



SAR TEST REPORT

Product Name: Smart Phone

Model Name: K16

FCC ID: R38YLC PK16

Issued For : Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China

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

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Sample Received Date: Jan. 14, 2025

Date of Test: Jan. 14, 2025 ~ Feb. 20, 2025

Date of Issue: Mar. 05, 2025

Head: 0.757 W/kg

Max. SAR (1g): Body: 1.362 W/kg

Phablet Limb(10g): 3.409 W/kg

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Table of Contents

1. General Information	5
1.1 EUT Description	5
1.2 Test Environment	7
1.3 Test Factory	7
2. Test Standards and Limits	8
3. SAR Measurement System	9
3.1 Definition of Specific Absorption Rate (SAR)	9
3.2 SAR System	9
4. Tissue Simulating Liquids	12
4.1 Simulating Liquids Parameter Check	12
5. SAR System Validation	14
5.1 Validation System	14
5.2 Validation Result	15
6. SAR Evaluation Procedures	16
7. EUT Antenna Location Sketch	17
7.1 SAR test exclusion consider table	18
8. EUT Test Position	24
8.1 Define Two Imaginary Lines on the Handset	24
8.2 Hotspot mode exposure position condition	25
9. Uncertainty	26
9.1 Measurement Uncertainty	26
9.2 System validation Uncertainty	27
10. Conducted Power Measurement	28
10.1 Test Result	28
11. EUT and Test Setup Photo	67
11.1 EUT Photos	67
11.2 Setup Photos	70
12. SAR Result Summary	79
12.1 Head SAR	79
12.2 Body-worn and Hotspot SAR	83
12.3 Phablet Limb SAR	88
12.4 Repeated SAR	89
12.5 Repeated SAR measurement	90
12.6 Simultaneous Multi-band Transmission Evaluation	91
13. Equipment List	94



Appendix A. System Validation Plots	96
Appendix B. SAR Test Plots	126
Appendix C. Probe Calibration and Dipole Calibration Report	176

Revision History

Rev.	Issue Date	Contents
00	Mar. 05, 2025	Initial Issue



TEST REPORT CERTIFICATION

Applicant Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China
Manufacture Yulong Computer Telecommunication Scientific (Shenzhen) Co., Ltd
Address Floor 21, Block A, Coolpad Building, Nanshan District, Shenzhen, China
Product Name Smart Phone
Trademark coolpad
Model Name K16
Sample number LGT2501079-4

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

Prepared by:

Della He

Della He
Engineer

Approved by:

Vita Li

Vita Li
Manager





1. General Information

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

1.1 EUT Description

Product Name	Smart Phone			
Trademark	coolpad			
Model Name	K16			
Series Model	N/A			
Model Difference	N/A			
Device Category	Portable			
Product stage	Production unit			
RF Exposure Environment	General Population / Uncontrolled			
Hardware Version	V1.0			
Software Version	K16.241226.OS.LAM			
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band IV: 1710 ~ 1755 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2: 1850 ~ 1910 MHz LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699 ~ 716 MHz LTE Band 13: 777 ~ 787 MHz LTE Band 17: 704 ~ 716 MHz LTE Band 25: 1850 ~ 1915 MHz LTE Band 26: 814 ~ 824 MHz / 824 ~ 849 MHz LTE Band 38: 2570 ~ 2620 MHz LTE Band 40: 2305 ~ 2315 MHz / 2350 ~ 2360 MHz LTE Band 41: 2496 ~ 2690 MHz LTE Band 66: 1710 ~ 1780 MHz LTE Band 71: 663 ~ 698 MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz WLAN 802.11n40: 2422 MHz ~ 2452 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5150 ~ 5250 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5250 ~ 5350 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5470 ~ 5725 MHz WLAN 802.11a/n20/n40/ac20/ac40/ac80: 5725 ~ 5850 MHz Bluetooth: 2402 ~ 2480 MHz NFC: 13.56 MHz			
Max. Reported SAR(1g): (Limit: 1.6W/kg) Test distance: Head: 0mm Body: 10mm Phablet Limb: 0mm	Mode	Head 1g SAR (W/kg)	Body Worn and Hotspot 1g SAR (W/kg)	Phablet Limb 10g SAR (W/kg)
	GSM 850	0.272	0.370	/
	PCS 1900	0.159	0.438	/
	WCDMA Band II	0.151	0.627	/
	WCDMA Band IV	0.296	1.272	3.409



	WCDMA Band V	0.244	0.281	/
	LTE Band 2	0.184	0.862	/
	LTE Band 4	0.270	1.153	/
	LTE Band 5	0.256	0.338	/
	LTE Band 7	0.171	0.837	/
	LTE Band 12	0.145	0.310	/
	LTE Band 13	0.189	0.240	/
	LTE Band 17	0.185	0.316	/
	LTE Band 25	0.135	0.709	/
	LTE Band 26	0.274	0.300	/
	LTE Band 38	0.080	0.310	/
	LTE Band 40	0.082	0.541	/
	LTE Band 41	0.114	0.327	/
	LTE Band 66	0.210	1.362	2.894
	LTE Band 71	0.241	0.344	/
	2.4G WLAN	0.757	0.214	/
	5.2G WLAN	0.584	0.364	/
	5.3G WLAN	0.591	0.423	/
	5.6G WLAN	0.537	0.390	/
	5.8G WLAN	0.569	0.252	/
	BT ^{Note}	0.188	0.188	/
	NFC ^{Note}	0.0000002	0.0000002	/
Limit (W/kg)		1.6		4
Battery	Rated Voltage:3.85V Capacity: 4900mAh			
Description test modes	SIM 1 and SIM 2 is a chipset unit and tested as single chipset, SIM 1 is used to tested.			
Operating Mode:	GSM: GSM Voice; GPRS/EGPRS Class 12 ¹ WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11n(OFDM): BPSK, QPSK, 16-QAM, 64-QAM 802.11ac (OFDM): BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM Bluetooth: GFSK + π /4DQPSK+8DPSK BLE: GFSK			
Antenna Specification	GSM/WCDMA/LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna			
Operating Mode	Maximum continuous output			
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time			
Hotspot Mode	Support			
DTM Mode	Not Support			
Note 1: The BT and NFC value was Estimated.				



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

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



2. Test Standards and Limits

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

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

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

0.4 8.0 20.0

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

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

0.08 1.6 4.0

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

Population/Uncontrolled Environments:

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

Occupational/Controlled Environments:

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

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



3. SAR Measurement System

3.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

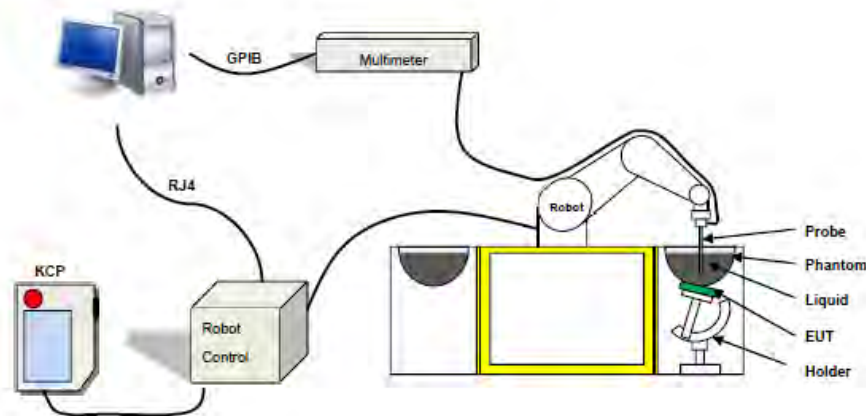
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue;

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

3.2 SAR System

MVG SAR System Diagram:



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

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

The following figure shows the system.



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

3.2.1 Probe

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

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



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

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

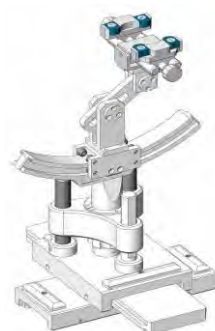


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-01-20	23.7	46	750	23.4	Permittivity	41.90	41.61	-0.69	±5
					Conductivity	0.89	0.87	-2.25	±5
2025-01-15	21.7	40	835	21.4	Permittivity	41.50	42.26	1.83	±5
					Conductivity	0.90	0.89	-1.11	±5
2025-01-17	21.1	46	2600	20.8	Permittivity	39.00	39.19	0.49	±5
					Conductivity	1.96	2.01	2.55	±5
2025-01-15	21.8	42	5200	21.5	Permittivity	36.00	36.84	2.33	±5
					Conductivity	4.66	4.62	-0.86	±5
2025-01-17	24	50	5400	23.6	Permittivity	35.80	36.57	2.15	±5
					Conductivity	4.86	4.85	-0.21	±5
2025-01-20	23.8	51	5600	23.5	Permittivity	35.55	36.68	3.18	±5
					Conductivity	5.07	5.10	0.69	±5
2025-01-15	21.4	56	5800	21.1	Permittivity	35.30	35.94	1.81	±5
					Conductivity	5.27	5.22	-0.95	±5
2025-02-15	21.7	47	750	21.4	Permittivity	41.90	42.65	1.79	±5
					Conductivity	0.89	0.91	2.25	±5
2025-02-12	21.2	54	835	20.9	Permittivity	41.50	42.32	1.98	±5
					Conductivity	0.90	0.89	-1.11	±5
2025-02-13	21.6	42	1800	21.3	Permittivity	40.00	40.33	0.82	±5
					Conductivity	1.40	1.43	2.14	±5
2025-02-14	20.2	46	1800	19.9	Permittivity	40.00	40.67	1.68	±5
					Conductivity	1.40	1.45	3.57	±5
2025-02-11	20.2	51	1900	19.9	Permittivity	40.00	40.96	2.40	±5
					Conductivity	1.40	1.38	-1.43	±5
2025-02-14	23.2	46	2300	22.9	Permittivity	39.47	39.64	0.44	±5
					Conductivity	1.67	1.65	-1.00	±5
2025-02-17	21.5	52	2450	21.2	Permittivity	39.20	39.49	0.74	±5
					Conductivity	1.80	1.79	-0.56	±5
2025-02-17	21.5	50	2600	21.2	Permittivity	39.00	39.65	1.67	±5
					Conductivity	1.96	1.93	-1.53	±5



5.2 Validation Result

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

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2025-01-20	750	100	0.817	8.17	8.27	-1.21	10
2025-01-15	835	100	1.014	10.14	9.75	4.00	10
2025-01-17	2600	100	5.690	56.90	56.58	0.57	10
2025-01-15	5200	100	8.077	80.77	80.97	-0.25	10
2025-01-17	5400	100	8.438	84.38	84.61	-0.27	10
2025-01-20	5600	100	8.129	81.29	80.96	0.41	10
2025-01-15	5800	100	8.172	81.72	81.67	0.06	10
2025-02-15	750	100	0.845	8.45	8.37	0.96	10
2025-02-12	835	100	0.946	9.46	9.73	-2.77	10
2025-02-13	1800	100	3.913	39.13	39.03	0.26	10
2025-02-14	1800	100	3.904	39.04	39.03	0.03	10
2025-02-11	1900	100	4.129	41.29	40.89	0.98	10
2025-02-14	2300	100	4.251	42.51	42.91	-0.93	10
2025-02-17	2450	100	5.420	54.20	54.21	-0.02	10
2025-02-17	2600	100	5.625	56.25	56.56	-0.55	10

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

- Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- Around this point, a cube of 30 * 30 * 30 mm or 32 * 32 * 32 mm is assessed by measuring 5 or 8 * 5 or 8*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

➤ Area Scan & Zoom Scan

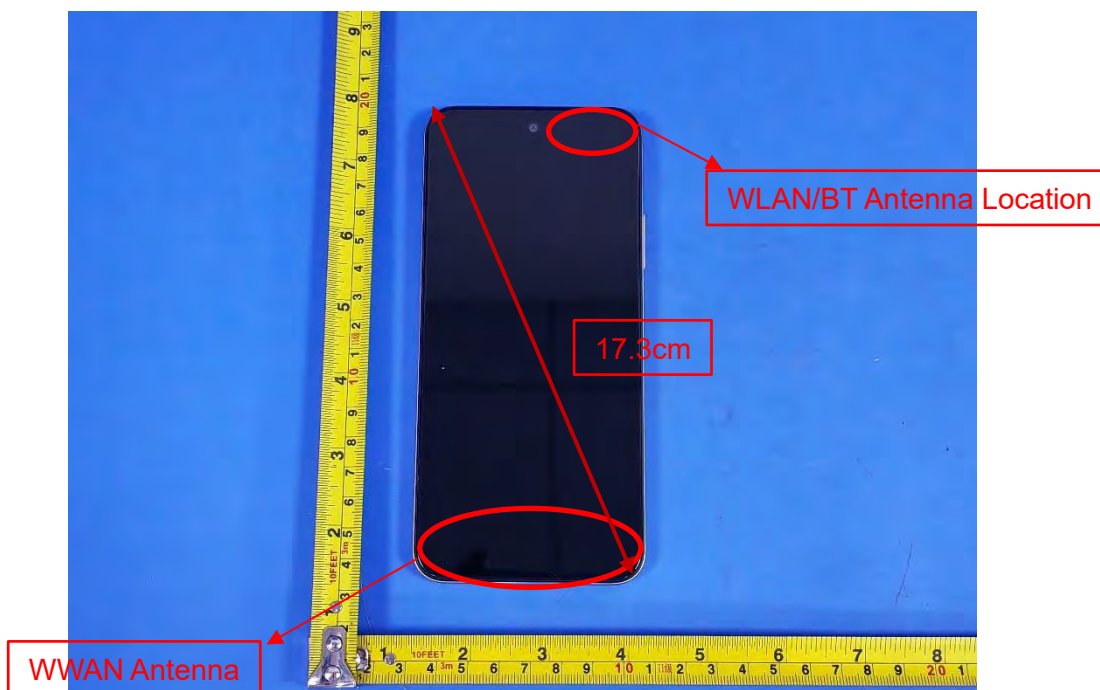
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan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

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

7. EUT Antenna Location Sketch

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

Top side



**Bottom side
(Front view)**

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	≤5	≤5	47	10	≤5	160
WWAN	≤5	≤5	≤5	≤5	152	≤5

Note 1: The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.



7.1 SAR test exclusion consider table

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

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA IV	WCDMA V
	Calculated Frequency (MHz)	836.6	1880	1907.6	1740	846.6
	Maximum Turn-up power (dBm)	34	31	24	24.5	24
	Maximum rated power(mW)	2511.89	1258.93	251.19	281.84	251.19
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.86	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.86	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.86	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	6	5	5	5	5
	exclusion threshold(mW)	19.68	10.94	10.86	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	152	152	152	152	152
	exclusion threshold(mW)	732.88	1129.40	1128.60	1133.71	738.71
	Testing required?	YES	YES	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.40	10.94	10.86	11.37	16.30
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1900	1720	844	2560	711
	Maximum Turn-up power (dBm)	25.5	24.5	25.5	26	25
	Maximum rated power(mW)	354.81	281.84	354.81	398.11	316.23
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	152	152	152	152	152
	exclusion threshold(mW)	1128.82	1134.37	737.20	1113.75	661.37
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.88	11.44	16.33	9.38	17.79
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 17	LTE Band 25	LTE Band 26	LTE Band 38
	Calculated Frequency (MHz)	782	711	1905	819	2595
	Maximum Turn-up power (dBm)	25	25	25	25	25.5
	Maximum rated power(mW)	316.23	316.23	316.23	316.23	354.81
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.57	9.31
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.57	9.31
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.57	9.31
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.57	9.31
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	152	152	152	152	152
	exclusion threshold(mW)	701.38	661.37	1128.68	722.67	1113.12
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	17.79	10.87	16.57	9.31
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 40	LTE Band 41	LTE Band 66	LTE Band 71	BT
	Calculated Frequency (MHz)	2355	2593	1770	642	2441
	Maximum Turn-up power (dBm)	11	25.5	25.5	25	6.5
	Maximum rated power(mW)	12.59	354.81	354.81	316.23	4.47
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.77	9.32	11.27	18.72	9.60
	Testing required?	YES	YES	YES	YES	NO
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.77	9.32	11.27	18.72	9.60
	Testing required?	YES	YES	YES	YES	NO
Left Edge	Separation distance (mm)	5	5	5	5	47
	exclusion threshold(mW)	9.77	9.32	11.27	18.72	90.25
	Testing required?	YES	YES	YES	YES	NO
Right Edge	Separation distance (mm)	5	5	5	5	10
	exclusion threshold(mW)	9.77	9.32	11.27	18.72	19.20
	Testing required?	YES	YES	YES	YES	NO
Top Edge	Separation distance (mm)	152	152	152	152	5
	exclusion threshold(mW)	1117.75	1113.15	1132.75	623.77	9.60
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	160
	exclusion threshold(mW)	9.77	9.32	11.27	18.72	3221.32
	Testing required?	YES	YES	YES	YES	NO



Exposure Position	Wireless Interface	2.4G WLAN	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	2462	5240	5320	5700	5745
	Maximum Turn-up power (dBm)	13.5	8	8.5	9.5	7.5
	Maximum rated power(mW)	22.39	6.31	7.08	8.91	5.62
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.50	6.28	6.26
	Testing required?	YES	NO	YES	YES	NO
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.50	6.28	6.26
	Testing required?	YES	NO	YES	YES	NO
Left Edge	Separation distance (mm)	47	47	47	47	47
	exclusion threshold(mW)	89.86	61.60	61.13	59.06	58.83
	Testing required?	NO	NO	NO	NO	NO
Right Edge	Separation distance (mm)	10	10	10	10	10
	exclusion threshold(mW)	19.12	13.11	13.01	12.57	12.52
	Testing required?	YES	NO	NO	NO	NO
Top Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.56	6.55	6.50	6.28	6.26
	Testing required?	YES	NO	YES	YES	NO
Bottom Edge	Separation distance (mm)	160	160	160	160	160
	exclusion threshold(mW)	3221.32	3221.32	3221.32	3221.32	3221.32
	Testing required?	NO	NO	NO	NO	NO

Note:

1. maximum power is the source-based time-average power and represents the maximum RF output power among production units.
2. per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. per KDB 447498 D01, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <25mm, 25mm is user to determine SAR exclusion threshold
4. per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤ 50 mm are determined by:

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



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

The result is rounded to one decimal place for comparison

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

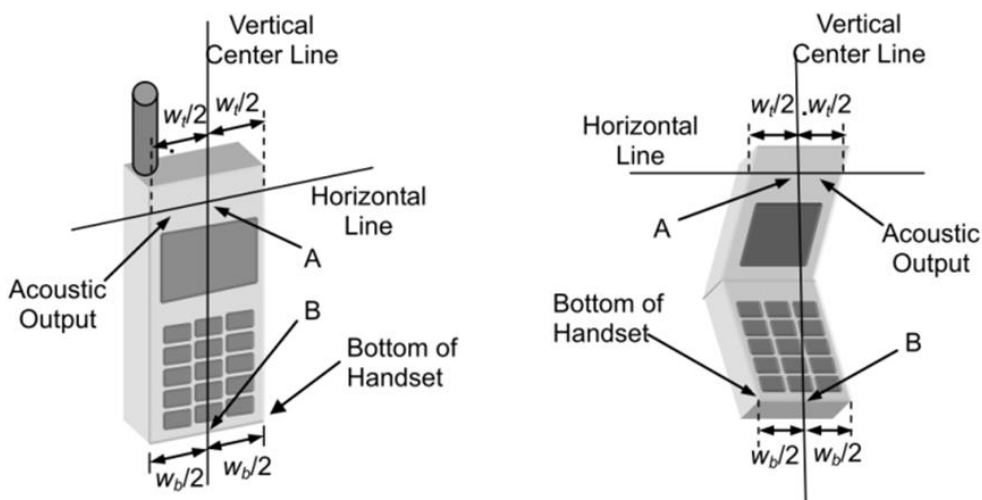
5. per KDB 447498 D01, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following
 - a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]mW, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at > 1500MHz and $\leq 6\text{GHz}$
6. Per KDB 248227 D01, choose the highest output power channel to test SAR and determine further SAR exclusion 8.for each frequency band ,testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode ,thus the SAR can be excluded.

8. EUT Test Position

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

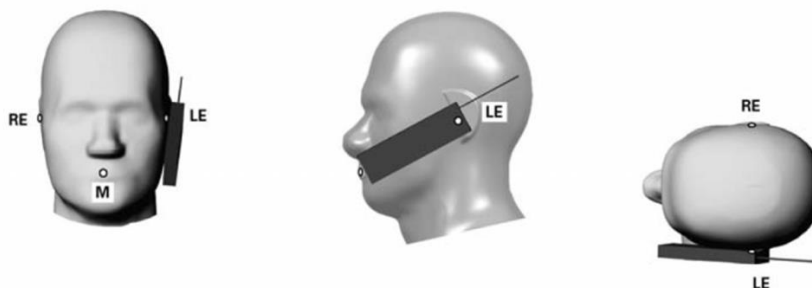
8.1 Define Two Imaginary Lines on the Handset

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



Cheek Position

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





Title Position

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



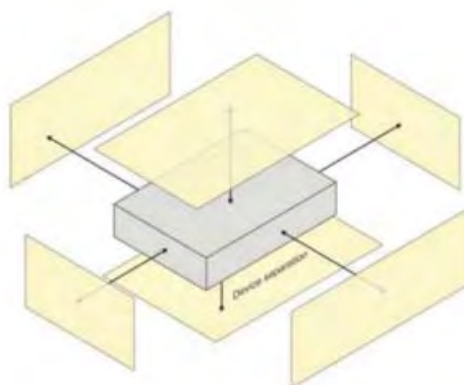
Body-worn Position Conditions:

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



8.2 Hotspot mode exposure position condition

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





9. Uncertainty

9.1 Measurement Uncertainty

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

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



9.2 System validation Uncertainty

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



10. Conducted Power Measurement

10.1 Test Result

Burst Average Power (dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	33.73	33.97	33.75	30.84	30.97	30.91
GPRS (GMSK, 1-Slot)	33.72	33.95	33.8	30.83	30.97	30.89
GPRS (GMSK, 2-Slot)	32.87	33.2	33.01	30.1	30.26	30.17
GPRS (GMSK, 3-Slot)	31.1	31.54	31.33	28.34	28.5	28.41
GPRS (GMSK, 4-Slot)	30.05	30.54	30.3	27.29	27.43	27.36
EGPRS (8PSK, 1-Slot)	33.7	33.96	33.79	26.75	26.84	27.13
EGPRS (8PSK, 2-Slot)	32.88	33.21	33	25.84	26.37	25.85
EGPRS (8PSK, 3-Slot)	31.11	31.54	31.32	23.96	24.38	24.07
EGPRS (8PSK, 4-Slot)	30.07	30.54	30.29	23.03	23.36	23.41
Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme. Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link						

Frame- Average Power(dBm)						
Band	GSM 850			PCS 1900		
Channel	128	190	251	512	661	810
Frequency (MHz)	824.2	836.6	848.8	1850.2	1880.0	1909.8
GSM (GMSK, 1-Slot)	24.70	24.94	24.72	21.81	21.94	21.88
GPRS (GMSK, 1-Slot)	24.69	24.92	24.77	21.80	21.94	21.86
GPRS (GMSK, 2-Slot)	26.85	27.18	26.99	24.08	24.24	24.15
GPRS (GMSK, 3-Slot)	26.84	27.28	27.07	24.08	24.24	24.15
GPRS (GMSK, 4-Slot)	27.04	27.53	27.29	24.28	24.42	24.35
EGPRS (8PSK, 1-Slot)	24.67	24.93	24.76	17.72	17.81	18.10
EGPRS (8PSK, 2-Slot)	26.86	27.19	26.98	19.82	20.35	19.83
EGPRS (8PSK, 3-Slot)	26.85	27.28	27.06	19.70	20.12	19.81
EGPRS (8PSK, 4-Slot)	27.06	27.53	27.28	20.02	20.35	20.40
Remark: 1. SAR testing was performed on the maximum frame-averaged power mode. 2. The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum Burst - averaged power based on time slots. The calculated method is shown as below: Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB						



WCDMA

Band	WCDMA Band 2			WCDMA Band 4			WCDMA Band 5		
Channel	9262	9400	9538	1312	1450	1513	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	1712.6	1740	1752.4	826.4	836.4	846.6
RMC 12.2Kbps	23.65	23.67	23.79	24.25	24.25	24.22	23.31	23.22	23.83
HSDPA Subtest-1	22.81	22.82	22.91	23.33	23.3	23.29	22.34	22.24	22.85
HSDPA Subtest-2	22.4	22.17	22.5	22.95	22.79	22.53	22.02	21.89	22.35
HSDPA Subtest-3	21.2	21.62	21.35	21.46	21.49	21.34	20.95	20.74	21.35
HSDPA Subtest-4	20.84	21.37	20.99	21.87	21.96	21.68	20.47	20.62	21.52
HSUPA Subtest-1	22.22	22.58	22.68	22.34	23.15	23.08	21.35	21.98	22.64
HSUPA Subtest-2	22.69	22.65	22.7	23.18	23.15	23.11	22.18	22.04	22.61
HSUPA Subtest-3	21.22	21.54	21.6	21.51	22.12	21.71	20.8	21.06	21.93
HSUPA Subtest-4	22.7	22.73	22.86	23.33	23.31	23.25	22.33	22.27	22.86
HSUPA Subtest-5	21.44	22.16	21.96	22.13	22.65	22.64	21.04	21.39	22.22

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

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

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

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

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

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

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



2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	12.01	15.89
	6	2437	12.24	16.75
	11	2462	13.48	22.28
802.11g	1	2412	11.68	14.72
	6	2437	10.07	10.16
	11	2462	11.74	14.93
802.11 n-HT20	1	2412	11.54	14.26
	6	2437	10.09	10.21
	11	2462	12.04	16.00
802.11 n-HT40	3	2422	11.84	15.28
	6	2437	11.97	15.74
	9	2452	13.43	22.03

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	1.56	1.43
	39	2441	2.32	1.71
	78	2480	6.19	4.16
$\pi/4$ -QPSK(2Mbps)	0	2402	1.62	1.45
	39	2441	1.58	1.44
	78	2480	5.77	3.78
8DPSK(3Mbps)	0	2402	1.66	1.47
	39	2441	1.61	1.45
	78	2480	5.69	3.71

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-5.87	0.26
	19	2440	-4.73	0.34
	39	2480	-1.86	0.65
GFSK(2Mbps)	0	2404	-5.43	0.29
	19	2440	-4.83	0.33
	39	2478	-1.94	0.64



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	6.3	4.27
	40	5200	7.74	5.94
	48	5240	7.83	6.07
802.11 n-HT20	36	5180	6.14	4.11
	40	5200	5.82	3.82
	48	5240	5.73	3.74
802.11 n-HT40	38	5190	6	3.98
	46	5230	5.89	3.88
802.11ac-VHT20	36	5180	5.91	3.90
	40	5200	5.88	3.87
	48	5240	5.78	3.78
802.11ac-VHT40	38	5190	5.46	3.52
	46	5230	5.38	3.45
802.11ac-VHT80	42	5210	5.49	3.54

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	7.91	6.18
	60	5300	7.93	6.21
	64	5320	8.13	6.50
802.11 n-HT20	52	5260	6.01	3.99
	60	5300	6.11	4.08
	64	5320	6.11	4.08
802.11 n-HT40	54	5270	7.85	6.10
	62	5310	6.13	4.10
802.11ac-VHT20	52	5260	6.07	4.05
	60	5300	6.16	4.13
	64	5320	6.16	4.13
802.11ac-VHT40	54	5270	5.52	3.56
	62	5310	5.7	3.72
802.11ac-VHT80	58	5290	5.4	3.47



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	8.73	7.46
	116	5580	9.05	8.04
	140	5700	9.13	8.18
802.11n-HT20	100	5500	5.87	3.86
	116	5580	6.04	4.02
	140	5700	6.11	4.08
802.11n-HT40	102	5510	5.73	3.74
	110	5550	5.7	3.72
	134	5670	5.94	3.93
802.11ac-VHT20	100	5500	5.88	3.87
	116	5580	6.08	4.06
	140	5700	5.67	3.69
802.11ac-VHT40	102	5510	5.19	3.30
	110	5550	5.53	3.57
	134	5670	5.62	3.65
802.11ac-VHT80	106	5530	5.42	3.48
	122	5610	5.65	3.67

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	7.17	5.21
	157	5785	6.86	4.85
	165	5825	6.54	4.51
802.11 n-HT20	149	5745	6.04	4.02
	157	5785	5.95	3.94
	165	5825	5.62	3.65
802.11 n-HT40	151	5755	5.99	3.97
	159	5795	5.65	3.67
802.11ac-VHT20	149	5745	5.79	3.79
	157	5785	5.09	3.23
	165	5825	5.16	3.28
802.11ac-VHT40	151	5755	5.7	3.72
	159	5795	5.17	3.29
802.11ac-VHT80	155	5775	5.44	3.50

NFC

Field strength(dBuV/m)	ERP(dBm)
51.53	-43.67

Note. The power of this EUT NFC is -43.67dBm (0.00004mW), this power is less than the defined low power exclusion level (Pmax: 39 mW), so NFC is exemption.



