Kg)	1.210

Maximum location: X=-18.00, Y=-8.00 ; SAR Peak: 2.40 W/kg

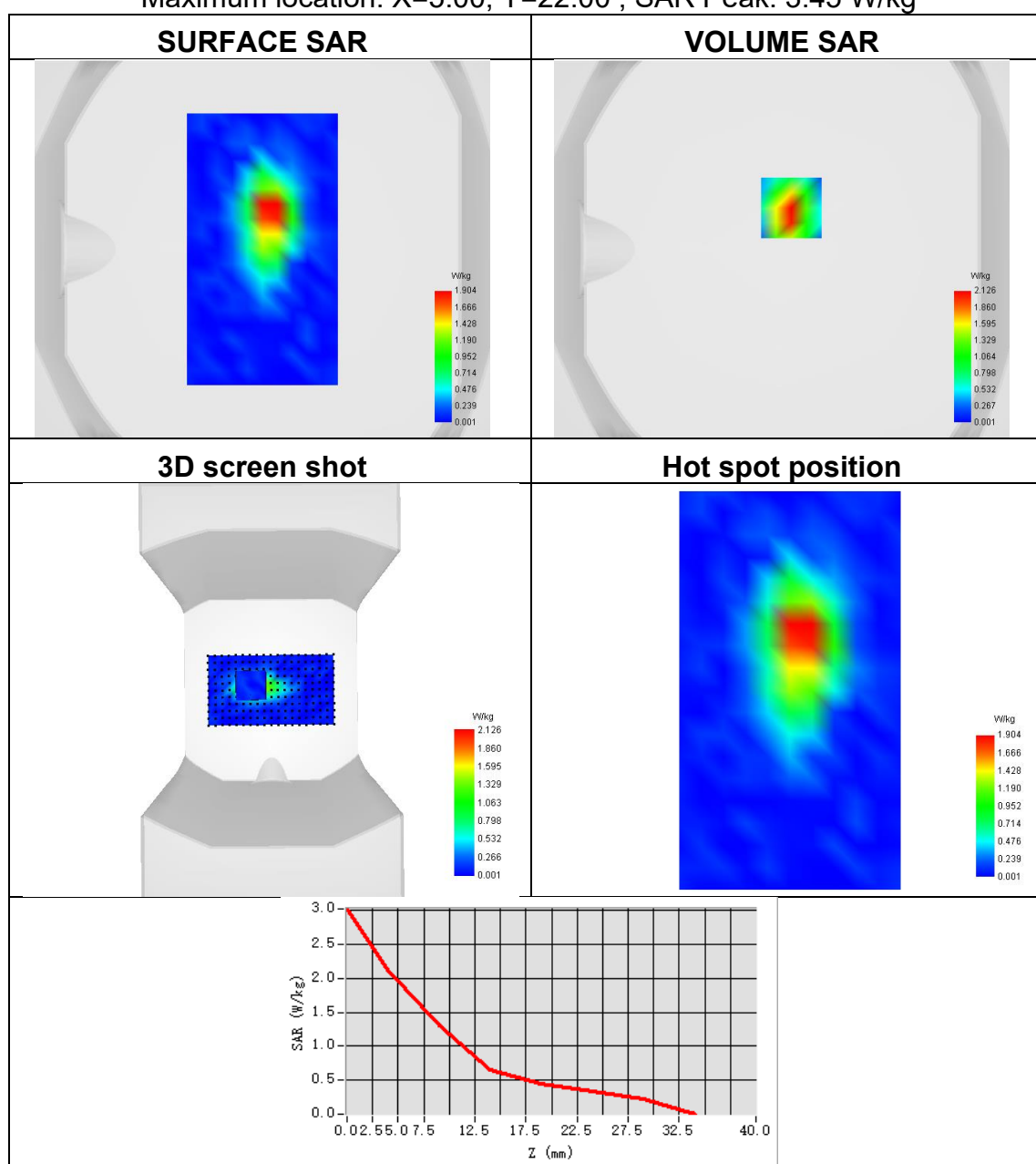




Plot 42:

Test Date	2025-07-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	NR band 40
Signal	NR TDD
Frequency	2360
SAR 10g (W/Kg)	1.003
SAR 1g (W/Kg)	1.996

Maximum location: X=5.00, Y=22.00 ; SAR Peak: 3.45 W/kg

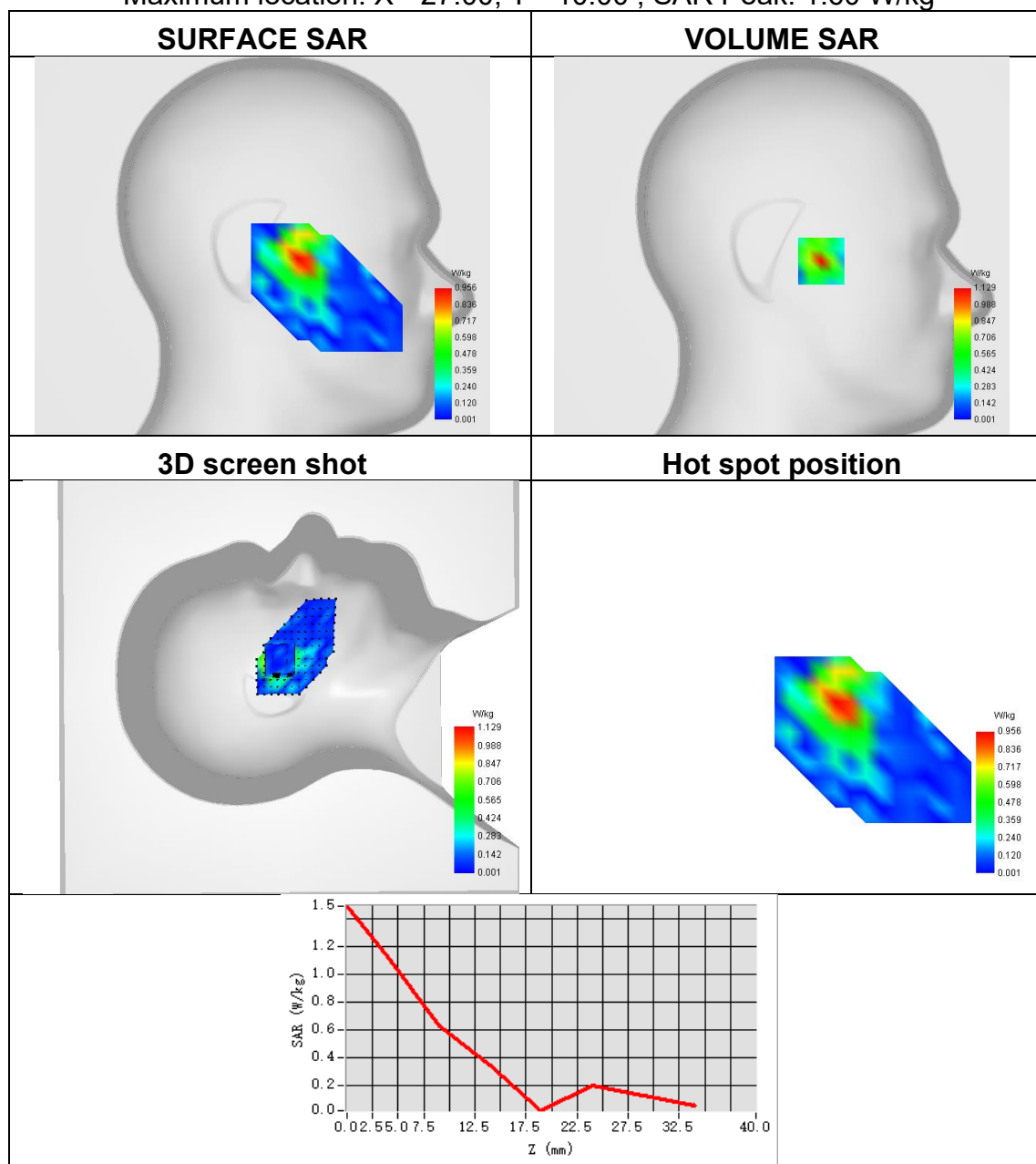




Plot 43:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Cheek
Band	NR band 41
Signal	NR TDD
Frequency	2640
SAR 10g (W/Kg)	0.430
SAR 1g (W/Kg)	0.911

Maximum location: X=-27.00, Y=-10.00 ; SAR Peak: 1.60 W/kg

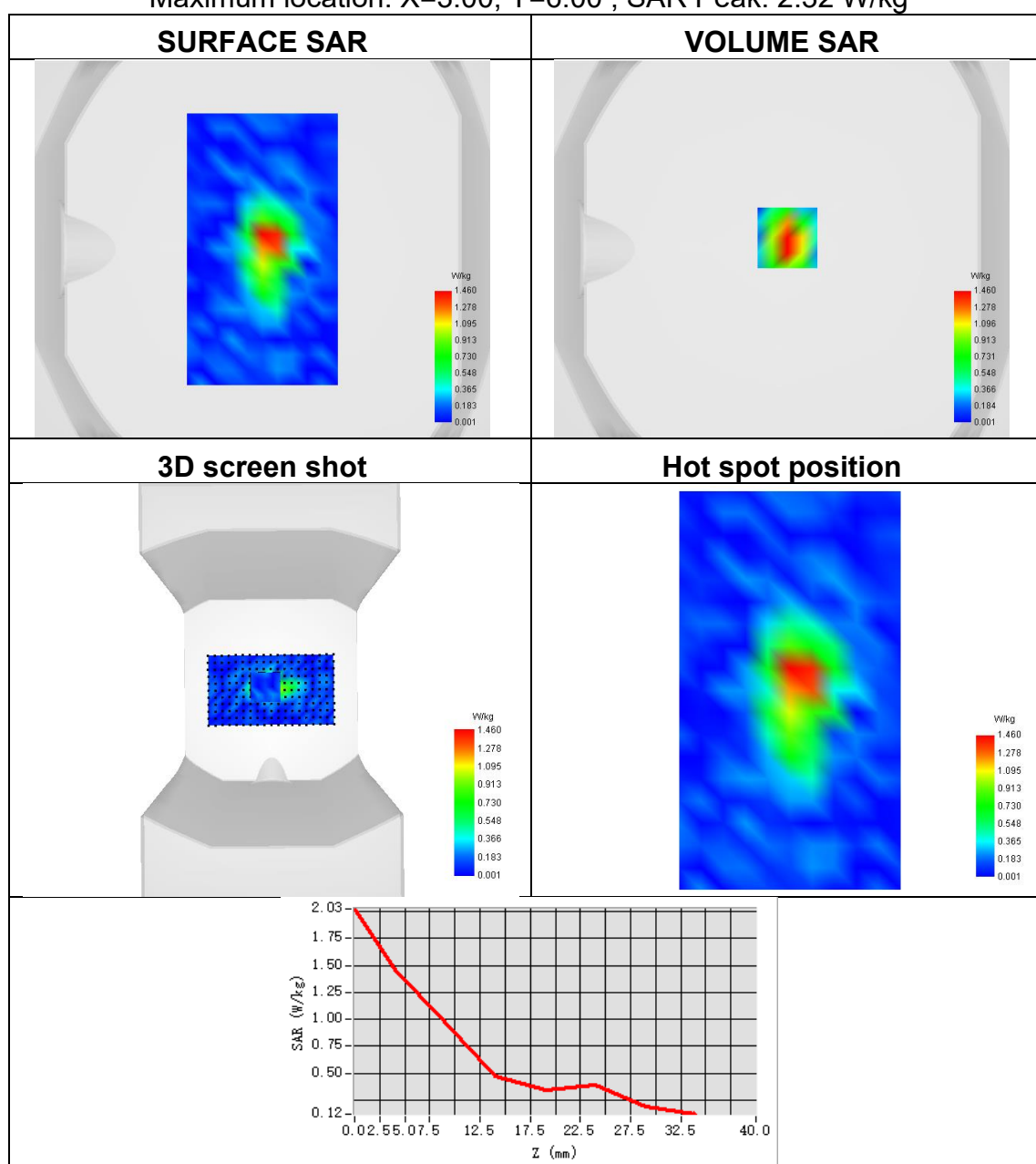




Plot 44:

Test Date	2025-07-06
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	NR band 41
Signal	NR TDD
Frequency	2640
SAR 10g (W/Kg)	0.731
SAR 1g (W/Kg)	1.381

Maximum location: X=3.00, Y=6.00 ; SAR Peak: 2.32 W/kg

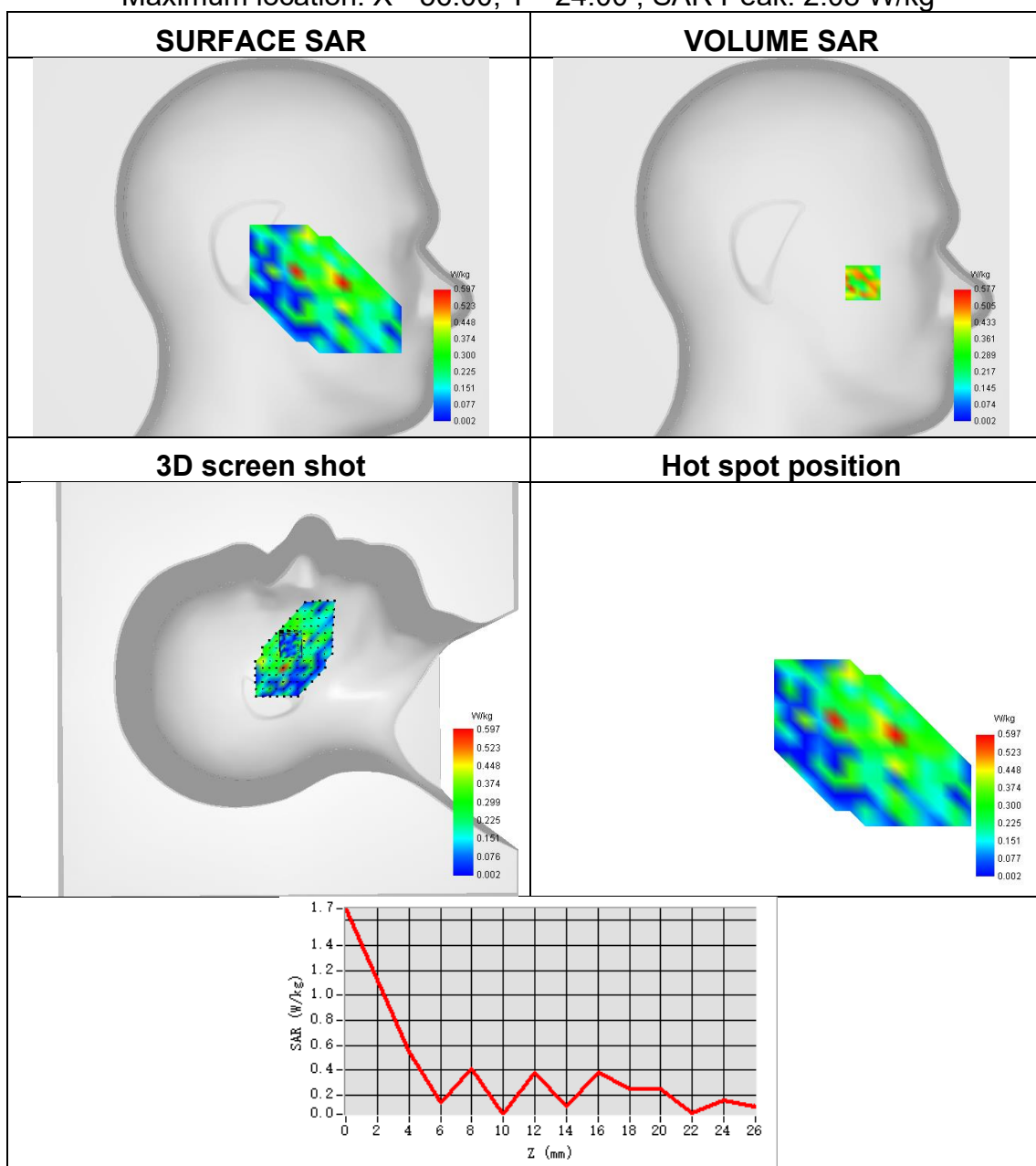




Plot 45:

Test Date	2025-07-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	NR band 77
Signal	NR TDD
Frequency	3800
SAR 10g (W/Kg)	0.221
SAR 1g (W/Kg)	0.516

Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 2.08 W/kg

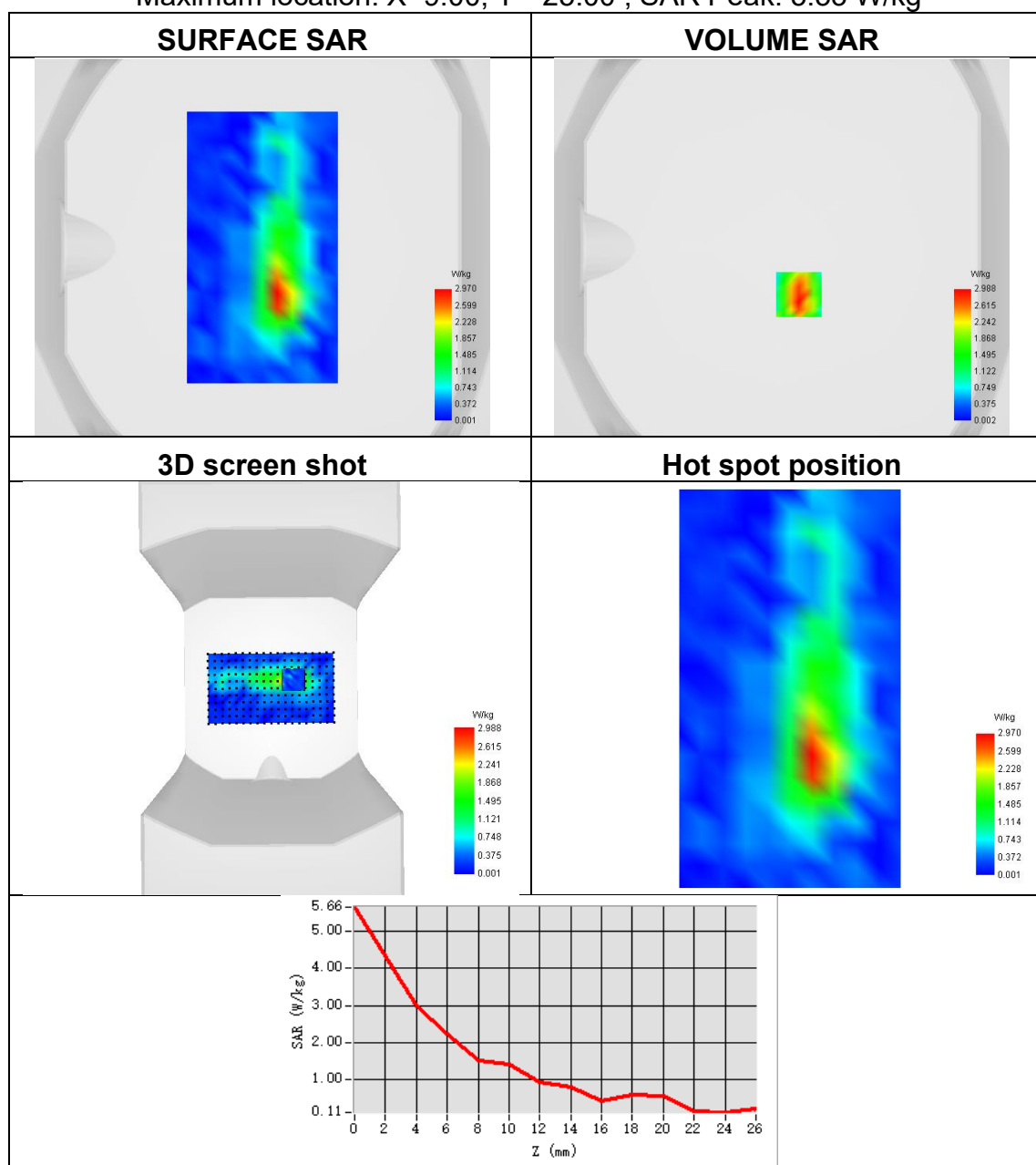




Plot 46:

Test Date	2025-07-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Right Edge
Band	NR band 77
Signal	NR TDD
Frequency	3800
SAR 10g (W/Kg)	1.188
SAR 1g (W/Kg)	2.632

Maximum location: X=9.00, Y=-25.00 ; SAR Peak: 5.53 W/kg

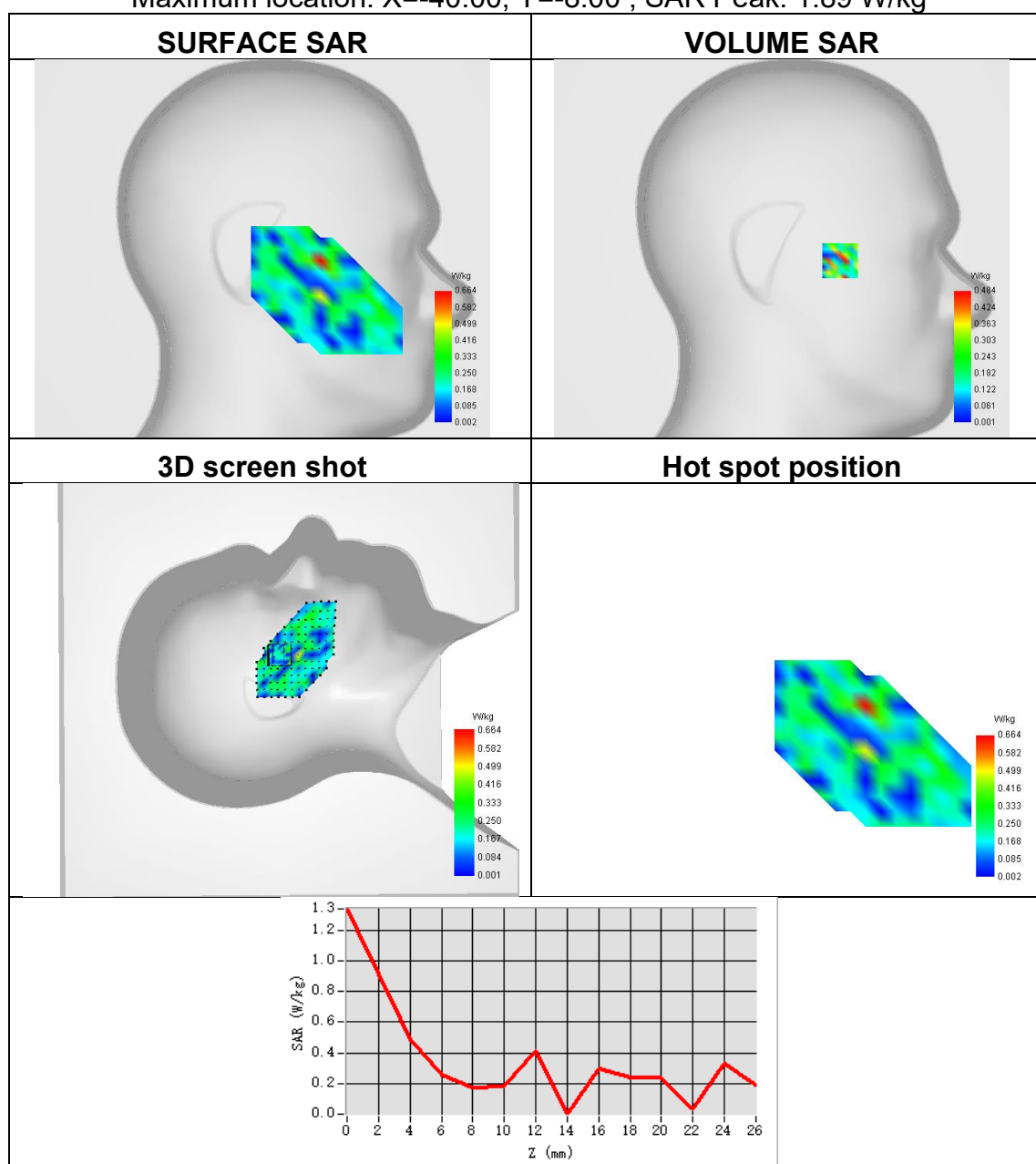




Plot 47:

Test Date	2025-07-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Cheek
Band	NR band 78
Signal	NR TDD
Frequency	3750
SAR 10g (W/Kg)	0.156
SAR 1g (W/Kg)	0.314

Maximum location: X=-40.00, Y=-8.00 ; SAR Peak: 1.89 W/kg

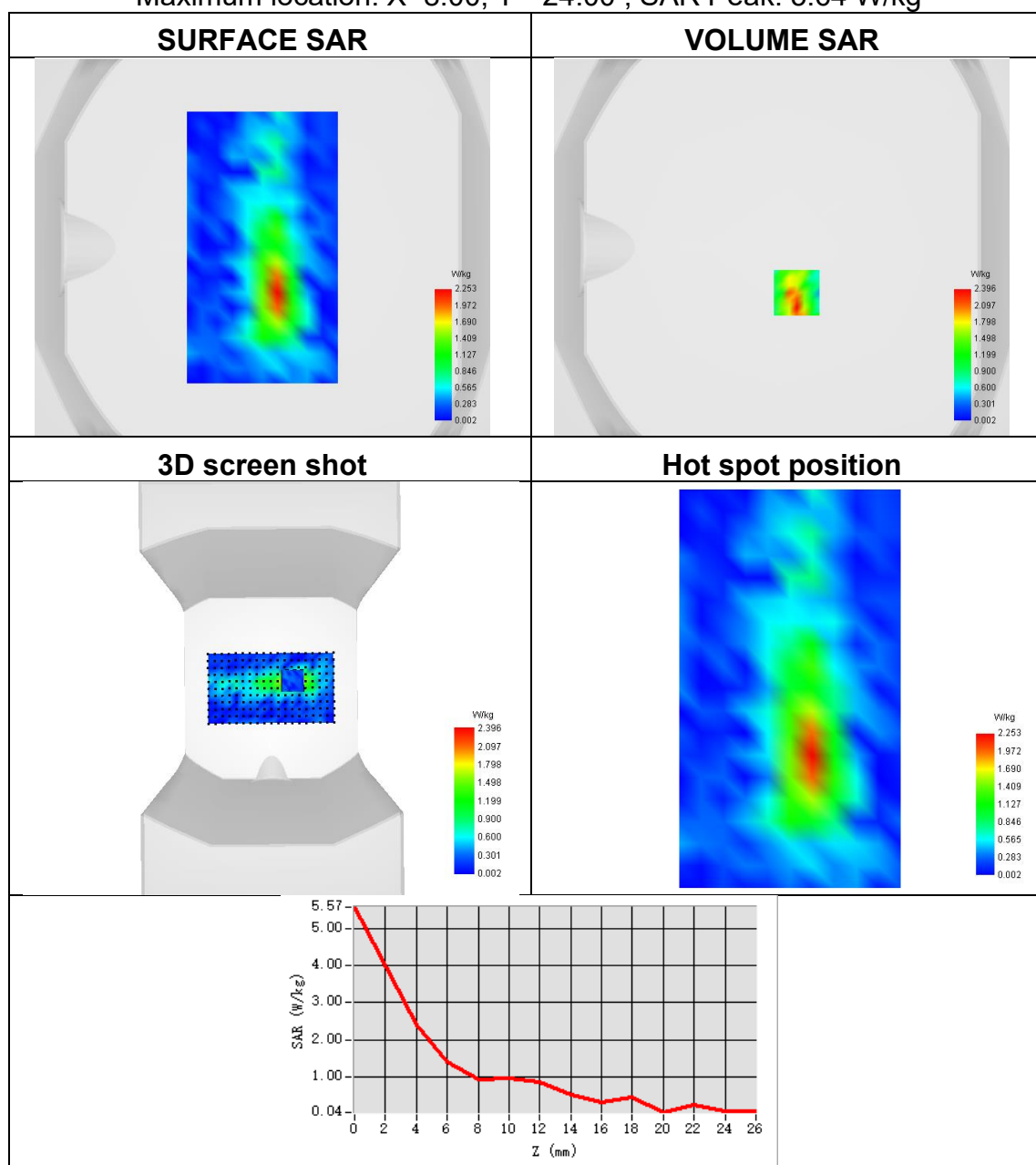




Plot 48:

Test Date	2025-07-16
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Right Edge
Band	NR band 78
Signal	NR TDD
Frequency	3750
SAR 10g (W/Kg)	0.750
SAR 1g (W/Kg)	1.909

Maximum location: X=8.00, Y=-24.00 ; SAR Peak: 5.64 W/kg

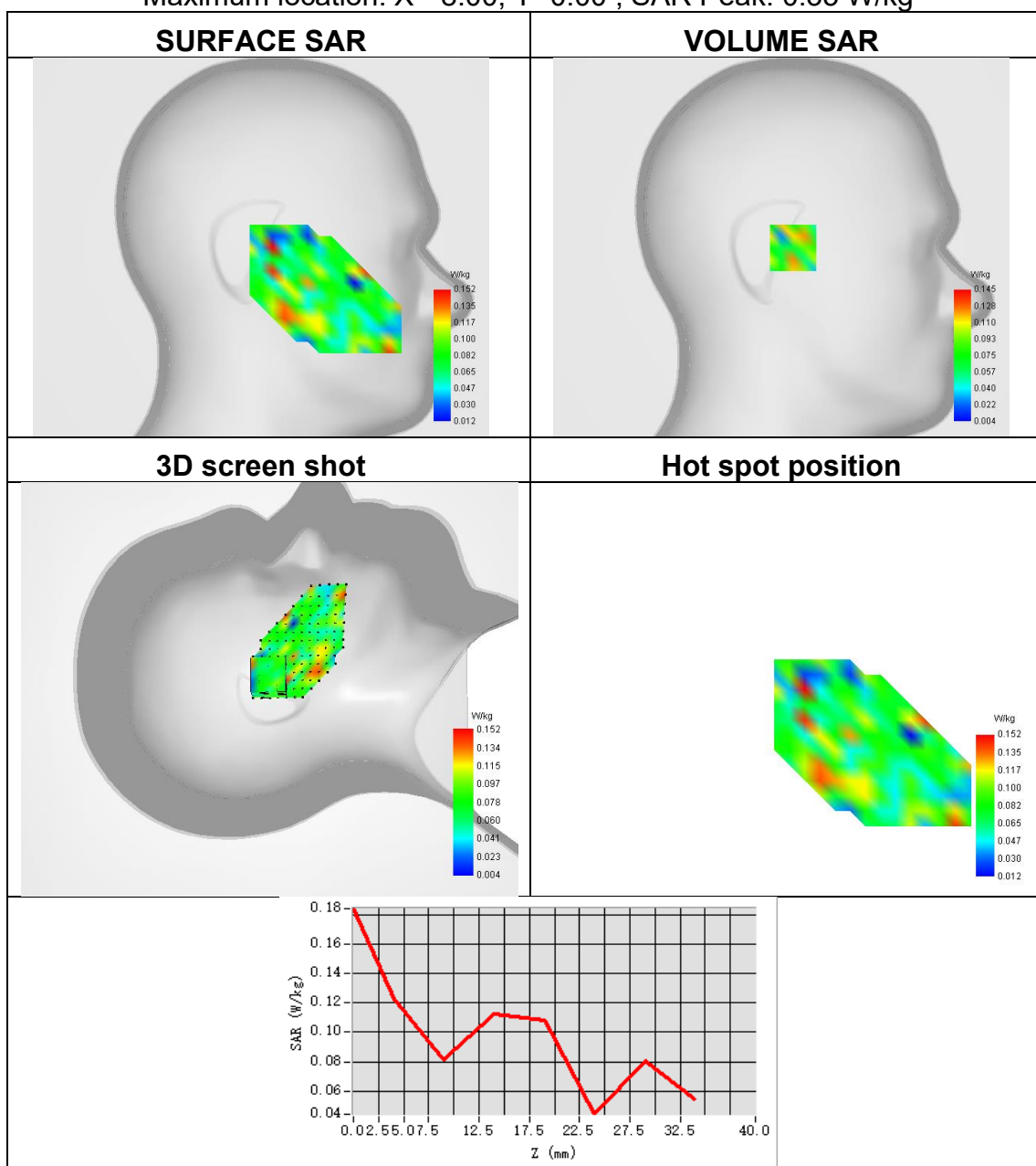




Plot 49:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM ANT 1
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.067
SAR 1g (W/Kg)	0.123

Maximum location: X=-8.00, Y=0.00 ; SAR Peak: 0.35 W/kg

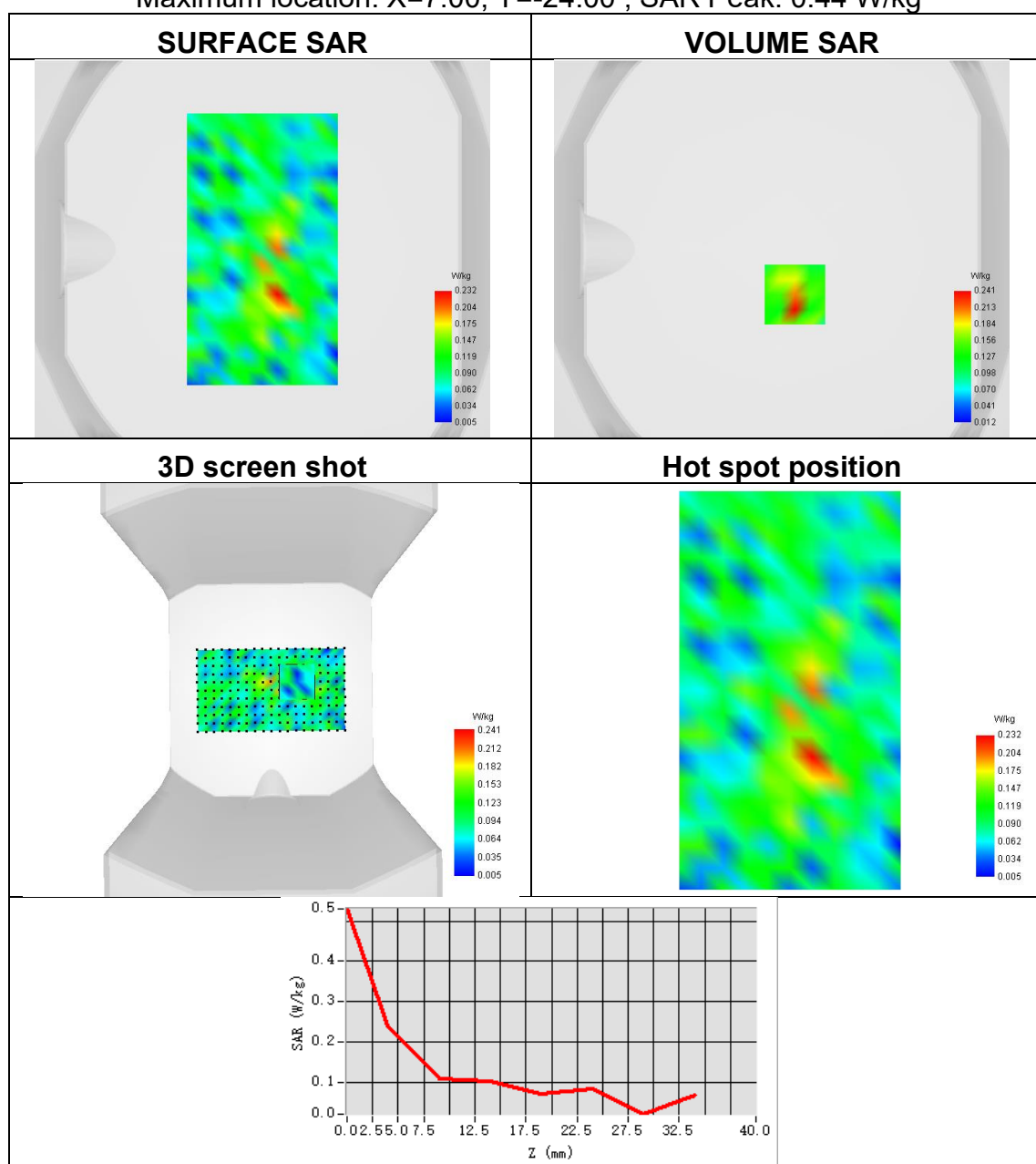




Plot 50:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Left Edge
Band	ISM ANT 1
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.129
SAR 1g (W/Kg)	0.222

Maximum location: X=7.00, Y=-24.00 ; SAR Peak: 0.44 W/kg

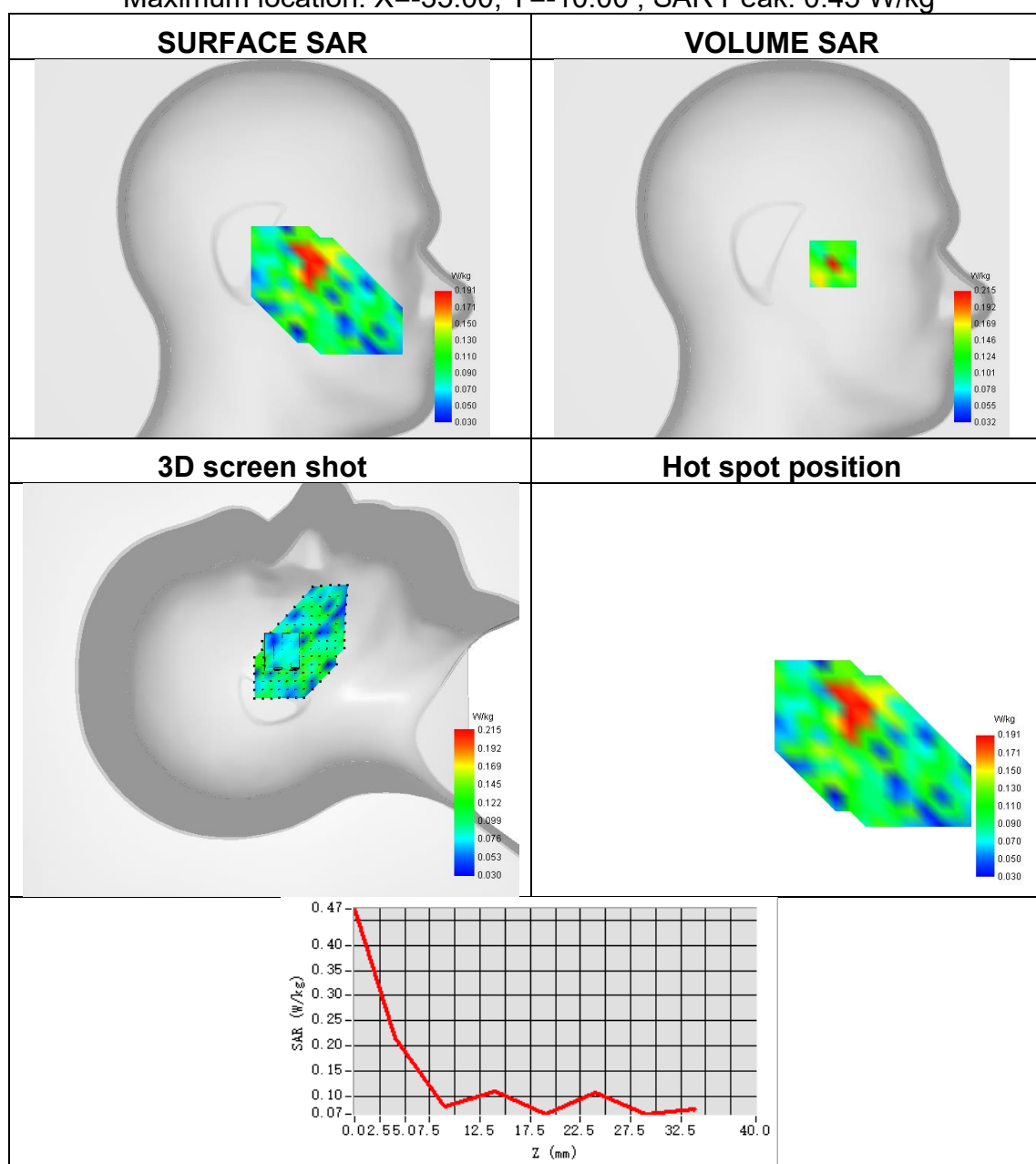




Plot 51:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM ANT 2
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.186

Maximum location: X=-35.00, Y=-10.00 ; SAR Peak: 0.45 W/kg

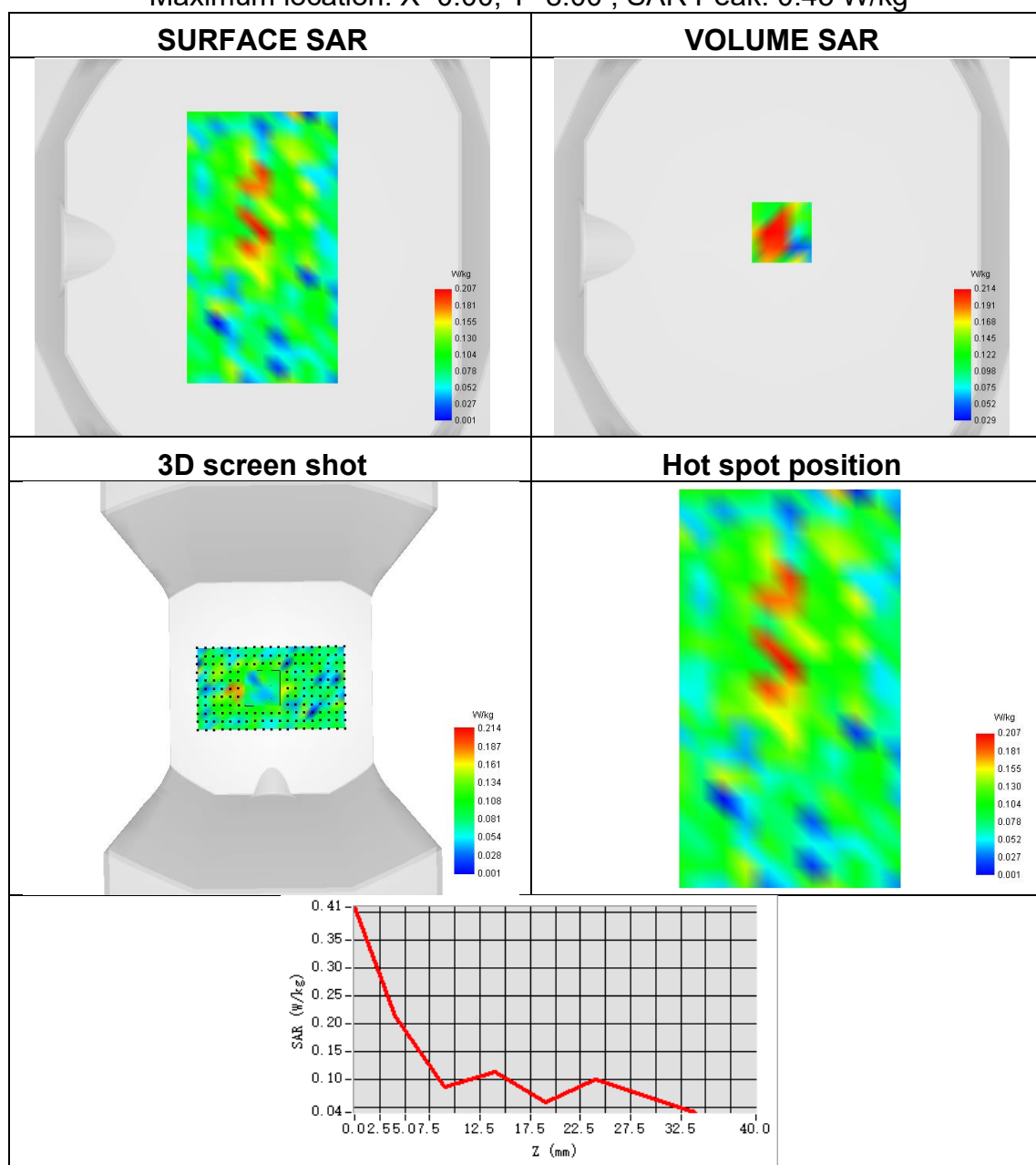




Plot 52:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM ANT 2
Signal	IEEE 802.11 b
Frequency	2442
SAR 10g (W/Kg)	0.111
SAR 1g (W/Kg)	0.204

Maximum location: X=0.00, Y=8.00 ; SAR Peak: 0.45 W/kg

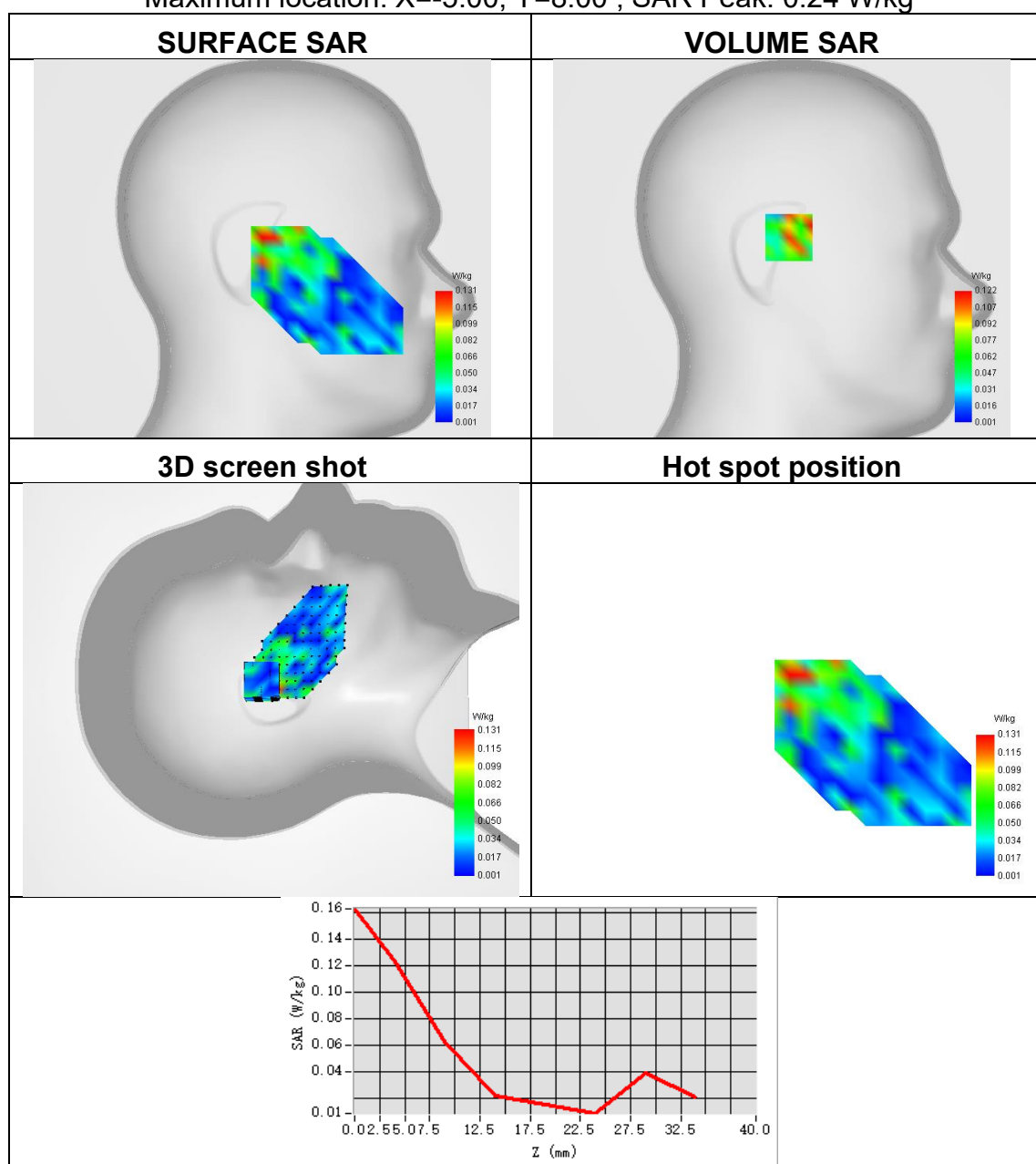




Plot 53:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM MIMO ANT 1
Signal	IEEE 802.11ax
Frequency	2442
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.102