LTE Conducted Power

General Note:

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



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.75	24.69	25.01
1.4	1	2		24.95	24.83	25.19
1.4	1	5		24.81	24.63	25.03
1.4	3	0		24.73	24.81	24.97
1.4	3	1		24.75	24.77	25.03
1.4	3	2		24.77	24.79	24.98
1.4	6	0		23.76	23.72	24.02
1.4	1	0	16-QAM	23.79	23.88	23.74
1.4	1	2		23.94	24	23.85
1.4	1	5		23.82	23.81	23.73
1.4	3	0		23.9	23.99	24.11
1.4	3	1		23.94	23.99	24.07
1.4	3	2		23.88	23.97	24.1
1.4	6	0		22.89	22.9	23.16
3	1	0	QPSK	24.52	24.84	24.39
3	1	7		25.13	24.88	24.92
3	1	14		24.9	24.32	24.89
3	8	0		23.84	23.87	23.73
3	8	4		24.02	23.79	23.81
3	8	7		24.17	23.63	23.96
3	15	0		24.01	23.73	23.85
3	1	0	16-QAM	23.75	24.19	23.57
3	1	7		24.3	24.16	24.11
3	1	14		24.21	23.65	23.99
3	8	0		22.89	22.95	22.72
3	8	4		23.11	22.84	22.83
3	8	7		23.23	22.68	22.93
3	15	0		23.02	22.77	22.87



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.66	24.72	24.75
5	1	12		24.99	25.07	25.25
5	1	24		24.75	24.59	24.88
5	12	0		23.69	23.72	23.88
5	12	6		23.85	23.77	24.01
5	12	11		23.8	23.63	23.94
5	25	0		23.76	23.7	23.95
5	1	0	16-QAM	24.15	24.04	24.09
5	1	12		24.52	24.36	24.49
5	1	24		24.19	23.9	24.15
5	12	0		22.7	22.68	22.93
5	12	6		22.78	22.71	23.03
5	12	11		22.77	22.58	22.96
5	25	0		22.74	22.74	22.9
10	1	0	QPSK	24.69	24.86	24.75
10	1	24		24.94	24.89	25.1
10	1	49		24.95	24.6	25.08
10	25	0		23.81	23.81	23.86
10	25	12		23.89	23.76	23.96
10	25	24		23.96	23.68	23.99
10	50	0		23.87	23.73	23.94
10	1	0	16-QAM	24.09	24.04	23.61
10	1	24		24.24	24	23.88
10	1	49		24.32	23.71	23.77
10	25	0		22.82	22.79	22.88
10	25	12		22.89	22.76	22.94
10	25	24		22.96	22.65	23.04
10	50	0		22.86	22.76	22.94



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.63	24.91	24.63
15	1	37		25.16	24.94	25.16
15	1	74		24.96	24.44	25.04
15	36	0		23.9	23.89	23.8
15	36	18		24.04	23.86	23.91
15	36	39		24.1	23.66	24.04
15	75	0		24.03	23.8	23.98
15	1	0	16-QAM	24.02	24.11	23.68
15	1	38		24.48	24.11	24.09
15	1	75		24.4	23.61	24
15	36	0		22.86	22.93	22.76
15	36	18		23	22.85	22.79
15	36	39		23.06	22.69	22.97
15	75	0		22.98	22.75	22.94
20	1	0	QPSK	24.69	24.76	24.98
20	1	49		24.98	25.03	25.33
20	1	99		24.72	24.68	25.1
20	50	0		23.71	23.71	23.96
20	50	24		23.78	23.76	24.02
20	50	49		23.77	23.72	23.97
20	100	0		23.69	23.71	23.94
20	1	0	16-QAM	24.07	23.95	23.77
20	1	49		24.37	24.21	24.08
20	1	99		24.08	23.85	23.79
20	50	0		22.76	22.75	22.91
20	50	24		22.8	22.77	22.96
20	50	49		22.73	22.68	22.94
20	100	0		22.73	22.64	22.98



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.01	23.57	23.78
1.4	1	2		24.12	23.8	23.9
1.4	1	5		23.93	23.56	23.75
1.4	3	0		23.94	23.67	23.81
1.4	3	1		23.9	23.72	23.82
1.4	3	2		23.97	23.67	23.78
1.4	6	0		22.95	22.64	22.81
1.4	1	0	16-QAM	23.12	22.84	22.64
1.4	1	2		23.23	22.94	22.77
1.4	1	5		23.06	22.86	22.59
1.4	3	0		23.18	22.91	22.95
1.4	3	1		23.18	22.93	22.95
1.4	3	2		23.13	22.97	22.99
1.4	6	0		22.1	21.82	21.96
3	1	0	QPSK	23.67	23.36	23.62
3	1	7		23.65	23.83	24.08
3	1	14		23.42	23.83	23.65
3	8	0		22.68	22.56	22.94
3	8	4		22.65	22.71	23.05
3	8	7		22.64	22.88	23.01
3	15	0		22.66	22.7	22.96
3	1	0	16-QAM	23.04	22.62	22.87
3	1	7		23	23.09	23.36
3	1	14		22.78	23.09	22.92
3	8	0		21.74	21.54	22
3	8	4		21.7	21.73	22.09
3	8	7		21.68	21.87	22.09
3	15	0		21.66	21.72	22



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.76	23.53	23.81
5	1	12		24.08	23.9	24.16
5	1	24		23.64	23.63	23.73
5	12	0		22.92	22.64	22.88
5	12	6		22.91	22.7	22.92
5	12	11		22.8	22.73	22.82
5	25	0		22.85	22.68	22.91
5	1	0	16-QAM	23.2	23.1	23.19
5	1	12		23.49	23.48	23.5
5	1	24		23.07	23.24	23.07
5	12	0		21.9	21.63	21.83
5	12	6		21.91	21.72	21.88
5	12	11		21.86	21.72	21.78
5	25	0		21.82	21.64	21.93
10	1	0	QPSK	23.95	23.59	23.95
10	1	24		23.9	23.8	23.97
10	1	49		23.63	23.83	23.77
10	25	0		22.89	22.65	22.98
10	25	12		22.84	22.72	22.97
10	25	24		22.82	22.8	22.95
10	50	0		22.84	22.72	22.95
10	1	0	16-QAM	23.12	22.47	23.41
10	1	24		23.08	22.76	23.44
10	1	49		22.83	22.73	23.22
10	25	0		21.85	21.67	22.01
10	25	12		21.83	21.72	22.01
10	25	24		21.85	21.84	21.99
10	50	0		21.91	21.73	22.01



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.82	23.44	23.94
15	1	37		23.99	23.94	24.23
15	1	74		23.44	23.81	23.77
15	36	0		22.83	22.65	23.02
15	36	18		22.74	22.75	23.01
15	36	39		22.67	22.91	22.97
15	75	0		22.76	22.78	23.02
15	1	0	16-QAM	23.29	22.65	23.02
15	1	38		23.41	23.16	23.27
15	1	75		22.92	23.03	22.85
15	36	0		21.82	21.63	21.96
15	36	18		21.77	21.78	21.96
15	36	39		21.67	21.91	21.93
15	75	0		21.79	21.73	22.02
20	1	0	QPSK	23.98	23.64	23.84
20	1	49		24.24	23.95	24.1
20	1	99		23.9	23.65	23.78
20	50	0		22.91	22.63	22.84
20	50	24		22.91	22.7	22.86
20	50	49		22.87	22.69	22.8
20	100	0		22.88	22.63	22.79
20	1	0	16-QAM	22.87	23.08	23.07
20	1	49		23.17	23.44	23.38
20	1	99		22.73	23.14	23
20	50	0		21.88	21.68	21.89
20	50	24		21.94	21.71	21.92
20	50	49		21.86	21.7	21.82
20	100	0		21.99	21.68	21.76



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.21	24.07	24.72
1.4	1	2		24.37	24.25	24.96
1.4	1	5		24.17	24.16	24.81
1.4	3	0		24.34	24.12	24.75
1.4	3	1		24.32	24.14	24.75
1.4	3	2		24.31	24.16	24.79
1.4	6	0		23.25	23.13	23.81
1.4	1	0	16-QAM	23.46	22.91	23.78
1.4	1	2		23.55	23.02	23.92
1.4	1	5		23.39	22.97	23.79
1.4	3	0		23.52	23.22	23.88
1.4	3	1		23.54	23.26	23.88
1.4	3	2		23.52	23.3	23.87
1.4	6	0		22.52	22.35	22.93
3	1	0	QPSK	24.31	23.96	24.23
3	1	7		24.2	24.19	24.64
3	1	14		24.11	24.34	24.8
3	8	0		23.12	23.07	23.49
3	8	4		23.06	23.13	23.57
3	8	7		23.04	23.27	23.65
3	15	0		23.08	23.18	23.56
3	1	0	16-QAM	23.15	23.32	23.43
3	1	7		22.97	23.63	23.84
3	1	14		22.85	23.79	23.94
3	8	0		22.16	22.11	22.5
3	8	4		22.05	22.16	22.61
3	8	7		22.07	22.32	22.7
3	15	0		22.07	22.17	22.62



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.18	23.92	24.43
5	1	12		24.43	24.35	24.89
5	1	24		23.97	24.09	24.65
5	12	0		23.16	23.02	23.66
5	12	6		23.19	23.12	23.74
5	12	11		23.06	23.12	23.69
5	25	0		23.15	23.11	23.69
5	1	0	16-QAM	23.7	23.18	23.77
5	1	12		23.85	23.73	24.25
5	1	24		23.41	23.46	23.98
5	12	0		22.19	21.98	22.69
5	12	6		22.2	22.08	22.77
5	12	11		22.06	22.09	22.71
5	25	0		22.15	22.14	22.7
10	1	0	QPSK	24.28	24.02	24.7
10	1	24		24.41	24.28	25.03
10	1	49		24.13	24.14	24.91
10	25	0		23.2	23.05	23.68
10	25	12		23.2	23.06	23.74
10	25	24		23.16	23.09	23.72
10	50	0		23.12	23.07	23.69
10	1	0	16-QAM	23.72	23.22	23.56
10	1	24		23.9	23.51	23.92
10	1	49		23.55	23.33	23.58
10	25	0		22.29	22.07	22.69
10	25	12		22.26	22.13	22.78
10	25	24		22.18	22.14	22.75
10	50	0		22.22	22.05	22.77



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.36	24.93	24.8
5	1	12		25.07	24.92	25.3
5	1	24		25.01	24.69	24.94
5	12	0		23.64	23.89	24.03
5	12	6		23.94	23.81	24.07
5	12	11		24.14	23.76	24.02
5	25	0		23.94	23.84	24.03
5	1	0	16-QAM	23.57	24.06	23.84
5	1	12		24.24	24.1	24.31
5	1	24		24.3	23.69	23.98
5	12	0		22.72	22.9	23.02
5	12	6		23.06	22.81	23.03
5	12	11		23.2	22.75	22.98
5	25	0		22.93	22.85	22.96
10	1	0	QPSK	24.57	24.94	25.12
10	1	24		24.89	24.92	25.23
10	1	49		25.03	24.68	25.08
10	25	0		23.61	23.89	24.16
10	25	12		23.72	23.82	24.09
10	25	24		23.91	23.81	24.09
10	50	0		23.73	23.83	24.08
10	1	0	16-QAM	23.31	24.31	24.08
10	1	24		23.64	24.29	24.21
10	1	49		23.74	24.02	24.07
10	25	0		22.63	22.93	23.07
10	25	12		22.69	22.84	23.01
10	25	24		22.91	22.83	23.01
10	50	0		22.7	22.84	23.05



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.56	24.95	24.97
15	1	37		25.14	25.14	25.42
15	1	74		25.2	24.62	25.04
15	36	0		23.74	23.99	24.27
15	36	18		23.98	23.9	24.31
15	36	39		24.16	23.85	24.29
15	75	0		24	23.95	24.27
15	1	0	16-QAM	23.55	24.27	24.02
15	1	38		24.16	24.55	24.32
15	1	75		24.11	23.96	24.01
15	36	0		22.68	22.96	23.16
15	36	18		22.86	22.9	23.2
15	36	39		23.03	22.8	23.14
15	75	0		22.94	22.9	23.12
20	1	0	QPSK	24.39	24.63	25.02
20	1	49		24.82	25.06	25.52
20	1	99		24.55	24.61	25
20	50	0		23.46	23.78	24.05
20	50	24		23.58	23.83	24.07
20	50	49		23.62	23.72	23.99
20	100	0		23.59	23.75	24
20	1	0	16-QAM	23.65	23.95	24.32
20	1	49		24.14	24.21	24.62
20	1	99		23.77	23.87	24.27
20	50	0		22.4	22.79	22.95
20	50	24		22.56	22.81	22.97
20	50	49		22.53	22.72	22.89
20	100	0		22.59	22.73	22.94



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.39	24.18	24.32
1.4	1	2		24.55	24.33	24.56
1.4	1	5		24.36	24.17	24.41
1.4	3	0		24.33	24.27	24.38
1.4	3	1		24.33	24.26	24.41
1.4	3	2		24.32	24.28	24.41
1.4	6	0		23.35	23.27	23.42
1.4	1	0	16-QAM	23.45	23.38	23.16
1.4	1	2		23.58	23.46	23.35
1.4	1	5		23.44	23.41	23.2
1.4	3	0		23.48	23.44	23.47
1.4	3	1		23.47	23.47	23.44
1.4	3	2		23.47	23.5	23.56
1.4	6	0		22.47	22.38	22.55
3	1	0	QPSK	24.33	24.17	24.18
3	1	7		24.39	24.27	24.32
3	1	14		24.34	24.23	24.38
3	8	0		23.32	23.26	23.24
3	8	4		23.27	23.21	23.26
3	8	7		23.3	23.31	23.25
3	15	0		23.31	23.28	23.26
3	1	0	16-QAM	23.17	23.62	23.33
3	1	7		23.22	23.69	23.45
3	1	14		23.15	23.64	23.5
3	8	0		22.26	22.25	22.22
3	8	4		22.25	22.22	22.23
3	8	7		22.24	22.29	22.21
3	15	0		22.24	22.28	22.21



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.2	24.11	24.1
5	1	12		24.56	24.44	24.41
5	1	24		24.15	24.1	24.27
5	12	0		23.24	23.18	23.24
5	12	6		23.31	23.28	23.35
5	12	11		23.25	23.22	23.23
5	25	0		23.23	23.21	23.28
5	1	0	16-QAM	23.51	23.44	23.61
5	1	12		23.83	23.88	24.08
5	1	24		23.46	23.41	23.76
5	12	0		22.11	22.18	22.26
5	12	6		22.21	22.25	22.29
5	12	11		22.18	22.19	22.2
5	25	0		22.24	22.15	22.23
10	1	0	QPSK	24.32	24.26	24.25
10	1	24		24.56	24.54	24.62
10	1	49		24.26	24.29	24.32
10	25	0		23.26	23.2	23.28
10	25	12		23.31	23.27	23.35
10	25	24		23.26	23.23	23.35
10	50	0		23.24	23.19	23.26
10	1	0	16-QAM	23.5	23.1	23.66
10	1	24		23.73	23.35	23.97
10	1	49		23.43	23.08	23.7
10	25	0		22.29	22.17	22.33
10	25	12		22.28	22.2	22.31
10	25	24		22.24	22.18	22.34
10	50	0		22.15	22.24	22.26



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.49	24.24	24.07
5	1	12		24.31	24.46	24.38
5	1	24		24	23.95	23.89
5	12	0		23.22	23.18	23.12
5	12	6		23.29	23.3	23.11
5	12	11		23.17	23.18	23.06
5	25	0		23.16	23.18	23.1
5	1	0	16-QAM	23.81	23.82	23.41
5	1	12		23.76	24.14	23.67
5	1	24		23.41	23.52	23.25
5	12	0		22.23	22.17	22.01
5	12	6		22.23	22.25	22.05
5	12	11		22.17	22.19	21.96
5	25	0		22.15	22.15	22.08
10	1	0	QPSK	/	24.48	/
10	1	24		/	24.86	/
10	1	49		/	24.12	/
10	25	0		/	23.41	/
10	25	12		/	23.49	/
10	25	24		/	23.42	/
10	50	0		/	23.51	/
10	1	0	16-QAM	/	23.69	/
10	1	24		/	24.06	/
10	1	49		/	23.54	/
10	25	0		/	22.42	/
10	25	12		/	22.49	/
10	25	24		/	22.48	/
10	50	0		/	22.41	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.25	24.23	24.27
5	1	12		24.32	24.34	24.47
5	1	24		24.31	24.38	24.55
5	12	0		23.26	23.28	23.26
5	12	6		23.25	23.29	23.3
5	12	11		23.32	23.28	23.29
5	25	0		23.28	23.21	23.26
5	1	0	16-QAM	23.6	23.4	23.12
5	1	12		23.72	23.53	23.3
5	1	24		23.7	23.56	23.32
5	12	0		22.22	22.26	22.25
5	12	6		22.26	22.2	22.26
5	12	11		22.32	22.21	22.3
5	25	0		22.24	22.23	22.22
10	1	0	QPSK	24.17	24.18	24.21
10	1	24		24.54	24.59	24.66
10	1	49		24.22	24.23	24.4
10	25	0		23.26	23.27	23.3
10	25	12		23.34	23.32	23.4
10	25	24		23.31	23.31	23.33
10	50	0		23.31	23.25	23.34
10	1	0	16-QAM	23.5	23.69	23.5
10	1	24		23.98	24.18	23.97
10	1	49		23.5	23.73	23.67
10	25	0		22.25	22.21	22.2
10	25	12		22.32	22.27	22.31
10	25	24		22.28	22.28	22.27
10	50	0		22.25	22.21	22.34



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.18	24.19	24.43
1.4	1	2		24.37	24.4	24.63
1.4	1	5		24.2	24.15	24.42
1.4	3	0		24.25	24.16	24.57
1.4	3	1		24.27	24.18	24.56
1.4	3	2		24.25	24.21	24.54
1.4	6	0		23.2	23.15	23.5
1.4	1	0	16-QAM	23.02	23.3	23.62
1.4	1	2		23.18	23.39	23.78
1.4	1	5		23.05	23.26	23.65
1.4	3	0		23.37	23.38	23.78
1.4	3	1		23.41	23.39	23.77
1.4	3	2		23.4	23.35	23.78
1.4	6	0		22.42	22.38	22.69
3	1	0	QPSK	23.95	24.33	23.91
3	1	7		24.57	24.34	24.5
3	1	14		24.39	23.88	24.29
3	8	0		23.34	23.33	23.3
3	8	4		23.52	23.19	23.4
3	8	7		23.65	23.04	23.36
3	15	0		23.51	23.16	23.31
3	1	0	16-QAM	23.27	23.55	23.17
3	1	7		23.83	23.55	23.78
3	1	14		23.76	23.08	23.56
3	8	0		22.41	22.32	22.41
3	8	4		22.59	22.22	22.46
3	8	7		22.75	22.07	22.46
3	15	0		22.56	22.21	22.36



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24	24.08	24.4
5	1	12		24.46	24.37	24.68
5	1	24		24.13	23.96	24.39
5	12	0		23.11	23.14	23.51
5	12	6		23.27	23.22	23.55
5	12	11		23.26	23.07	23.42
5	25	0		23.2	23.12	23.51
5	1	0	16-QAM	23.37	23.63	23.68
5	1	12		23.78	24.07	24.17
5	1	24		23.44	23.5	23.73
5	12	0		22.17	22.18	22.5
5	12	6		22.32	22.25	22.52
5	12	11		22.24	22.08	22.39
5	25	0		22.16	22.13	22.56
10	1	0	QPSK	24.15	24.35	24.32
10	1	24		24.39	24.3	24.58
10	1	49		24.44	24.1	24.45
10	25	0		23.18	23.22	23.45
10	25	12		23.27	23.16	23.48
10	25	24		23.31	23.05	23.41
10	50	0		23.24	23.15	23.43
10	1	0	16-QAM	23.33	23.18	23.77
10	1	24		23.56	23.13	23.96
10	1	49		23.56	22.86	23.86
10	25	0		22.21	22.21	22.47
10	25	12		22.33	22.19	22.51
10	25	24		22.32	22.07	22.45
10	50	0		22.31	22.18	22.51



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.18	24.28	24.16
15	1	37		24.7	24.35	24.72
15	1	74		24.56	23.89	24.43
15	36	0		23.31	23.3	23.35
15	36	18		23.47	23.25	23.54
15	36	39		23.6	23.09	23.49
15	75	0		23.4	23.19	23.38
15	1	0	16-QAM	23.21	23.74	23.35
15	1	38		23.68	23.86	23.82
15	1	75		23.64	23.34	23.61
15	36	0		22.24	22.31	22.44
15	36	18		22.4	22.27	22.54
15	36	39		22.53	22.08	22.55
15	75	0		22.42	22.19	22.45
20	1	0	QPSK	24.14	24.14	24.54
20	1	49		24.59	24.43	24.88
20	1	99		24.19	24.07	24.58
20	50	0		23.18	23.15	23.49
20	50	24		23.24	23.18	23.55
20	50	49		23.24	23.14	23.49
20	100	0		23.16	23.12	23.48
20	1	0	16-QAM	23.61	23.35	23.36
20	1	49		23.92	23.61	23.64
20	1	99		23.6	23.29	23.37
20	50	0		22.24	22.19	22.54
20	50	24		22.29	22.23	22.59
20	50	49		22.26	22.17	22.52
20	100	0		22.26	22.1	22.59



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.32	24.11	23.71
1.4	1	2		24.49	24.27	23.82
1.4	1	5		24.35	24.07	23.66
1.4	3	0		24.4	24.09	23.77
1.4	3	1		24.41	24.07	23.74
1.4	3	2		24.37	24.04	23.74
1.4	6	0		23.39	23.14	22.77
1.4	1	0	16-QAM	23.2	23.26	22.94
1.4	1	2		23.34	23.37	23.05
1.4	1	5		23.17	23.23	22.9
1.4	3	0		23.53	23.3	23.01
1.4	3	1		23.53	23.32	23.03
1.4	3	2		23.55	23.24	23.02
1.4	6	0		22.57	22.29	21.89
3	1	0	QPSK	24.32	24.23	23.99
3	1	7		24.21	24.42	24.16
3	1	14		23.73	24.02	23.75
3	8	0		23.24	23.18	22.88
3	8	4		23.15	23.17	22.88
3	8	7		23	23.12	22.8
3	15	0		23.1	23.1	22.84
3	1	0	16-QAM	23.79	23.39	22.93
3	1	7		23.65	23.64	22.87
3	1	14		23.23	23.26	22.66
3	8	0		22.29	22.17	21.87
3	8	4		22.14	22.13	21.85
3	8	7		22.03	22.1	21.78
3	15	0		22.11	22.07	21.87



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.3	24.14	23.9
5	1	12		24.45	24.5	24.14
5	1	24		24.05	23.88	23.62
5	12	0		23.35	23.15	23.07
5	12	6		23.38	23.23	22.99
5	12	11		23.22	22.98	22.87
5	25	0		23.33	23.13	22.98
5	1	0	16-QAM	23.84	23.5	23.38
5	1	12		24.1	23.81	23.56
5	1	24		23.61	23.27	23.05
5	12	0		22.35	22.09	22.03
5	12	6		22.36	22.13	21.99
5	12	11		22.22	21.98	21.86
5	25	0		22.26	22.15	21.94
10	1	0	QPSK	/	24.4	/
10	1	24		/	24.58	/
10	1	49		/	24.24	/
10	25	0		/	23.4	/
10	25	12		/	23.42	/
10	25	24		/	23.38	/
10	50	0		/	23.36	/
10	1	0	16-QAM	/	23.9	/
10	1	24		/	24.06	/
10	1	49		/	23.65	/
10	25	0		/	22.42	/
10	25	12		/	22.43	/
10	25	24		/	22.35	/
10	50	0		/	22.36	/



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.64	23.5	24.08
1.4	1	2		23.8	23.68	24.22
1.4	1	5		23.65	23.52	24.09
1.4	3	0		23.71	23.46	24.2
1.4	3	1		23.68	23.46	24.2
1.4	3	2		23.61	23.52	24.21
1.4	6	0		22.65	22.51	23.14
1.4	1	0	16-QAM	22.62	22.66	23.26
1.4	1	2		22.7	22.78	23.44
1.4	1	5		22.52	22.71	23.39
1.4	3	0		22.85	22.69	23.46
1.4	3	1		22.85	22.71	23.45
1.4	3	2		22.87	22.67	23.46
1.4	6	0		21.86	21.68	22.32
3	1	0	QPSK	23.6	23.34	23.29
3	1	7		23.59	23.79	24.15
3	1	14		23.53	23.93	24.19
3	8	0		22.57	22.46	22.67
3	8	4		22.51	22.6	22.88
3	8	7		22.58	22.78	23.03
3	15	0		22.53	22.63	22.89
3	1	0	16-QAM	22.81	22.43	22.8
3	1	7		22.83	23.06	23.66
3	1	14		22.79	23.05	23.66
3	8	0		21.51	21.42	21.67
3	8	4		21.51	21.55	21.88
3	8	7		21.61	21.69	22.01
3	15	0		21.52	21.65	21.85



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.57	23.26	23.93
5	1	12		23.89	23.63	24.41
5	1	24		23.37	23.45	24.17
5	12	0		22.64	22.51	23.12
5	12	6		22.64	22.6	23.23
5	12	11		22.56	22.59	23.17
5	25	0		22.64	22.57	23.21
5	1	0	16-QAM	23	22.64	23.51
5	1	12		23.28	23.25	24.01
5	1	24		22.72	22.94	23.74
5	12	0		21.59	21.54	22.12
5	12	6		21.59	21.61	22.22
5	12	11		21.48	21.63	22.17
5	25	0		21.63	21.52	22.15
10	1	0	QPSK	23.68	23.4	23.64
10	1	24		23.55	23.65	24.05
10	1	49		23.41	23.83	24.23
10	25	0		22.6	22.5	22.97
10	25	12		22.5	22.59	23.03
10	25	24		22.5	22.71	23.11
10	50	0		22.51	22.6	23.03
10	1	0	16-QAM	22.86	22.24	23.16
10	1	24		22.73	22.54	23.54
10	1	49		22.65	22.71	23.7
10	25	0		21.59	21.53	21.99
10	25	12		21.48	21.6	22.04
10	25	24		21.52	21.72	22.15
10	50	0		21.55	21.6	22.02



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.73	23.44	24.1
15	1	37		23.96	23.84	24.47
15	1	74		23.6	23.56	24.24
15	36	0		22.68	22.5	23.16
15	36	18		22.69	22.58	23.21
15	36	39		22.61	22.57	23.28
15	75	0		22.63	22.49	23.16
15	1	0	16-QAM	22.68	22.93	23.31
15	1	38		22.89	23.3	23.76
15	1	75		22.55	23.05	23.42
15	36	0		21.68	21.55	22.19
15	36	18		21.66	21.59	22.24
15	36	39		21.62	21.6	22.22
15	75	0		21.71	21.56	22.15



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.41	24.47	24.51
5	1	12		24.74	24.93	24.66
5	1	24		24.47	24.49	24.18
5	12	0		23.51	23.7	23.59
5	12	6		23.54	23.61	23.53
5	12	11		23.57	23.63	23.41
5	25	0		23.55	23.71	23.57
5	1	0	16-QAM	23.55	23.57	23.74
5	1	12		23.88	24.01	23.87
5	1	24		23.65	23.62	23.38
5	12	0		22.54	22.73	22.57
5	12	6		22.53	22.73	22.55
5	12	11		22.56	22.67	22.43
5	25	0		22.57	22.71	22.49
10	1	0	QPSK	24.66	24.7	24.49
10	1	24		24.73	24.93	24.56
10	1	49		24.6	24.74	24.37
10	25	0		23.6	23.77	23.53
10	25	12		23.57	23.81	23.44
10	25	24		23.57	23.68	23.38
10	50	0		23.46	23.62	23.39
10	1	0	16-QAM	23.74	23.64	23.9
10	1	24		23.82	23.8	23.95
10	1	49		23.69	23.64	23.75
10	25	0		22.57	22.6	22.45
10	25	12		22.58	22.68	22.43
10	25	24		22.46	22.64	22.37
10	50	0		22.54	22.74	22.36



LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.62	24.59	24.6
15	1	37		24.88	24.95	24.73
15	1	74		24.6	24.58	24.28
15	36	0		23.59	23.8	23.48
15	36	18		23.63	23.75	23.55
15	36	39		23.53	23.75	23.46
15	75	0		23.53	23.68	23.51
15	1	0	16-QAM	23.73	24	23.7
15	1	38		23.97	24.35	23.78
15	1	75		23.69	24.03	23.39
15	36	0		22.48	22.79	22.58
15	36	18		22.54	22.68	22.57
15	36	39		22.59	22.61	22.43
15	75	0		22.57	22.69	22.45
20	1	0	QPSK	24.56	24.69	24.33
20	1	49		24.82	25.02	24.62
20	1	99		24.53	24.69	24.25
20	50	0		23.56	23.79	23.36
20	50	24		23.62	23.77	23.46
20	50	49		23.42	23.63	23.39
20	100	0		23.58	23.68	23.34
20	1	0	16-QAM	24.11	23.89	23.62
20	1	49		24.34	24.2	23.87
20	1	99		24.05	23.9	23.56
20	50	0		22.47	22.65	22.31
20	50	24		22.61	22.62	22.44
20	50	49		22.51	22.67	22.31
20	100	0		22.46	22.72	22.27



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	10.2	10.25	10.26
5	1	12		10.58	10.52	10.61
5	1	24		10.3	10.37	10.23
5	12	0		9.29	9.38	9.38
5	12	6		9.39	9.41	9.42
5	12	11		9.34	9.44	9.4
5	25	0		9.37	9.4	9.42
5	1	0	16-QAM	9.81	9.71	9.63
5	1	12		10.19	10	9.96
5	1	24		9.93	9.85	9.62
5	12	0		8.3	8.41	8.46
5	12	6		8.39	8.49	8.55
5	12	11		8.37	8.51	8.44
5	25	0		8.37	8.45	8.4
10	1	0	QPSK	/	10.26	/
10	1	24		/	10.62	/
10	1	49		/	10.32	/
10	25	0		/	9.34	/
10	25	12		/	9.43	/
10	25	24		/	9.37	/
10	50	0		/	9.4	/
10	1	0	16-QAM	/	9.54	/
10	1	24		/	9.89	/
10	1	49		/	9.62	/
10	25	0		/	8.3	/
10	25	12		/	8.37	/
10	25	24		/	8.36	/
10	50	0		/	8.42	/



LTE Band 40 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	10.38	10.41	10.47
5	1	12		10.76	10.66	10.83
5	1	24		10.5	10.55	10.55
5	12	0		9.49	9.45	9.59
5	12	6		9.6	9.5	9.63
5	12	11		9.55	9.57	9.61
5	25	0		9.53	9.49	9.6
5	1	0	16-QAM	10.01	9.45	9.82
5	1	12		10.39	9.79	10.18
5	1	24		10.14	9.68	9.89
5	12	0		8.5	8.48	8.59
5	12	6		8.58	8.52	8.67
5	12	11		8.6	8.58	8.6
5	25	0		8.54	8.56	8.61
10	1	0	QPSK	/	10.47	/
10	1	24		/	10.84	/
10	1	49		/	10.57	/
10	25	0		/	9.54	/
10	25	12		/	9.62	/
10	25	24		/	9.58	/
10	50	0		/	9.58	/
10	1	0	16-QAM	/	9.74	/
10	1	24		/	10.1	/
10	1	49		/	9.83	/
10	25	0		/	8.49	/
10	25	12		/	8.6	/
10	25	24		/	8.57	/
10	50	0		/	8.63	/



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
5	1	0	QPSK	24.21	23.73	24.77	24.29	23.99
5	1	12		24.58	24.10	25.07	24.58	24.19
5	1	24		24.31	23.83	24.78	24.29	23.77
5	12	0		23.25	22.79	23.66	23.20	23.05
5	12	6		23.34	22.89	23.9	23.43	23.1
5	12	11		23.33	22.88	23.69	23.23	22.87
5	25	0		23.27	22.82	23.72	23.26	23.01
5	1	0	16-QAM	23.68	23.22	23.97	23.50	23.29
5	1	12		23.97	23.50	24.24	23.77	23.47
5	1	24		23.74	23.27	23.96	23.48	23.1
5	12	0		22.2	21.76	22.71	22.27	21.96
5	12	6		22.27	21.83	22.79	22.35	22.16
5	12	11		22.25	21.82	22.69	22.24	21.87
5	25	0		22.21	21.77	22.85	22.41	21.95
10	1	0	QPSK	24.29	23.82	24.8	24.31	24.53
10	1	24		24.54	24.07	25.01	24.53	24.41
10	1	49		24.56	24.08	24.86	24.38	23.98
10	25	0		23.3	22.85	23.89	23.42	23.35
10	25	12		23.4	22.94	23.81	23.33	23.24
10	25	24		23.51	23.05	23.79	23.32	23.15
10	50	0		23.44	22.97	23.76	23.29	23.21
10	1	0	16-QAM	23.66	23.20	23.91	23.44	23.42
10	1	24		23.86	23.39	24.1	23.62	23.32
10	1	49		23.88	23.42	23.94	23.47	22.91
10	25	0		22.3	21.87	22.84	22.39	22.34
10	25	12		22.36	21.92	22.84	22.39	22.21
10	25	24		22.48	22.04	22.82	22.38	22.13
10	50	0		22.37	21.93	22.83	22.38	22.17



LTE Band 41 Maximum Average Power [dBm]								
BW [MHz]	RB Size	RB Offset	Mod	Lowest1	Lowest2	Middle	Highest 1	Highest 2
15	1	0	QPSK	24.13	23.66	24.59	24.12	24.74
15	1	37		24.77	24.28	25.07	24.58	24.87
15	1	74		24.79	24.31	24.58	24.09	23.88
15	36	0		23.33	22.87	23.79	23.33	23.72
15	36	18		23.57	23.12	23.84	23.38	23.56
15	36	39		23.82	23.35	23.8	23.34	23.31
15	75	0		23.64	23.18	23.81	23.35	23.54
15	1	0	16-QAM	23.29	22.84	23.73	23.26	23.81
15	1	38		23.84	23.38	24.17	23.69	23.87
15	1	75		23.86	23.39	23.73	23.27	22.99
15	36	0		22.33	21.90	22.79	22.35	22.74
15	36	18		22.58	22.14	22.83	22.39	22.57
15	36	39		22.87	22.43	22.76	22.31	22.34
15	75	0		22.63	22.18	22.81	22.36	22.51
20	1	0	QPSK	24.39	23.92	24.72	24.23	24.75
20	1	49		24.89	24.41	25.1	24.62	24.67
20	1	99		24.91	24.42	24.73	24.25	23.96
20	50	0		23.44	22.98	23.93	23.47	23.77
20	50	24		23.65	23.19	23.91	23.44	23.57
20	50	49		23.85	23.38	23.9	23.43	23.33
20	100	0		23.68	23.22	23.95	23.47	23.51
20	1	0	16-QAM	23.43	22.98	24.12	23.64	23.84
20	1	49		23.87	23.40	24.46	23.98	23.75
20	1	99		23.88	23.41	24.13	23.66	23.07
20	50	0		22.29	21.86	22.9	22.46	22.71
20	50	24		22.5	22.05	22.85	22.40	22.55
20	50	49		22.71	22.27	22.82	22.37	22.27
20	100	0		22.61	22.17	22.8	22.36	22.43



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.25	24.34	24.74
1.4	1	2		24.35	24.42	24.91
1.4	1	5		24.24	24.32	24.73
1.4	3	0		24.31	24.28	24.85
1.4	3	1		24.3	24.29	24.85
1.4	3	2		24.27	24.31	24.85
1.4	6	0		23.27	23.3	23.81
1.4	1	0	16-QAM	23.16	23.44	23.89
1.4	1	2		23.26	23.57	24
1.4	1	5		23.12	23.45	23.91
1.4	3	0		23.44	23.5	23.94
1.4	3	1		23.46	23.53	24.03
1.4	3	2		23.47	23.53	23.99
1.4	6	0		22.46	22.47	22.97
3	1	0	QPSK	24.12	23.92	23.78
3	1	7		24.09	24.45	24.36
3	1	14		23.79	24	24.64
3	8	0		23.03	23.28	23.18
3	8	4		23.01	23.38	23.35
3	8	7		22.98	23.3	23.42
3	15	0		22.99	23.3	23.27
3	1	0	16-QAM	23.39	23.27	23.14
3	1	7		23.41	23.78	23.63
3	1	14		23.08	23.31	23.92
3	8	0		22.03	22.31	22.24
3	8	4		22.01	22.4	22.43
3	8	7		21.97	22.38	22.47
3	15	0		22.01	22.33	22.29



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.2	24.14	24.51
5	1	12		24.4	24.57	25.02
5	1	24		24.04	24.14	24.74
5	12	0		23.23	23.29	23.74
5	12	6		23.26	23.38	23.78
5	12	11		23.18	23.31	23.72
5	25	0		23.23	23.33	23.76
5	1	0	16-QAM	23.56	23.53	24.01
5	1	12		23.86	23.94	24.46
5	1	24		23.41	23.54	24.2
5	12	0		22.17	22.33	22.76
5	12	6		22.21	22.39	22.78
5	12	11		22.15	22.33	22.74
5	25	0		22.27	22.32	22.77
10	1	0	QPSK	24.26	24.27	24.24
10	1	24		24.16	24.51	24.68
10	1	49		23.95	24.31	24.8
10	25	0		23.23	23.34	23.56
10	25	12		23.17	23.33	23.59
10	25	24		23.12	23.36	23.66
10	50	0		23.2	23.36	23.59
10	1	0	16-QAM	23.47	23.15	23.63
10	1	24		23.38	23.33	24.03
10	1	49		23.16	23.12	24.16
10	25	0		22.22	22.35	22.58
10	25	12		22.15	22.35	22.65
10	25	24		22.12	22.37	22.71
10	50	0		22.24	22.34	22.65



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.28	24.14	24.05
15	1	37		24.31	24.52	24.68
15	1	74		23.88	24.14	24.77
15	36	0		23.17	23.36	23.4
15	36	18		23.09	23.4	23.55
15	36	39		23.04	23.37	23.74
15	75	0		23.1	23.36	23.56
15	1	0	16-QAM	23.37	23.61	23.23
15	1	38		23.46	24.14	23.89
15	1	75		22.99	23.62	23.89
15	36	0		22.1	22.37	22.42
15	36	18		22.04	22.39	22.58
15	36	39		21.98	22.36	22.73
15	75	0		22.11	22.36	22.53
20	1	0	QPSK	24.27	24.34	24.72
20	1	49		24.51	24.66	25.05
20	1	99		24.23	24.36	24.81
20	50	0		23.27	23.26	23.81
20	50	24		23.28	23.35	23.83
20	50	49		23.23	23.28	23.82
20	100	0		23.21	23.28	23.75
20	1	0	16-QAM	23.5	23.23	24.09
20	1	49		23.78	23.52	24.33
20	1	99		23.42	23.19	24.16
20	50	0		22.28	22.26	22.81
20	50	24		22.31	22.33	22.87
20	50	49		22.22	22.32	22.83
20	100	0		22.19	22.37	22.83



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.3	24.14	24.34
5	1	12		24.62	24.52	24.73
5	1	24		24.18	24.26	24.33
5	12	0		23.34	23.22	23.42
5	12	6		23.38	23.27	23.48
5	12	11		23.34	23.29	23.46
5	25	0		23.36	23.25	23.45
5	1	0	16-QAM	23.77	23.44	23.63
5	1	12		24.14	23.82	24.22
5	1	24		23.7	23.56	23.62
5	12	0		22.33	22.17	22.33
5	12	6		22.38	22.29	22.42
5	12	11		22.34	22.22	22.38
5	25	0		22.33	22.34	22.38
10	1	0	QPSK	24.39	24.22	24.41
10	1	24		24.36	24.45	24.62
10	1	49		24.16	24.51	24.48
10	25	0		23.27	23.23	23.58
10	25	12		23.26	23.26	23.52
10	25	24		23.29	23.44	23.56
10	50	0		23.27	23.37	23.52
10	1	0	16-QAM	23.52	22.99	23.8
10	1	24		23.49	23.26	23.99
10	1	49		23.34	23.28	23.82
10	25	0		22.3	22.32	22.52
10	25	12		22.26	22.31	22.52
10	25	24		22.33	22.46	22.59
10	50	0		22.3	22.39	22.5



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.21	23.91	23.91
15	1	37		24.37	24.39	24.58
15	1	74		24.28	24.44	24.32
15	36	0		23.05	23.2	23.33
15	36	18		23.16	23.31	23.5
15	36	39		23.26	23.42	23.55
15	75	0		23.09	23.3	23.4
15	1	0	16-QAM	23.4	23.14	23.24
15	1	38		23.53	23.59	23.87
15	1	75		23.45	23.63	23.61
15	36	0		22	22.28	22.44
15	36	18		22.18	22.41	22.49
15	36	39		22.27	22.45	22.55
15	75	0		22.16	22.34	22.38
20	1	0	QPSK	24.3	24.04	24.31
20	1	49		24.36	24.59	24.86
20	1	99		24.18	24.49	24.52
20	50	0		23.19	23.25	23.52
20	50	24		23.28	23.38	23.57
20	50	49		23.21	23.5	23.6
20	100	0		23.22	23.33	23.58
20	1	0	16-QAM	23.7	23.2	23.33
20	1	49		23.81	23.65	23.92
20	1	99		23.61	23.64	23.55
20	50	0		22.22	22.33	22.47
20	50	24		22.26	22.41	22.49
20	50	49		22.26	22.54	22.51
20	100	0		22.23	22.39	22.54



11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

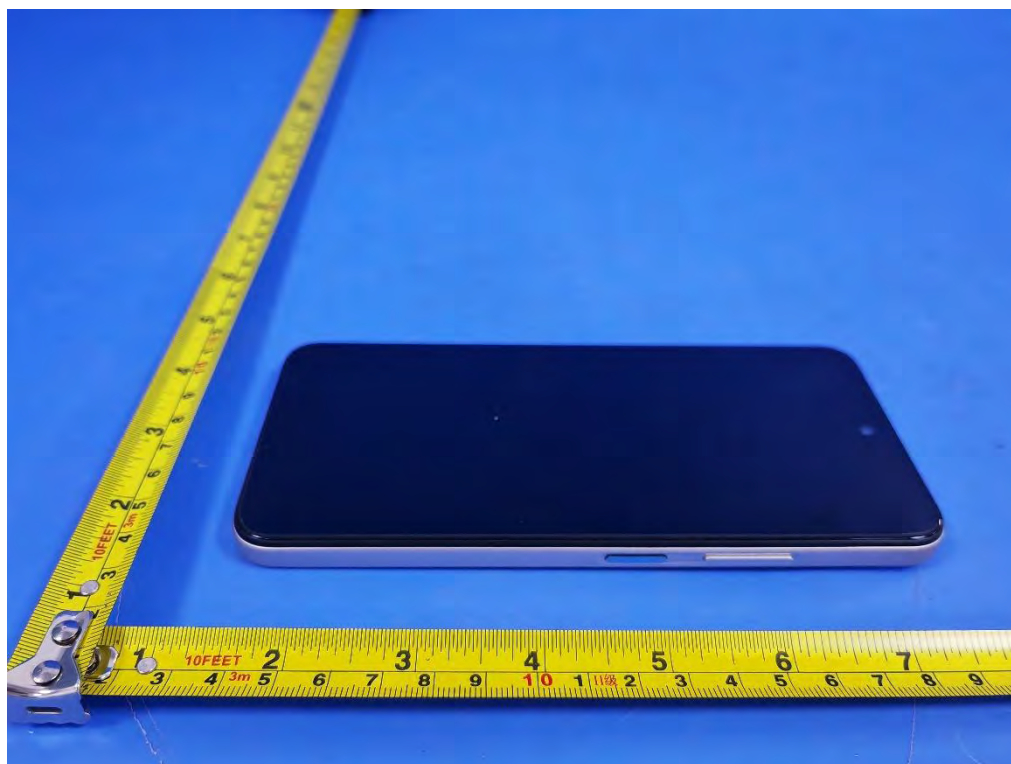


Back side





Right Edge



Left Edge

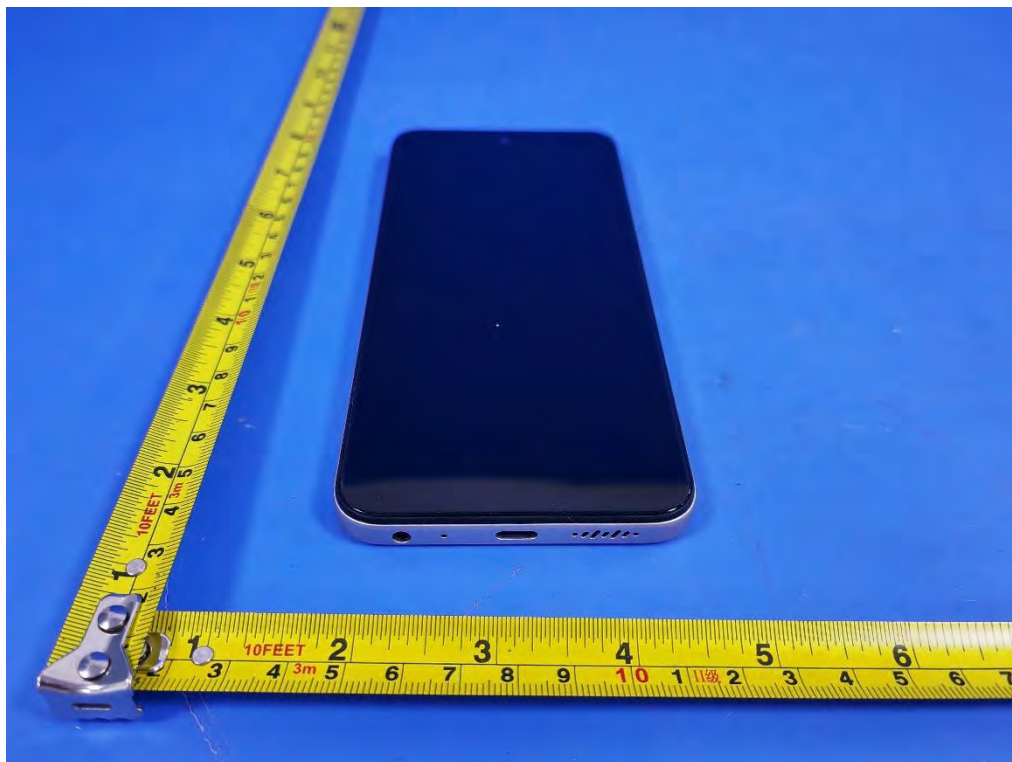




Top Edge

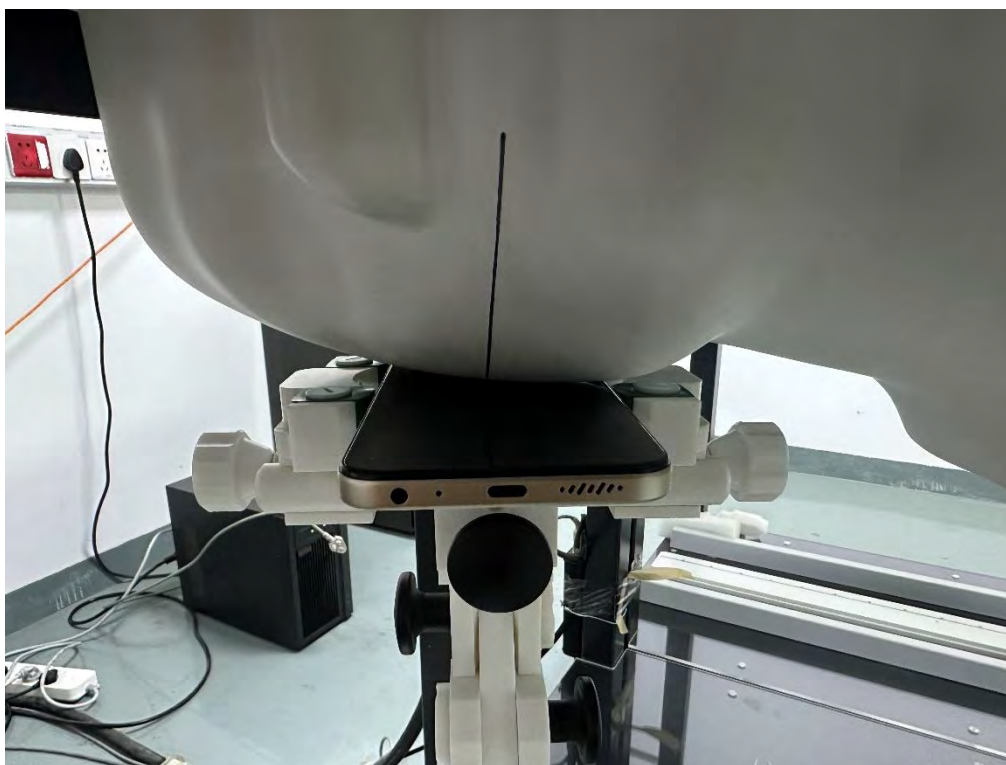


Bottom Edge

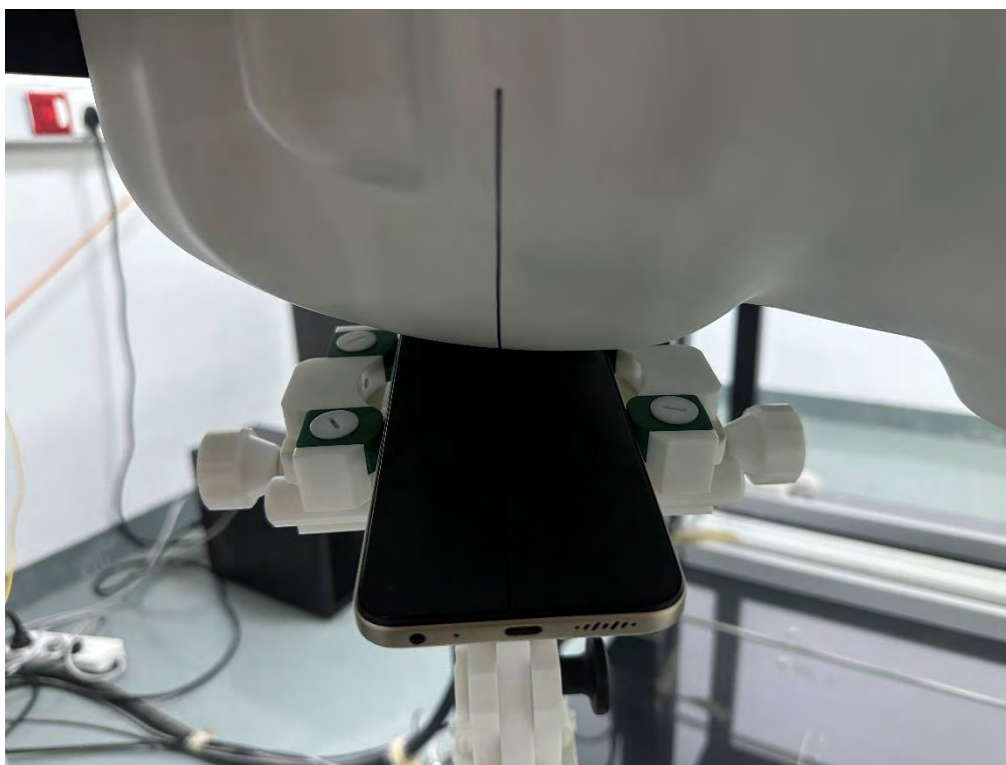


11.2 Setup Photos

Right Touch

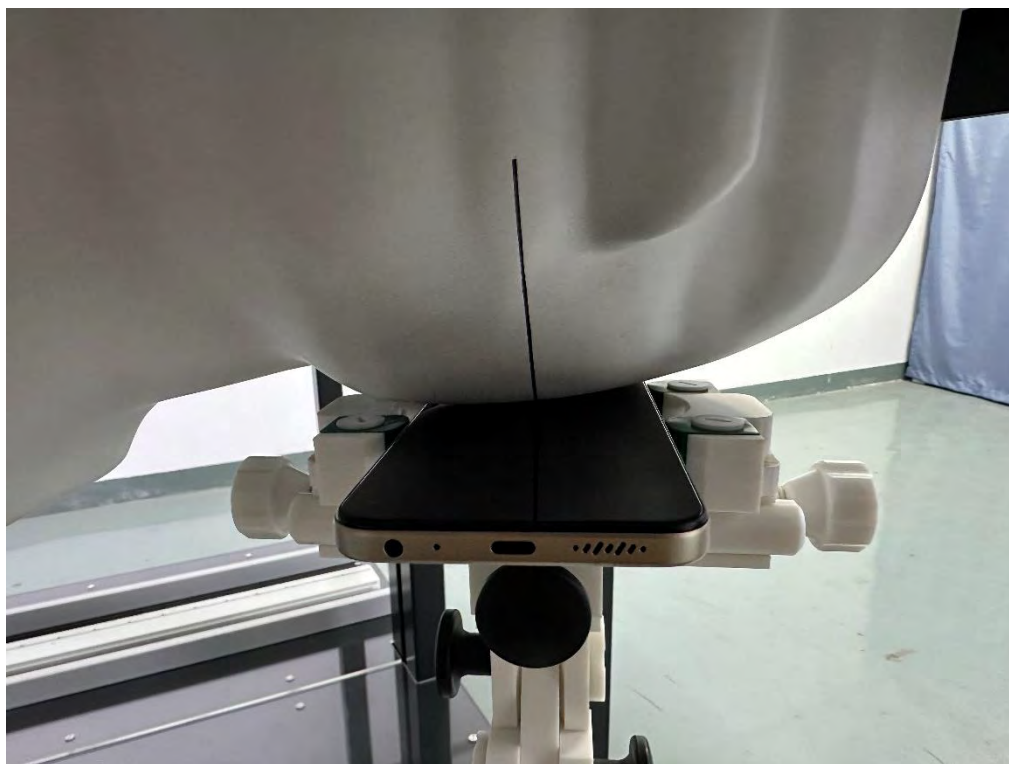


Right Tilt

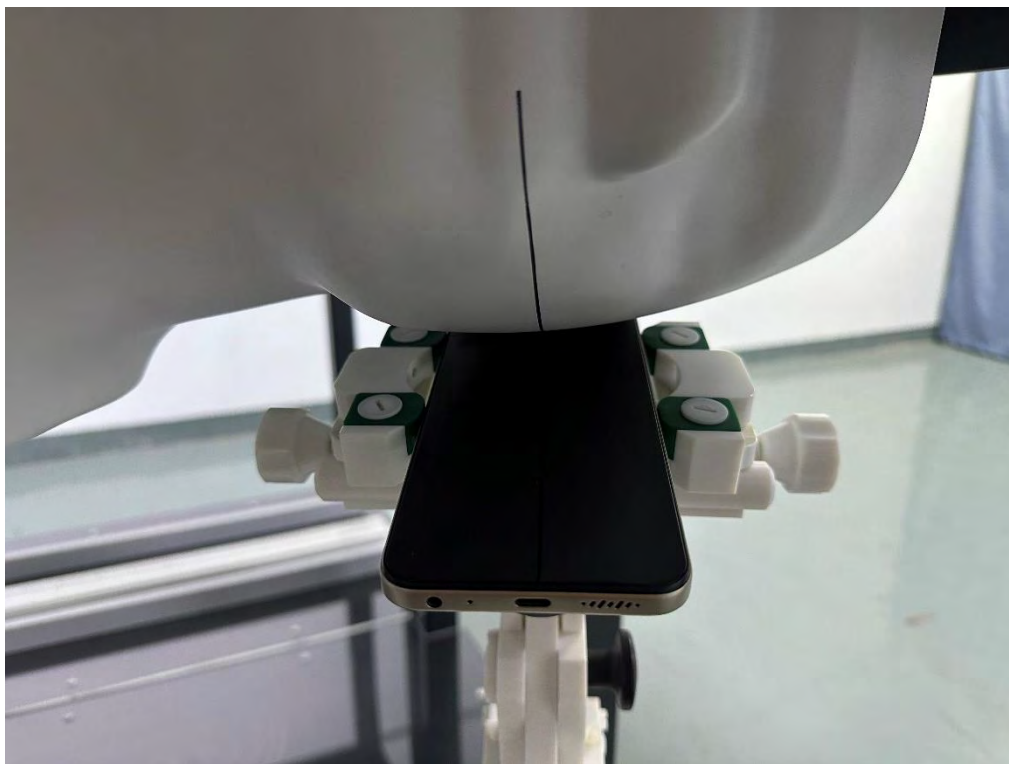




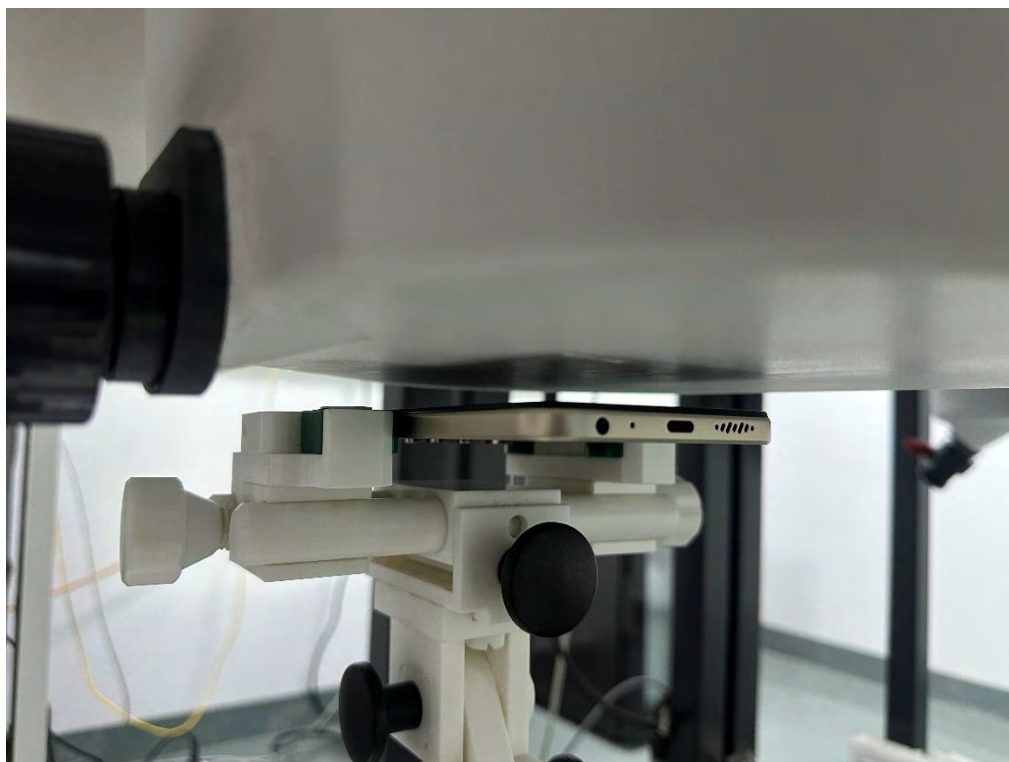
Left Touch



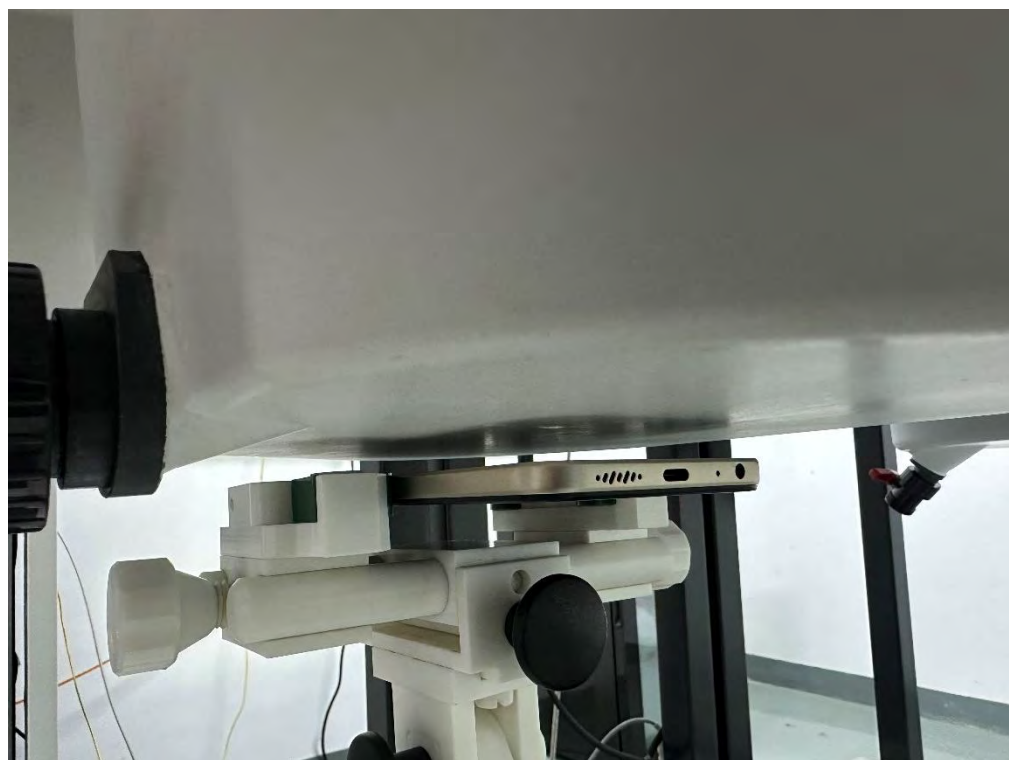
Left Tilt



Body Front side (separation distance is 10mm)

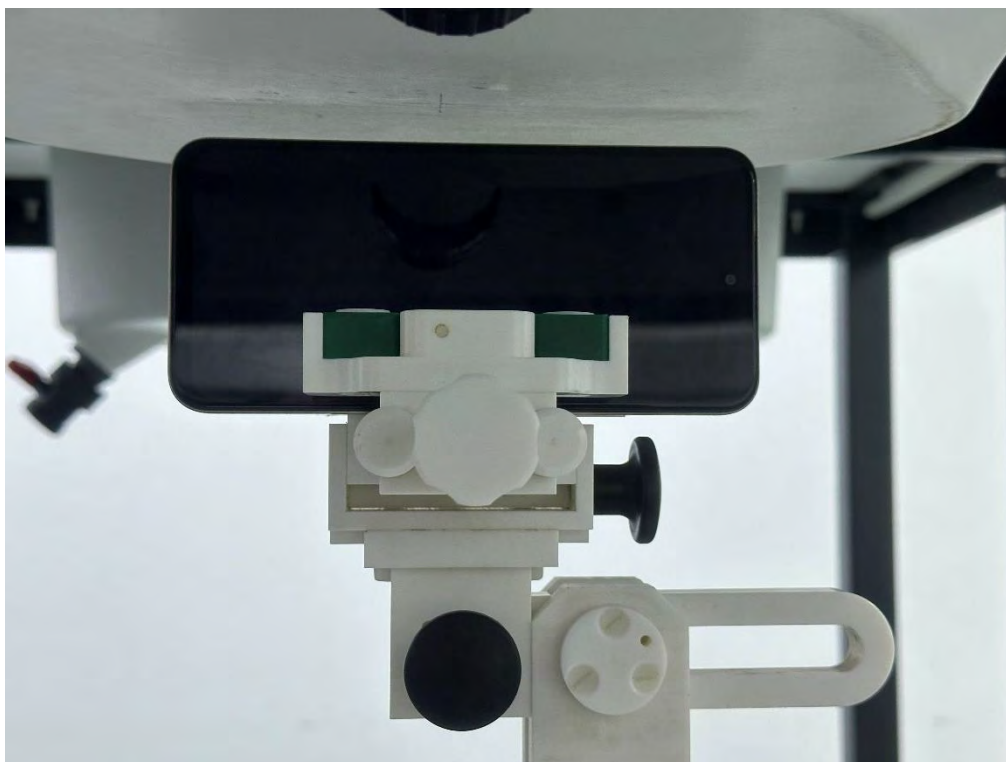


Body Back side (separation distance 10mm)

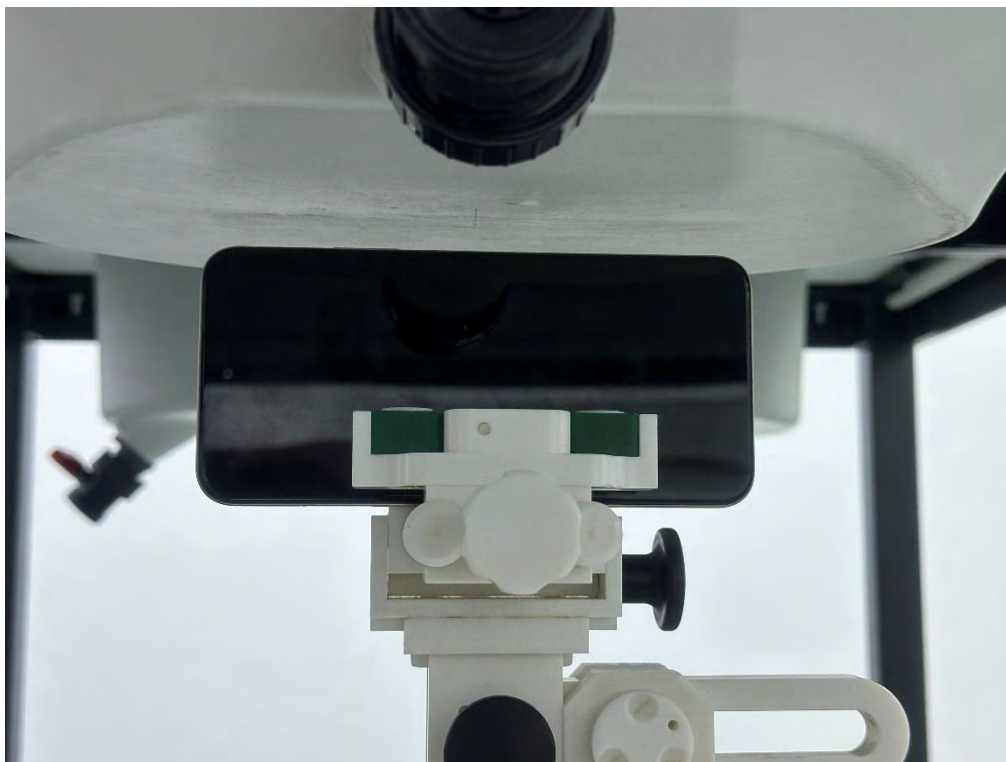




Body Left side (separation distance is 10mm)



Body Right side (separation distance is 10mm)



Body Top side (separation distance is 10mm)



Body Bottom side (separation distance is 10mm)

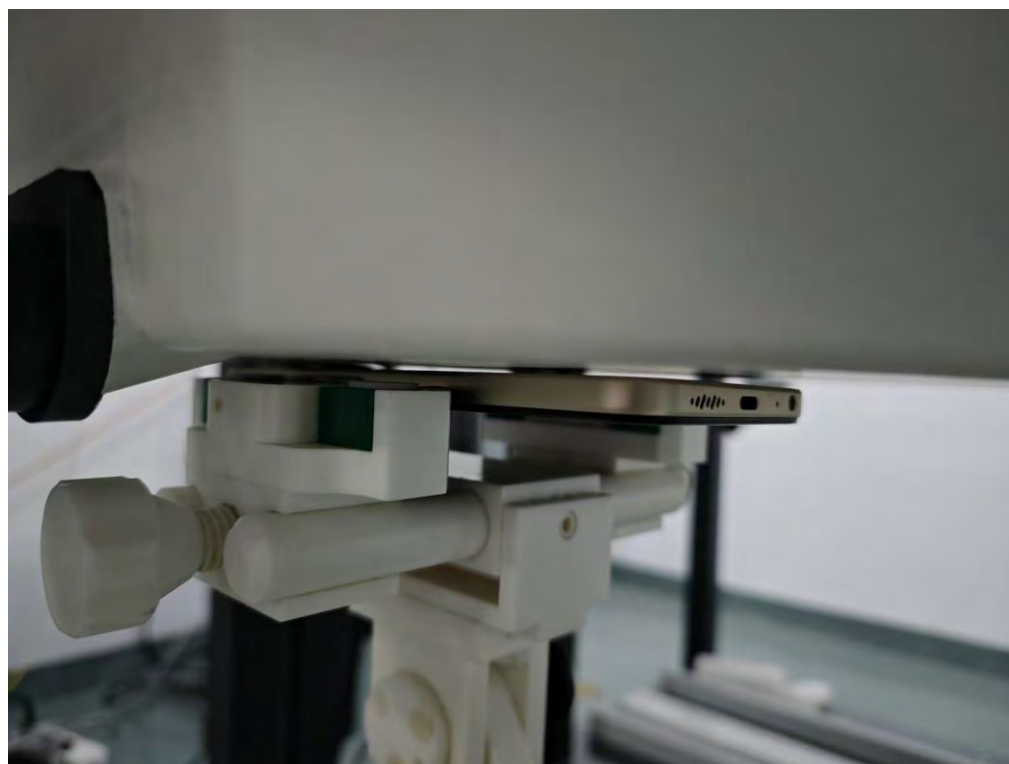




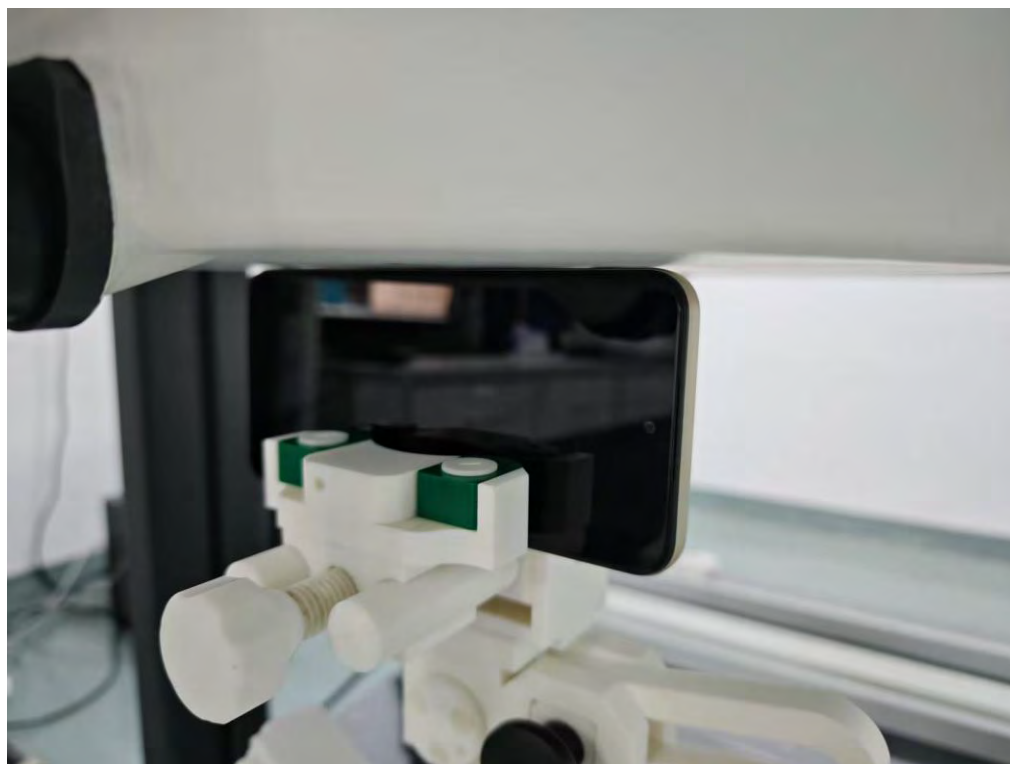
Phablet Limb Front side (separation distance is 0mm)