Maximum location: X=-5.00, Y=8.00 ; SAR Peak: 0.24 W/kg

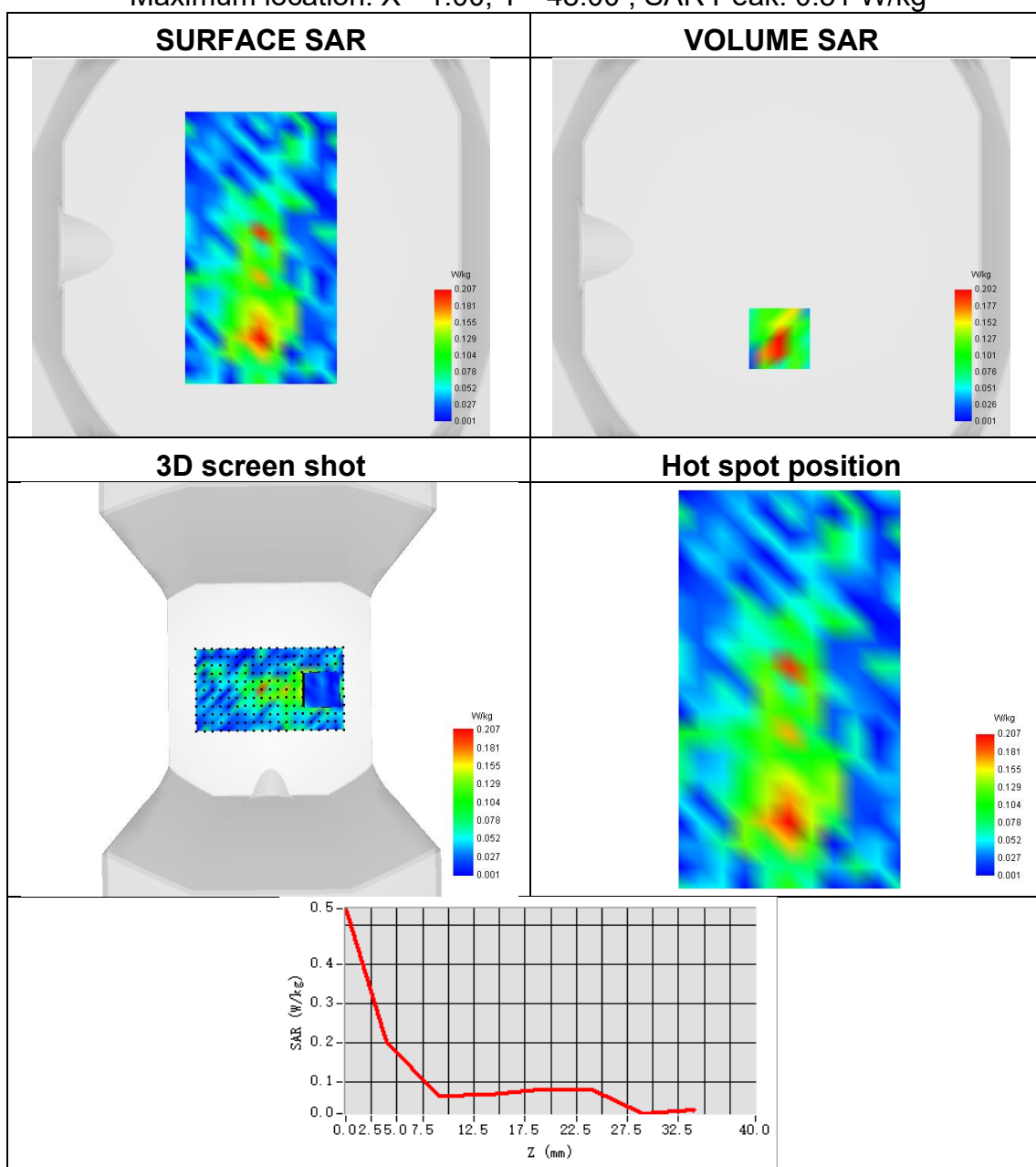




Plot 54:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM MIMO ANT 1
Signal	IEEE 802.11ax
Frequency	2442
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.215

Maximum location: X=-1.00, Y=-48.00 ; SAR Peak: 0.51 W/kg

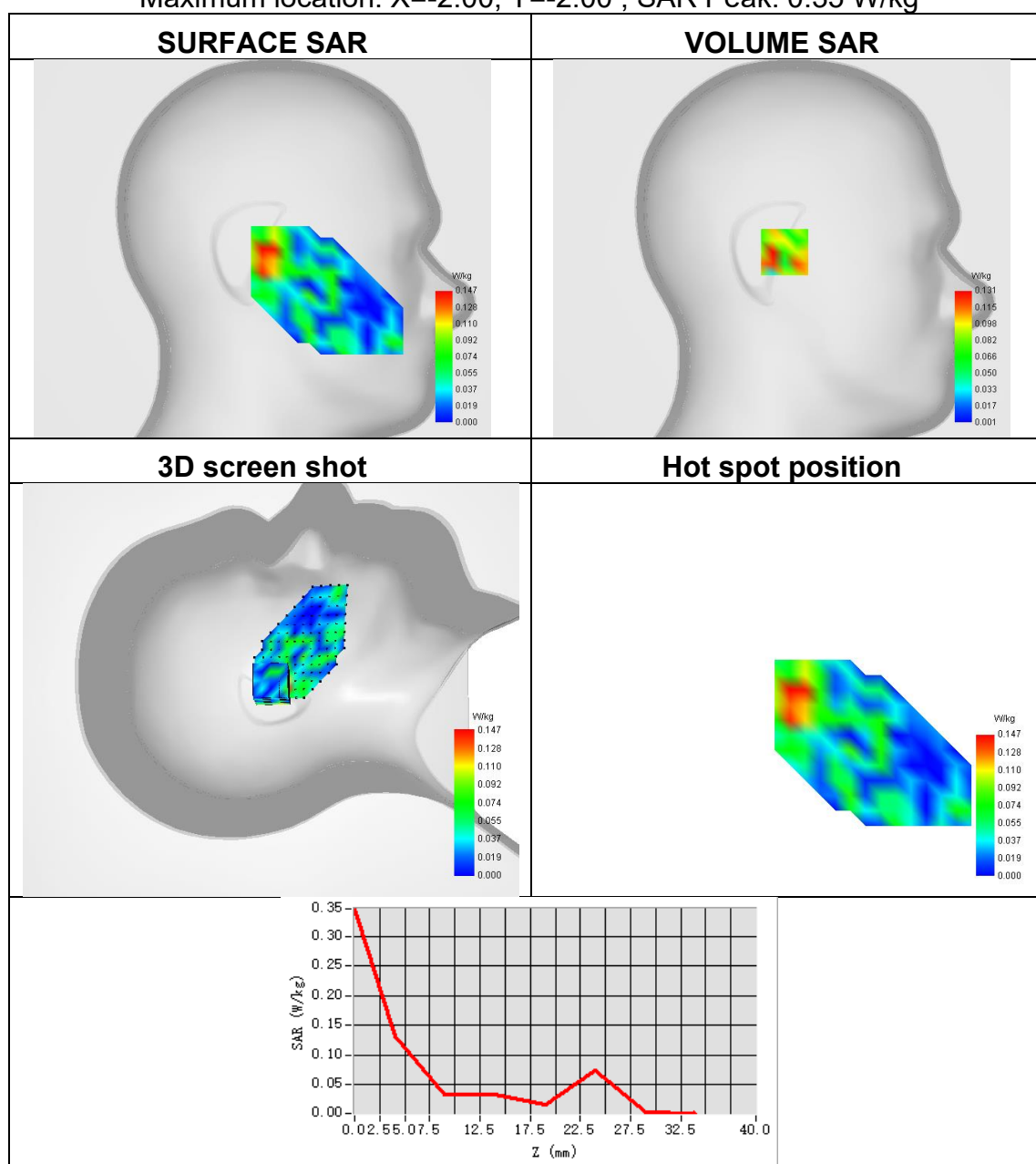




Plot 55:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM MIMO ANT 2
Signal	IEEE 802.11ax
Frequency	2442
SAR 10g (W/Kg)	0.054
SAR 1g (W/Kg)	0.142

Maximum location: X=-2.00, Y=-2.00 ; SAR Peak: 0.35 W/kg

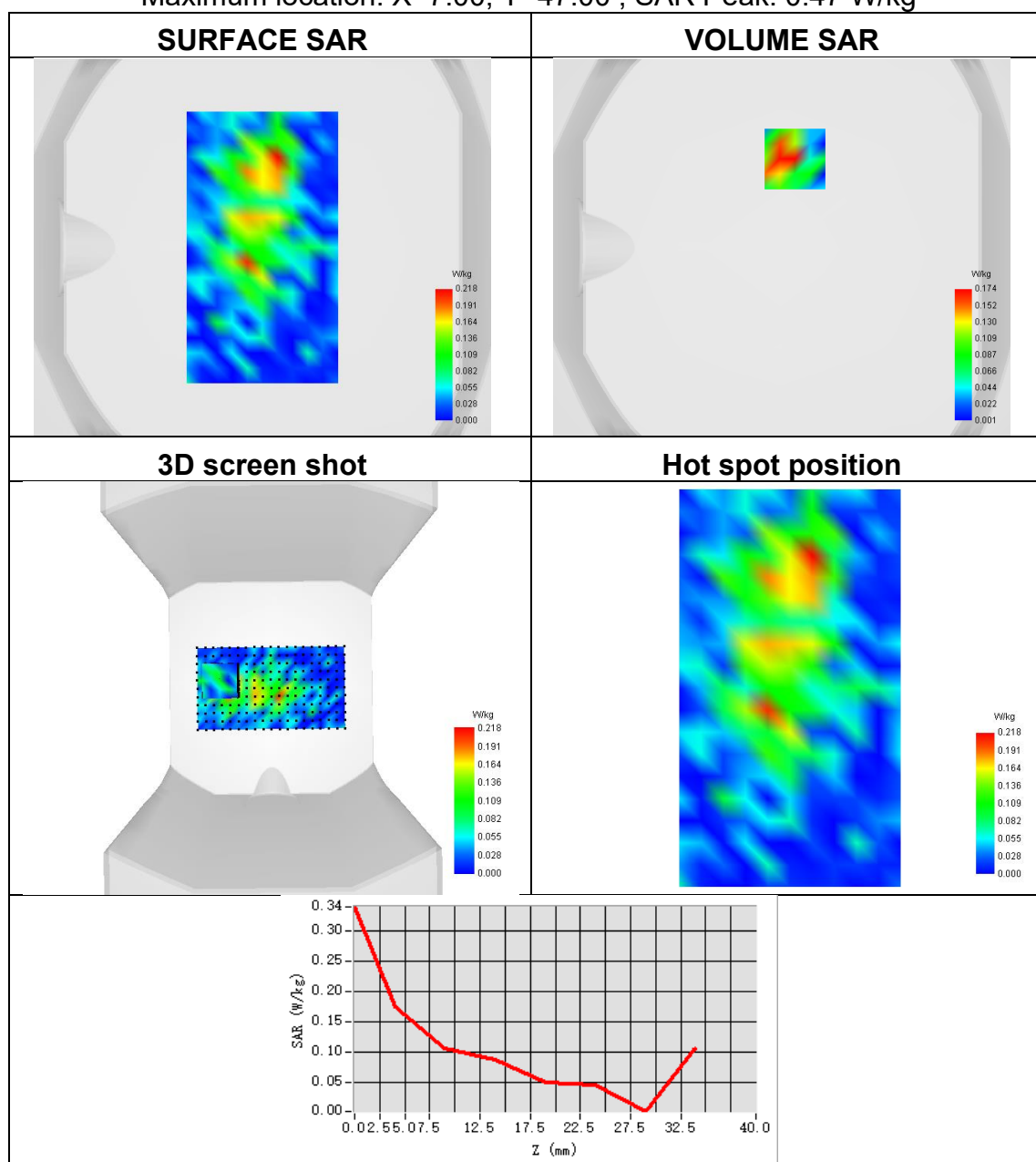




Plot 56:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Edge
Band	ISM MIMO ANT 2
Signal	IEEE 802.11ax
Frequency	2442
SAR 10g (W/Kg)	0.078
SAR 1g (W/Kg)	0.175

Maximum location: X=7.00, Y=47.00 ; SAR Peak: 0.47 W/kg

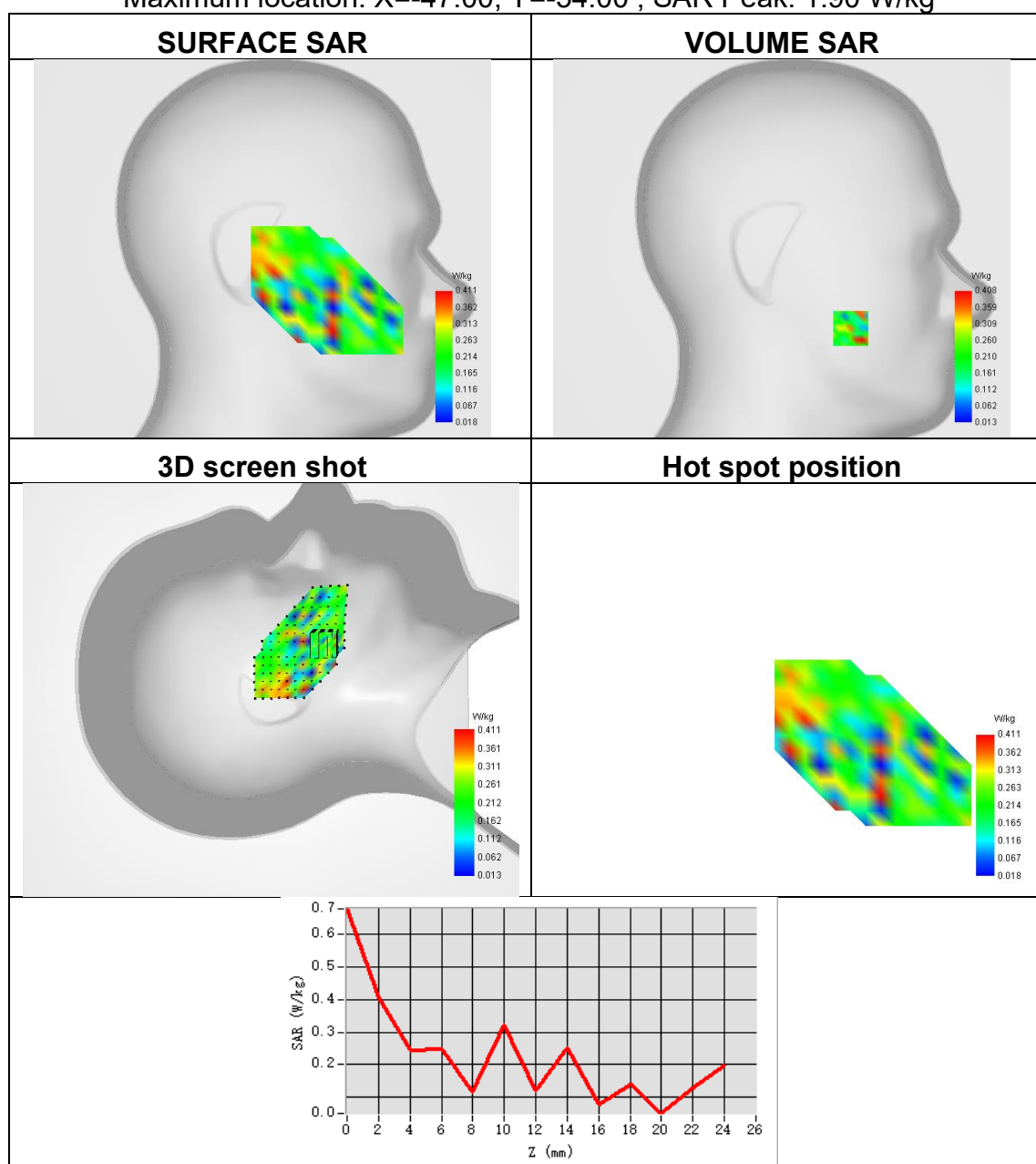




Plot 57:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-1 ANT 1
Signal	IEEE 802.11a
Frequency	5210
SAR 10g (W/Kg)	0.155
SAR 1g (W/Kg)	0.348

Maximum location: X=-47.00, Y=-54.00 ; SAR Peak: 1.90 W/kg

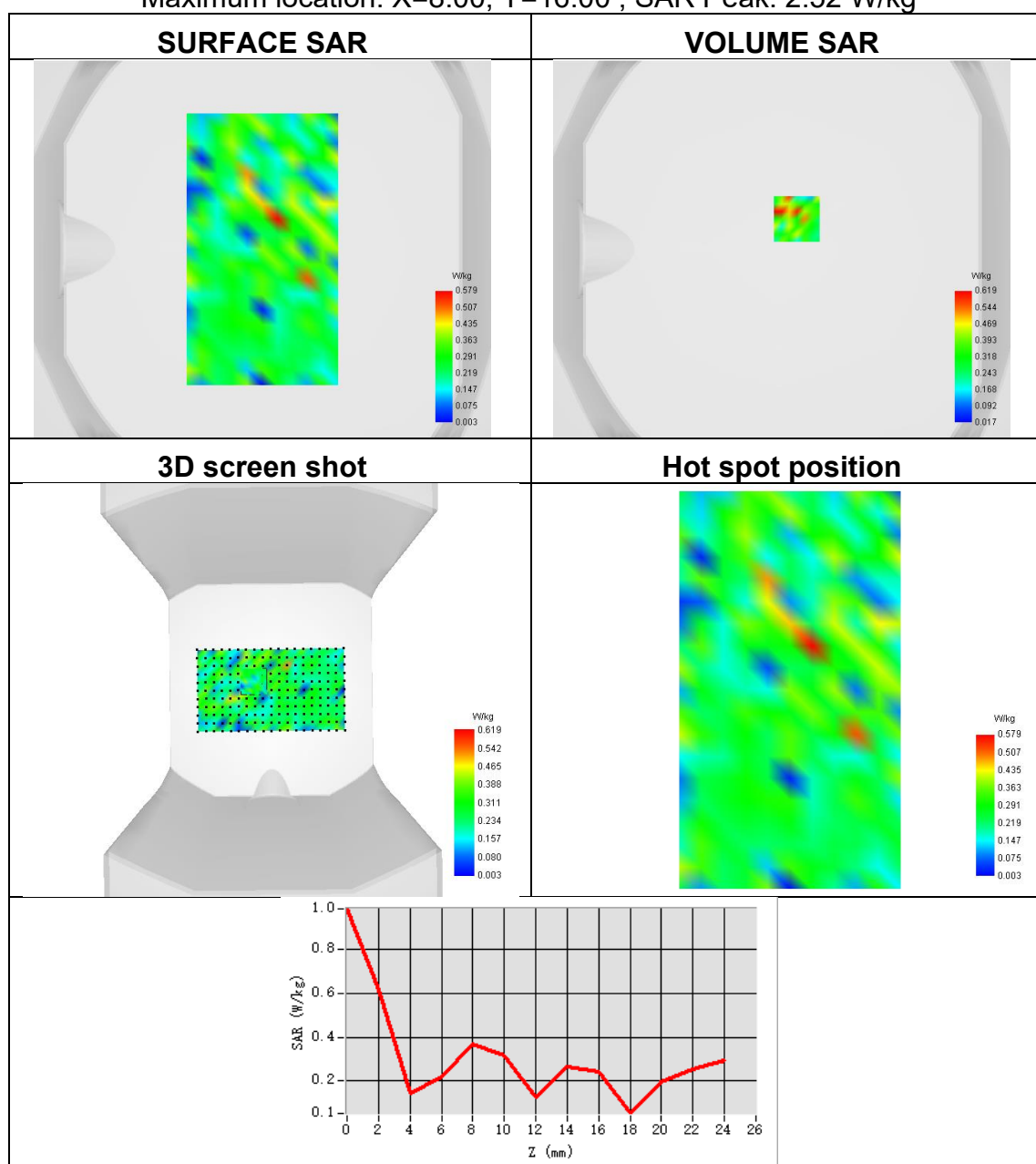




Plot 58:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1 ANT 1
Signal	IEEE 802.11a
Frequency	5210
SAR 10g (W/Kg)	0.204
SAR 1g (W/Kg)	0.469

Maximum location: X=8.00, Y=16.00 ; SAR Peak: 2.52 W/kg

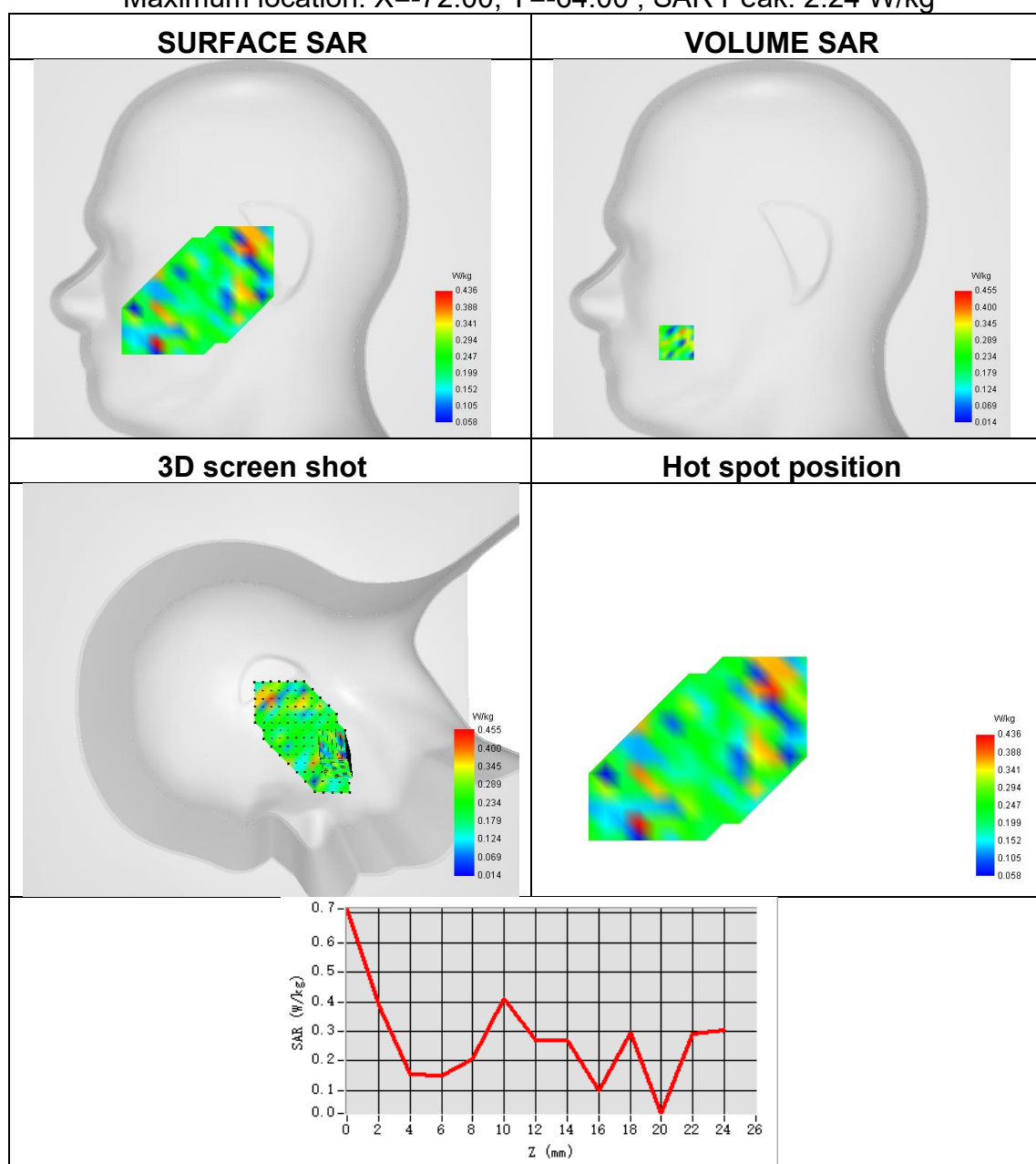




Plot 59:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-1 ANT 2
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.380