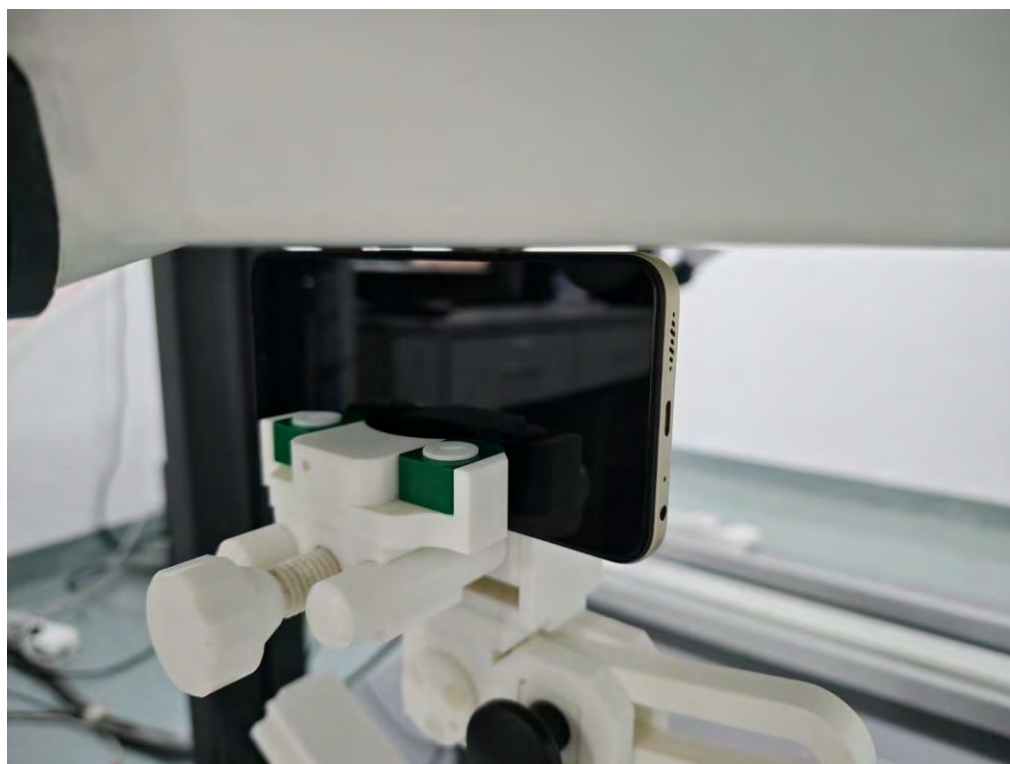
Phablet Limb Back side (separation distance 0mm)



Phablet Limb Left side (separation distance is 0mm)



Phablet Limb Right side (separation distance is 0mm)

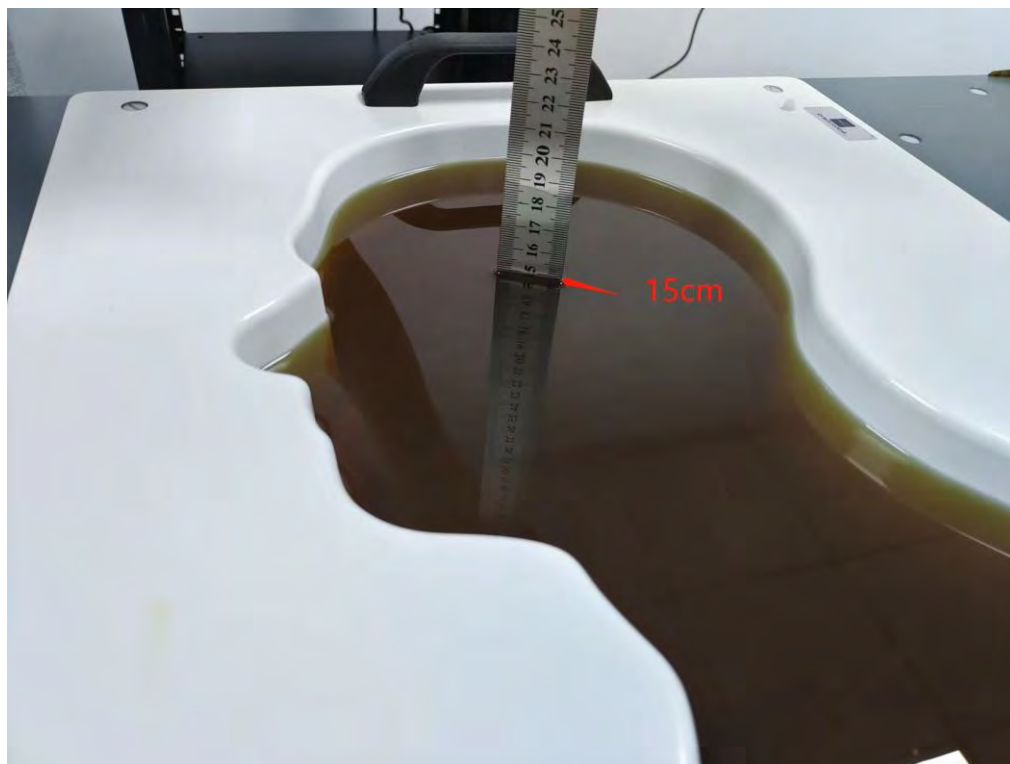




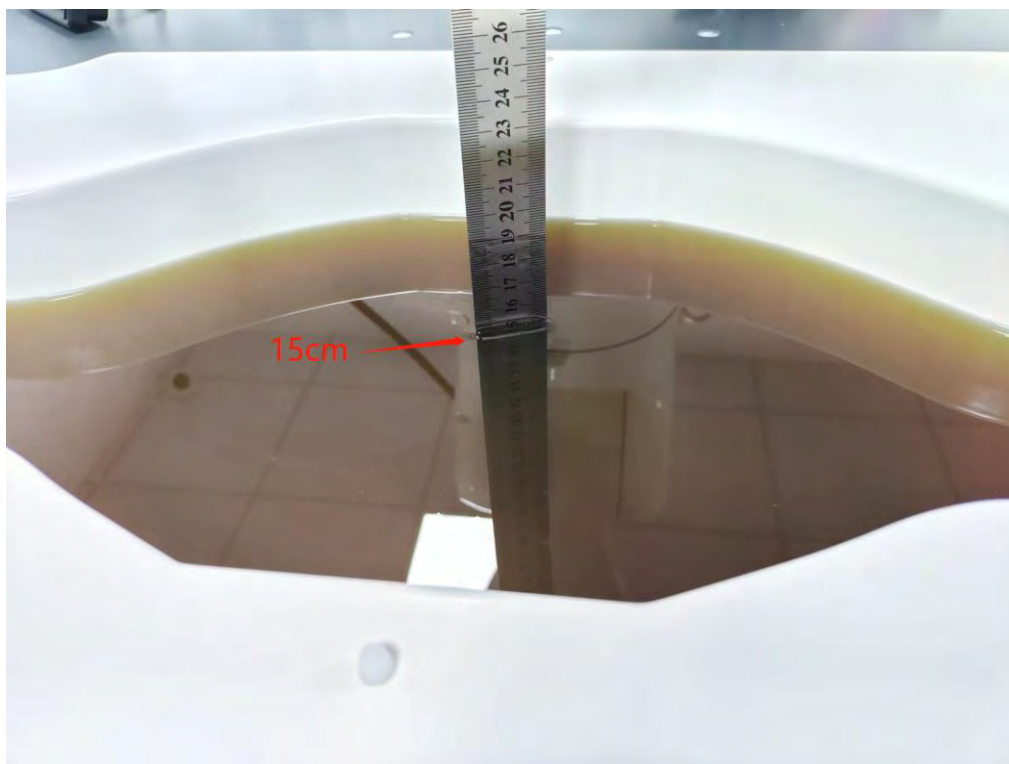
Phablet Limb Bottom side (separation distance is 0mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Head SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max. Turn-up Power(dBm)	Meas. Output Power(dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GSM	Right Cheek	836.6	0.270	-3.85	34.00	33.97	0.272	1
		Right Tilt	836.6	0.136	0.57	34.00	33.97	0.137	/
		Left Cheek	836.6	0.229	2.35	34.00	33.97	0.231	/
		Left Tilt	836.6	0.119	-3.56	34.00	33.97	0.120	/
PCS 1900	GSM	Right Cheek	1880	0.158	1.24	31.00	30.97	0.159	3
		Right Tilt	1880	0.085	-2.44	31.00	30.97	0.086	/
		Left Cheek	1880	0.111	2.14	31.00	30.97	0.112	/
		Left Tilt	1880	0.056	-3.56	31.00	30.97	0.056	/
WCDMA Band II	RMC	Right Cheek	1907.6	0.150	-3.85	24.00	23.97	0.151	5
		Right Tilt	1907.6	0.079	2.98	24.00	23.97	0.080	/
		Left Cheek	1907.6	0.041	3.05	24.00	23.97	0.041	/
		Left Tilt	1907.6	0.022	-1.18	24.00	23.97	0.022	/
WCDMA Band IV	RMC	Right Cheek	1740	0.279	-3.14	24.50	24.25	0.296	7
		Right Tilt	1740	0.144	0.34	24.50	24.25	0.153	/
		Left Cheek	1740	0.079	3.18	24.50	24.25	0.084	/
		Left Tilt	1740	0.042	-2.71	24.50	24.25	0.044	/
WCDMA Band V	RMC	Right Cheek	846.6	0.235	0.28	24.00	23.83	0.244	9
		Right Tilt	846.6	0.12	3.38	24.00	23.83	0.125	/
		Left Cheek	846.6	0.061	3.46	24.00	23.83	0.063	/
		Left Tilt	846.6	0.031	2.23	24.00	23.83	0.032	/
2.4G WLAN	802.11b	Right Cheek	2462	0.531	2.15	13.50	13.48	0.533	/
		Right Tilt	2462	0.602	3.89	13.50	13.48	0.605	/
		Left Cheek	2462	0.671	-3.39	13.50	13.48	0.674	/
		Left Tilt	2412	0.531	-2.50	13.50	12.01	0.748	/
		Left Tilt	2437	0.562	2.23	13.50	12.24	0.751	/
		Left Tilt	2462	0.754	-1.22	13.50	13.48	0.757	11
5.2G WLAN	802.11a	Right Cheek	5240	0.337	-1.95	8.00	7.83	0.350	/
		Right Tilt	5240	0.282	0.93	8.00	7.83	0.293	/
		Left Cheek	5240	0.367	1.40	8.00	7.83	0.382	/
		Left Tilt	5240	0.562	1.60	8.00	7.83	0.584	13
5.3G WLAN	802.11a	Right Cheek	5320	0.328	1.15	8.50	8.13	0.357	/
		Right Tilt	5320	0.271	0.67	8.50	8.13	0.295	/
		Left Cheek	5320	0.355	-1.07	8.50	8.13	0.387	/
		Left Tilt	5320	0.543	3.68	8.50	8.13	0.591	15
5.6G WLAN	802.11a	Right Cheek	5700	0.298	-1.94	9.50	9.13	0.325	/
		Right Tilt	5700	0.249	1.85	9.50	9.13	0.271	/
		Left Cheek	5700	0.321	-0.54	9.50	9.13	0.350	/
		Left Tilt	5700	0.493	0.62	9.50	9.13	0.537	17
5.8G WLAN	802.11a	Right Cheek	5745	0.317	0.79	7.50	7.17	0.342	/
		Right Tilt	5745	0.265	-3.63	7.50	7.17	0.286	/
		Left Cheek	5745	0.345	2.04	7.50	7.17	0.372	/
		Left Tilt	5745	0.527	2.66	7.50	7.17	0.569	19



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Right Cheek	1900	0.177	-3.38	25.50	25.33	0.184	21
			50	0	Right Cheek	1900	0.154	2.68	24.50	24.02	0.172	/
			1	0	Right Tilt	1900	0.107	1.78	25.50	25.33	0.111	/
			50	0	Right Tilt	1900	0.095	-0.52	24.50	24.02	0.106	/
			1	0	Left Cheek	1900	0.153	1.62	25.50	25.33	0.159	/
			50	0	Left Cheek	1900	0.086	2.34	24.50	24.02	0.096	/
			1	0	Left Tilt	1900	0.089	0.34	25.50	25.33	0.093	/
			50	0	Left Tilt	1900	0.054	2.17	24.50	24.02	0.060	/
LTE Band 4	20M	QPSK	1	0	Right Cheek	1720	0.266	3.83	24.30	24.24	0.270	23
			50	0	Right Cheek	1720	0.226	-2.74	23.00	22.91	0.231	/
			1	0	Right Tilt	1720	0.162	-0.94	24.30	24.24	0.164	/
			50	0	Right Tilt	1720	0.137	2.85	23.00	22.91	0.140	/
			1	0	Left Cheek	1720	0.231	-1.58	24.30	24.24	0.234	/
			50	0	Left Cheek	1720	0.123	2.71	23.00	22.91	0.126	/
			1	0	Left Tilt	1720	0.135	0.98	24.30	24.24	0.137	/
			50	0	Left Tilt	1720	0.075	2.99	23.00	22.91	0.077	/
LTE Band 5	10M	QPSK	1	0	Right Cheek	844	0.230	0.14	25.50	25.03	0.256	25
			25	0	Right Cheek	844	0.198	2.30	24.00	23.74	0.210	/
			1	0	Right Tilt	844	0.142	-3.76	25.50	25.03	0.158	/
			25	0	Right Tilt	844	0.120	-2.23	24.00	23.74	0.127	/
			1	0	Left Cheek	844	0.197	3.77	25.50	25.03	0.220	/
			25	0	Left Cheek	844	0.110	0.23	24.00	23.74	0.117	/
			1	0	Left Tilt	844	0.116	0.93	25.50	25.03	0.129	/
			25	0	Left Tilt	844	0.069	0.22	24.00	23.74	0.073	/
LTE Band 7	20M	QPSK	1	0	Right Cheek	2560	0.153	3.35	26.00	25.52	0.171	27
			50	0	Right Cheek	2560	0.131	-1.68	24.50	24.07	0.145	/
			1	0	Right Tilt	2560	0.092	1.15	26.00	25.52	0.103	/
			50	0	Right Tilt	2560	0.080	1.57	24.50	24.07	0.088	/
			1	0	Left Cheek	2560	0.132	-1.58	26.00	25.52	0.147	/
			50	0	Left Cheek	2560	0.071	3.80	24.50	24.07	0.078	/
			1	0	Left Tilt	2560	0.078	1.94	26.00	25.52	0.087	/
			50	0	Left Tilt	2560	0.044	-2.68	24.50	24.07	0.049	/
LTE Band 12	10M	QPSK	1	0	Right Cheek	711	0.133	2.79	25.00	24.62	0.145	29
			25	0	Right Cheek	711	0.116	-0.05	23.50	23.35	0.120	/
			1	0	Right Tilt	711	0.080	-1.24	25.00	24.62	0.087	/
			25	0	Right Tilt	711	0.072	-1.43	23.50	23.35	0.075	/
			1	0	Left Cheek	711	0.114	0.08	25.00	24.62	0.124	/
			25	0	Left Cheek	711	0.061	3.93	23.50	23.35	0.063	/
			1	0	Left Tilt	711	0.068	-3.84	25.00	24.62	0.074	/
			25	0	Left Tilt	711	0.040	2.09	23.50	23.35	0.041	/
LTE Band 13	10M	QPSK	1	0	Right Cheek	782	0.183	-1.78	25.00	24.86	0.189	31
			25	0	Right Cheek	782	0.155	-2.19	23.50	23.49	0.155	/
			1	0	Right Tilt	782	0.112	3.61	25.00	24.86	0.116	/
			25	0	Right Tilt	782	0.094	-0.62	23.50	23.49	0.094	/
			1	0	Left Cheek	782	0.157	-3.82	25.00	24.86	0.162	/



			25	0	Left Cheek	782	0.088	-3.73	23.50	23.49	0.088	/
			1	0	Left Tilt	782	0.092	-1.52	25.00	24.86	0.095	/
			25	0	Left Tilt	782	0.055	0.38	23.50	23.49	0.055	/
LTE Band 17	10M	QPSK	1	0	Right Cheek	711	0.171	-0.31	25.00	24.66	0.185	33
			25	0	Right Cheek	711	0.147	2.13	23.50	23.40	0.150	/
			1	0	Right Tilt	711	0.103	3.09	25.00	24.66	0.111	/
			25	0	Right Tilt	711	0.092	2.34	23.50	23.40	0.094	/
			1	0	Left Cheek	711	0.146	3.33	25.00	24.66	0.158	/
			25	0	Left Cheek	711	0.078	-2.61	23.50	23.40	0.080	/
			1	0	Left Tilt	711	0.088	-2.48	25.00	24.66	0.095	/
			25	0	Left Tilt	711	0.051	1.45	23.50	23.40	0.052	/
LTE Band 25	20M	QPSK	1	0	Right Cheek	1905	0.131	2.47	25.00	24.88	0.135	35
			50	0	Right Cheek	1905	0.112	-2.13	24.00	23.55	0.124	/
			1	0	Right Tilt	1905	0.082	3.38	25.00	24.88	0.084	/
			50	0	Right Tilt	1905	0.070	3.73	24.00	23.55	0.078	/
			1	0	Left Cheek	1905	0.115	3.30	25.00	24.88	0.118	/
			50	0	Left Cheek	1905	0.063	2.62	24.00	23.55	0.070	/
			1	0	Left Tilt	1905	0.068	2.22	25.00	24.88	0.070	/
			50	0	Left Tilt	1905	0.041	3.22	24.00	23.55	0.045	/
LTE Band 26	10M	QPSK	1	0	Right Cheek	819	0.249	3.92	25.00	24.58	0.274	37
			36	0	Right Cheek	819	0.214	-2.78	23.50	23.28	0.225	/
			1	0	Right Tilt	819	0.153	1.74	25.00	24.58	0.169	/
			36	0	Right Tilt	819	0.129	0.24	23.50	23.28	0.136	/
			1	0	Left Cheek	819	0.213	2.42	25.00	24.58	0.235	/
			36	0	Left Cheek	819	0.118	2.85	23.50	23.28	0.124	/
			1	0	Left Tilt	819	0.127	2.20	25.00	24.58	0.140	/
			36	0	Left Tilt	819	0.075	3.83	23.50	23.28	0.079	/
LTE Band 38	20M	QPSK	1	0	Right Cheek	2595	0.072	3.68	25.50	25.02	0.080	39
			50	0	Right Cheek	2595	0.061	1.10	24.00	23.79	0.064	/
			1	0	Right Tilt	2595	0.047	-1.18	25.50	25.02	0.052	/
			50	0	Right Tilt	2595	0.040	0.79	24.00	23.79	0.042	/
			1	0	Left Cheek	2595	0.065	1.65	25.50	25.02	0.073	/
			50	0	Left Cheek	2595	0.036	-0.21	24.00	23.79	0.038	/
			1	0	Left Tilt	2595	0.039	0.26	25.50	25.02	0.044	/
			50	0	Left Tilt	2595	0.026	2.38	24.00	23.79	0.027	/
LTE Band 40	10M	QPSK	1	0	Right Cheek	2355	0.079	3.46	11.00	10.84	0.082	41
			50	0	Right Cheek	2355	0.068	0.02	10.00	9.62	0.074	/
			1	0	Right Tilt	2355	0.050	0.16	11.00	10.84	0.052	/
			50	0	Right Tilt	2355	0.042	3.36	10.00	9.62	0.046	/
			1	0	Left Cheek	2355	0.067	-0.75	11.00	10.84	0.070	/
			50	0	Left Cheek	2355	0.042	1.98	10.00	9.62	0.046	/
			1	0	Left Tilt	2355	0.040	-0.27	11.00	10.84	0.042	/
			50	0	Left Tilt	2355	0.029	1.80	10.00	9.62	0.032	/
LTE Band 41	20M	QPSK	1	0	Right Cheek	2593	0.104	0.23	25.50	25.10	0.114	43
			50	0	Right Cheek	2593	0.090	-2.22	24.00	23.93	0.091	/
			1	0	Right Tilt	2593	0.065	-2.97	25.50	25.10	0.071	/
			50	0	Right Tilt	2593	0.059	0.81	24.00	23.93	0.060	/
			1	0	Left Cheek	2593	0.092	-2.29	25.50	25.10	0.101	/



			50	0	Left Cheek	2593	0.051	2.90	24.00	23.93	0.052	/
			1	0	Left Tilt	2593	0.054	-2.01	25.50	25.10	0.059	/
			50	0	Left Tilt	2593	0.035	-1.83	24.00	23.93	0.036	/
LTE Band 66	20M	QPSK	1	0	Right Cheek	1770	0.189	-0.09	25.50	25.05	0.210	45
			50	0	Right Cheek	1770	0.157	2.25	24.00	23.83	0.163	/
			1	0	Right Tilt	1770	0.113	0.29	25.50	25.05	0.125	/
			50	0	Right Tilt	1770	0.098	2.92	24.00	23.83	0.102	/
			1	0	Left Cheek	1770	0.162	-1.60	25.50	25.05	0.180	/
			50	0	Left Cheek	1770	0.091	2.29	24.00	23.83	0.095	/
			1	0	Left Tilt	1770	0.097	-0.37	25.50	25.05	0.108	/
			50	0	Left Tilt	1770	0.056	3.02	24.00	23.83	0.058	/
			1	0	Right Cheek	642	0.233	3.72	25.00	24.86	0.241	47
LTE Band 71	20M	QPSK	50	0	Right Cheek	683	0.197	-1.95	23.00	22.54	0.219	/
			1	0	Right Tilt	642	0.141	1.03	25.00	24.86	0.146	/
			50	0	Right Tilt	683	0.123	-0.08	23.00	22.54	0.137	/
			1	0	Left Cheek	642	0.201	1.14	25.00	24.86	0.208	/
			50	0	Left Cheek	683	0.111	0.65	23.00	22.54	0.123	/
			1	0	Left Tilt	642	0.118	-0.44	25.00	24.86	0.122	/
			50	0	Left Tilt	683	0.066	-1.52	23.00	22.54	0.073	/

Note:

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

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

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

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



12.2 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Front Side	836.6	0.276	1.79	31.00	30.54	0.307	/
		Back Side	836.6	0.333	-0.97	31.00	30.54	0.370	2
		Left Side	836.6	0.172	1.53	31.00	30.54	0.191	/
		Right Side	836.6	0.221	-3.46	31.00	30.54	0.246	/
		Top Side	836.6	0.068	0.57	31.00	30.54	0.076	/
		Bottom Side	836.6	0.177	2.22	31.00	30.54	0.197	/
PCS 1900	EGPRS(8PSK, 4-Slot)	Front Side	1880	0.228	2.98	27.50	27.43	0.232	/
		Back Side	1880	0.431	-1.18	27.50	27.43	0.438	4
		Left Side	1880	0.160	-2.23	27.50	27.43	0.163	/
		Right Side	1880	0.119	2.90	27.50	27.43	0.121	/
		Top Side	1880	0.118	1.30	27.50	27.43	0.120	/
		Bottom Side	1880	0.397	3.88	27.50	27.43	0.403	/
WCDMA Band II	RMC	Front Side	1907.6	0.346	-2.94	24.00	23.97	0.348	/
		Back Side	1907.6	0.602	-0.56	24.00	23.97	0.606	/
		Left Side	1907.6	0.46	-3.40	24.00	23.97	0.463	/
		Right Side	1907.6	0.377	2.16	24.00	23.97	0.380	/
		Bottom Side	1907.6	0.623	-0.82	24.00	23.97	0.627	6
WCDMA Band IV	RMC	Front Side	1740	0.416	0.96	24.50	24.25	0.441	/
		Back Side	1740	0.499	1.86	24.50	24.25	0.529	/
		Left Side	1740	0.77	2.90	24.50	24.25	0.816	/
		Right Side	1740	0.629	-2.09	24.50	24.25	0.666	/
		Top Side	1740	0.027	1.66	24.50	24.25	0.029	/
		Bottom Side	1712.6	0.998	1.71	24.50	24.25	1.057	/
		Bottom Side	1740	1.201	-0.82	24.50	24.25	1.272	8
		Bottom Side	1752.4	1.010	-3.34	24.50	24.22	1.077	/
WCDMA Band V	RMC	Front Side	846.6	0.157	-2.85	24.00	23.83	0.163	/
		Back Side	846.6	0.27	0.37	24.00	23.83	0.281	10
		Left Side	846.6	0.136	1.06	24.00	23.83	0.141	/
		Right Side	846.6	0.112	2.75	24.00	23.83	0.116	/
		Bottom Side	846.6	0.066	-3.99	24.00	23.83	0.069	/
2.4GHz WLAN	802.11b	Front Side	2462	0.168	0.60	13.50	13.48	0.169	/
		Back Side	2462	0.093	-3.30	13.50	13.48	0.093	/
		Right Side	2462	0.103	2.48	13.50	13.48	0.103	/
		Top Side	2462	0.213	1.86	13.50	13.48	0.214	12
5.2GHz WLAN	802.11a	Front Side	5240	0.255	3.38	8.00	7.83	0.265	/
		Back Side	5240	0.126	1.48	8.00	7.83	0.131	/
		Right Side	5240	0.132	0.38	8.00	7.83	0.137	/
		Top Side	5240	0.350	2.98	8.00	7.83	0.364	14
5.3GHz WLAN	802.11a	Front Side	5320	0.286	1.72	8.50	8.13	0.311	/
		Back Side	5320	0.14	-2.32	8.50	8.13	0.152	/
		Right Side	5320	0.146	-0.11	8.50	8.13	0.159	/
		Top Side	5320	0.388	0.91	8.50	8.13	0.423	16
		Bottom Side	5320	0.052	0.17	8.50	8.13	0.057	/
5.6GHz WLAN	802.11a	Front Side	5700	0.263	-3.09	9.50	9.13	0.286	/
		Back Side	5700	0.126	0.01	9.50	9.13	0.137	/
		Right Side	5700	0.133	0.42	9.50	9.13	0.145	/
		Top Side	5700	0.358	-0.22	9.50	9.13	0.390	18
5.8GHz WLAN	802.11a	Front Side	5745	0.175	-2.49	7.50	7.17	0.189	/
		Back Side	5745	0.087	1.70	7.50	7.17	0.094	/
		Right Side	5745	0.086	-3.38	7.50	7.17	0.093	/
		Top Side	5745	0.234	0.15	7.50	7.17	0.252	20



Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	1900	0.301	1.86	25.50	25.33	0.313	/
			50	0	Front side	1900	0.233	3.53	24.50	24.02	0.260	/
			1	0	Back Side	1900	0.150	0.26	25.50	25.33	0.156	/
			50	0	Back Side	1900	0.193	0.96	24.50	24.02	0.216	/
			1	0	Left Side	1900	0.409	-2.53	25.50	25.33	0.425	/
			50	0	Left Side	1900	0.262	1.63	24.50	24.02	0.293	/
			1	0	Right Side	1900	0.344	-2.17	25.50	25.33	0.358	/
			50	0	Right Side	1900	0.224	1.73	24.50	24.02	0.250	/
			1	0	Bottom Side	1860	0.702	2.47	25.50	24.98	0.791	/
			1	0	Bottom Side	1880	0.771	2.52	25.50	25.03	0.859	/
			1	0	Bottom Side	1900	0.829	3.45	25.50	25.33	0.862	22
			50	0	Bottom Side	1900	0.530	-0.29	24.50	24.02	0.592	/
LTE Band 4	20M	QPSK	1	0	Front side	1720	0.372	-0.71	24.30	24.24	0.377	/
			50	0	Front side	1720	0.287	2.82	23.00	22.91	0.293	/
			1	0	Back Side	1720	0.143	2.64	24.30	24.24	0.145	/
			50	0	Back Side	1720	0.236	1.73	23.00	22.91	0.241	/
			1	0	Left Side	1720	0.505	1.19	24.30	24.24	0.512	/
			50	0	Left Side	1720	0.325	-2.67	23.00	22.91	0.332	/
			1	0	Right Side	1720	0.420	2.43	24.30	24.24	0.426	/
			50	0	Right Side	1720	0.278	3.27	23.00	22.91	0.284	/
			1	0	Bottom Side	1720	1.137	-3.32	24.30	24.24	1.153	24
			1	0	Bottom Side	1732.5	0.996	0.75	24.30	23.95	1.080	/
			1	0	Bottom Side	1745	1.023	0.99	24.30	24.10	1.071	/
			50	0	Bottom Side	1720	0.658	2.11	23.00	22.91	0.672	/
LTE Band 5	10M	QPSK	1	0	Front side	844	0.168	3.89	25.50	25.03	0.187	/
			25	0	Front side	844	0.248	1.36	24.00	23.74	0.263	/
			1	0	Back Side	844	0.303	1.56	25.50	25.03	0.338	26
			25	0	Back Side	844	0.179	1.02	24.00	23.74	0.190	/
			1	0	Left Side	844	0.166	0.07	25.50	25.03	0.185	/
			25	0	Left Side	844	0.117	1.31	24.00	23.74	0.124	/
			1	0	Right Side	844	0.119	-0.38	25.50	25.03	0.133	/
			25	0	Right Side	844	0.088	-2.81	24.00	23.74	0.093	/
			1	0	Bottom Side	844	0.077	1.69	25.50	25.03	0.086	/
			25	0	Bottom Side	844	0.061	3.92	24.00	23.74	0.065	/



LTE Band 7	20M	QPSK	1	0	Front side	2560	0.274	-3.65	26.00	25.52	0.306	/
			50	0	Front side	2560	0.210	3.15	24.50	24.07	0.232	/
			1	0	Back Side	2560	0.131	3.96	26.00	25.52	0.146	/
			50	0	Back Side	2560	0.174	3.90	24.50	24.07	0.192	/
			1	0	Left Side	2560	0.370	-1.79	26.00	25.52	0.413	/
			50	0	Left Side	2560	0.239	-1.15	24.50	24.07	0.264	/
			1	0	Right Side	2560	0.309	2.22	26.00	25.52	0.345	/
			50	0	Right Side	2560	0.202	0.51	24.50	24.07	0.223	/
			1	0	Bottom Side	2510	0.624	1.38	26.00	24.82	0.819	/
			1	0	Bottom Side	2535	0.671	-2.43	26.00	25.06	0.833	/
			1	0	Bottom Side	2560	0.749	-0.34	26.00	25.52	0.837	28
			50	0	Bottom Side	2560	0.483	-3.93	24.50	24.07	0.533	/
LTE Band 12	10M	QPSK	1	0	Front side	711	0.157	-3.02	25.00	24.62	0.171	/
			25	0	Front side	711	0.231	3.52	23.50	23.35	0.239	/
			1	0	Back Side	711	0.284	-1.91	25.00	24.62	0.310	30
			25	0	Back Side	711	0.164	3.63	23.50	23.35	0.170	/
			1	0	Left Side	711	0.156	-3.11	25.00	24.62	0.170	/
			25	0	Left Side	711	0.108	2.86	23.50	23.35	0.112	/
			1	0	Right Side	711	0.109	-1.01	25.00	24.62	0.119	/
			25	0	Right Side	711	0.080	0.01	23.50	23.35	0.083	/
			1	0	Bottom Side	711	0.075	3.06	25.00	24.62	0.082	/
			25	0	Bottom Side	711	0.055	0.57	23.50	23.35	0.057	/
LTE Band 13	10M	QPSK	1	0	Front side	782	0.129	0.45	25.00	24.86	0.133	/
			25	0	Front side	782	0.188	3.52	23.50	23.49	0.188	/
			1	0	Back Side	782	0.232	3.44	25.00	24.86	0.240	32
			25	0	Back Side	782	0.137	-2.29	23.50	23.49	0.137	/
			1	0	Left Side	782	0.128	-3.55	25.00	24.86	0.132	/
			25	0	Left Side	782	0.088	-1.93	23.50	23.49	0.088	/
			1	0	Right Side	782	0.095	1.87	25.00	24.86	0.098	/
			25	0	Right Side	782	0.069	-3.01	23.50	23.49	0.069	/
			1	0	Bottom Side	782	0.063	3.28	25.00	24.86	0.065	/
			25	0	Bottom Side	782	0.046	0.62	23.50	23.49	0.046	/
LTE Band 17	10M	QPSK	1	0	Front side	711	0.165	2.01	25.00	24.66	0.178	/
			25	0	Front side	711	0.238	-2.76	23.50	23.40	0.244	/
			1	0	Back Side	711	0.292	-0.95	25.00	24.66	0.316	34
			25	0	Back Side	711	0.172	-3.80	23.50	23.40	0.176	/
			1	0	Left Side	711	0.160	-1.97	25.00	24.66	0.173	/
			25	0	Left Side	711	0.108	0.56	23.50	23.40	0.111	/
			1	0	Right Side	711	0.115	-0.24	25.00	24.66	0.124	/
			25	0	Right Side	711	0.083	-1.16	23.50	23.40	0.085	/
			1	0	Bottom Side	711	0.080	1.66	25.00	24.66	0.087	/
			25	0	Bottom Side	711	0.055	1.85	23.50	23.40	0.056	/



LTE Band 25	20M	QPSK	1	0	Front side	1905	0.251	-0.48	25.00	24.88	0.258	/
			50	0	Front side	1905	0.191	-3.53	24.00	23.55	0.212	/
			1	0	Back Side	1905	0.093	3.90	25.00	24.88	0.096	/
			50	0	Back Side	1905	0.163	-3.50	24.00	23.55	0.181	/
			1	0	Left Side	1905	0.341	0.99	25.00	24.88	0.351	/
			50	0	Left Side	1905	0.220	3.25	24.00	23.55	0.244	/
			1	0	Right Side	1905	0.285	2.58	25.00	24.88	0.293	/
			50	0	Right Side	1905	0.187	-2.74	24.00	23.55	0.207	/
			1	0	Bottom Side	1905	0.690	1.23	25.00	24.88	0.709	36
			50	0	Bottom Side	1905	0.441	1.64	24.00	23.55	0.489	/
LTE Band 26	15M	QPSK	1	0	Front side	819	0.154	0.18	25.00	24.58	0.170	/
			36	0	Front side	819	0.221	-3.02	23.50	23.28	0.232	/
			1	0	Back Side	819	0.272	1.30	25.00	24.58	0.300	38
			36	0	Back Side	819	0.162	-2.19	23.50	23.28	0.170	/
			1	0	Left Side	819	0.149	0.26	25.00	24.58	0.164	/
			36	0	Left Side	819	0.101	-3.56	23.50	23.28	0.106	/
			1	0	Right Side	819	0.108	-0.11	25.00	24.58	0.119	/
			36	0	Right Side	819	0.077	2.34	23.50	23.28	0.081	/
			1	0	Bottom Side	819	0.073	1.87	25.00	24.58	0.080	/
			36	0	Bottom Side	819	0.050	-3.30	23.50	23.28	0.053	/
LTE Band 38	20M	QPSK	1	0	Front side	2595	0.101	2.89	25.50	25.02	0.113	/
			50	0	Front side	2595	0.081	3.31	24.00	23.79	0.085	/
			1	0	Back Side	2595	0.035	0.62	25.50	25.02	0.039	/
			50	0	Back Side	2595	0.064	-0.43	24.00	23.79	0.067	/
			1	0	Left Side	2595	0.138	-3.29	25.50	25.02	0.154	/
			50	0	Left Side	2595	0.089	1.19	24.00	23.79	0.093	/
			1	0	Right Side	2595	0.115	-2.99	25.50	25.02	0.128	/
			50	0	Right Side	2595	0.076	3.54	24.00	23.79	0.080	/
			1	0	Bottom Side	2595	0.278	0.10	25.50	25.02	0.310	40
			50	0	Bottom Side	2595	0.181	2.66	24.00	23.79	0.190	/
LTE Band 40	10M	QPSK	1	0	Front side	2335	0.190	3.56	11.00	10.84	0.197	/
			50	0	Front side	2335	0.061	-1.80	10.00	9.62	0.067	/
			1	0	Back Side	2335	0.049	-3.42	11.00	10.84	0.051	/
			50	0	Back Side	2335	0.109	2.86	10.00	9.62	0.119	/
			1	0	Left Side	2335	0.140	-0.83	11.00	10.84	0.145	/
			50	0	Left Side	2335	0.090	-2.18	10.00	9.62	0.098	/
			1	0	Right Side	2335	0.109	-0.47	11.00	10.84	0.113	/
			50	0	Right Side	2335	0.069	3.85	10.00	9.62	0.075	/
			1	0	Bottom Side	2335	0.521	-2.06	11.00	10.84	0.541	42
			50	0	Bottom Side	2335	0.337	-1.24	10.00	9.62	0.368	/
LTE Band 41	20M	QPSK	1	0	Front side	2593	0.110	0.93	25.50	25.10	0.121	/
			50	0	Front side	2593	0.085	-1.68	24.00	23.93	0.086	/
			1	0	Back Side	2593	0.193	1.87	25.50	25.10	0.212	/
			50	0	Back Side	2593	0.074	0.20	24.00	23.93	0.075	/
			1	0	Left Side	2593	0.148	1.56	25.50	25.10	0.162	/
			50	0	Left Side	2593	0.095	2.29	24.00	23.93	0.097	/
			1	0	Right Side	2593	0.126	0.76	25.50	25.10	0.138	/
			50	0	Right Side	2593	0.079	-1.99	24.00	23.93	0.080	/
			1	0	Bottom Side	2593	0.298	1.05	25.50	25.10	0.327	44
			50	0	Bottom Side	2593	0.193	2.05	24.00	23.93	0.196	/



LTE Band 66	20M	QPSK	1	0	Front side	1770	0.441	-1.62	25.50	25.05	0.489	/
			50	0	Front side	1770	0.342	2.47	24.00	23.83	0.356	/
			1	0	Back Side	1770	0.156	3.88	25.50	25.05	0.173	/
			50	0	Back Side	1770	0.284	-3.44	24.00	23.83	0.295	/
			1	0	Left Side	1770	0.604	1.54	25.50	25.05	0.670	/
			50	0	Left Side	1770	0.390	-0.27	24.00	23.83	0.406	/
			1	0	Right Side	1770	0.507	0.39	25.50	25.05	0.562	/
			50	0	Right Side	1770	0.335	-3.39	24.00	23.83	0.348	/
			1	0	Top Side	1770	0.032	-2.18	25.50	25.05	0.035	/
			50	0	Top Side	1770	0.025	-1.01	24.00	23.83	0.026	/
			1	0	Bottom Side	1720	0.994	2.56	25.50	24.51	1.248	/
			1	0	Bottom Side	1755	1.012	-3.38	25.50	24.66	1.228	/
			1	0	Bottom Side	1770	1.228	-1.50	25.50	25.05	1.362	46
			50	0	Bottom Side	1770	0.756	0.71	24.00	23.83	0.786	/
LTE Band 71	20M	QPSK	1	0	Front side	642	0.188	1.57	25.00	24.86	0.194	/
			50	0	Front side	683	0.273	0.43	23.00	22.54	0.304	/
			1	0	Back Side	642	0.333	3.67	25.00	24.86	0.344	48
			50	0	Back Side	683	0.193	1.86	23.00	22.54	0.215	/
			1	0	Left Side	642	0.182	-0.54	25.00	24.86	0.188	/
			50	0	Left Side	683	0.124	-2.01	23.00	22.54	0.138	/
			1	0	Right Side	642	0.131	-1.34	25.00	24.86	0.135	/
			50	0	Right Side	683	0.094	3.83	23.00	22.54	0.105	/
			1	0	Bottom Side	642	0.087	3.60	25.00	24.86	0.090	/
			50	0	Bottom Side	683	0.062	0.53	23.00	22.54	0.069	/

Note:

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



12.3 Phablet Limb 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.
WCDMA Band IV	RMC	Front Side	1740	0.889	-3.94	24.50	24.25	0.942	/
		Back Side	1740	1.037	3.02	24.50	24.25	1.098	/
		Left Side	1740	1.247	-1.91	24.50	24.25	1.321	/
		Right Side	1740	1.113	2.77	24.50	24.25	1.179	/
		Bottom Side	1712.6	3.177	3.44	24.50	24.25	3.365	/
		Bottom Side	1740	3.218	-0.71	24.50	24.25	3.409	49
		Bottom Side	1752.4	2.897	1.46	24.50	24.22	3.090	/

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR (W/Kg)	Meas. No.
LTE Band 66	20M	QPSK	1	0	Front side	1770	0.862	-0.94	25.50	25.05	0.956	/
			50	0	Front side	1770	0.763	-0.64	24.00	23.83	0.793	/
			1	0	Back Side	1770	0.921	0.26	25.50	25.05	1.022	/
			50	0	Back Side	1770	0.817	-2.49	24.00	23.83	0.850	/
			1	0	Left Side	1770	1.024	-1.85	25.50	25.05	1.136	/
			50	0	Left Side	1770	0.983	-1.51	24.00	23.83	1.022	/
			1	0	Right Side	1770	0.993	1.51	25.50	25.05	1.101	/
			50	0	Right Side	1770	0.831	0.59	24.00	23.83	0.864	/
			1	0	Bottom Side	1720	1.683	-1.43	25.50	24.51	2.114	/
			1	0	Bottom Side	1755	1.782	-1.26	25.50	24.66	2.162	/
			1	0	Bottom Side	1770	2.609	-0.62	25.50	25.05	2.894	50
			50	0	Bottom Side	1770	1.626	0.01	24.00	23.83	1.691	/

Note:

- The test separation of all above table is 0mm.
- Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
 - Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
 - Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
- When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.4 Repeated SAR

Band	Mode	Test Position	Freq.	Result 1g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)
WCDMA Band IV	RMC	Bottom Side	1712.6	0.969	-2.24	24.5	24.25	1.026
		Bottom Side	1740	1.198	-0.61	24.5	24.25	1.269
		Bottom Side	1752.4	0.964	-3.57	24.5	24.22	1.028

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR(W/Kg)
LTE Band 2	20M	QPSK	1	0	Bottom Side	1860	0.745	3.03	25.5	24.98	0.840
			1	0	Bottom Side	1880	0.753	-2.88	25.5	25.03	0.839
			1	0	Bottom Side	1900	0.825	-0.59	25.5	25.33	0.858
LTE Band 4	20M	QPSK	1	0	Bottom Side	1720	1.115	3.52	24.3	24.24	1.131
			1	0	Bottom Side	1732.5	0.967	3.46	24.3	23.95	1.048
			1	0	Bottom Side	1745	1.022	-3.24	24.3	24.1	1.070
LTE Band 7	20M	QPSK	1	0	Bottom Side	2510	0.605	-2.36	26	24.82	0.794
			1	0	Bottom Side	2535	0.659	0.84	26	25.06	0.818
			1	0	Bottom Side	2560	0.744	-0.2	26	25.52	0.831
LTE Band 66	20M	QPSK	1	0	Bottom Side	1720	0.95	-3.73	25.5	24.51	1.193
			1	0	Bottom Side	1755	1.005	-2.42	25.5	24.66	1.219
			1	0	Bottom Side	1770	1.179	3.65	25.5	25.05	1.308

Band	Mode	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max.Turn-up Power(dBm)	Meas.Output Power(dBm)	Scaled SAR(W/Kg)
WCDMA Band IV	RMC	Bottom Side	1712.6	3.080	2.51	24.5	24.25	3.263
		Bottom Side	1740	3.076	-0.91	24.5	24.25	3.258
		Bottom Side	1752.4	2.837	-2.97	24.5	24.22	3.026

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 10g (W/Kg)	Power Drift(%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaled SAR(W/Kg)
LTE Band 66	20M	QPSK	1	0	Bottom Side	1720	1.667	-3.95	25.50	24.51	2.094
			1	0	Bottom Side	1755	1.736	0.91	25.50	24.66	2.106
			1	0	Bottom Side	1770	2.537	1.33	25.50	25.05	2.814



12.5 Repeated SAR measurement

Band	Mode	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
WCDMA Band IV	RMC	Bottom Side	1712.6	0.998	0.969	1.030
				1.201	1.198	1.003
				1.01	0.964	1.048

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Bottom Side	1860	0.746	0.745	1.001
			1	0	Bottom Side	1880	0.771	0.753	1.024
			1	0	Bottom Side	1900	0.829	0.825	1.005
LTE Band 4	20M	QPSK	1	0	Bottom Side	1720	1.137	1.115	1.020
			1	0	Bottom Side	1732.5	0.996	0.967	1.030
			1	0	Bottom Side	1745	1.023	1.022	1.001
LTE Band 7	20M	QPSK	1	0	Bottom Side	2510	0.624	0.605	1.031
			1	0	Bottom Side	2535	0.671	0.659	1.018
			1	0	Bottom Side	2560	0.749	0.744	1.007
LTE Band 66	20M	QPSK	1	0	Bottom Side	1720	0.994	0.950	1.046
			1	0	Bottom Side	1755	1.112	1.005	1.106
			1	0	Bottom Side	1770	1.228	1.179	1.042

Band	Mode	Test Position	Freq.	Original Measured SAR 10g(W/kg)	1 st Repeated SAR 10g	Ratio
WCDMA Band IV	RMC	Bottom Side	1712.6	3.177	3.080	1.031
			1740	3.218	3.076	1.046
			1752.4	2.897	2.837	1.021

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 10g(W/kg)	1 st Repeated SAR 10g	Ratio
LTE Band 66	20M	QPSK	1	0	Bottom Side	1720	1.683	1.667	1.010
			1	0	Bottom Side	1755	1.782	1.736	1.026
			1	0	Bottom Side	1770	2.609	2.537	1.028

Note:

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



12.6 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

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

NOTE:

1. Bluetooth and WLAN can't simultaneous transmission at the same time.
2. For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
3. If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
4. KDB 447498 / 4.3.2 (2) when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:
 - a) $(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f} \text{ (GHz)} / x] \text{ W/kg}$ for test separation distances $\leq 50 \text{ mm}$;
Where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.
 - b) 0.4 W/Kg for 1-g SAR and 1.0 W/Kg for 10-g SAR, when the separation distance is $>50 \text{ mm}$.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Head	6.5	4.467	5	2.48	0.188
	Body			5	2.48	0.188
NFC	Head	-42	0.0001	5	0.01356	0.0000002
	Body			5	0.01356	0.0000002



Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN+NFC	Head	GSM	0.272	1.029
		NFC	0.0000002	
		2.4G WLAN	0.757	
	Body	GSM	0.438	0.652
		NFC	0.0000002	
		2.4G WLAN	0.214	
GSM + 5G WLAN+NFC	Head	GSM	0.272	0.863
		NFC	0.0000002	
		5G WLAN	0.591	
	Body	GSM	0.438	0.861
		NFC	0.0000002	
		5G WLAN	0.423	
GSM + BT+NFC	Head	GSM	0.272	0.460
		NFC	0.0000002	
		BT	0.188	
	Body	GSM	0.438	0.626
		NFC	0.0000002	
		BT	0.188	
WCDMA + 2.4G WLAN+NFC	Head	WCDMA	0.296	1.053
		NFC	0.0000002	
		2.4G WLAN	0.757	
	Body	WCDMA	1.272	1.486
		NFC	0.0000002	
		2.4G WLAN	0.214	
WCDMA + 5G WLAN+NFC	Head	WCDMA	0.296	0.887
		NFC	0.0000002	
		5G WLAN	0.591	
	Body	WCDMA-Bottom Side	1.272	1.329
		NFC	0.0000002	
		5G WLAN-Bottom Side	0.057	
		WCDMA-Top Side	0.029	0.452
		NFC	0.0000002	
		5G WLAN-Top Side	0.423	
WCDMA + BT+NFC	Head	WCDMA	0.296	0.484
		NFC	0.0000002	
		BT	0.188	
	Body	WCDMA	1.272	1.460
		NFC	0.0000002	
		BT	0.188	
LTE + 2.4G WLAN+NFC	Head	LTE	0.282	1.039
		NFC	0.0000002	
		2.4G WLAN	0.757	
	Body	LTE	1.362	1.576
		NFC	0.0000002	
		2.4G WLAN	0.214	



LTE + 5G WLAN+NFC	Head	LTE	0.282	0.873
		NFC	0.0000002	
		5G WLAN	0.591	
	Body	LTE-Bottom Side	1.362	1.419
		NFC	0.0000002	
		5G WLAN-Bottom Side	0.057	
		LTE WLAN-Top Side	0.035	0.458
		NFC	0.0000002	
		5G WLAN-Top Side	0.423	
LTE + BT+NFC	Head	LTE	0.282	0.470
		NFC	0.0000002	
		BT	0.188	
	Body	LTE	1.362	1.550
		NFC	0.0000002	
		BT	0.188	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2022.02.11	2025.02.10
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2022.02.11	2025.02.10
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2022.02.11	2025.02.10
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2022.02.11	2025.02.10
5000MHz Dipole	MVG	DIP5G000	SN 06/22 DIP5G000-653	2022.02.11	2025.02.10
E-Field Probe	MVG	EPGO364	SN 04/22 EPGO364	2024.02.07	2025.02.06
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2024.02.07	2025.02.06
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184-HC	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116184	2024.02.23	2025.02.22
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10



Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.02.05	2026.02.04
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.02.05	2026.02.04
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.02.05	2026.02.04
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.02.05	2026.02.04
2300MHz Dipole	MVG	DIP2G300	SN 06/22 DIP2G100-644	2025.02.05	2026.02.04
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.02.05	2026.02.04
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.02.05	2026.02.04
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-HC	2024.03.25	2025.03.24
Multi Meter	DMM6500	Keithley	4527252	2024.03.15	2025.03.14
Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Wireless Communication Test Set	R&S	CMW500	137737	2024.03.09	2025.03.08
Power Sensor	R&S	Z11	116655	2024.03.09	2025.03.08
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2024.03.11	2025.03.10
Temperature hygrometer	N/A	TP101	N/A	2024.03.11	2025.03.10



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

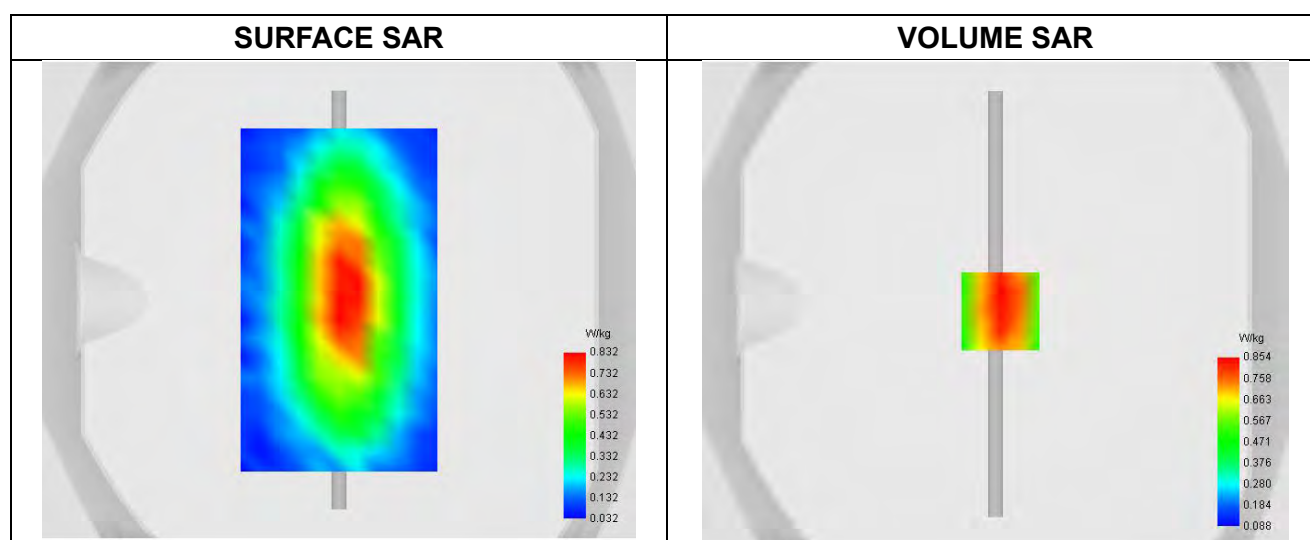
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-01-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	41.61
Conductivity (S/m)	0.87
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1

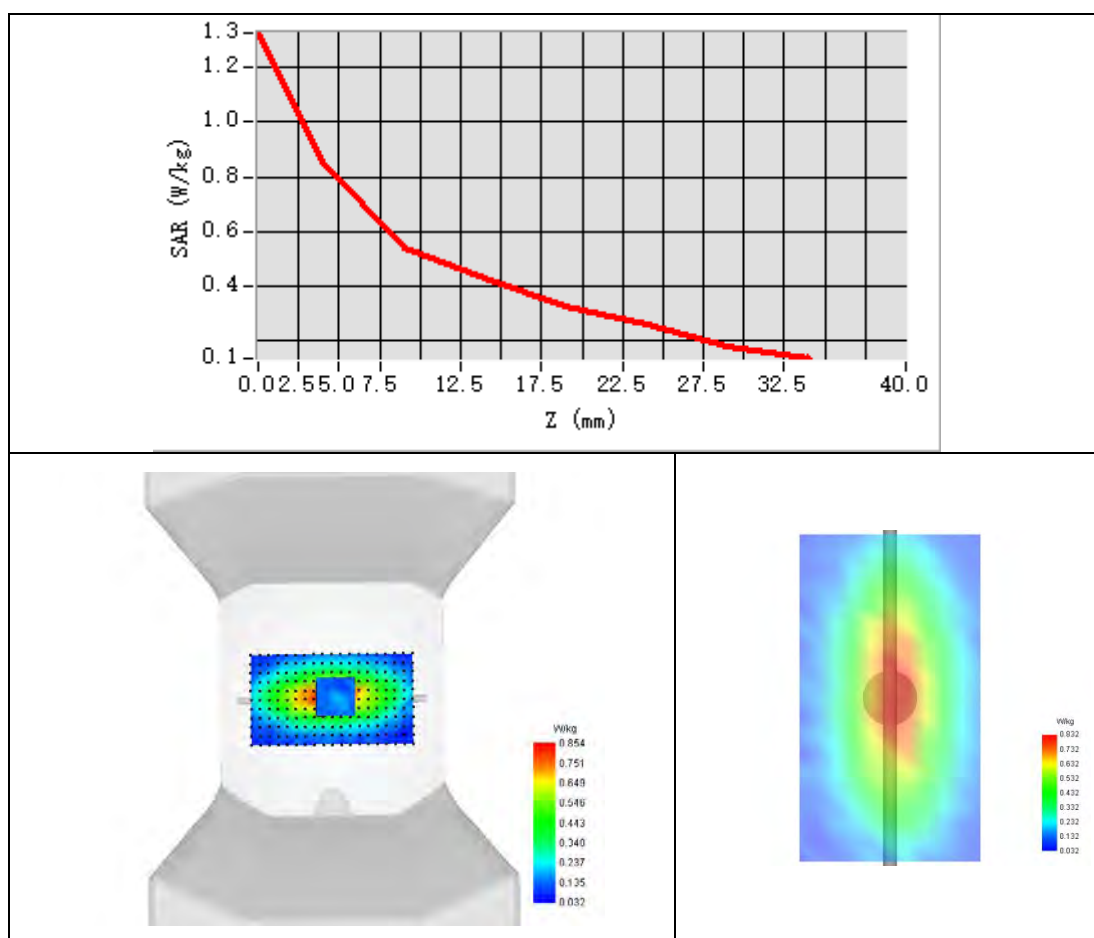


Maximum location: X=2.00, Y=3.00 ; SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.519
SAR 1g (W/Kg)	0.817



Z Axis Scan





System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

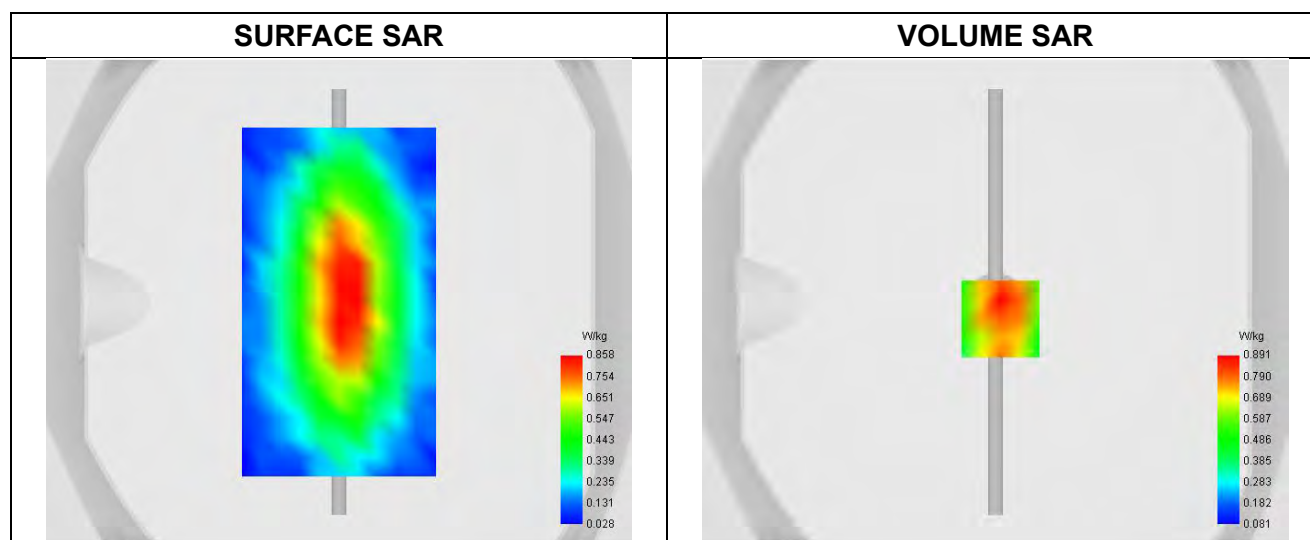
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-02-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.65
Conductivity (S/m)	0.91
Probe	SN 04/22 EPGO364
ConvF	1.67
Crest factor:	1:1

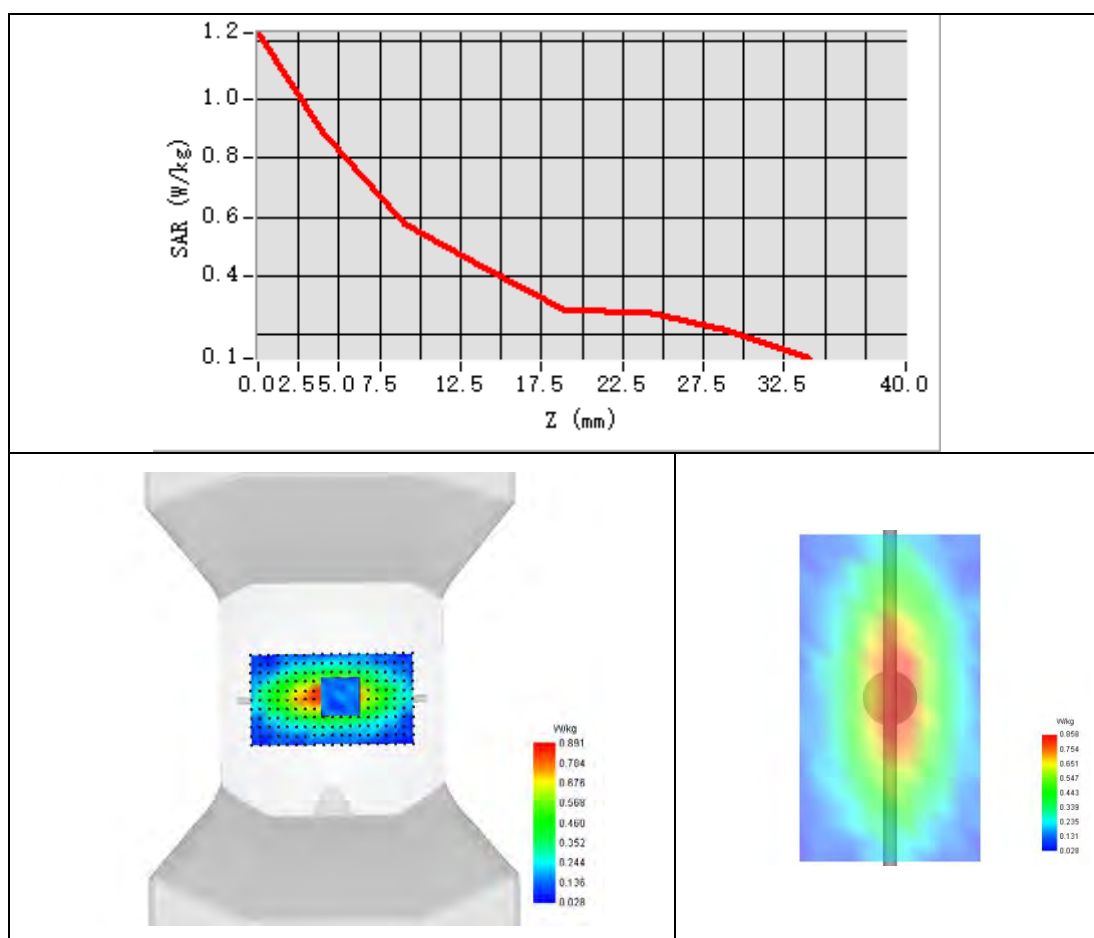


Maximum location: X=2.00, Y=7.00 ; SAR Peak: 1.30 W/kg

SAR 10g (W/Kg)	0.563
SAR 1g (W/Kg)	0.845



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

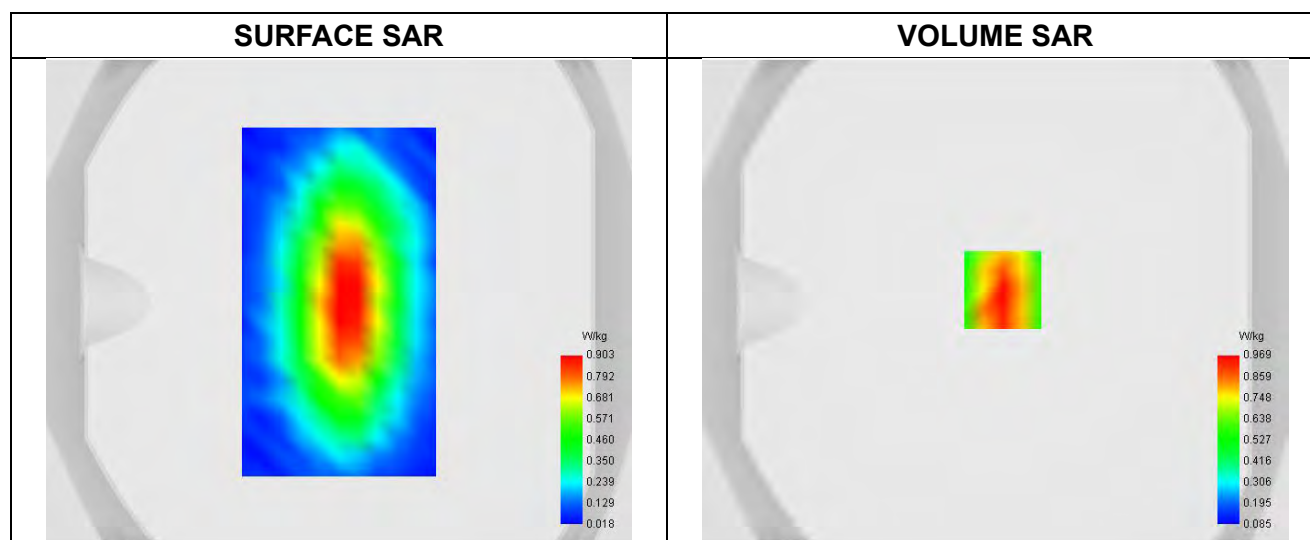
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-01-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.26
Conductivity (S/m)	0.89
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