Maximum location: X=-72.00, Y=-64.00 ; SAR Peak: 2.24 W/kg

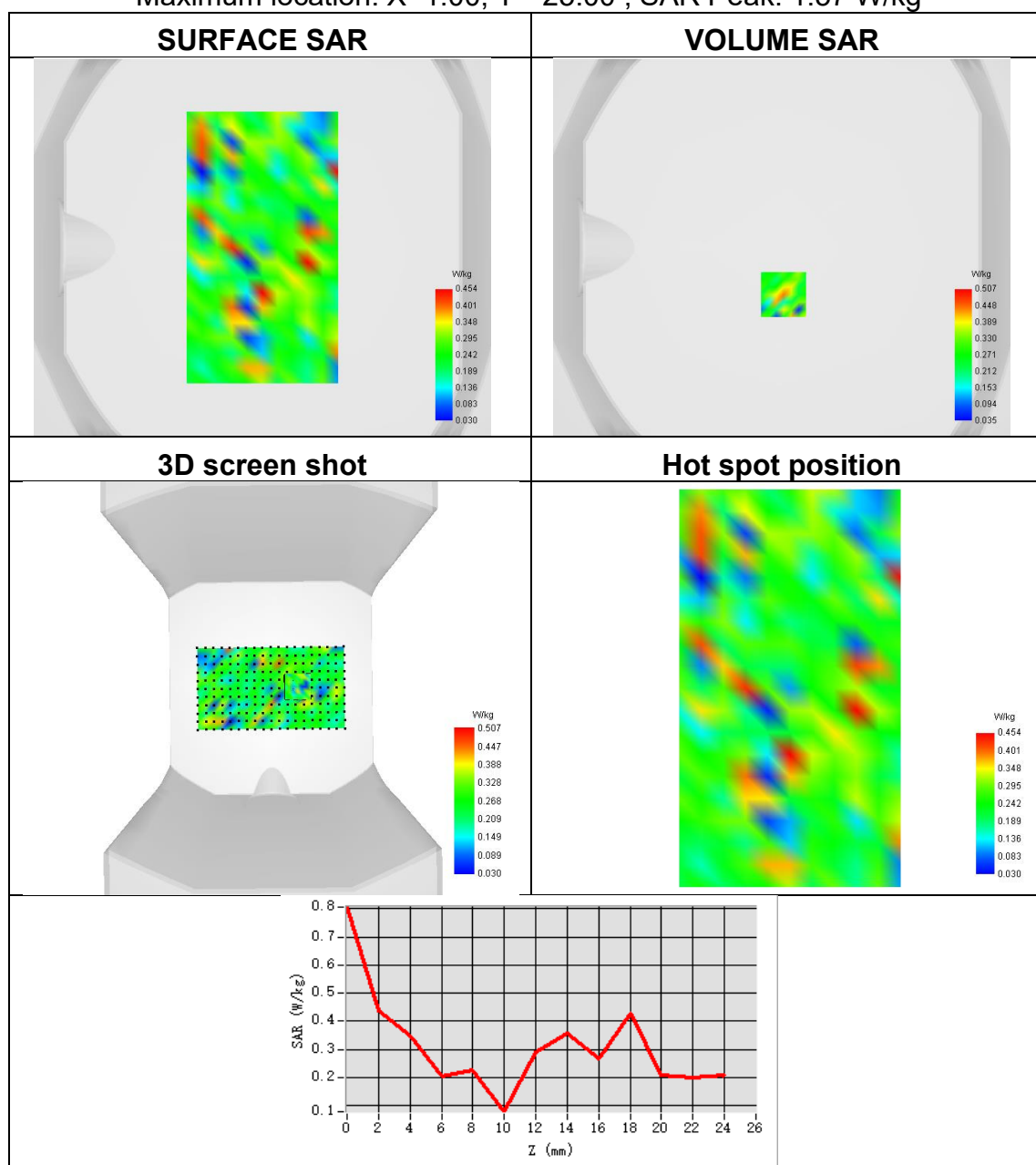




Plot 60:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1 ANT 2
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.197
SAR 1g (W/Kg)	0.305

Maximum location: X=1.00, Y=-25.00 ; SAR Peak: 1.57 W/kg

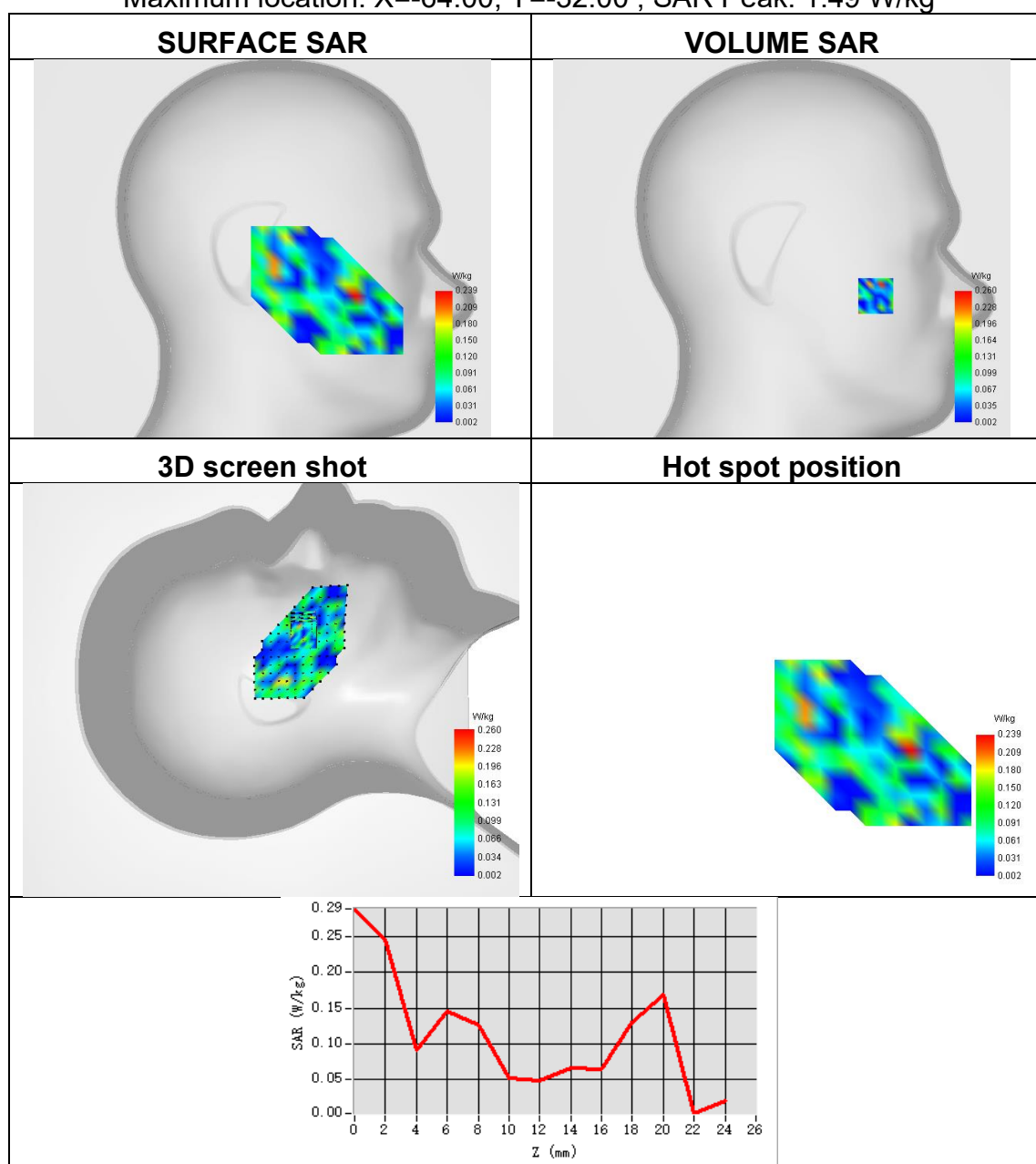




Plot 61:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-1MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5180
SAR 10g (W/Kg)	0.044
SAR 1g (W/Kg)	0.112

Maximum location: X=-64.00, Y=-32.00 ; SAR Peak: 1.49 W/kg

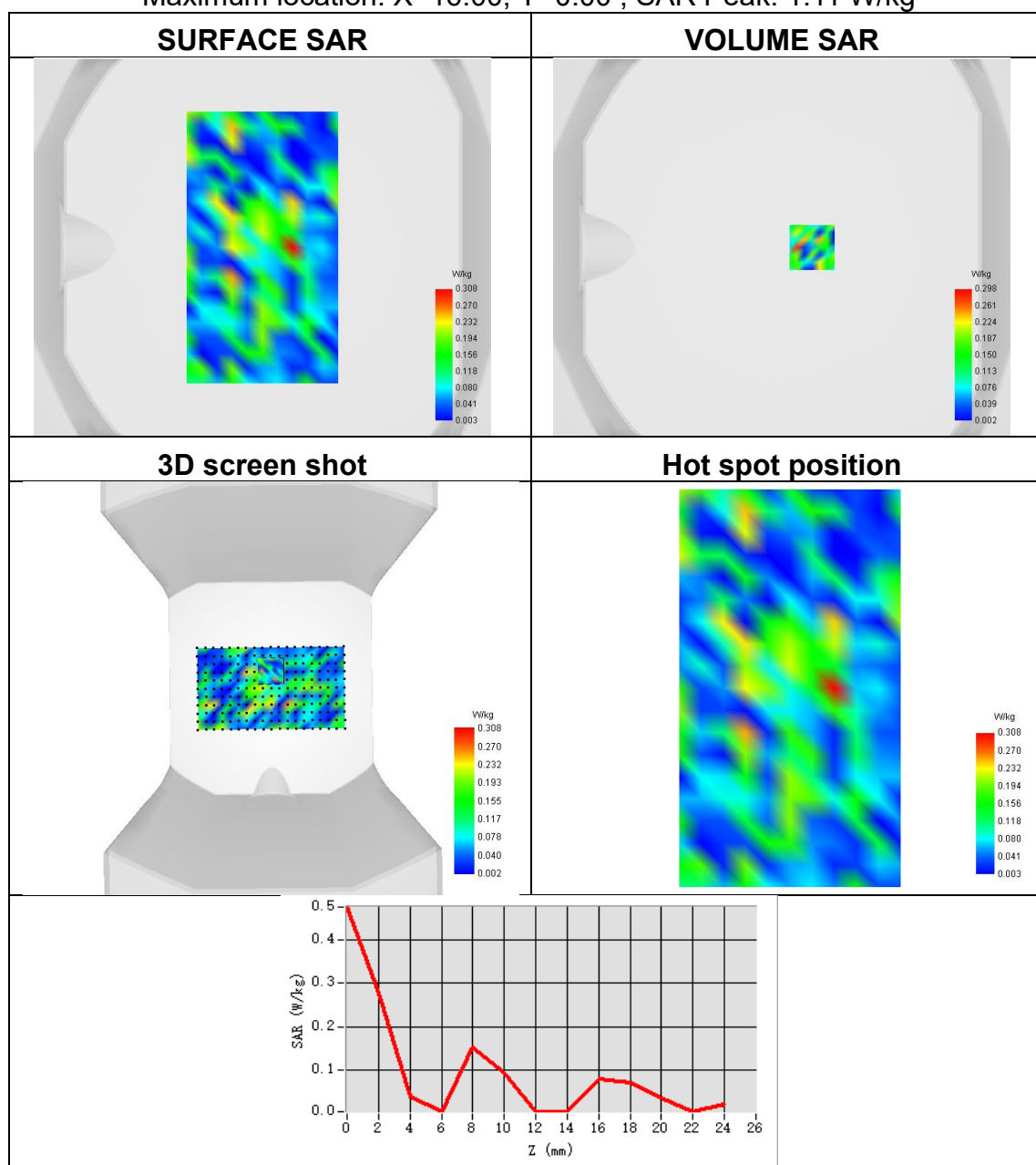




Plot 62:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5180
SAR 10g (W/Kg)	0.064
SAR 1g (W/Kg)	0.135

Maximum location: X=16.00, Y=0.00 ; SAR Peak: 1.11 W/kg

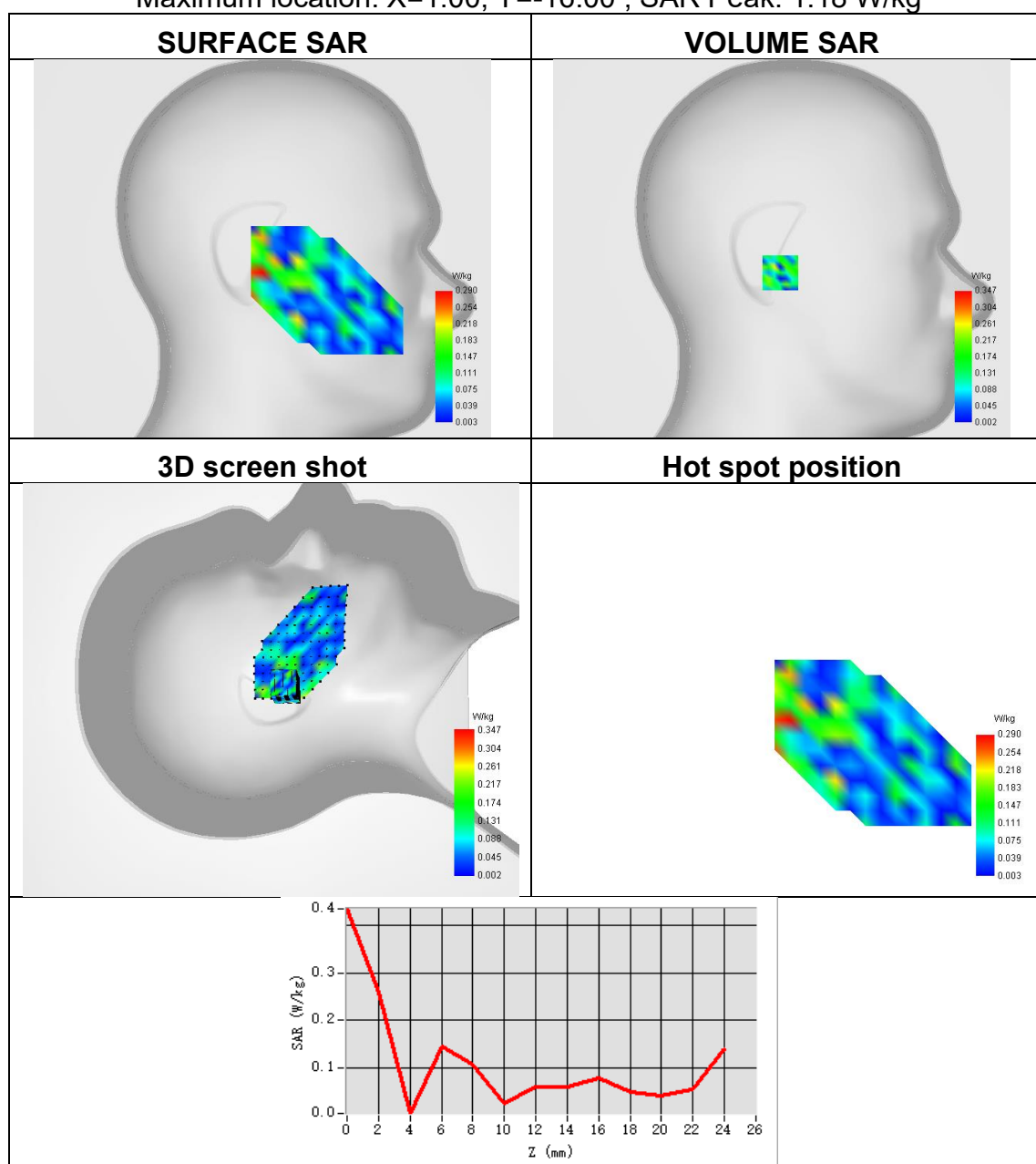




Plot 63:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-1MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5180
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.194

Maximum location: X=1.00, Y=-16.00 ; SAR Peak: 1.18 W/kg

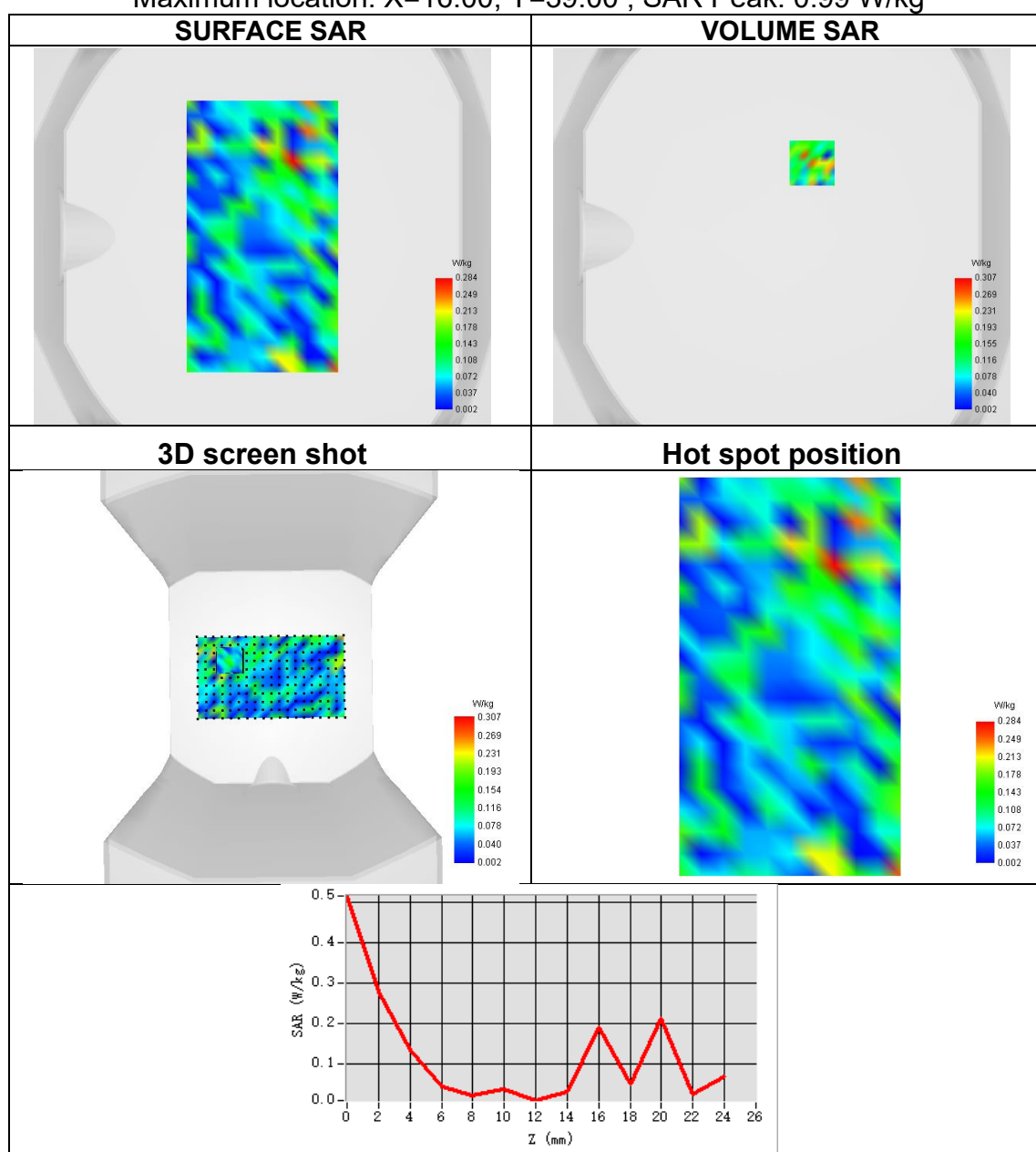




Plot 64:

Test Date	2025-07-18
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-1MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5180
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.179

Maximum location: X=16.00, Y=39.00 ; SAR Peak: 0.99 W/kg

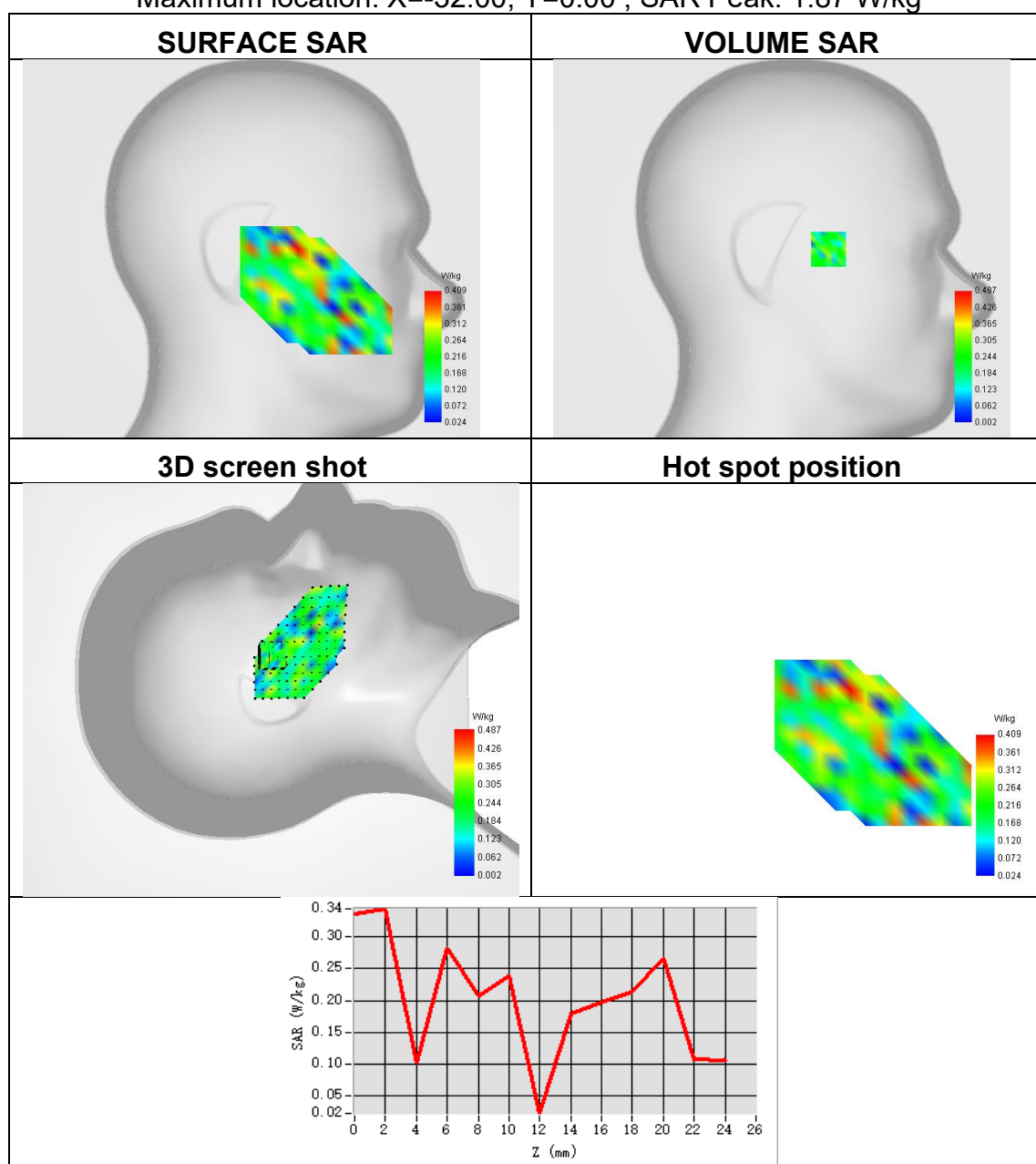




Plot 65:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2 ANT 1
Signal	IEEE 802.11ax
Frequency	5290
SAR 10g (W/Kg)	0.151
SAR 1g (W/Kg)	0.224