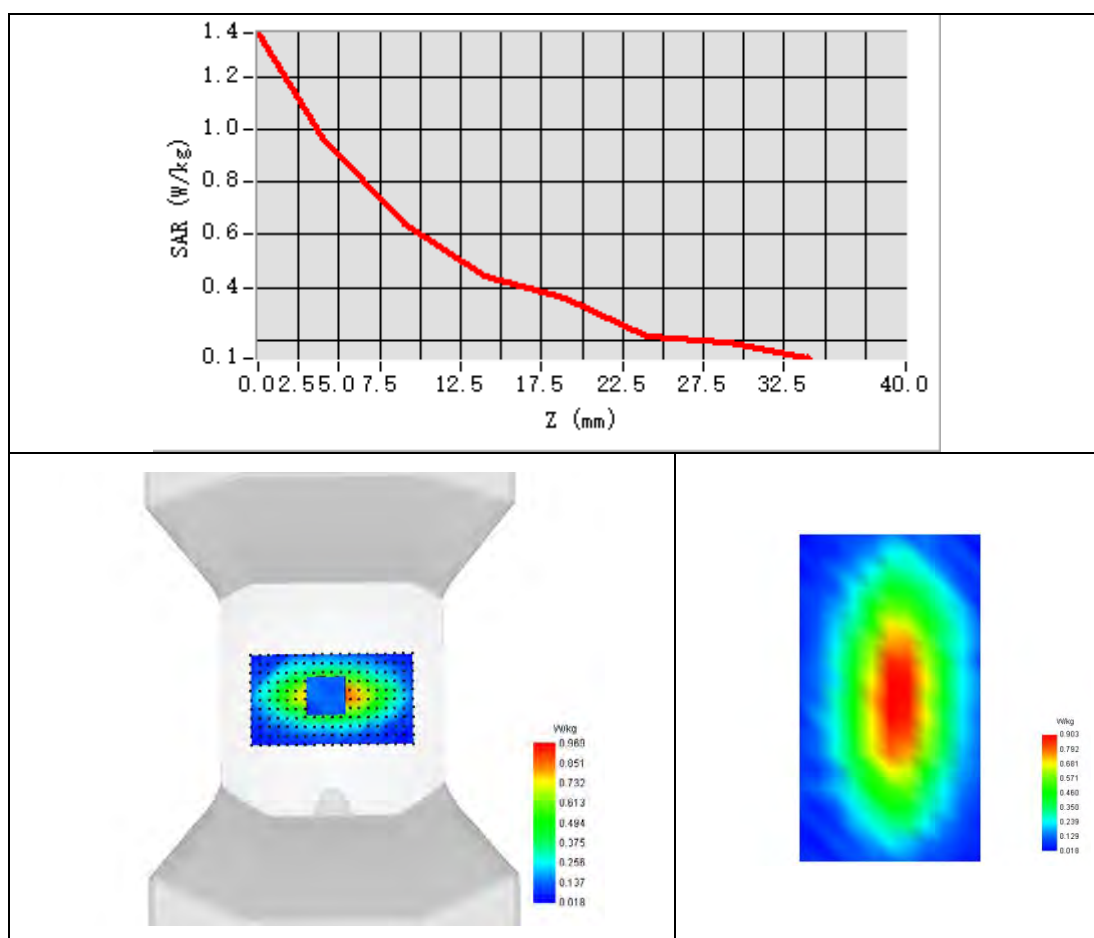


Maximum location: X=3.00, Y=5.00 ; SAR Peak: 1.37 W/kg

SAR 10g (W/Kg)	0.628
SAR 1g (W/Kg)	1.014



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

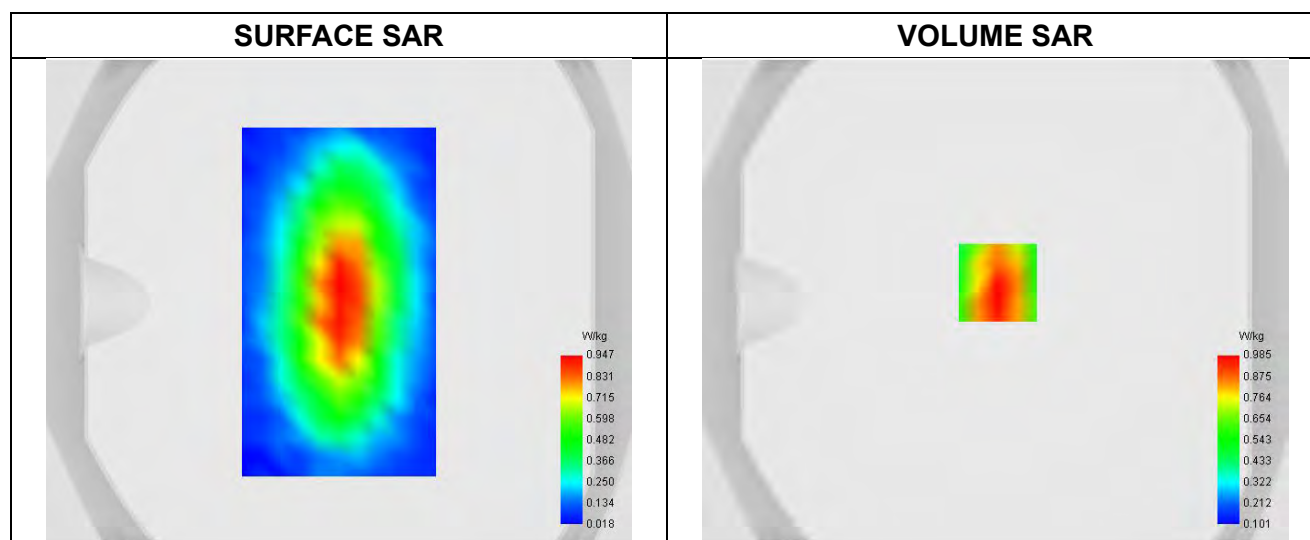
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-02-12

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	42.32
Conductivity (S/m)	0.89
Probe	SN 04/22 EPGO364
ConvF	1.72
Crest factor:	1:1

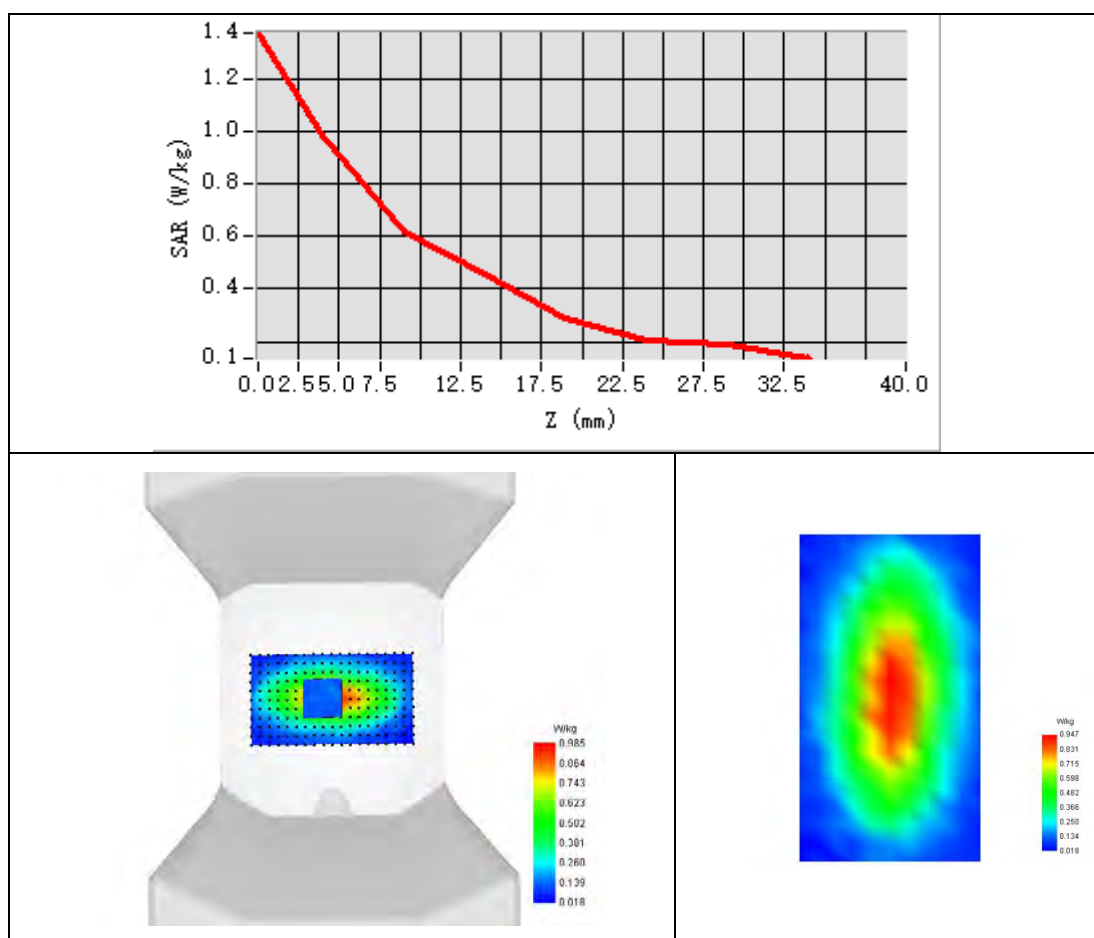


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	0.946



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

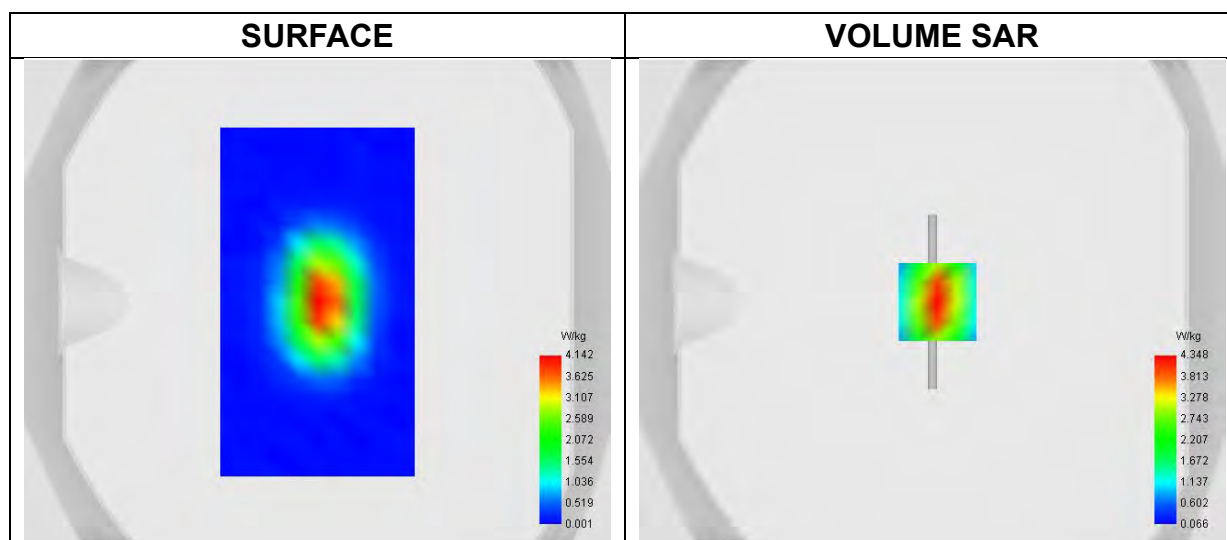
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-13

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.33
Conductivity (S/m)	1.43
Probe	SN 04/22 EPGO364
ConvF	1.92
Crest factor:	1:1

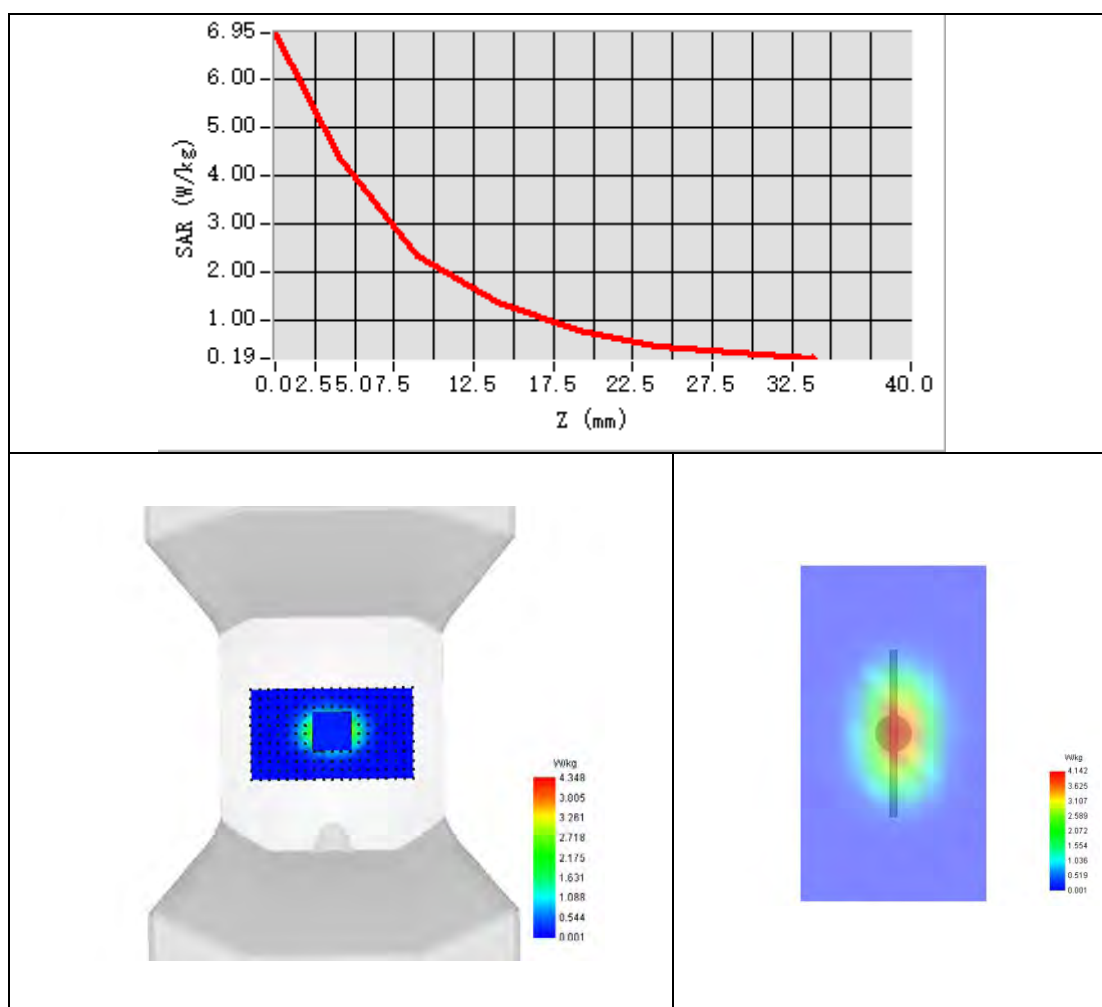


Maximum location: X=2.00, Y=0.00 ; SAR Peak: 6.91 W/kg

SAR 10g (W/Kg)	2.048
SAR 1g (W/Kg)	3.913



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

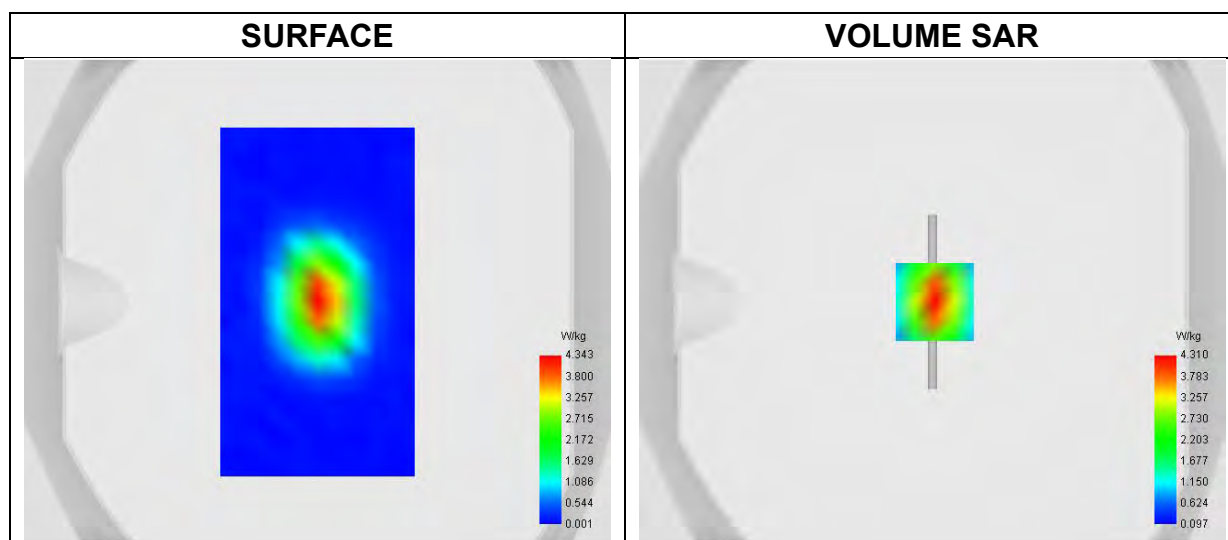
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.67
Conductivity (S/m)	1.45
Probe	SN 04/22 EPGO364
ConvF	1.92
Crest factor:	1:1

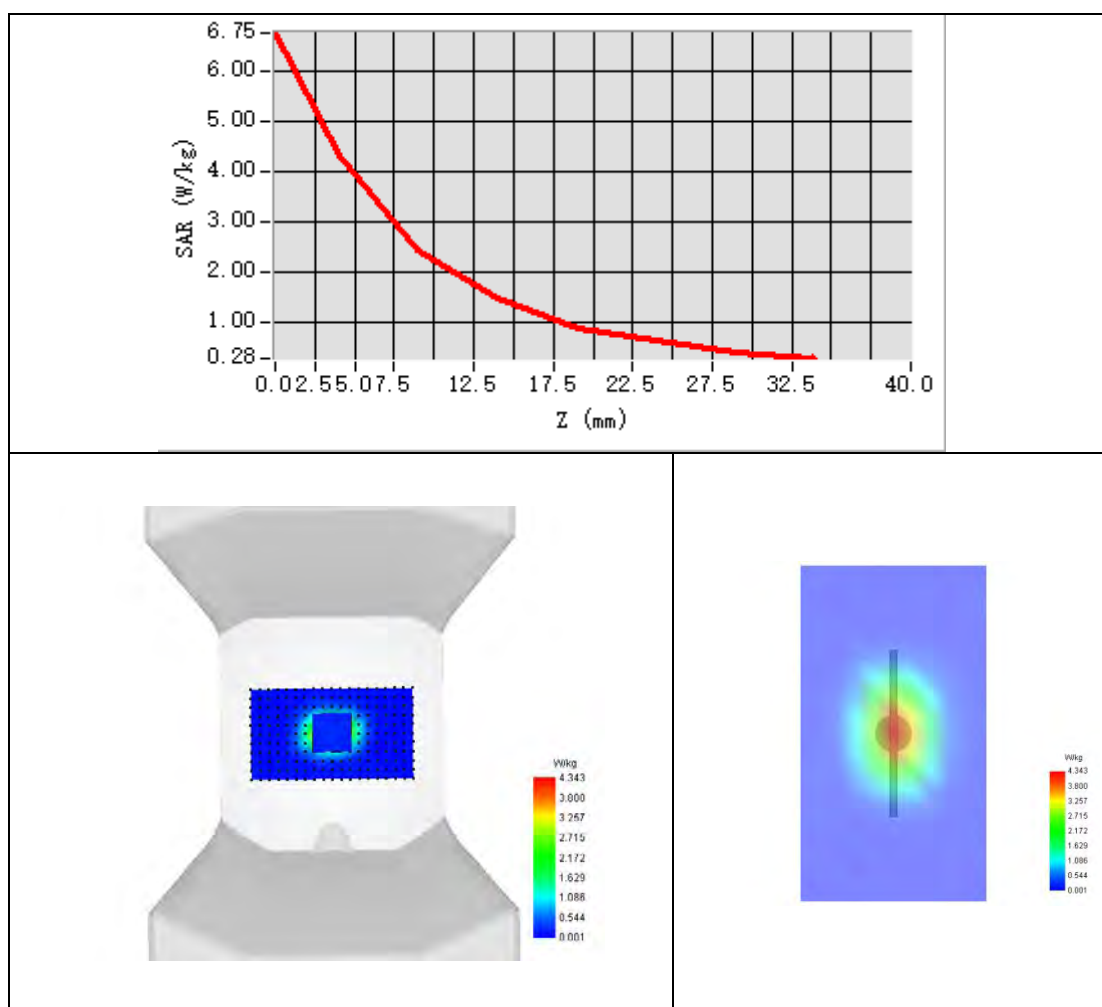


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.69 W/kg

SAR 10g (W/Kg)	2.032
SAR 1g (W/Kg)	3.904



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

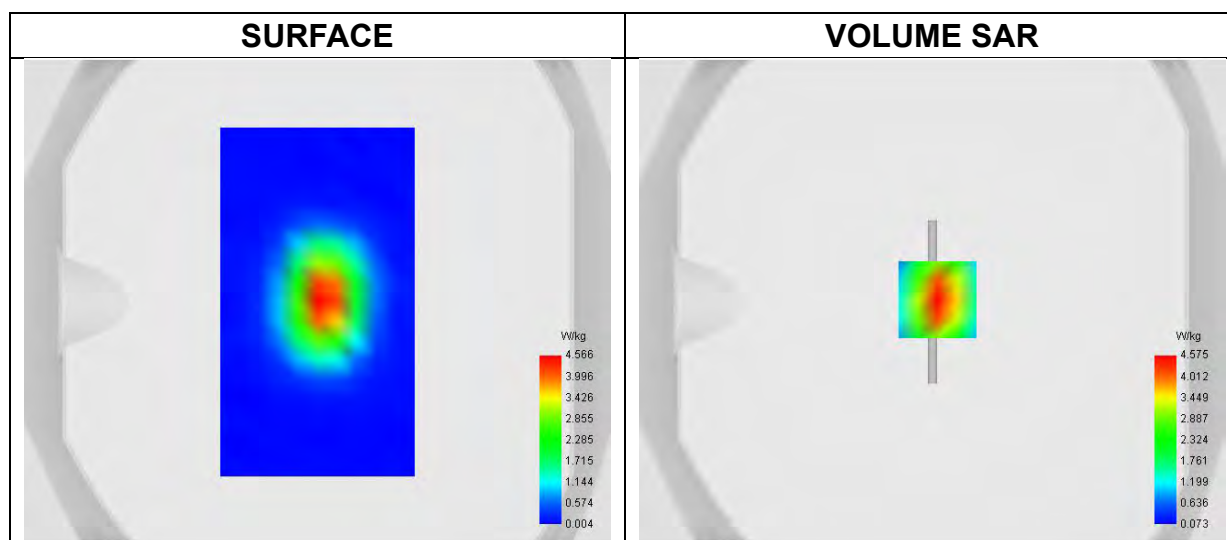
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-11

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.96
Conductivity (S/m)	1.38
Probe	SN 04/22 EPGO364
ConvF	2.20
Crest factor:	1:1

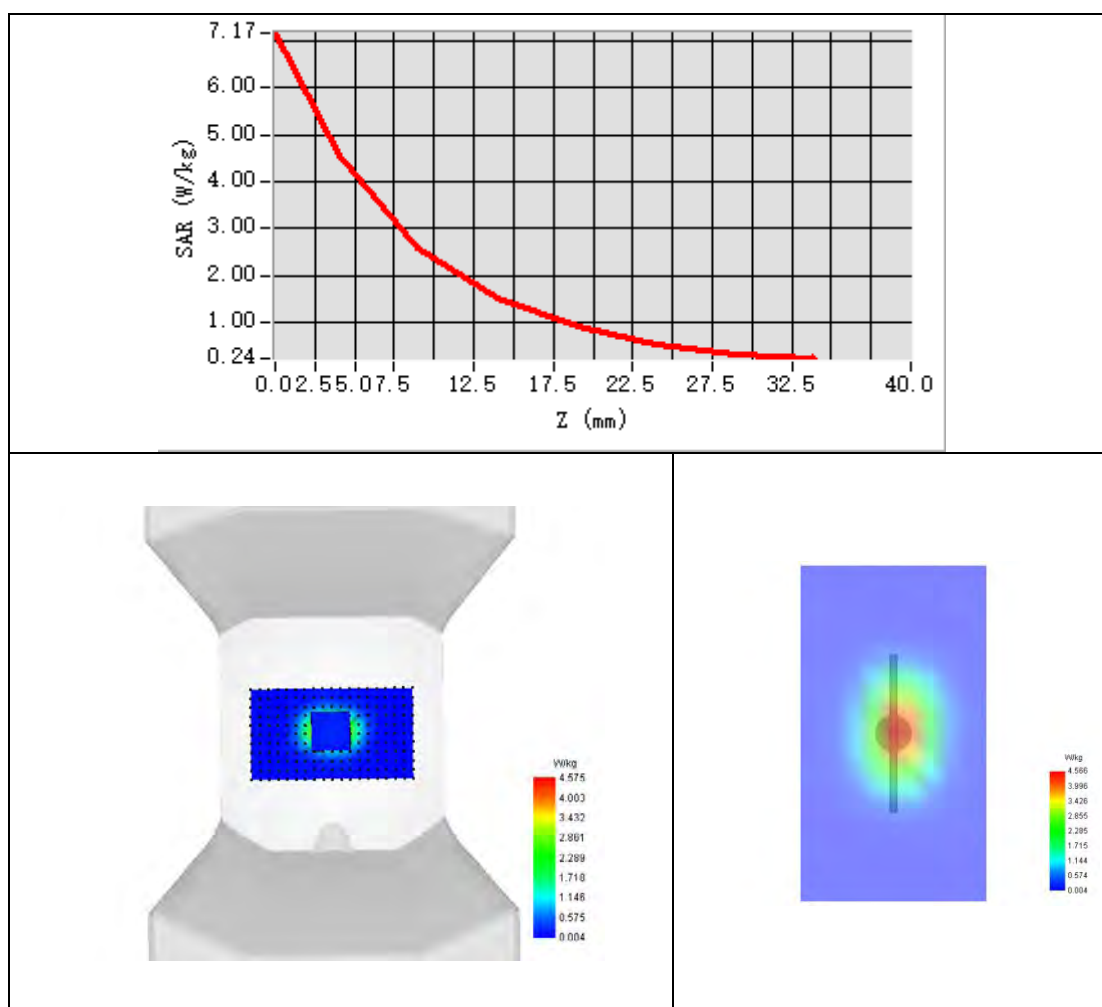


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 7.14 W/kg

SAR 10g (W/Kg)	2.042
SAR 1g (W/Kg)	4.129



Z Axis Scan





System Performance Check Data (2300MHz)

Type: Phone measurement (Complete)

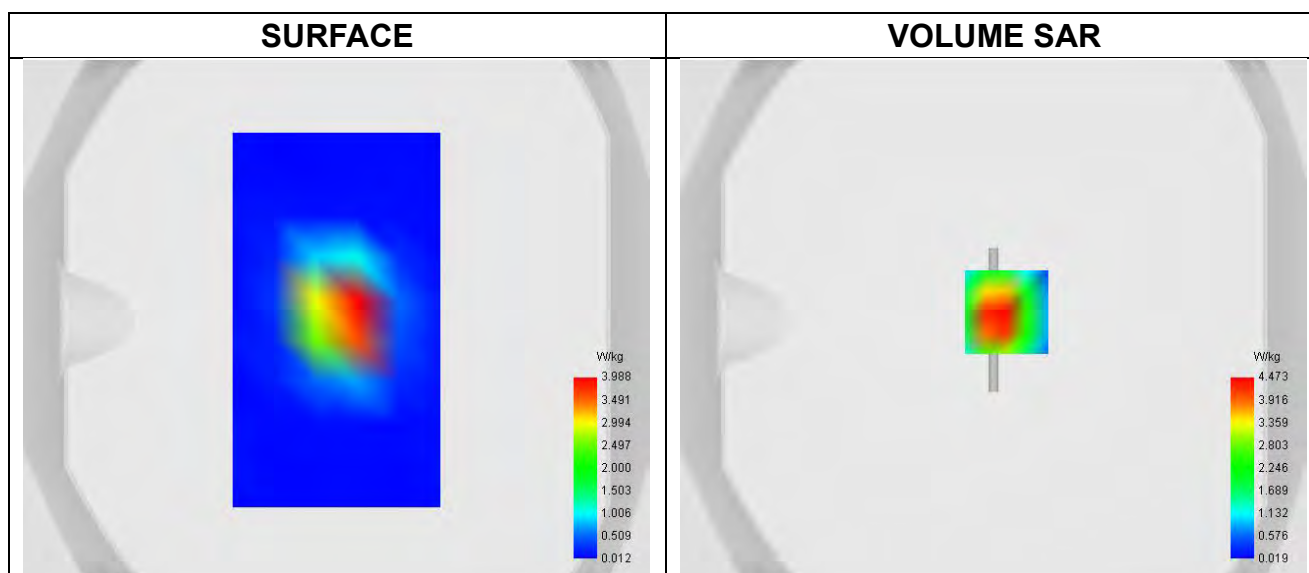
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-14

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Channels	Middle
Signal	CW
Frequency (MHz)	2300.000
Relative permittivity	39.64
Conductivity (S/m)	1.65
Probe	SN 04/22 EPGO364
ConvF	2.32
Crest factor:	1:1

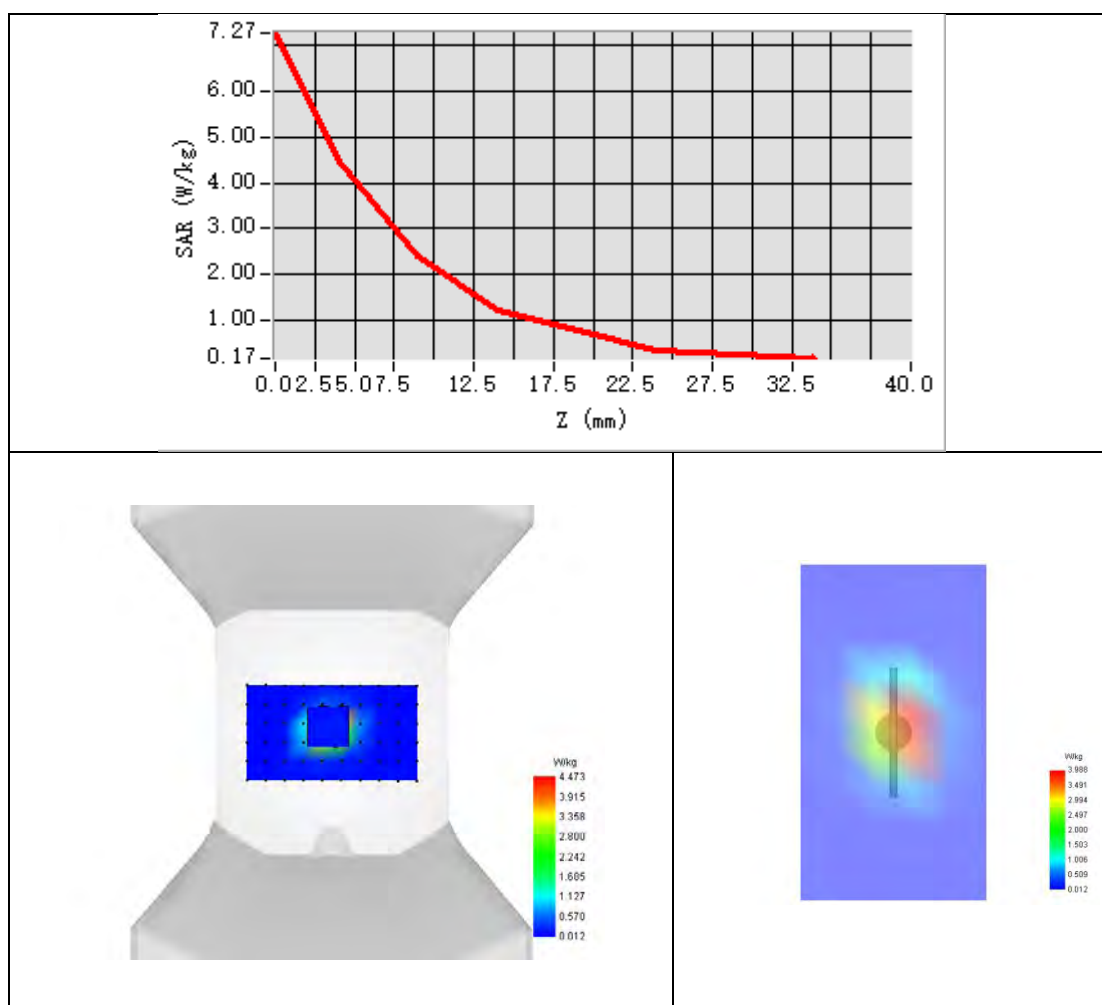


Maximum location: X=3.00, Y=0.00 ; SAR Peak: 8.28 W/kg

SAR 10g (W/Kg)	2.045
SAR 1g (W/Kg)	4.251



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

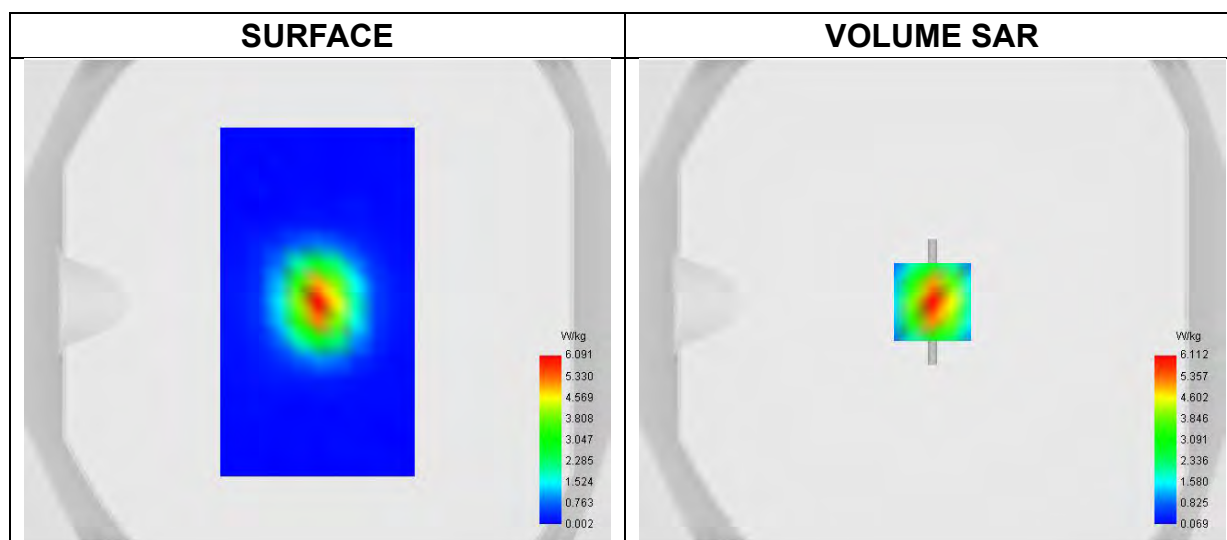
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.49
Conductivity (S/m)	1.79
Probe	SN 04/22 EPGO364
ConvF	2.33
Crest factor:	1:1

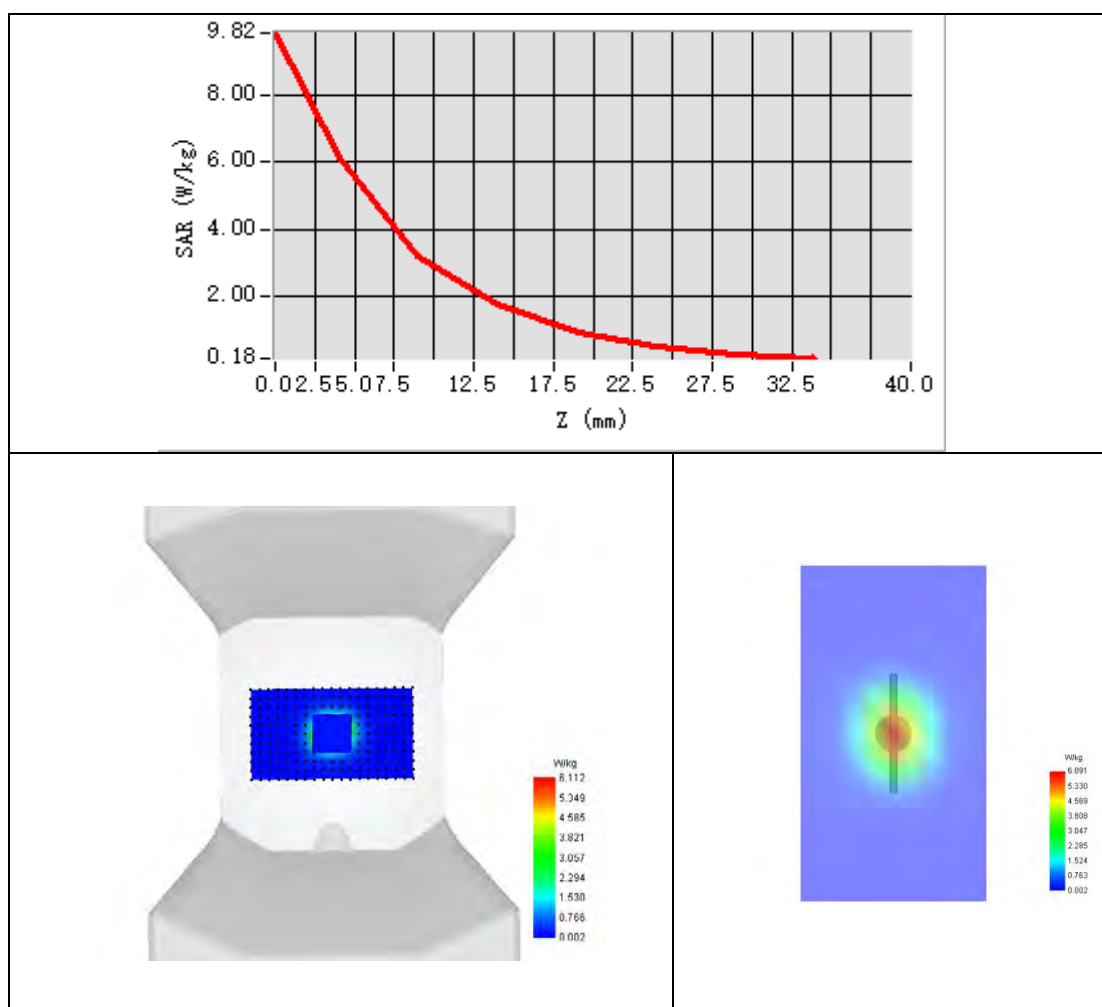


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 9.77 W/kg

SAR 10g (W/Kg)	2.356
SAR 1g (W/Kg)	5.420



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

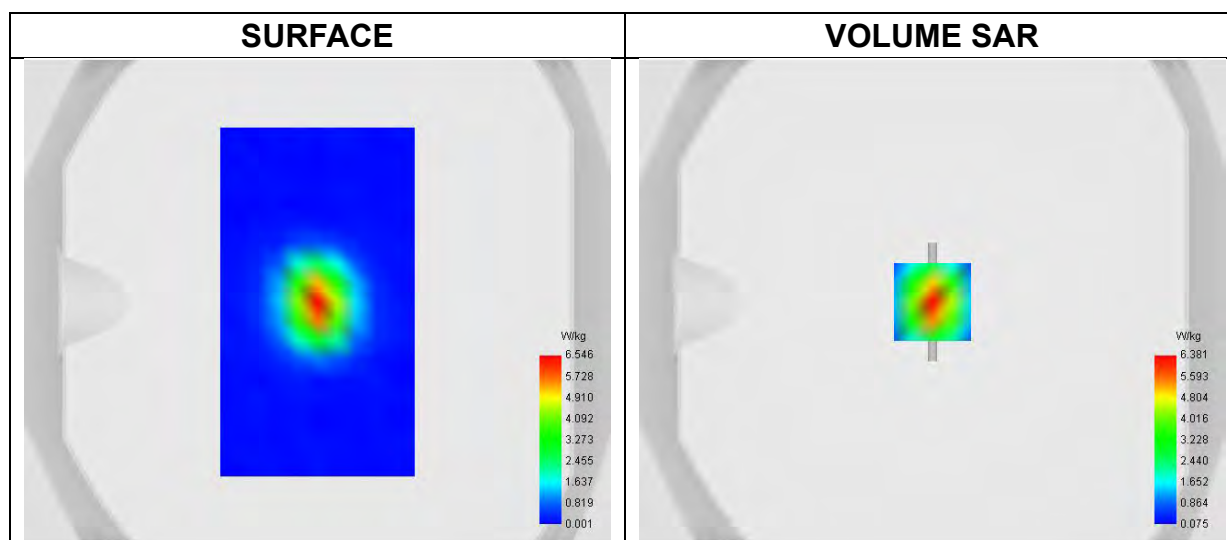
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-01-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.19
Conductivity (S/m)	2.01
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

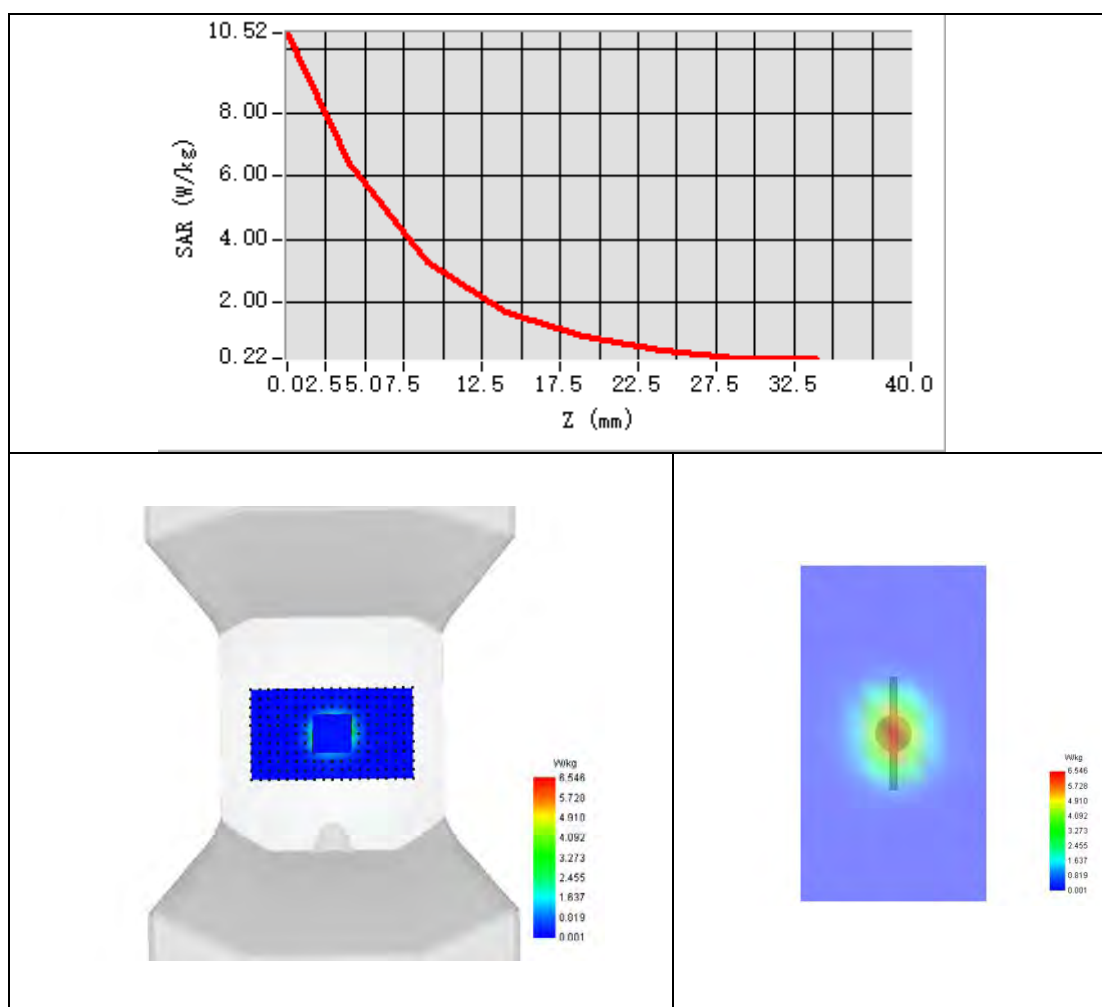


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.40 W/kg

SAR 10g (W/Kg)	2.362
SAR 1g (W/Kg)	5.690



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

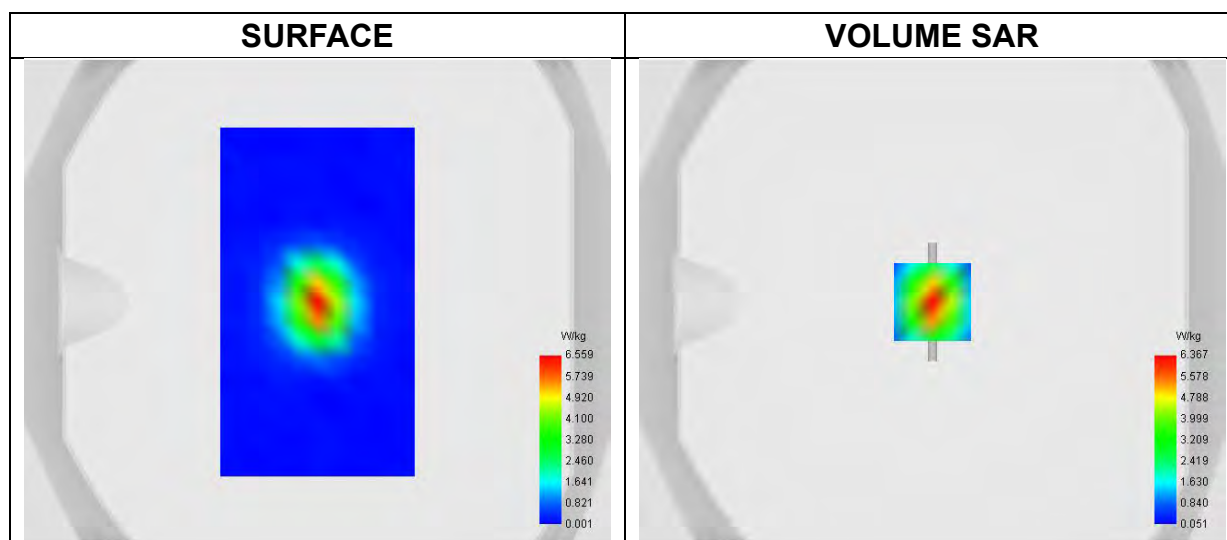
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-02-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.65
Conductivity (S/m)	1.93
Probe	SN 04/22 EPGO364
ConvF	2.37
Crest factor:	1:1

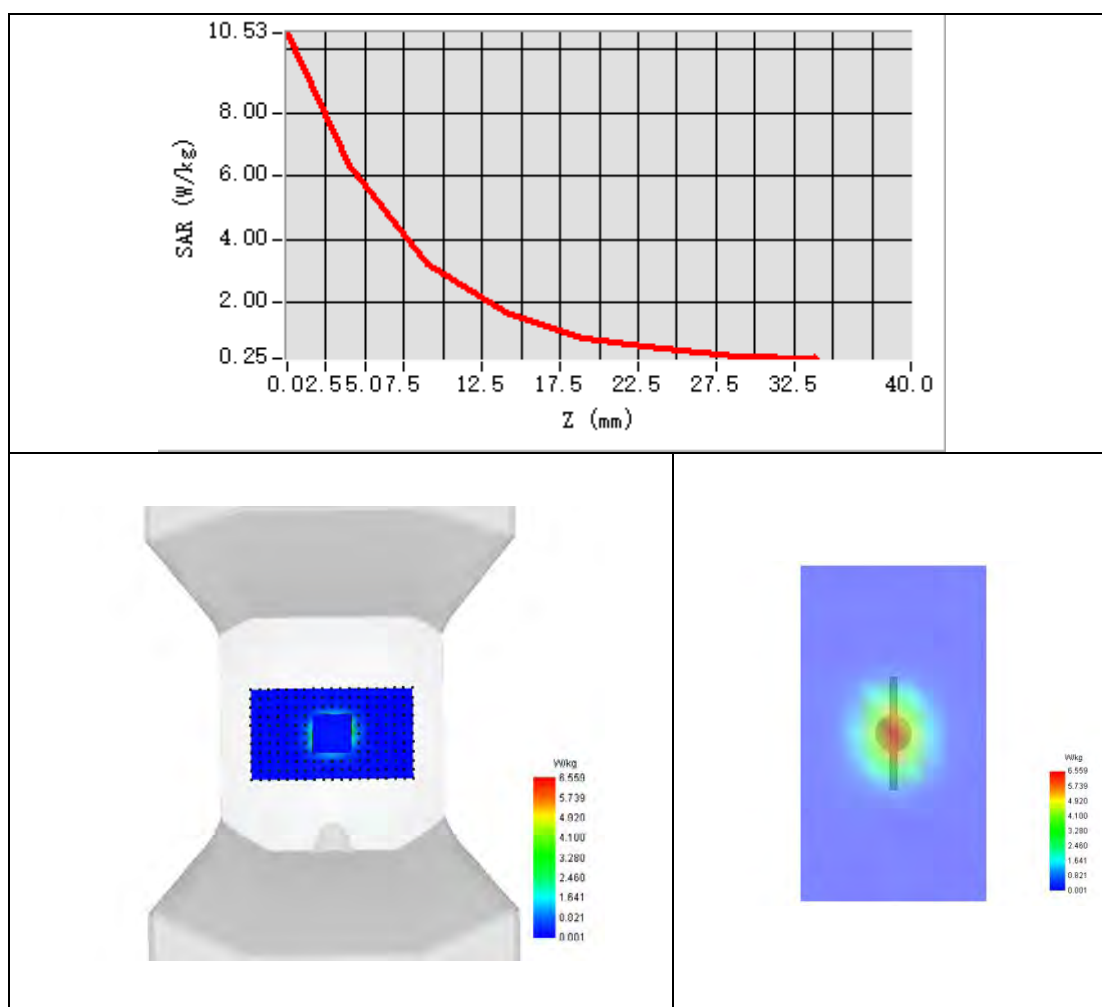


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.45 W/kg

SAR 10g (W/Kg)	2.356
SAR 1g (W/Kg)	5.625



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

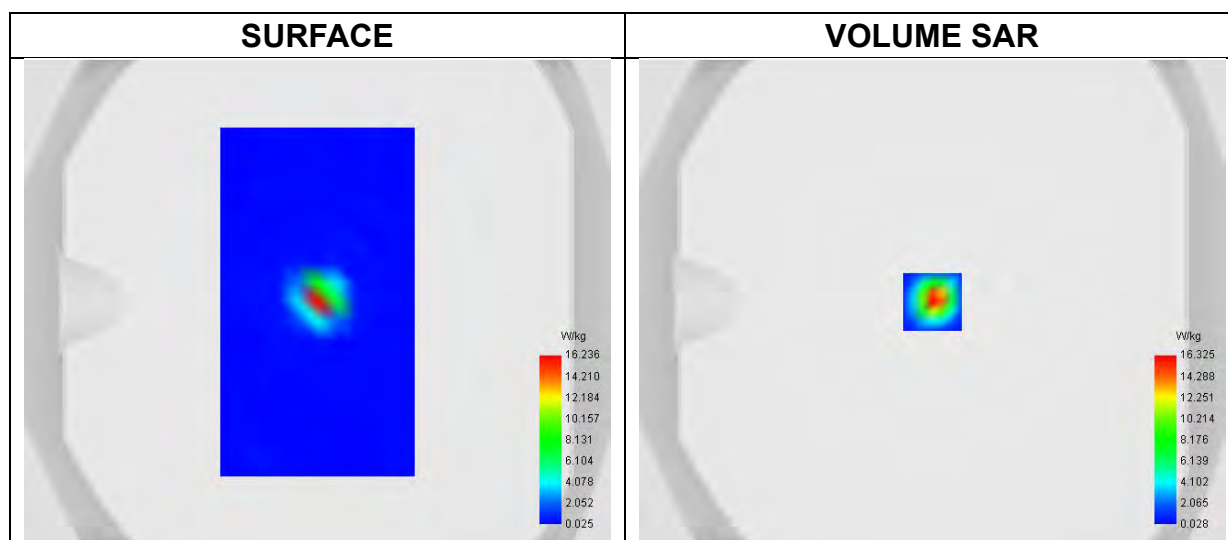
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-01-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	36.84
Conductivity (S/m)	4.62
Probe	SN 04/22 EPG0364
ConvF	1.98
Crest factor:	1:1

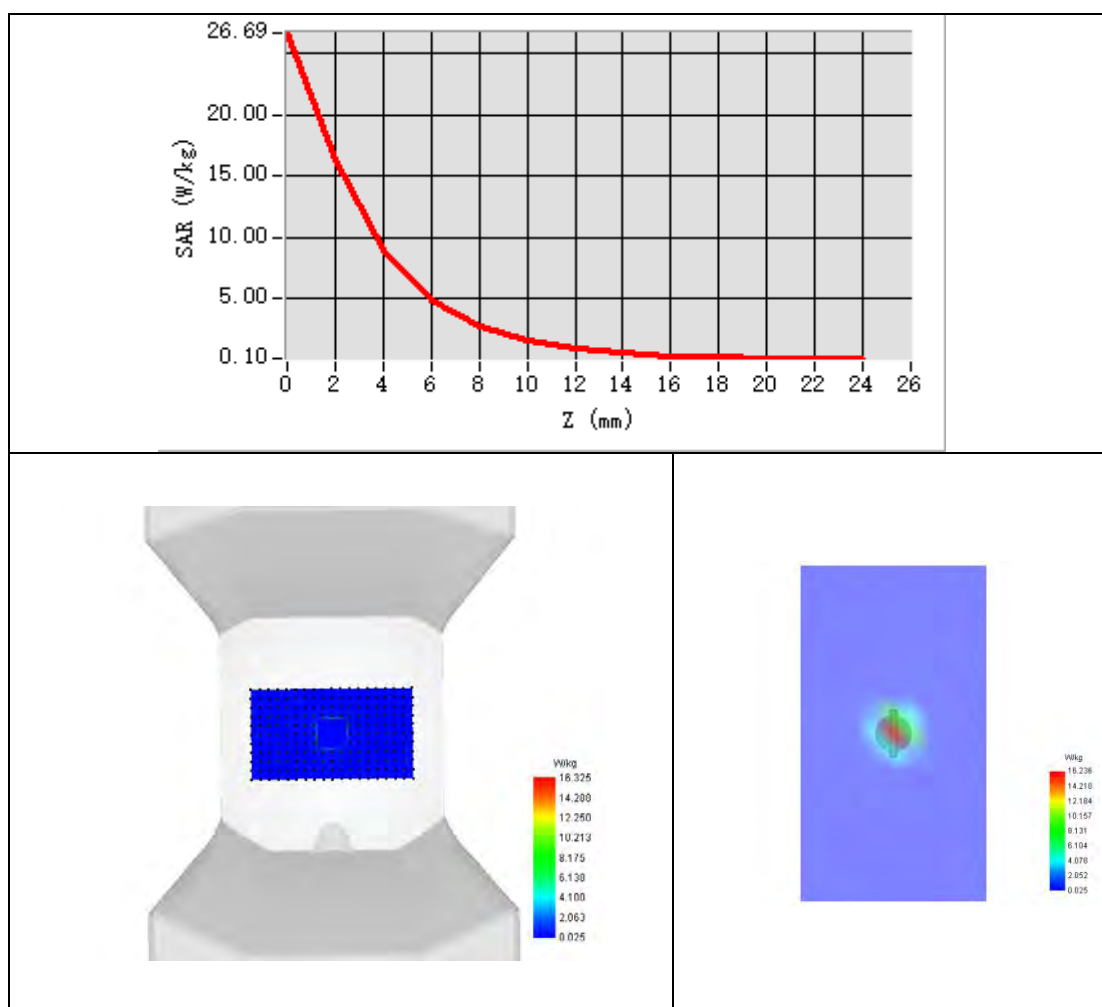


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 28.79 W/kg

SAR 10g (W/Kg)	2.336
SAR 1g (W/Kg)	8.077



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

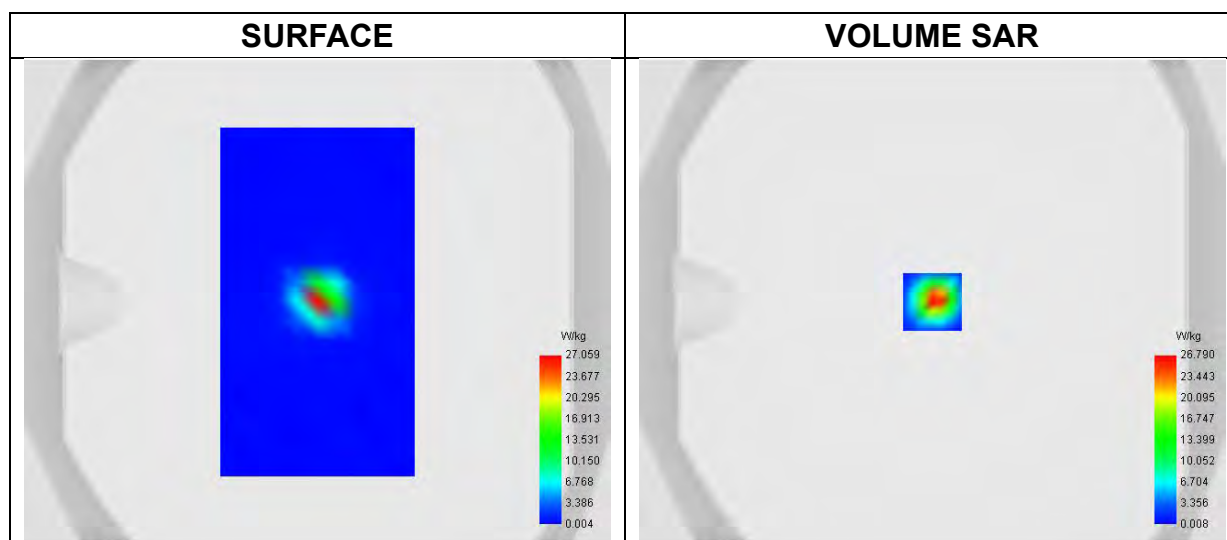
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-01-17

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.57
Conductivity (S/m)	4.85
Probe	SN 04/22 EPGO364
ConvF	1.83
Crest factor:	1:1

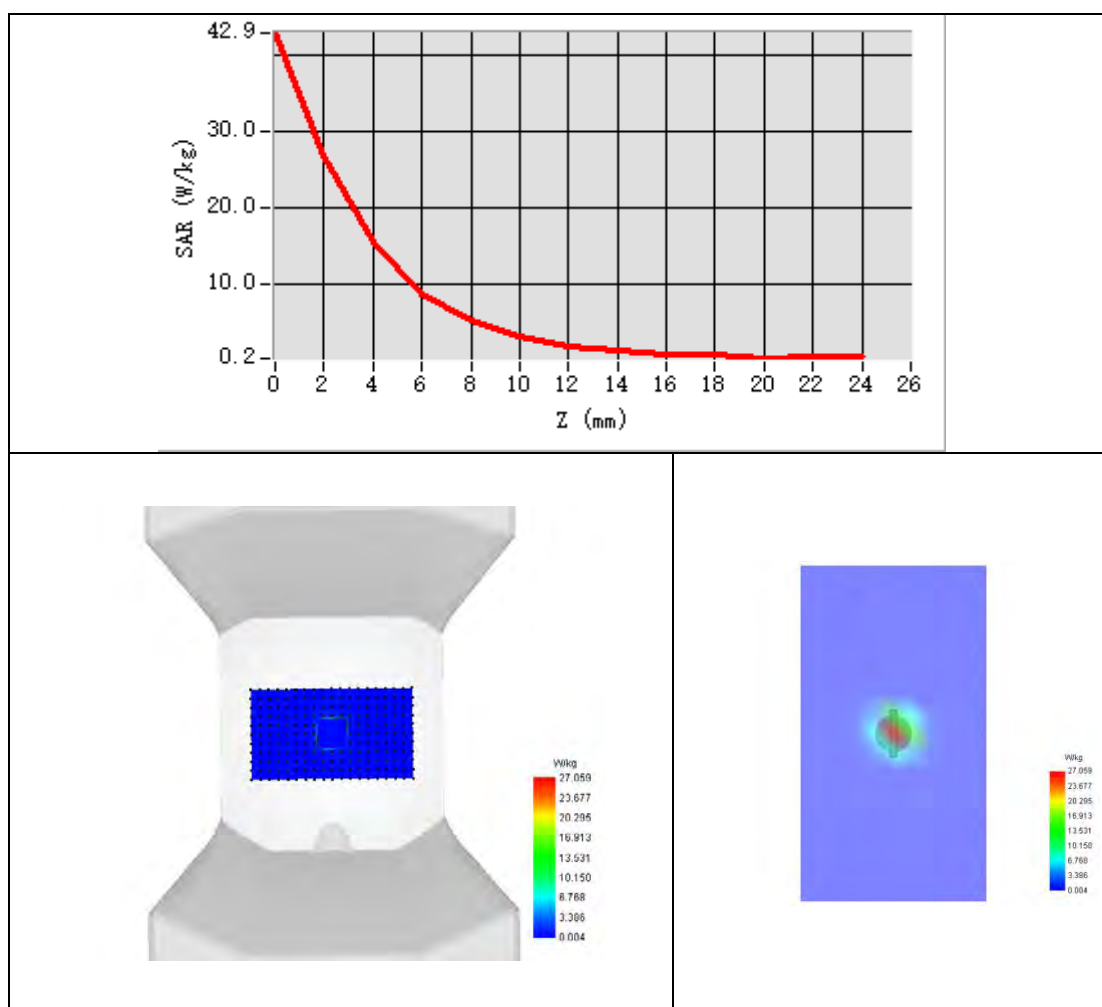


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 46.43 W/kg

SAR 10g (W/Kg)	2.402
SAR 1g (W/Kg)	8.438



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

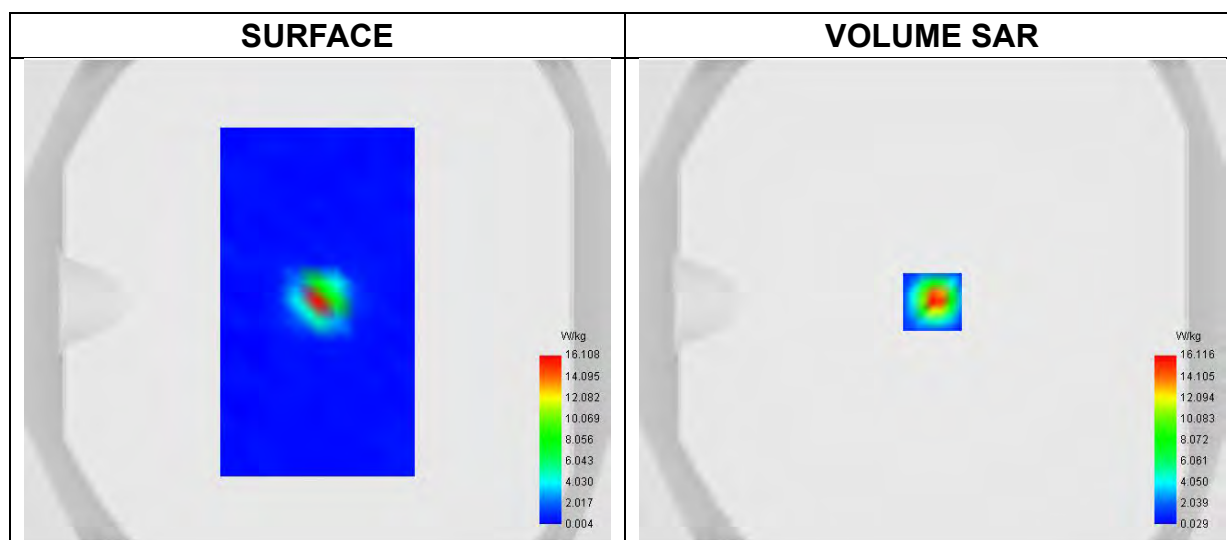
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-01-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	36.68
Conductivity (S/m)	5.10
Probe	SN 04/22 EPG0364
ConvF	1.86
Crest factor:	1:1