Maximum location: X=-32.00, Y=0.00 ; SAR Peak: 1.87 W/kg

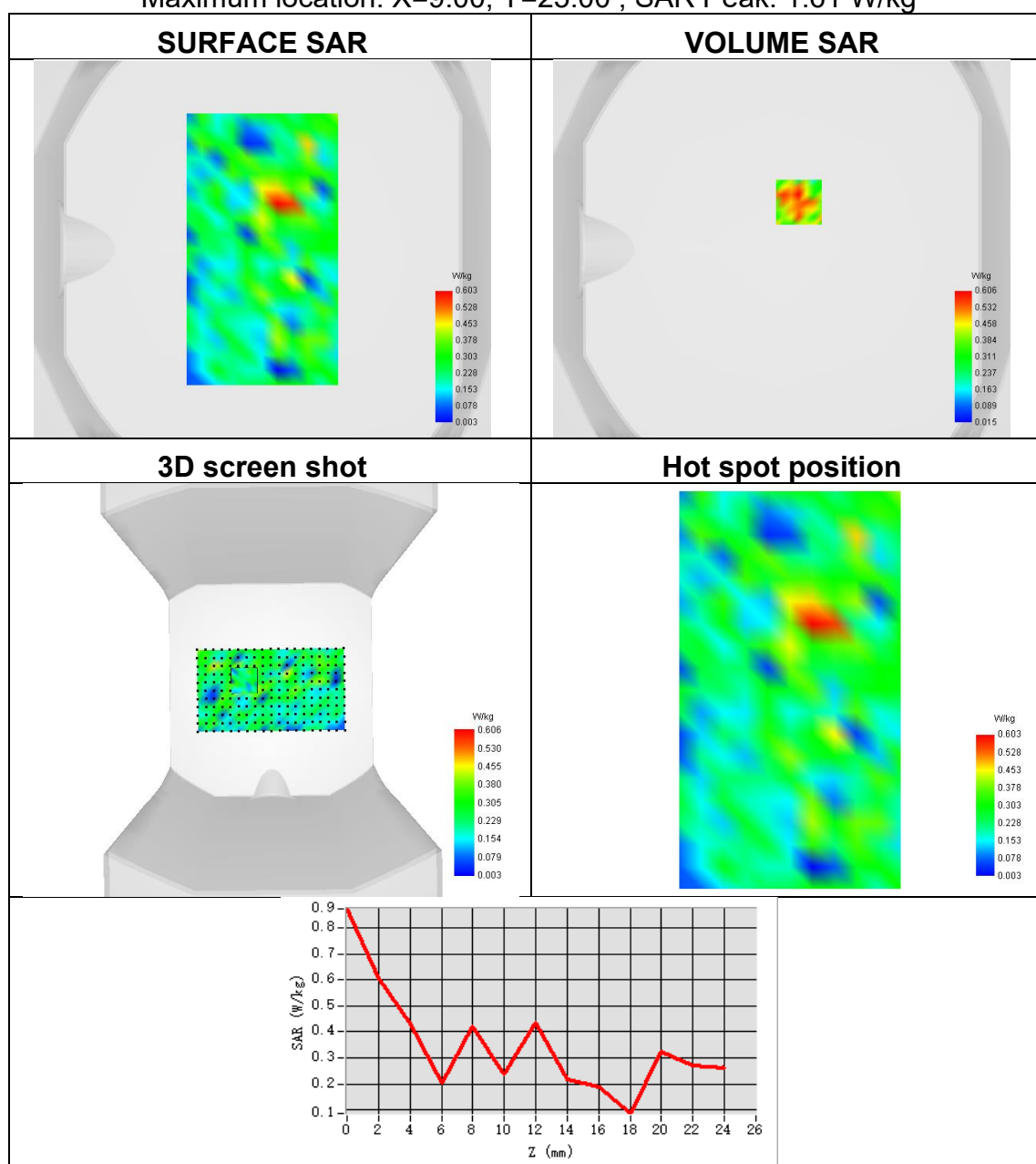




Plot 66:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 1
Signal	IEEE 802.11ax
Frequency	5290
SAR 10g (W/Kg)	0.225
SAR 1g (W/Kg)	0.457

Maximum location: X=9.00, Y=25.00 ; SAR Peak: 1.61 W/kg

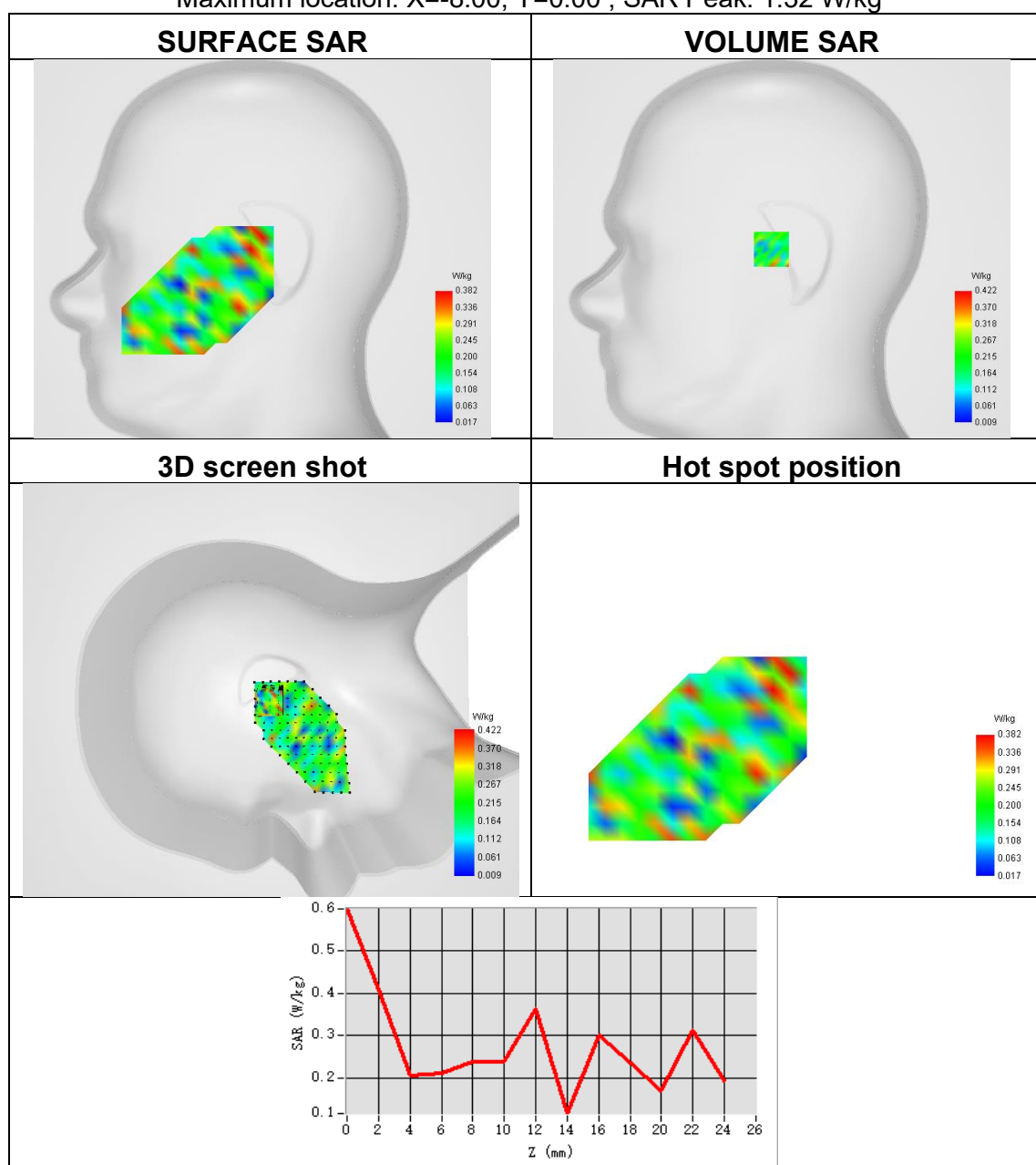




Plot 67:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-2 ANT 2
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.153
SAR 1g (W/Kg)	0.266

Maximum location: X=-8.00, Y=0.00 ; SAR Peak: 1.32 W/kg

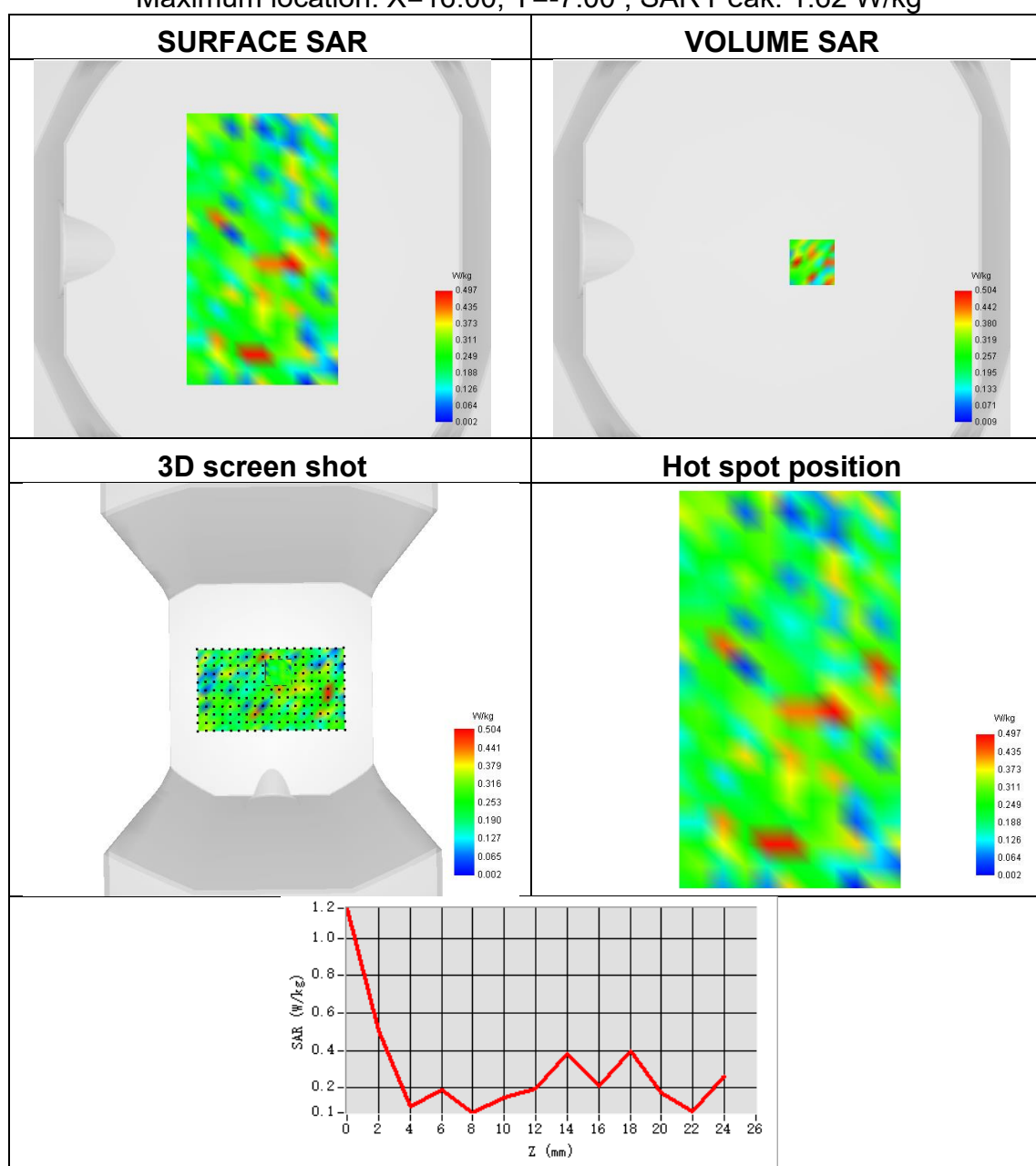




Plot 68:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 ANT 2
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.201
SAR 1g (W/Kg)	0.289

Maximum location: X=16.00, Y=-7.00 ; SAR Peak: 1.62 W/kg

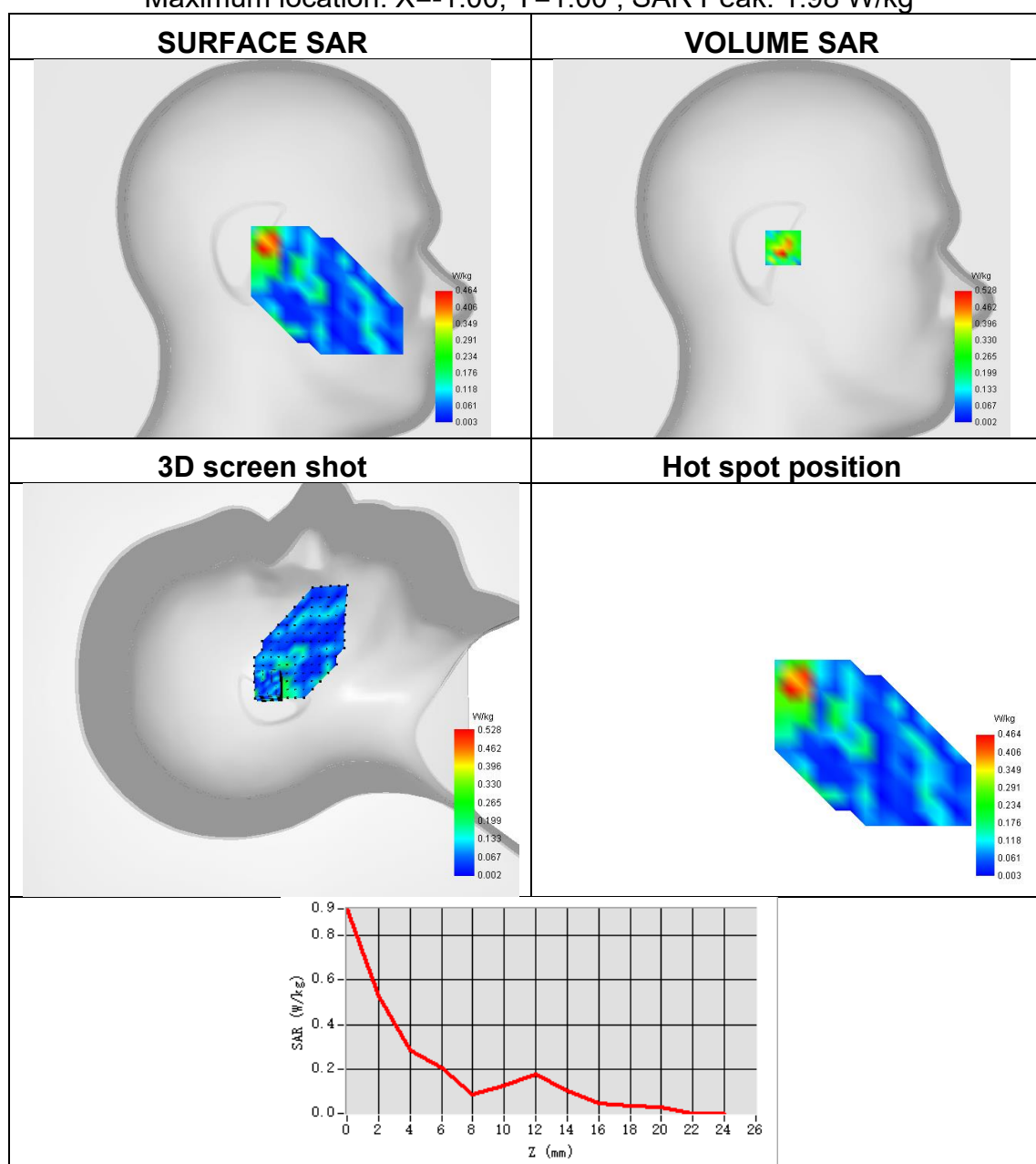




Plot 69:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2 MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.388

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

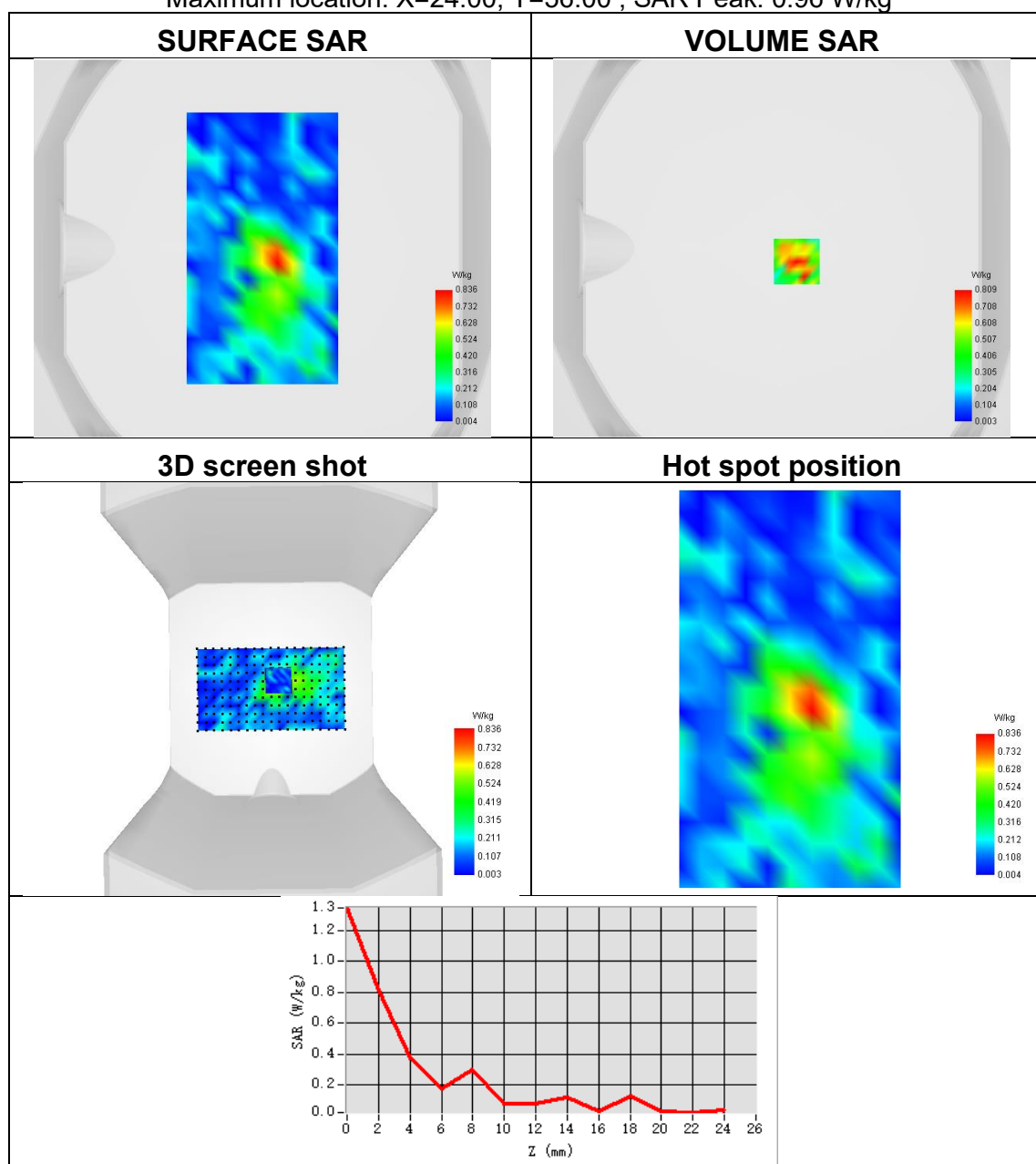




Plot 70:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.186
SAR 1g (W/Kg)	0.473

Maximum location: X=24.00, Y=56.00 ; SAR Peak: 0.96 W/kg

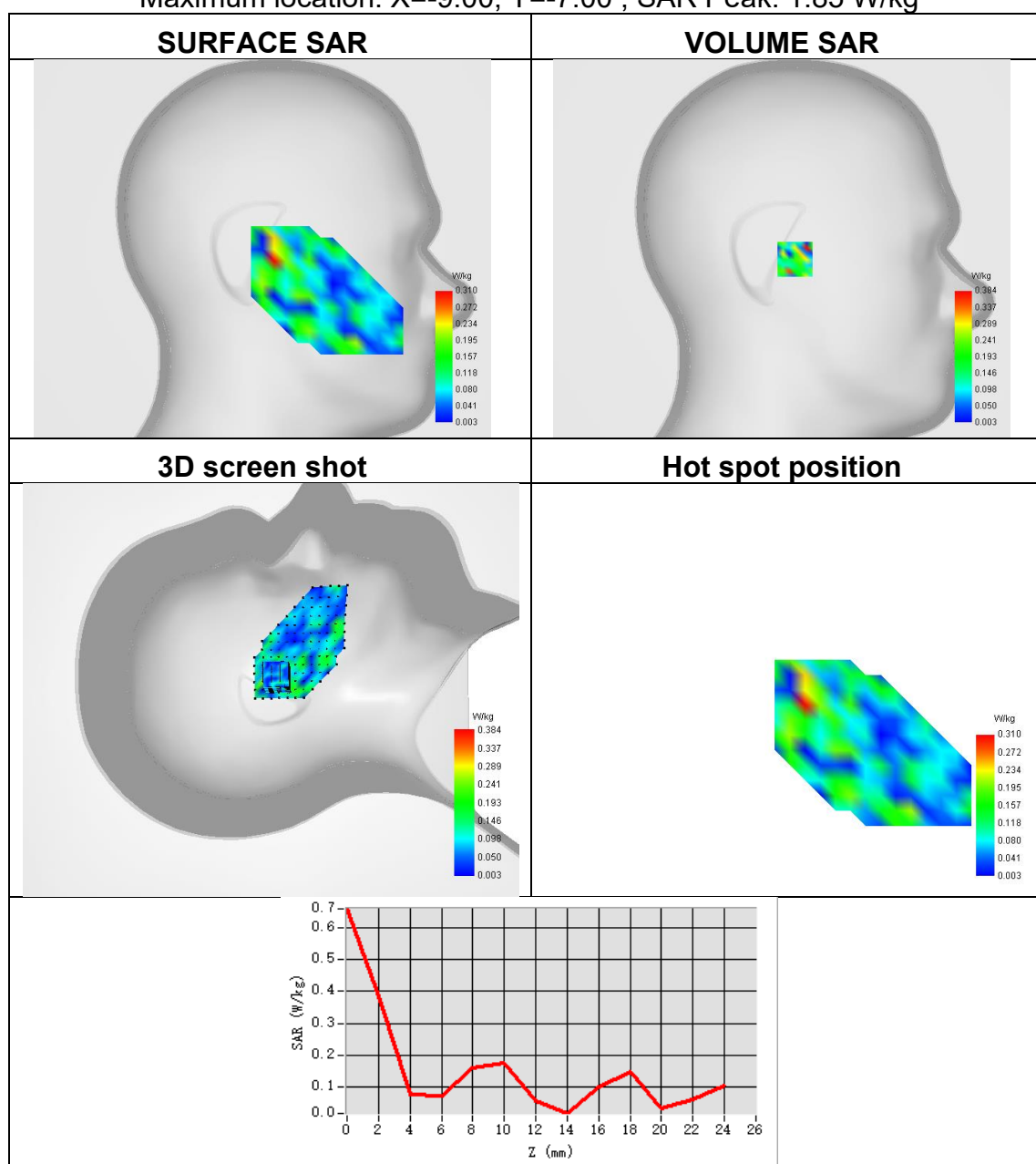




Plot 71:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2 MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.280

Maximum location: X=-9.00, Y=-7.00 ; SAR Peak: 1.85 W/kg

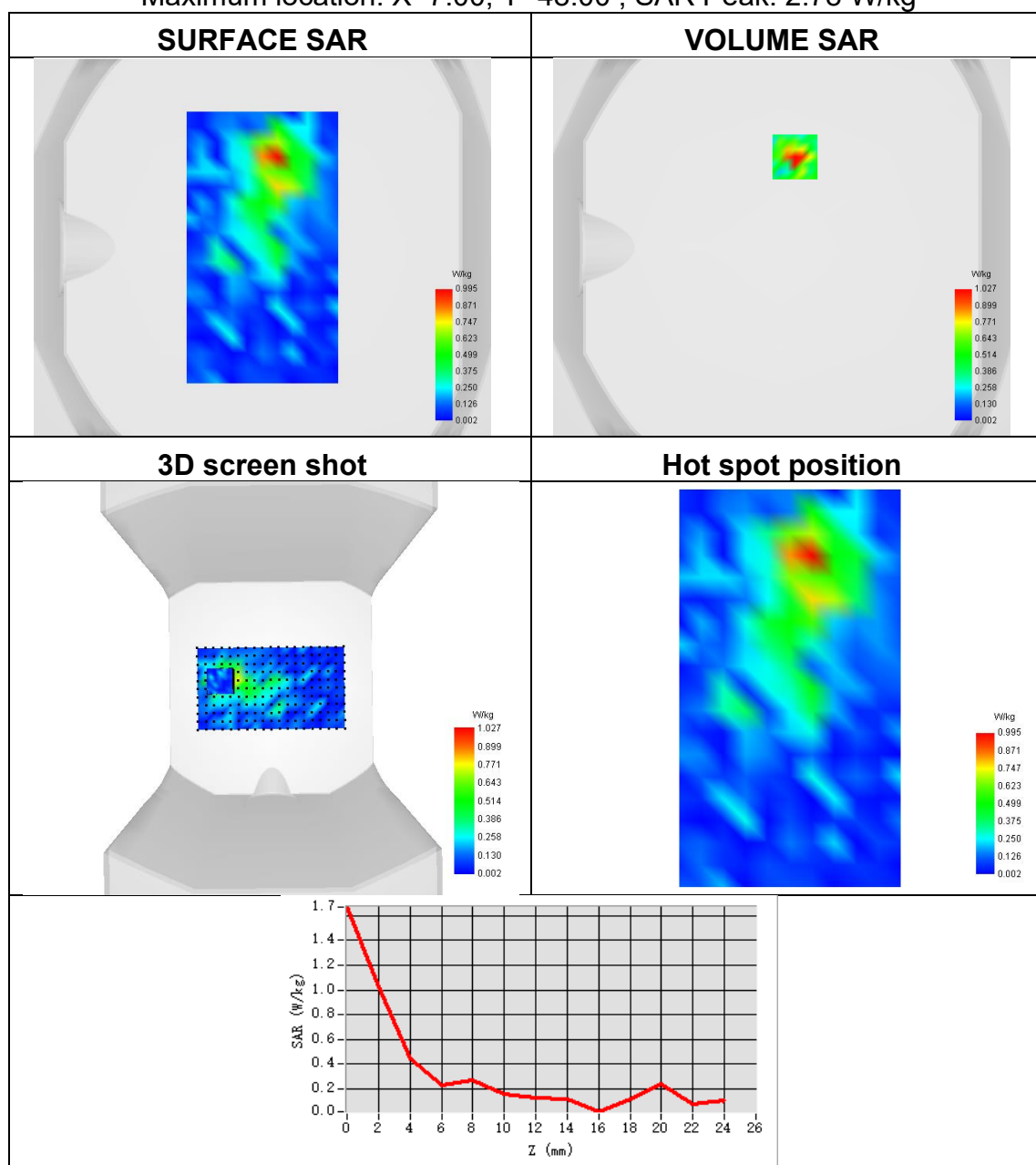




Plot 72:

Test Date	2025-07-22
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2 MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5310
SAR 10g (W/Kg)	0.234
SAR 1g (W/Kg)	0.634

Maximum location: X=7.00, Y=48.00 ; SAR Peak: 2.78 W/kg

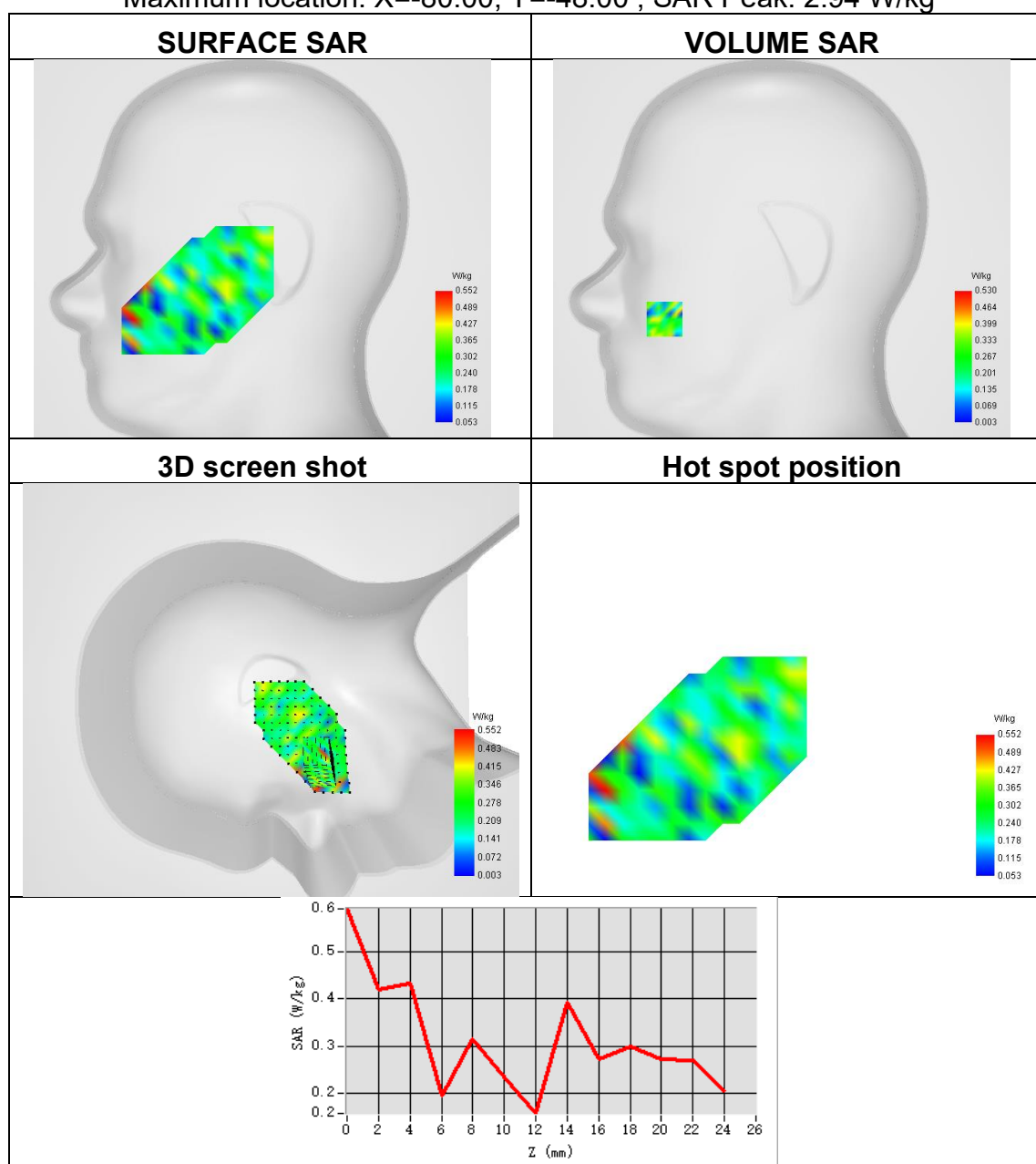




Plot 73:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-2c ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.187
SAR 1g (W/Kg)	0.406

Maximum location: X=-80.00, Y=-48.00 ; SAR Peak: 2.94 W/kg

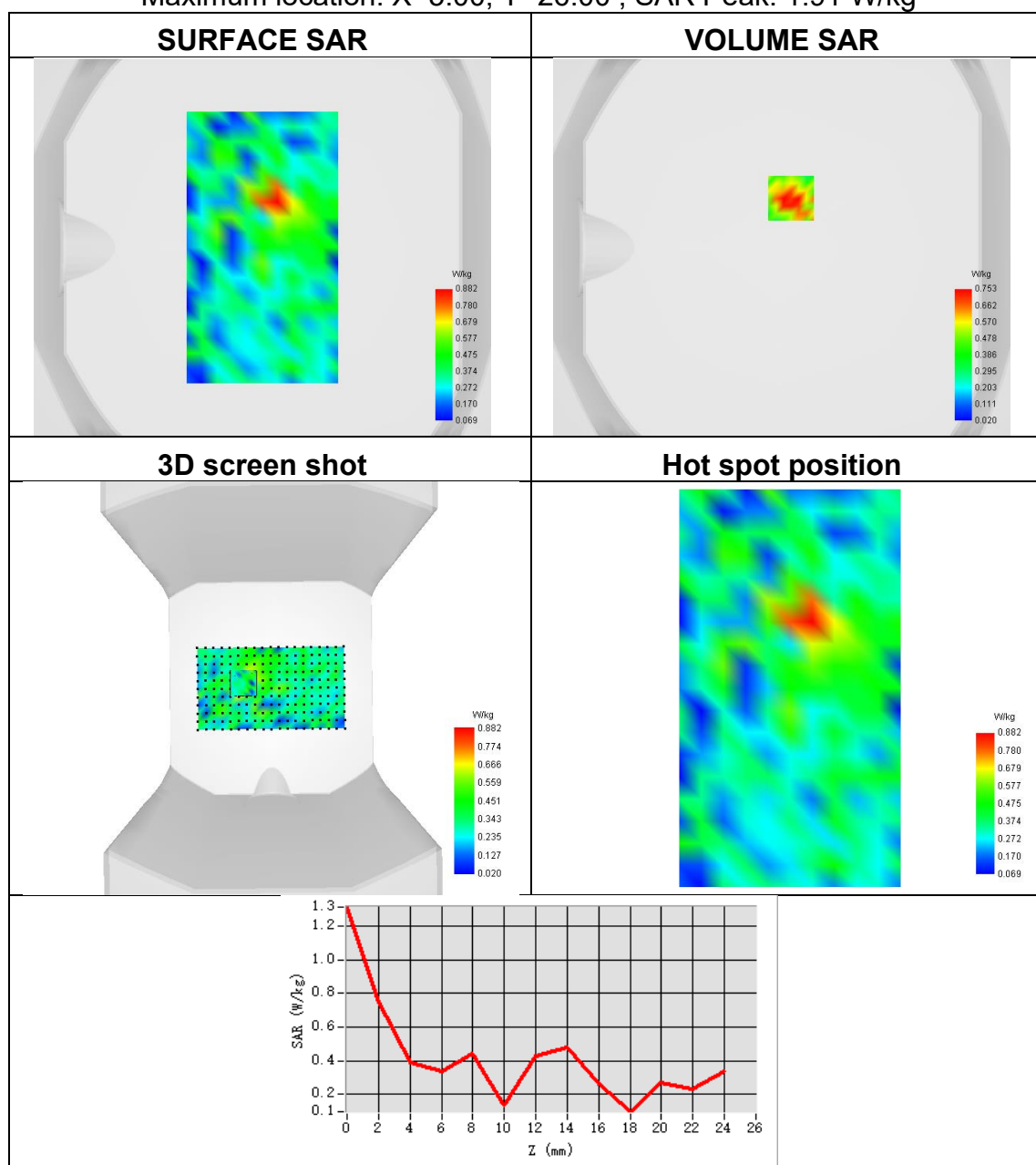




Plot 74:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.293
SAR 1g (W/Kg)	0.582

Maximum location: X=5.00, Y=26.00 ; SAR Peak: 1.91 W/kg

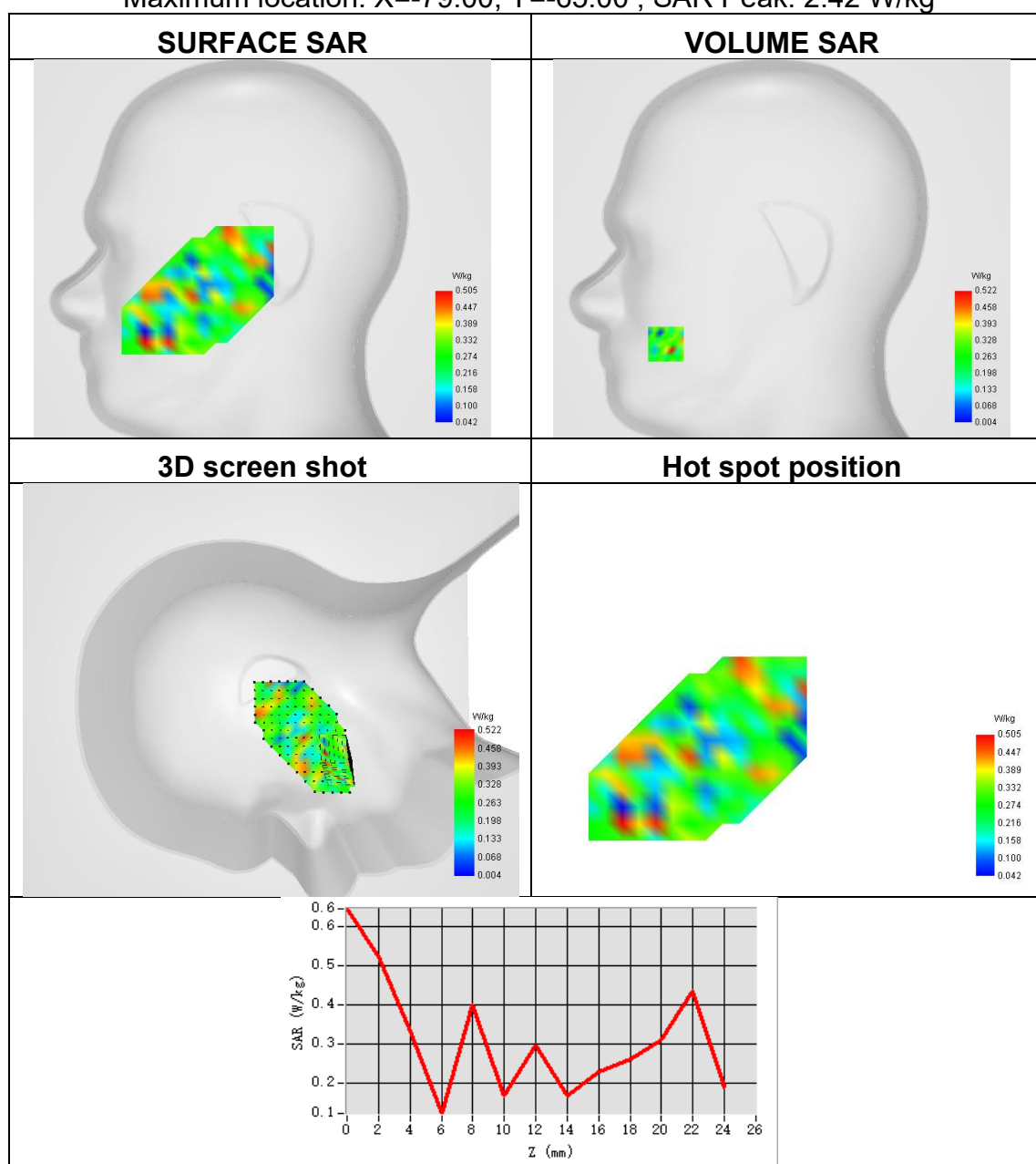




Plot 75:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-2c ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.179
SAR 1g (W/Kg)	0.328

Maximum location: X=-79.00, Y=-65.00 ; SAR Peak: 2.42 W/kg

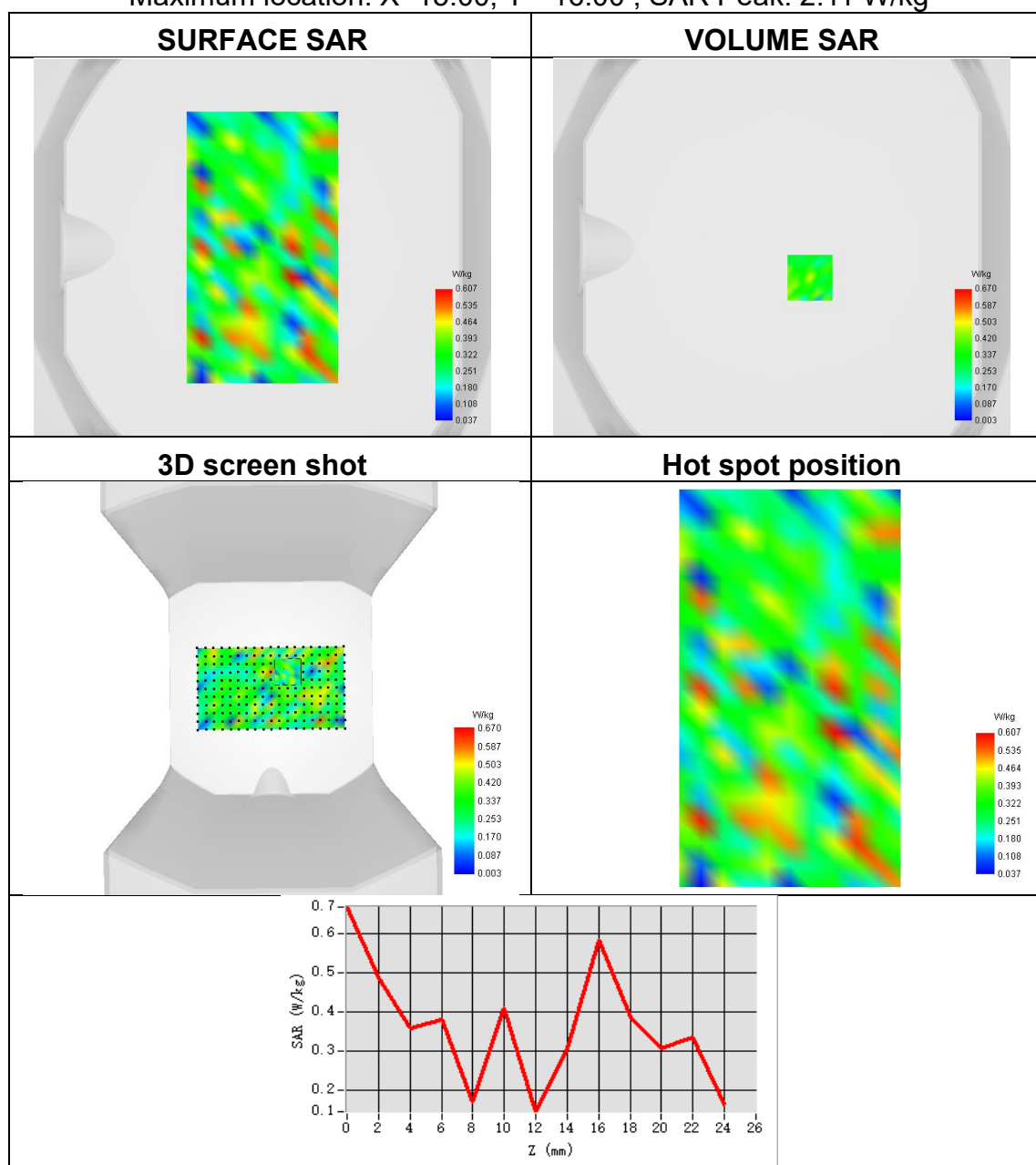




Plot 76:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c ANT 1
Signal	IEEE 802.11a
Frequency	5500
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.361

Maximum location: X=15.00, Y=-16.00 ; SAR Peak: 2.11 W/kg

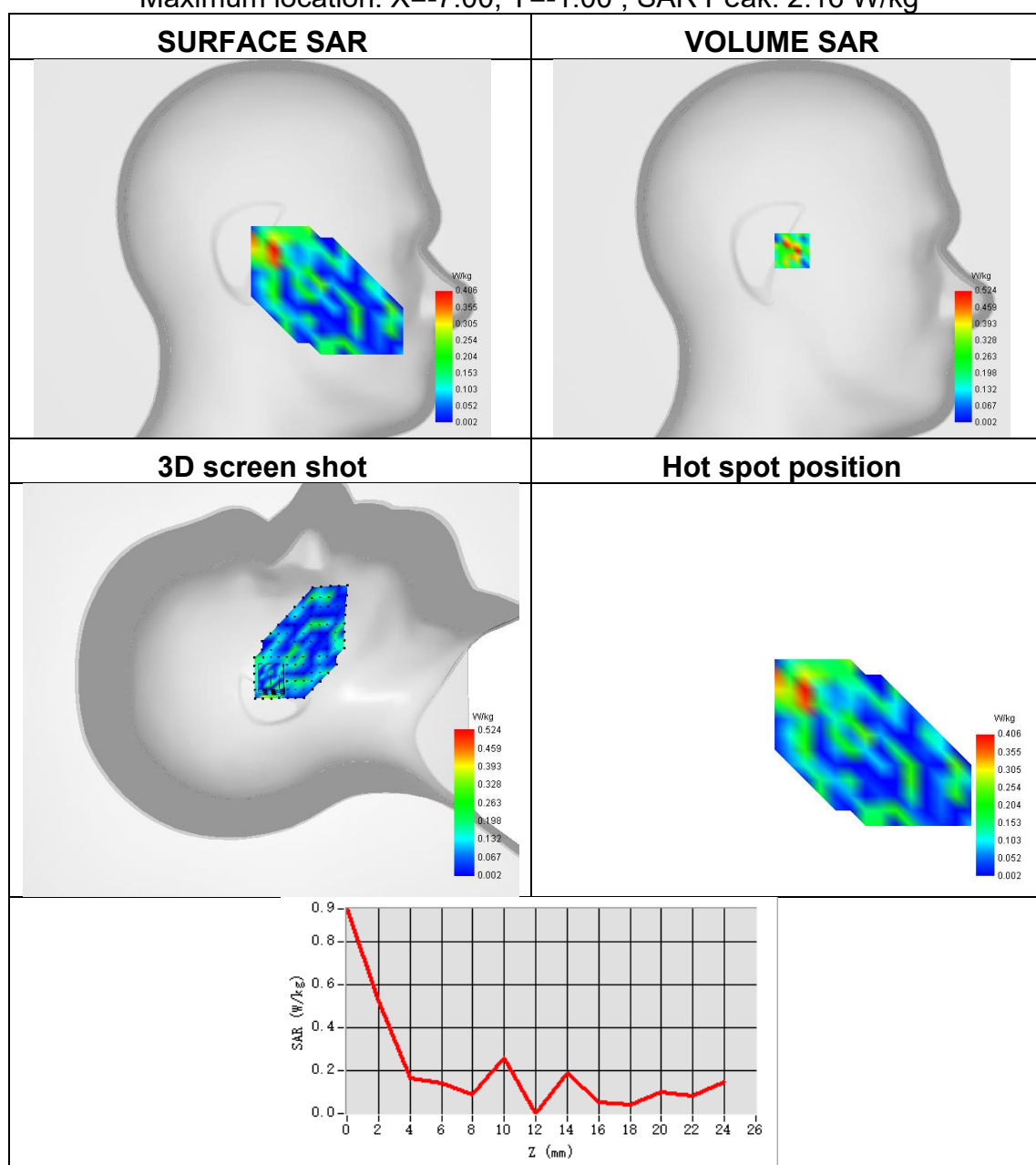




Plot 77:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-2c MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5510
SAR 10g (W/Kg)	0.164
SAR 1g (W/Kg)	0.410

Maximum location: X=-7.00, Y=-1.00 ; SAR Peak: 2.16 W/kg

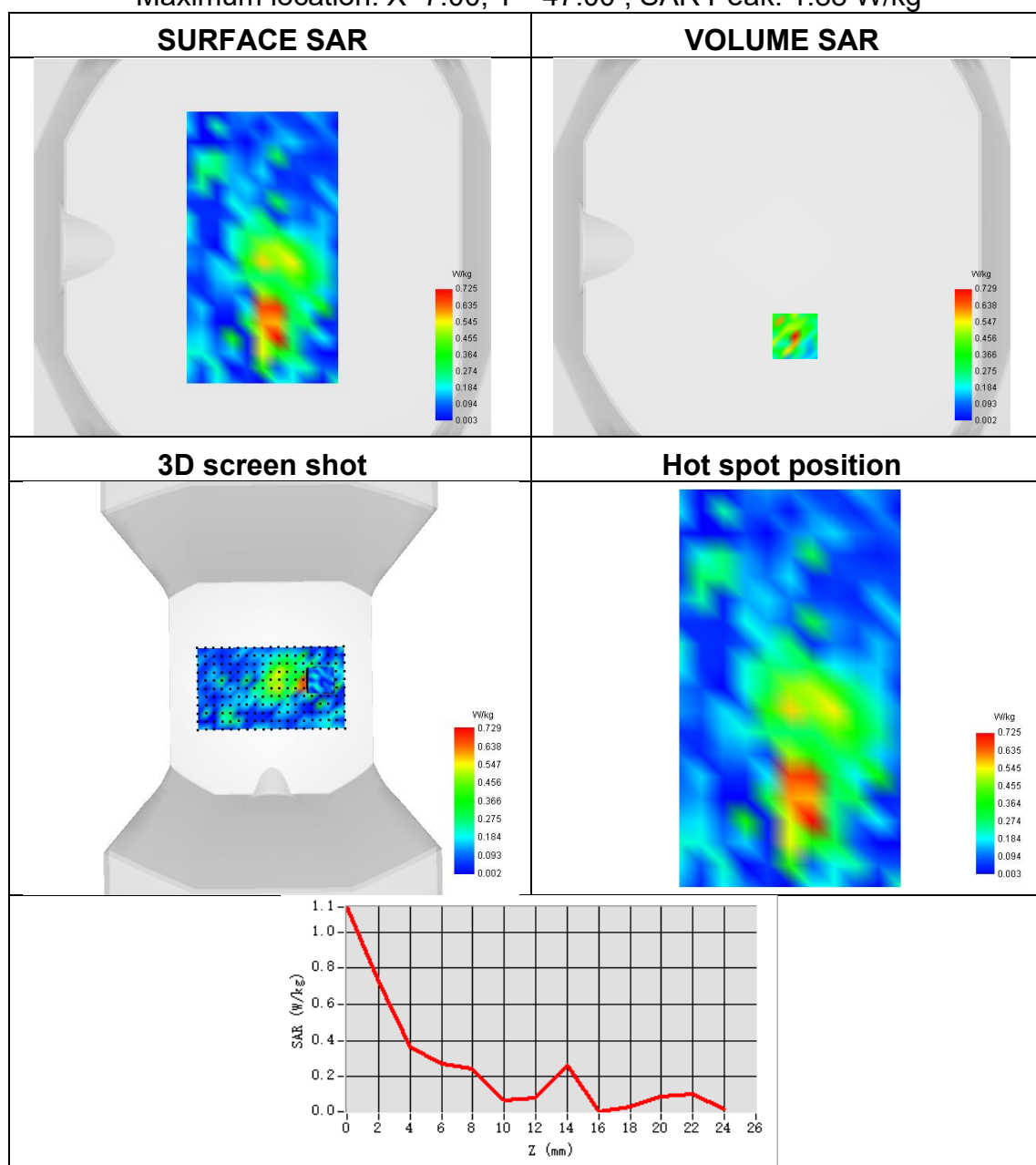




Plot 78:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c MIMO ANT 1
Signal	IEEE 802.11n
Frequency	5510
SAR 10g (W/Kg)	0.144
SAR 1g (W/Kg)	0.377

Maximum location: X=7.00, Y=-47.00 ; SAR Peak: 1.88 W/kg

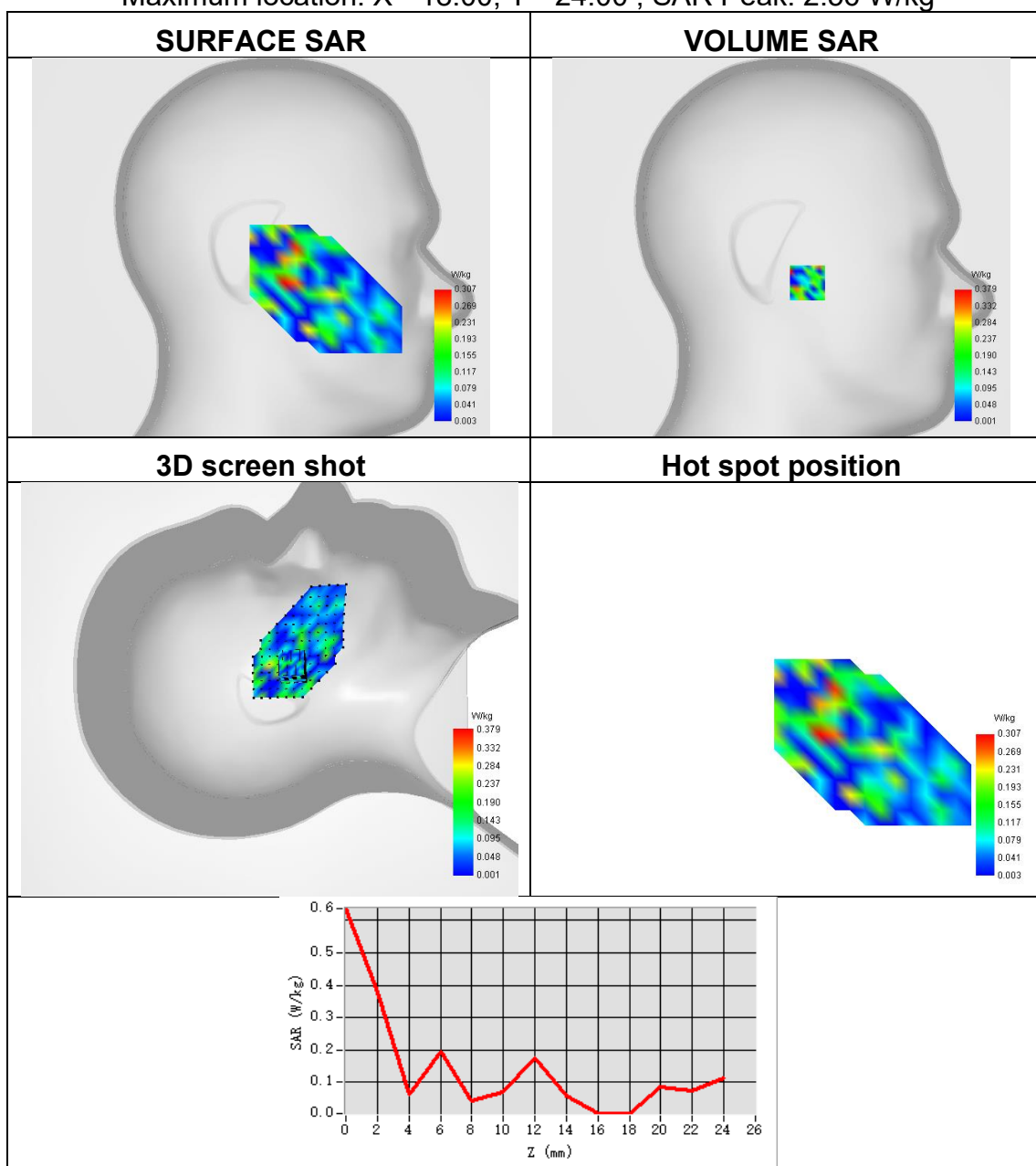




Plot 79:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2c MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5510
SAR 10g (W/Kg)	0.082
SAR 1g (W/Kg)	0.347

Maximum location: X=-18.00, Y=-24.00 ; SAR Peak: 2.56 W/kg

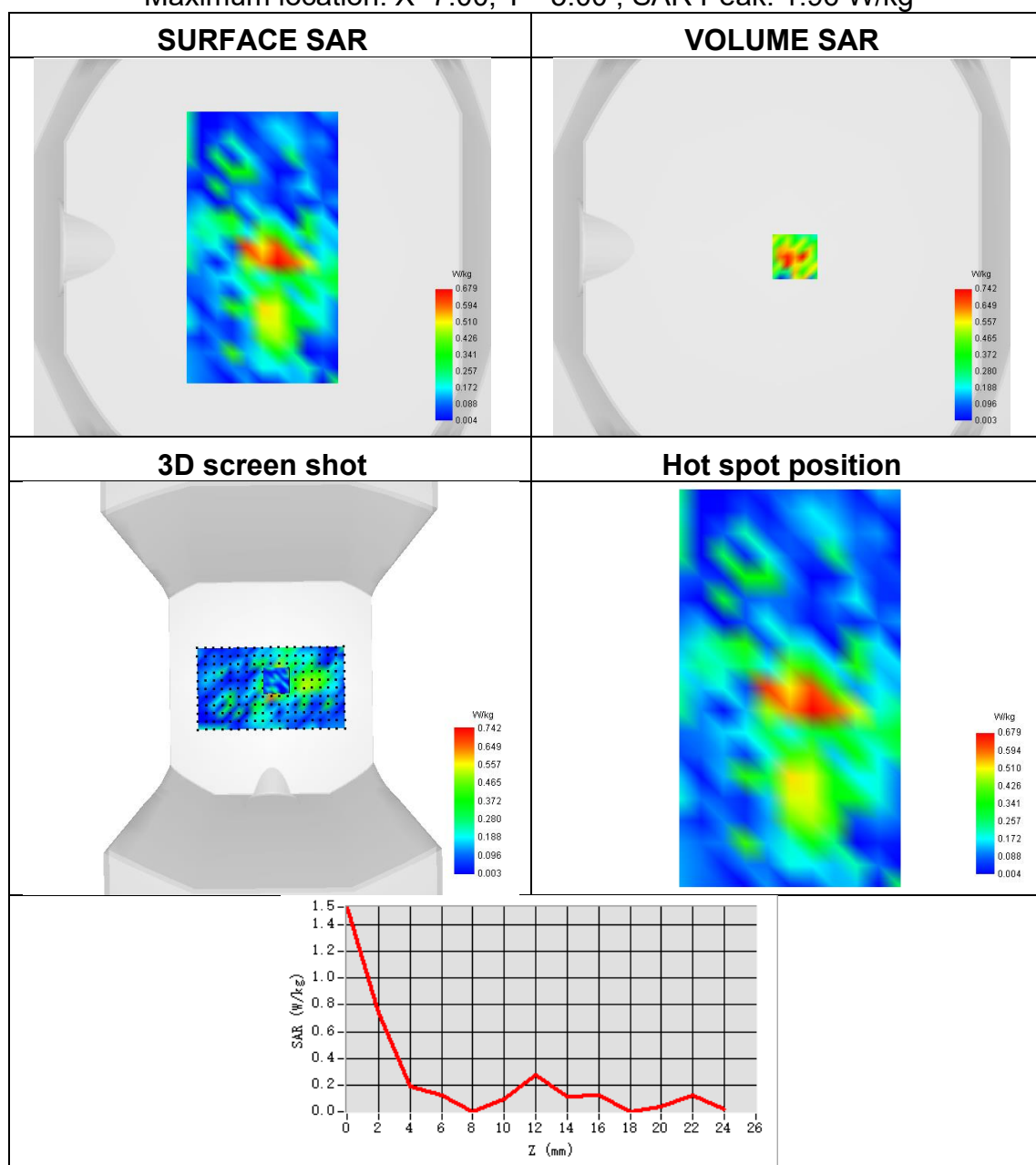




Plot 80:

Test Date	2025-07-19
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-2c MIMO ANT 2
Signal	IEEE 802.11n
Frequency	5510
SAR 10g (W/Kg)	0.154
SAR 1g (W/Kg)	0.391

Maximum location: X=7.00, Y=-5.00 ; SAR Peak: 1.96 W/kg

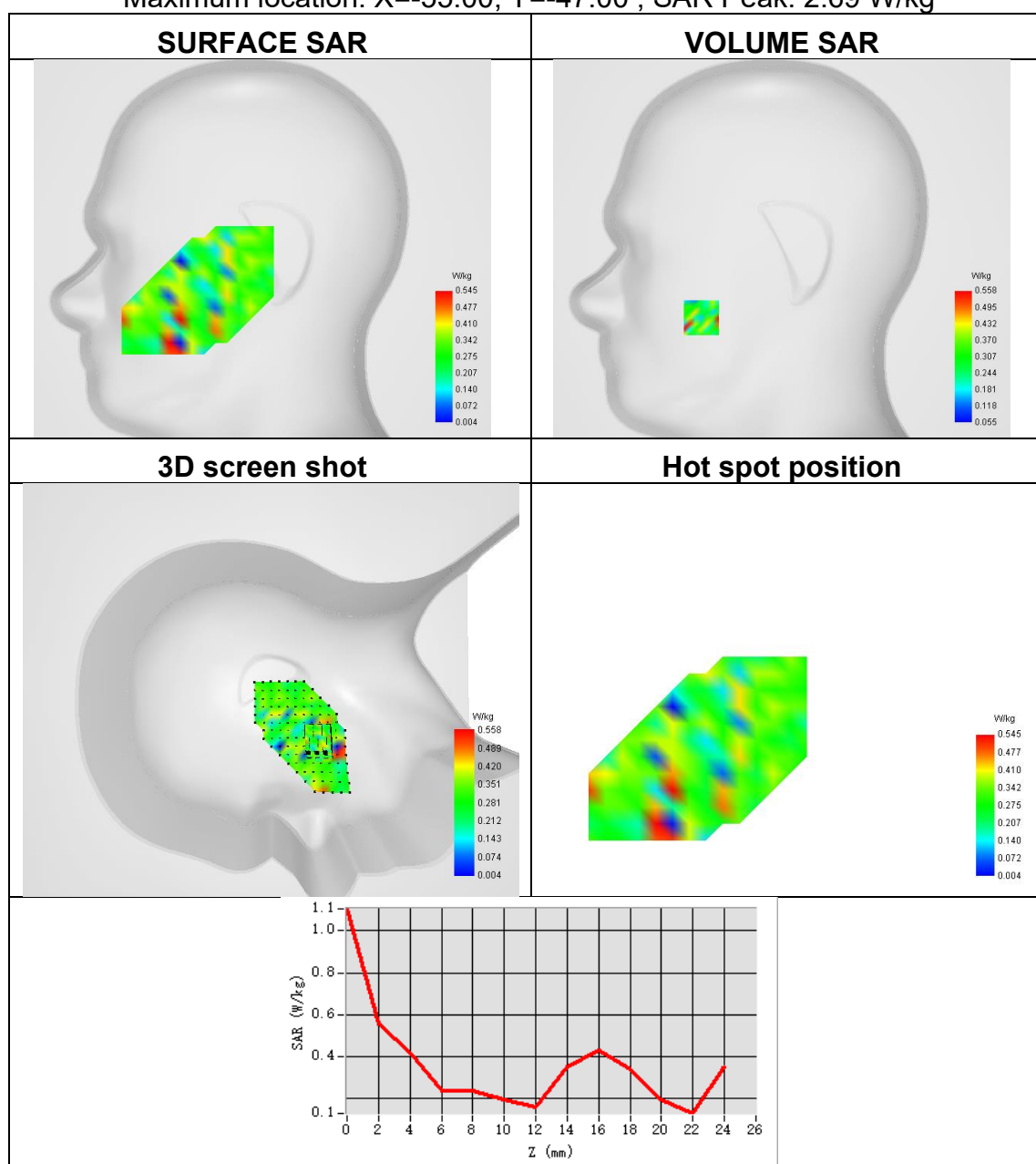




Plot 81:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-3 ANT 1
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.246
SAR 1g (W/Kg)	0.496

Maximum location: X=-55.00, Y=-47.00 ; SAR Peak: 2.69 W/kg

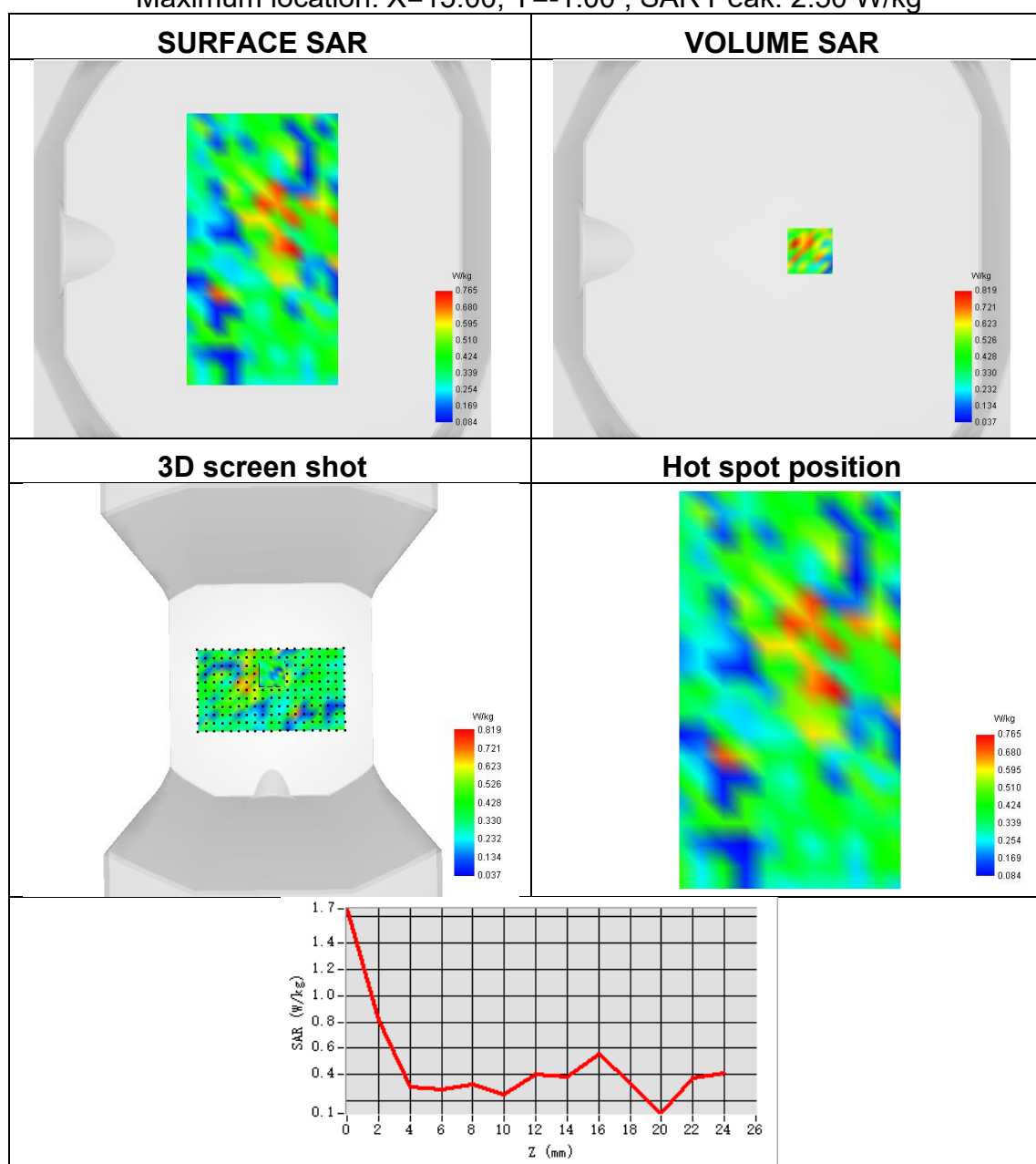




Plot 82:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 ANT 1
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.313
SAR 1g (W/Kg)	0.571

Maximum location: X=15.00, Y=-1.00 ; SAR Peak: 2.50 W/kg

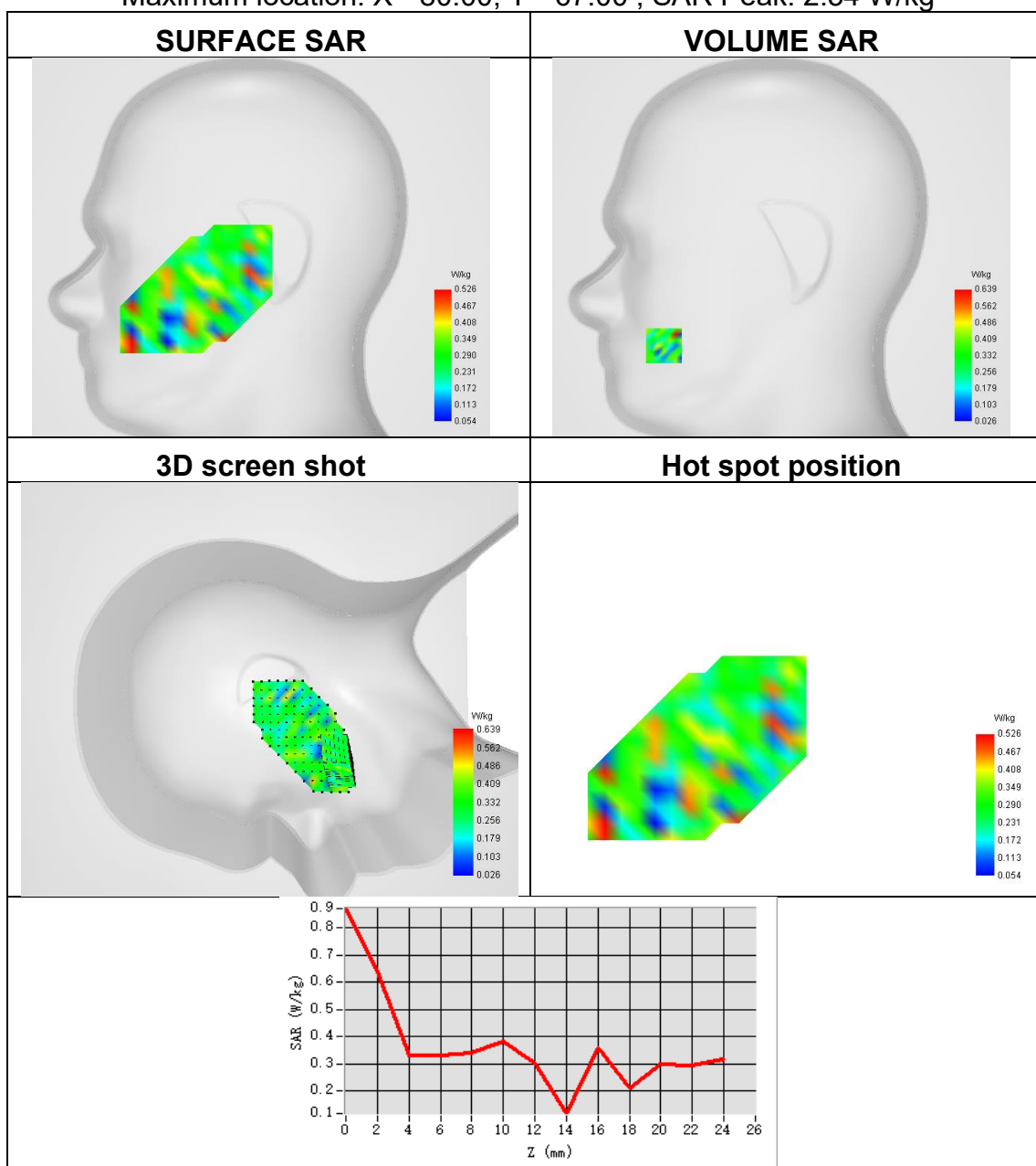




Plot 83:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Right head
Device Position	Tilt
Band	U-NII-3 ANT 2
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.218
SAR 1g (W/Kg)	0.544

Maximum location: X=-80.00, Y=-67.00 ; SAR Peak: 2.54 W/kg

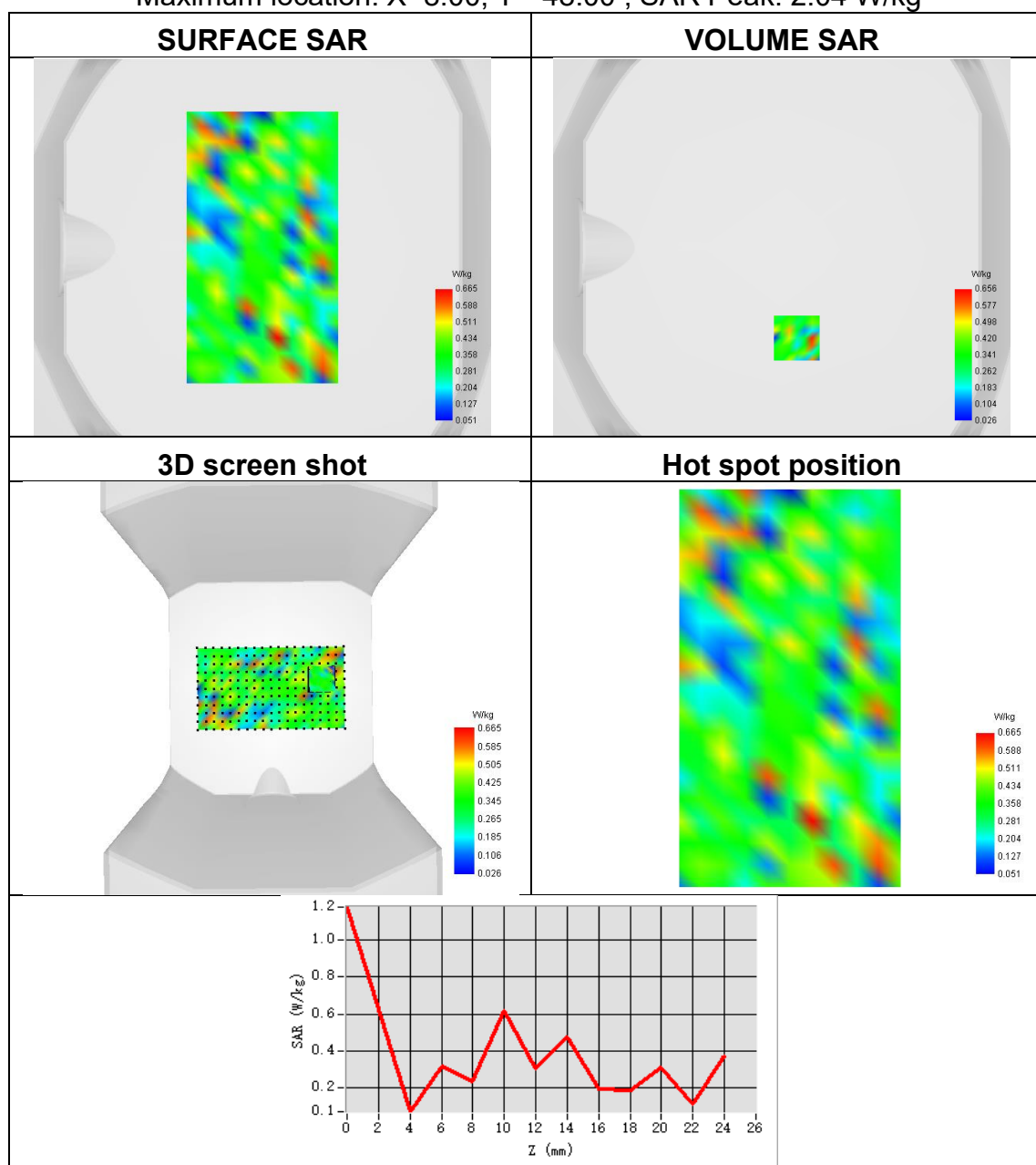




Plot 84:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 ANT 2
Signal	IEEE 802.11a
Frequency	5785
SAR 10g (W/Kg)	0.219
SAR 1g (W/Kg)	0.377

Maximum location: X=8.00, Y=-48.00 ; SAR Peak: 2.04 W/kg

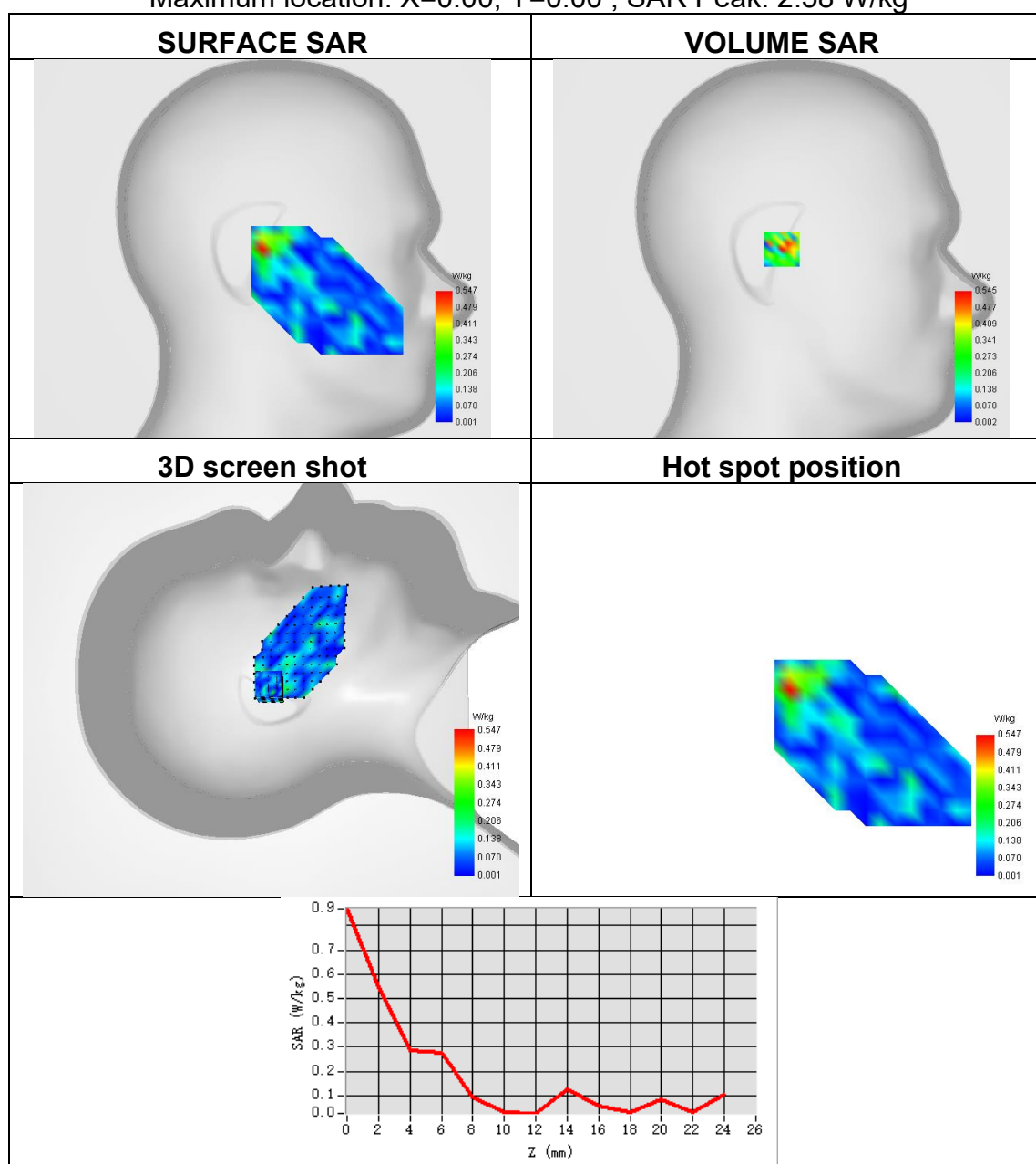




Plot 85:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-3 MIMO ANT 1
Signal	IEEE 802.11ax
Frequency	5775
SAR 10g (W/Kg)	0.173
SAR 1g (W/Kg)	0.412

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 2.58 W/kg

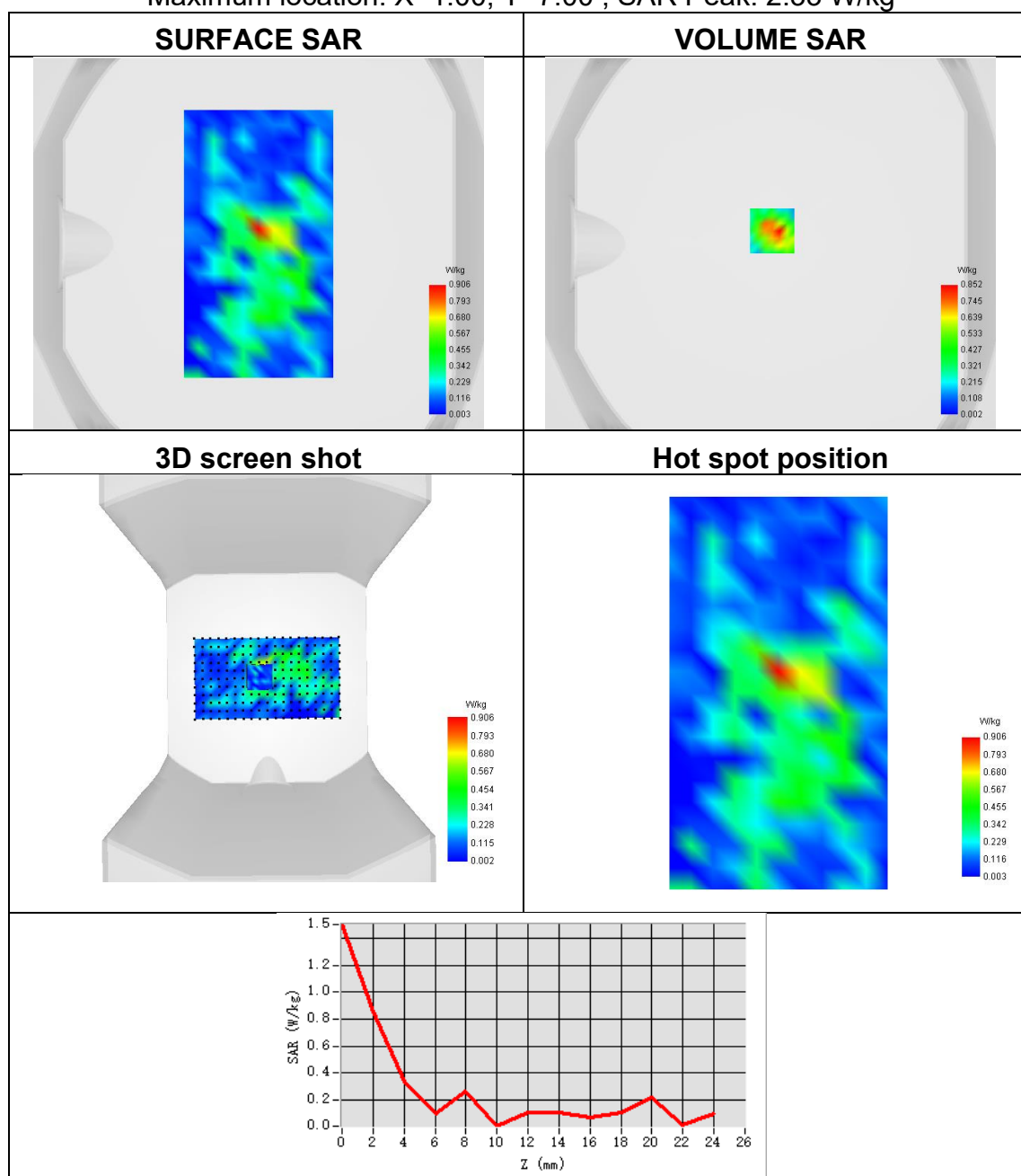




Plot 86:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 MIMO ANT 1
Signal	IEEE 802.11ax
Frequency	5775
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.478

Maximum location: X=1.00, Y=7.00 ; SAR Peak: 2.33 W/kg

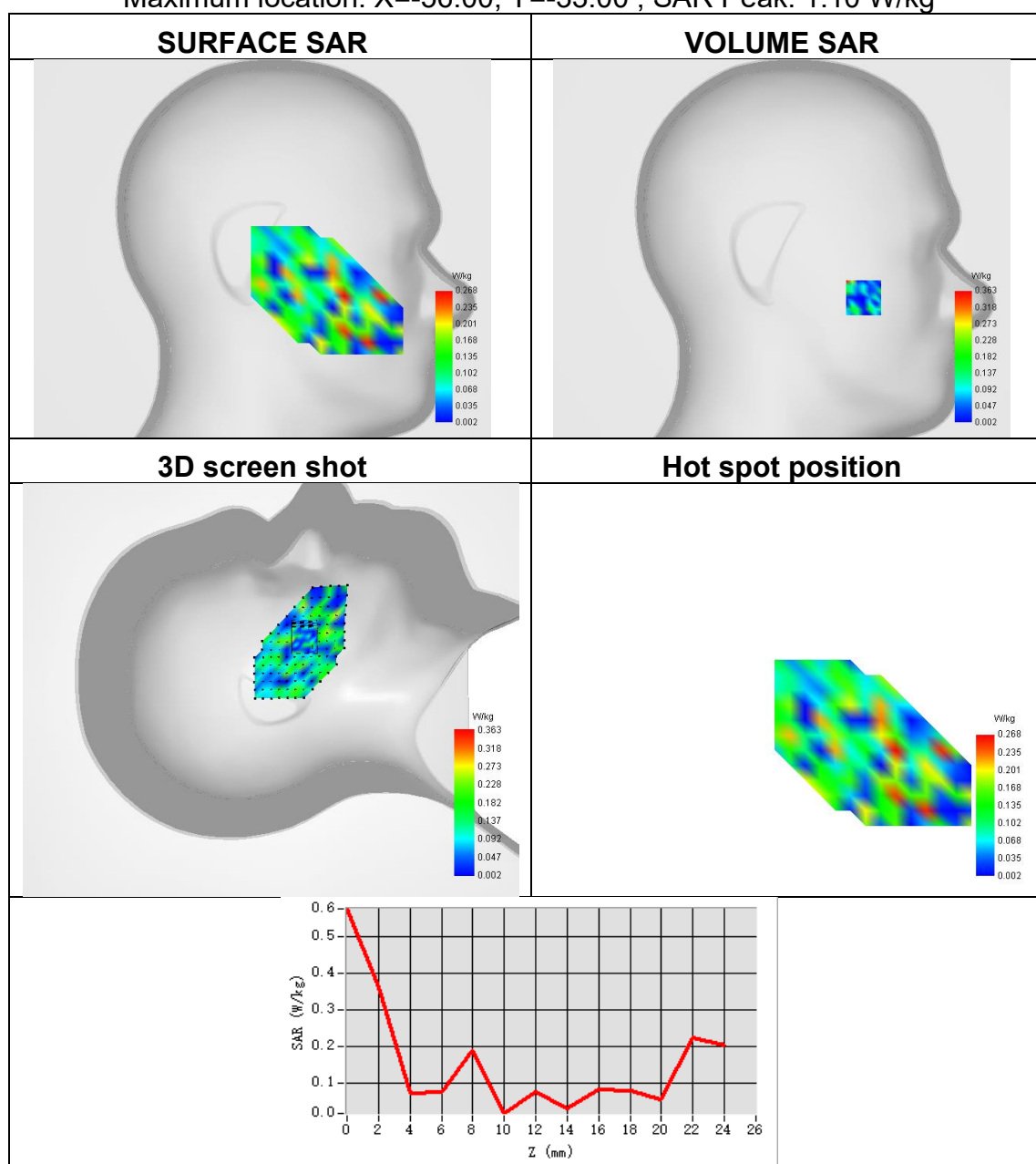




Plot 87:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-3 MIMO ANT 2
Signal	IEEE 802.11ax
Frequency	5775
SAR 10g (W/Kg)	0.033
SAR 1g (W/Kg)	0.126

Maximum location: X=-56.00, Y=-33.00 ; SAR Peak: 1.10 W/kg

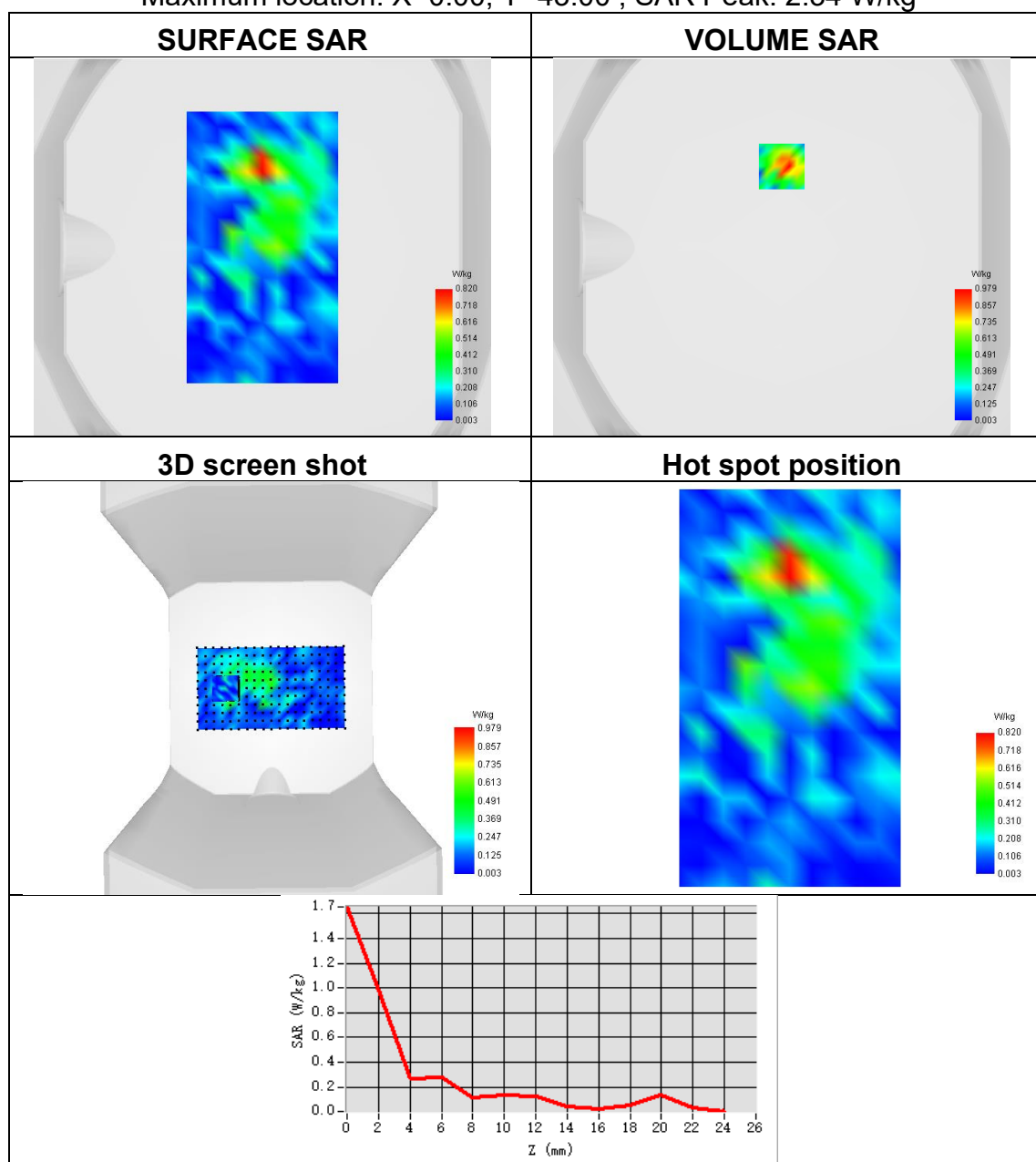




Plot 88:

Test Date	2025-07-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Edge
Band	U-NII-3 MIMO ANT 2
Signal	IEEE 802.11ax
Frequency	5775
SAR 10g (W/Kg)	0.170
SAR 1g (W/Kg)	0.473

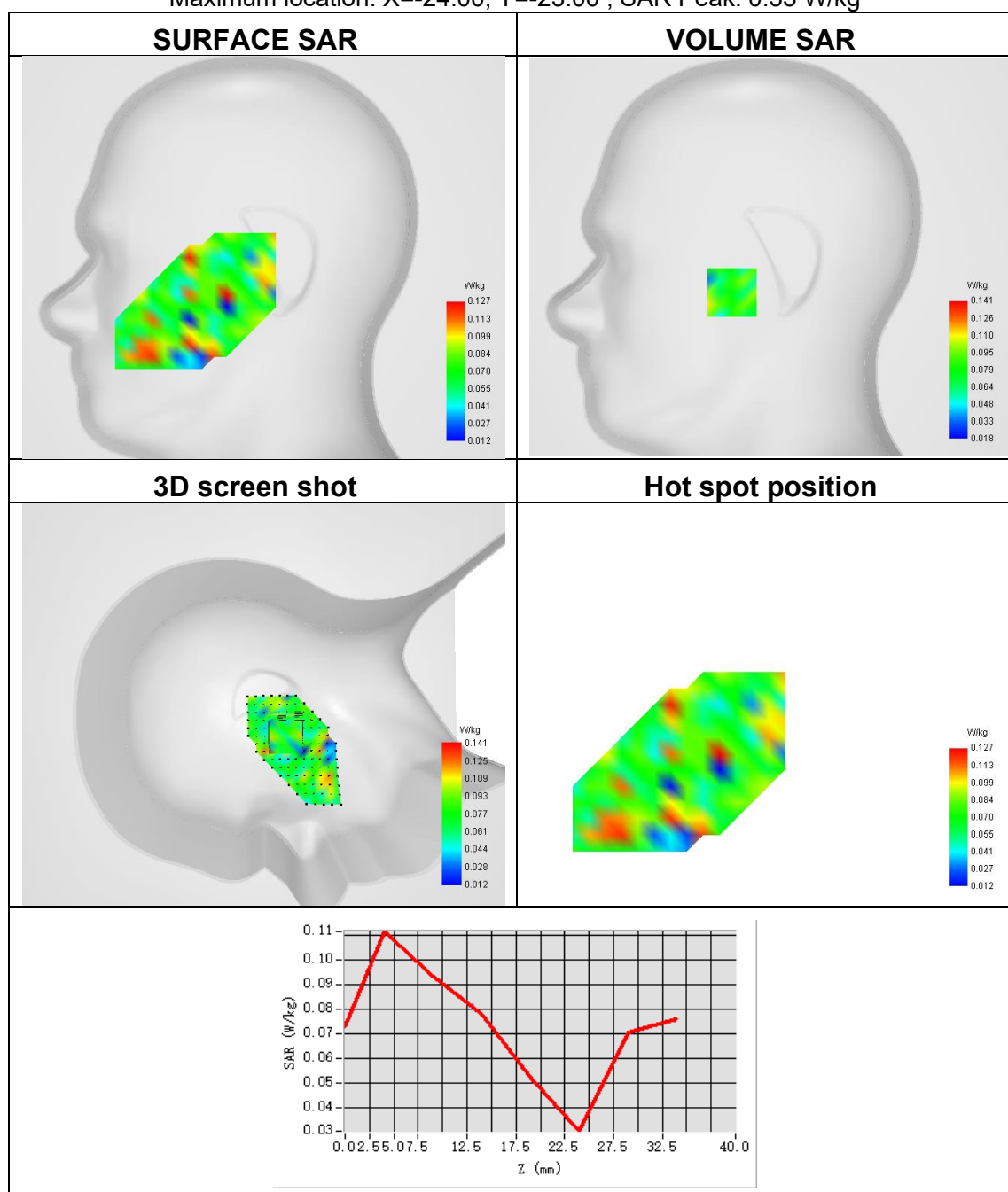
Maximum location: X=0.00, Y=43.00 ; SAR Peak: 2.34 W/kg



Plot 89:

Test Date	2025-07-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Bluetooth
Signal	Bluetooth
Frequency	2441.000
SAR 10g (W/Kg)	0.093
SAR 1g (W/Kg)	0.122

Maximum location: X=-24.00, Y=-23.00 ; SAR Peak: 0.33 W/kg

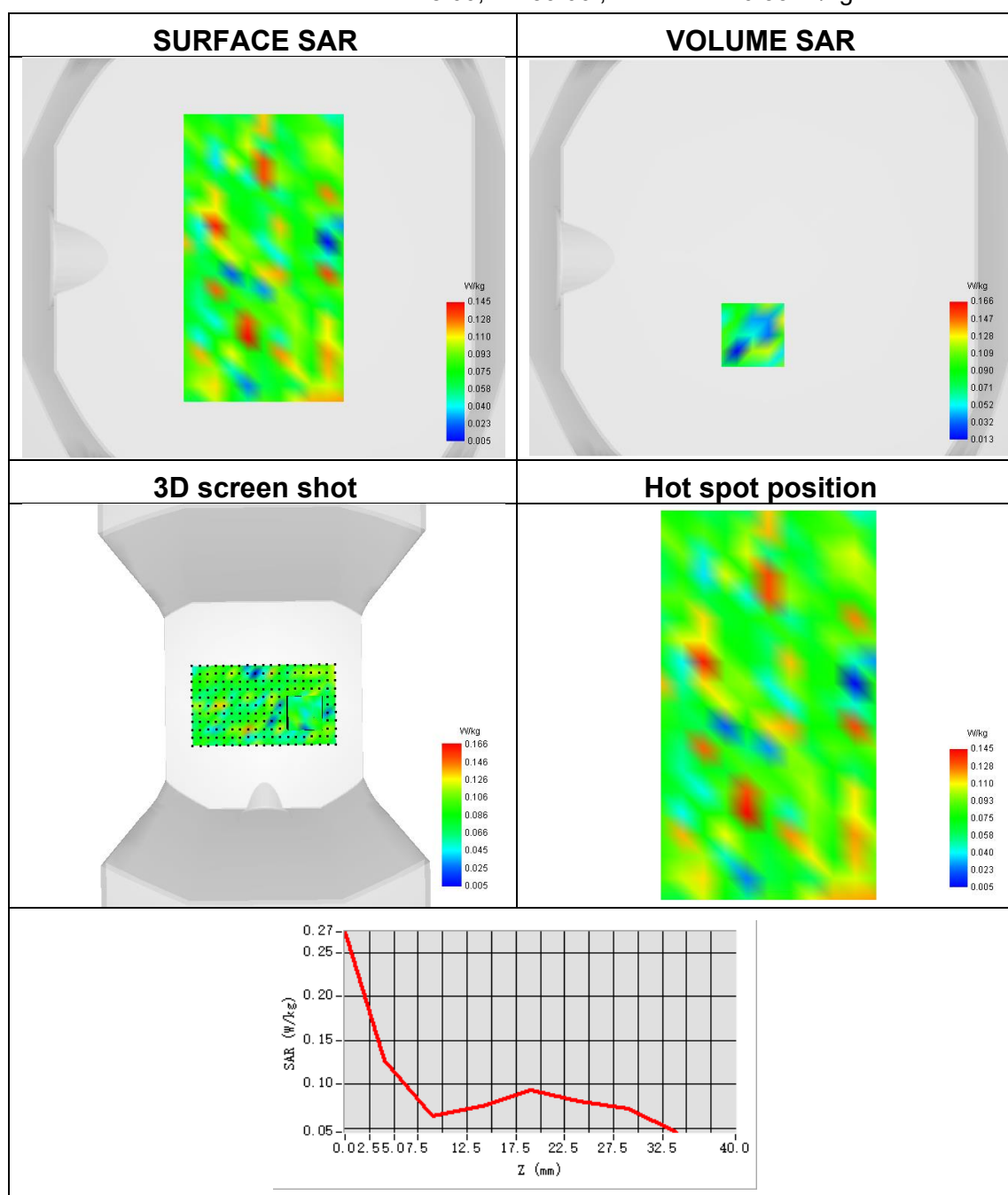




Plot 90:

Test Date	2025-07-13
Area Scan	surf_sam_plan.txt
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Body
Band	Bluetooth
Signal	Bluetooth
Frequency	2441.000
SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.134

Maximum location: X=-8.00, Y=-39.00 ; SAR Peak: 0.33 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※