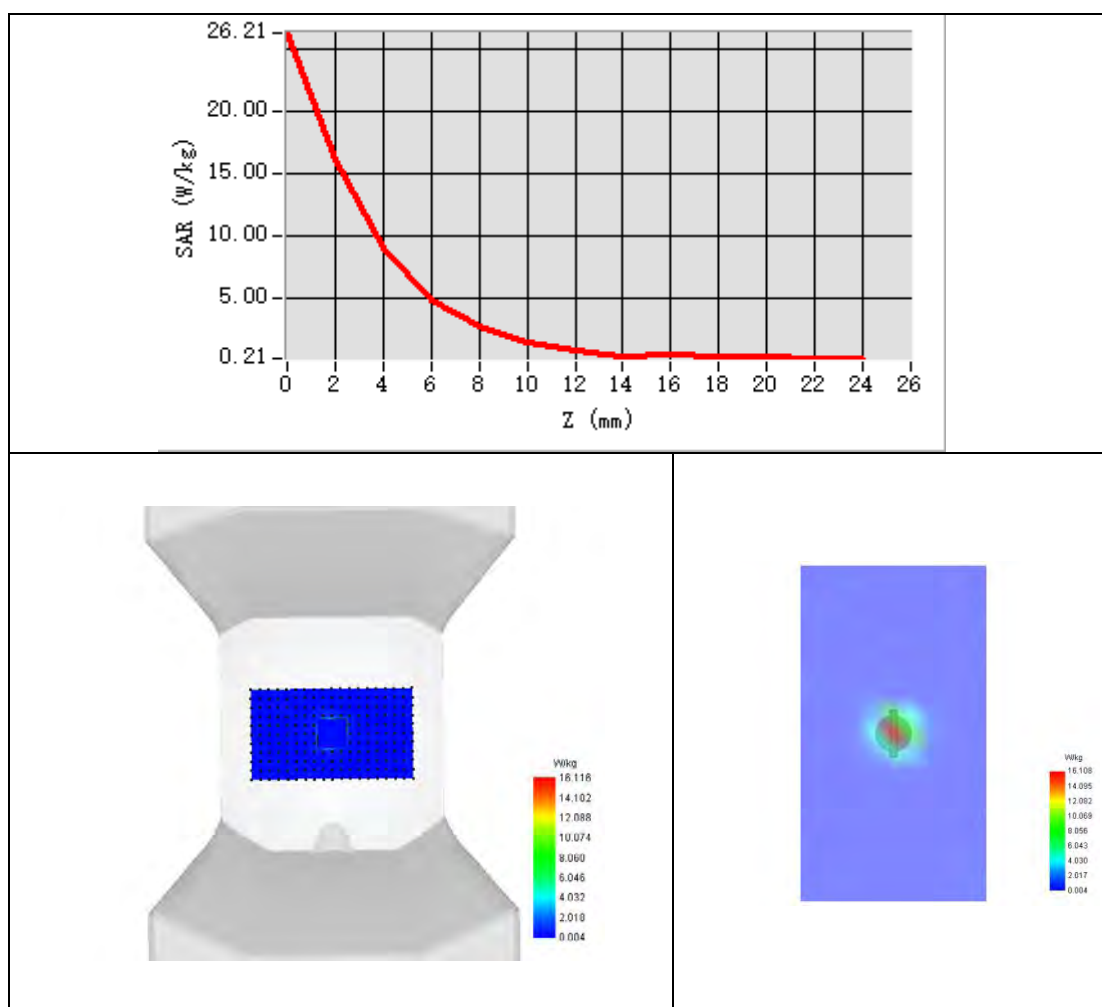


Maximum location: X=-0.00, Y=0.00 ; SAR Peak: 27.99 W/kg

SAR 10g (W/Kg)	2.311
SAR 1g (W/Kg)	8.129



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

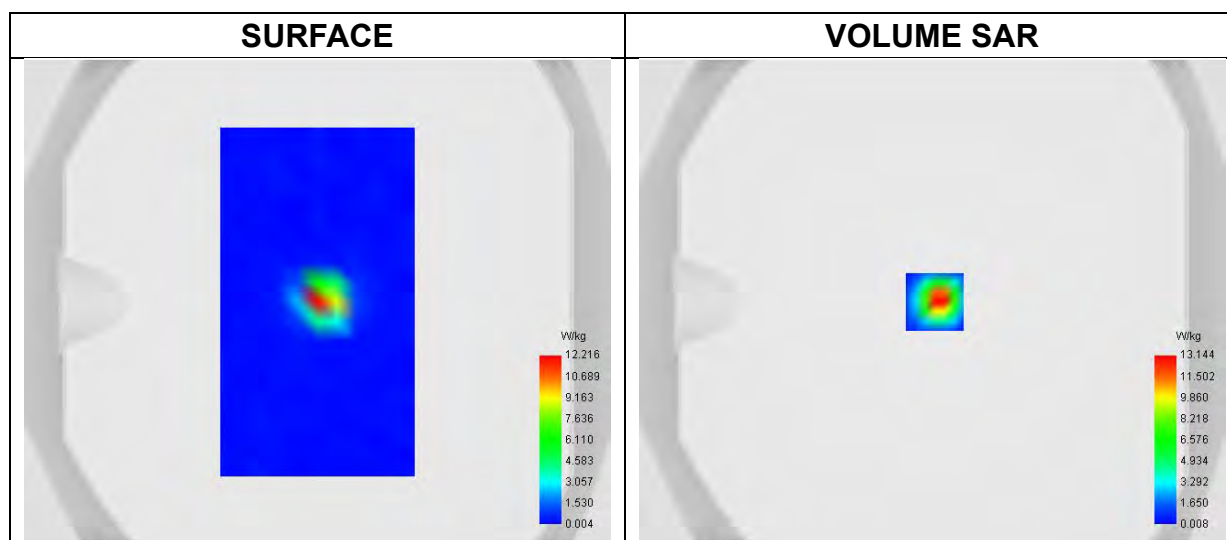
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-01-15

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	35.94
Conductivity (S/m)	5.22
Probe	SN 04/22 EPG0364
ConvF	1.71
Crest factor:	1:1

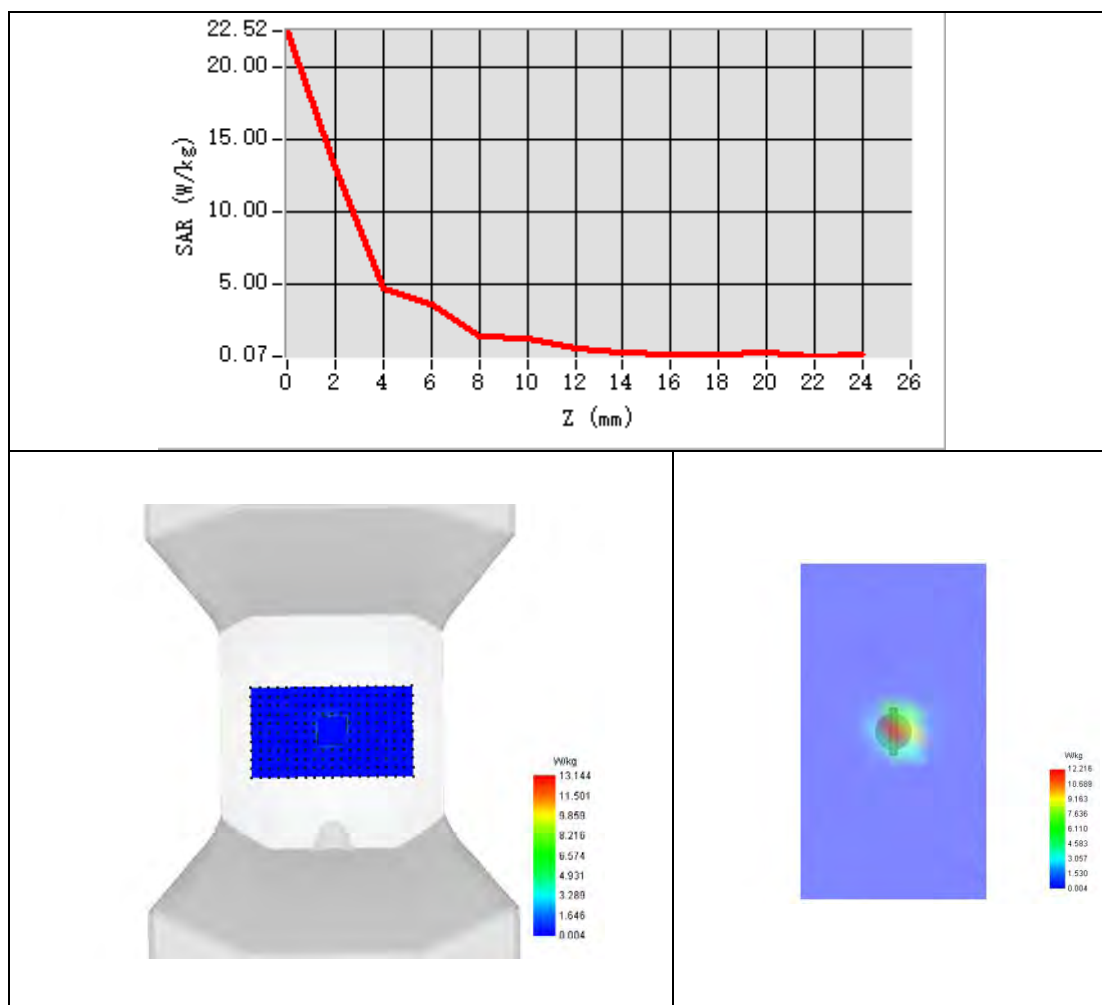


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 24.09 W/kg

SAR 10g (W/Kg)	2.393
SAR 1g (W/Kg)	8.172



Z Axis Scan



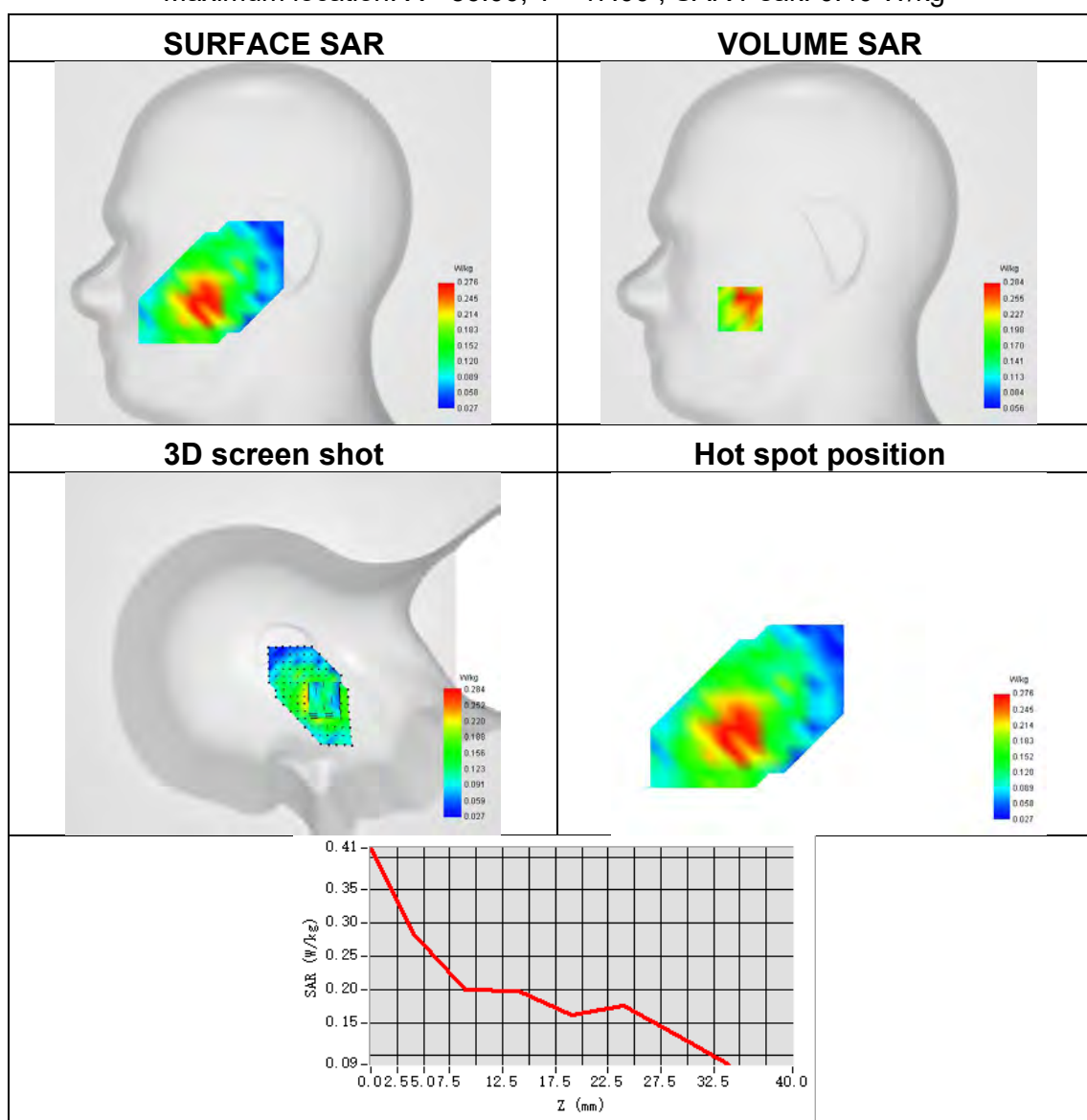


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.270
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

Maximum location: X=-56.00, Y=-47.00 ; SAR Peak: 0.40 W/kg

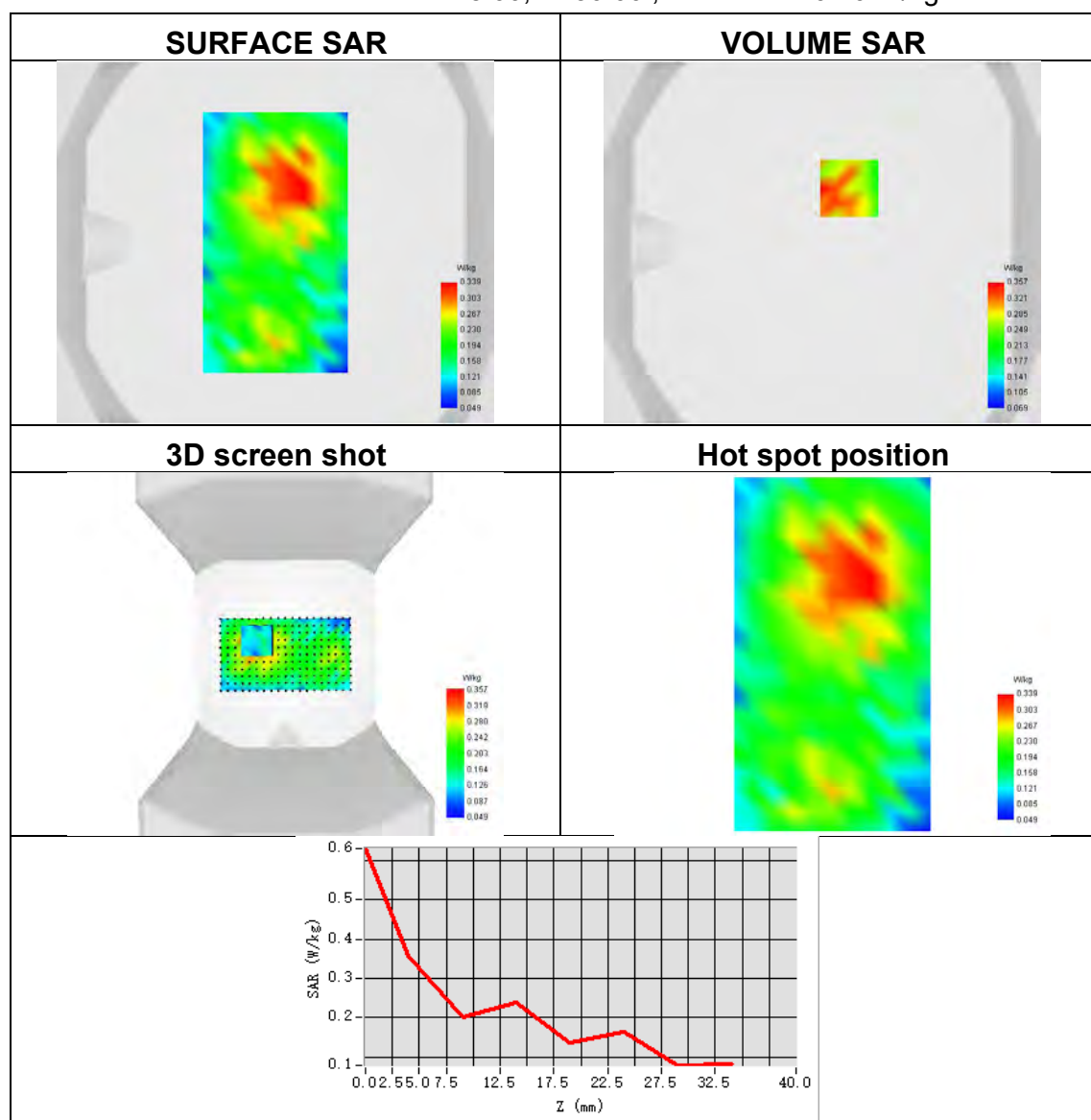




Plot 2:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	836.6
SAR 10g (W/Kg)	0.217
SAR 1g (W/Kg)	0.333
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

Maximum location: X=15.00, Y=30.00 ; SAR Peak: 0.46 W/kg

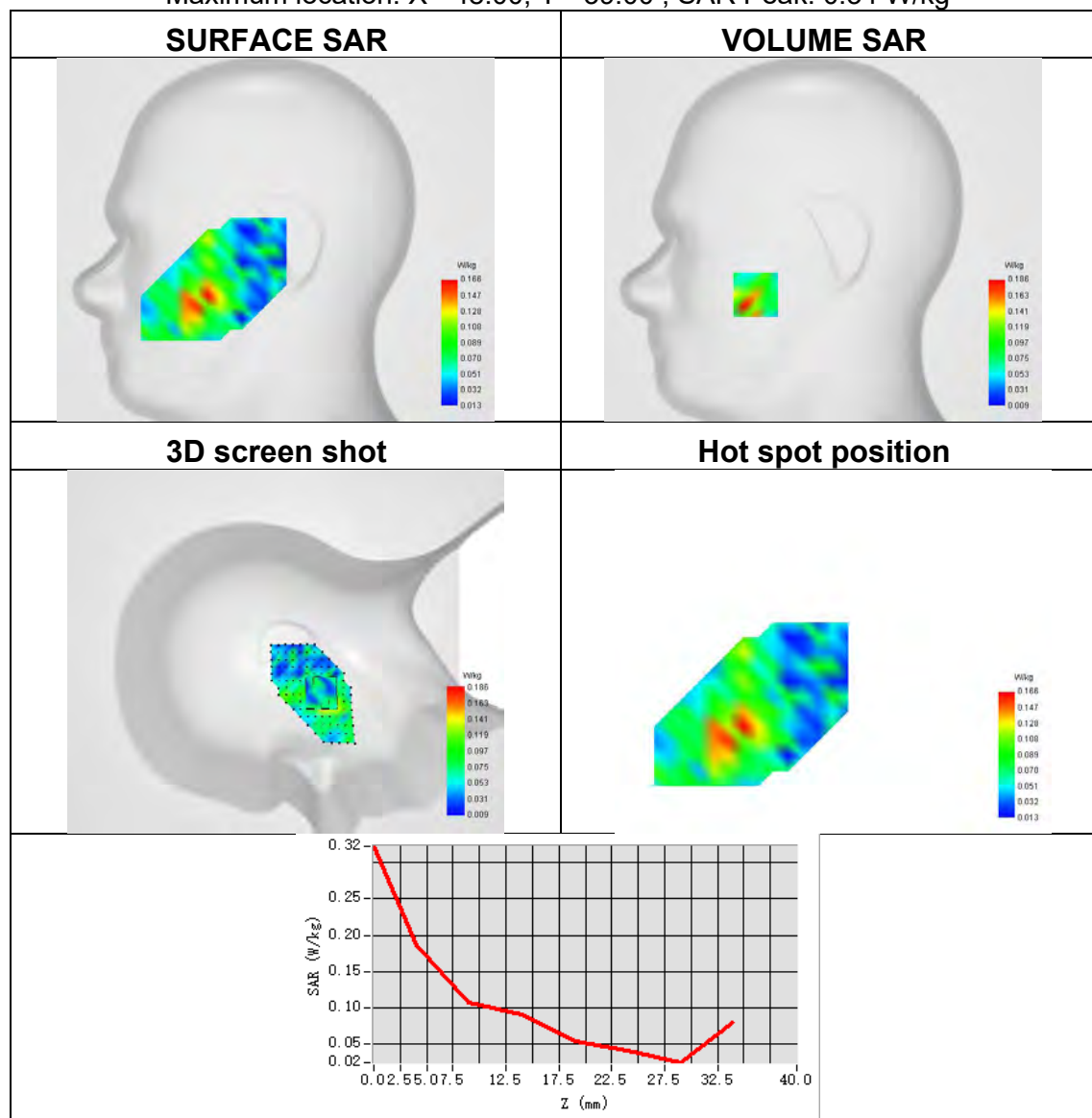




Plot 3:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1880
SAR 10g (W/Kg)	0.089
SAR 1g (W/Kg)	0.158
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

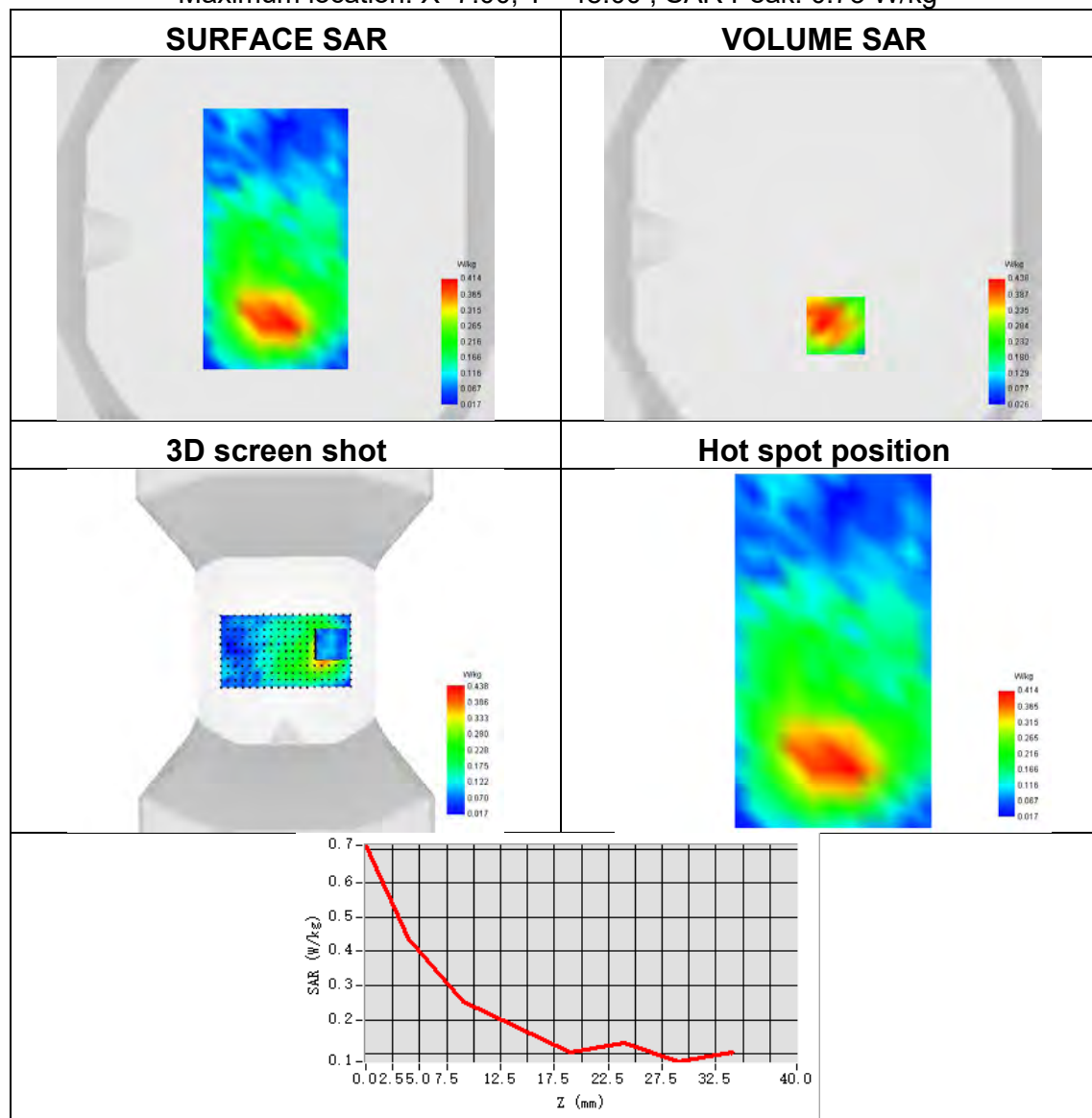
Maximum location: X=-48.00, Y=-39.00 ; SAR Peak: 0.34 W/kg



Plot 4:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GSM1900
Signal	TDMA (GSM)
Frequency	1880
SAR 10g (W/Kg)	0.253
SAR 1g (W/Kg)	0.431
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

Maximum location: X=7.00, Y=-48.00 ; SAR Peak: 0.73 W/kg

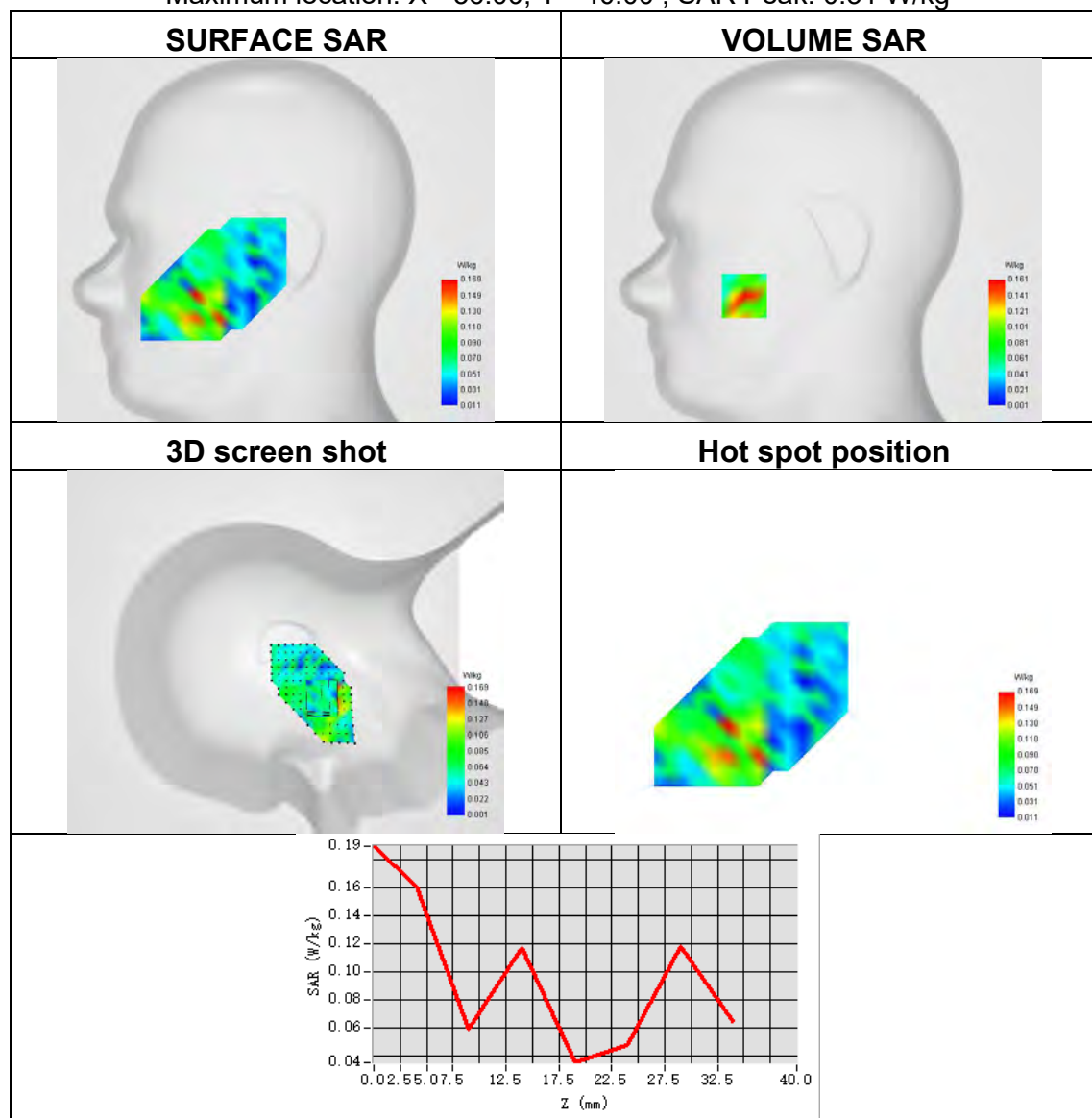




Plot 5:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1907.6
SAR 10g (W/Kg)	0.084
SAR 1g (W/Kg)	0.150
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 0.31 W/kg

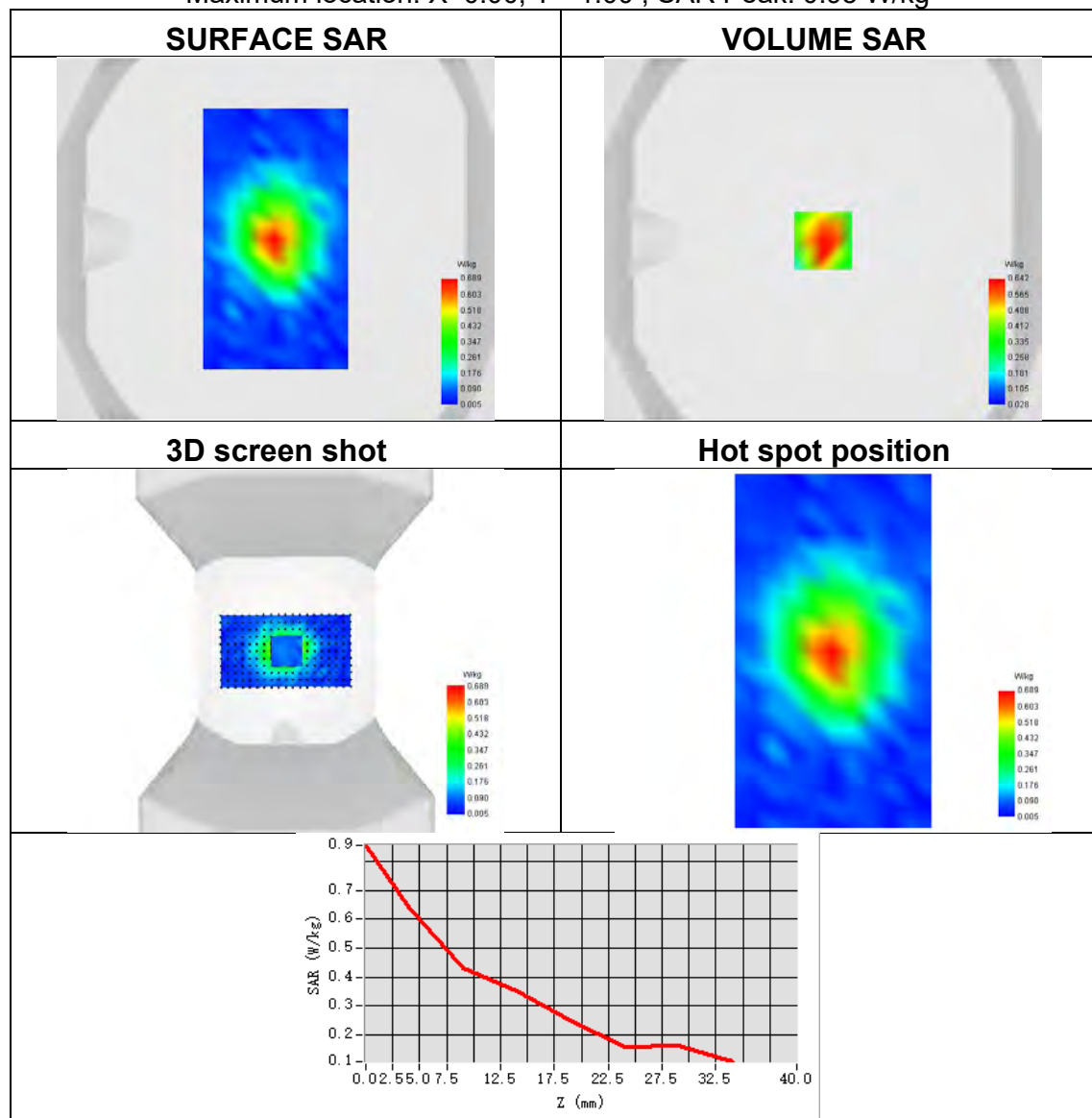




Plot 6:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 2 (1900)
Signal	WCDMA
Frequency	1907.6
SAR 10g (W/Kg)	0.384
SAR 1g (W/Kg)	0.623
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

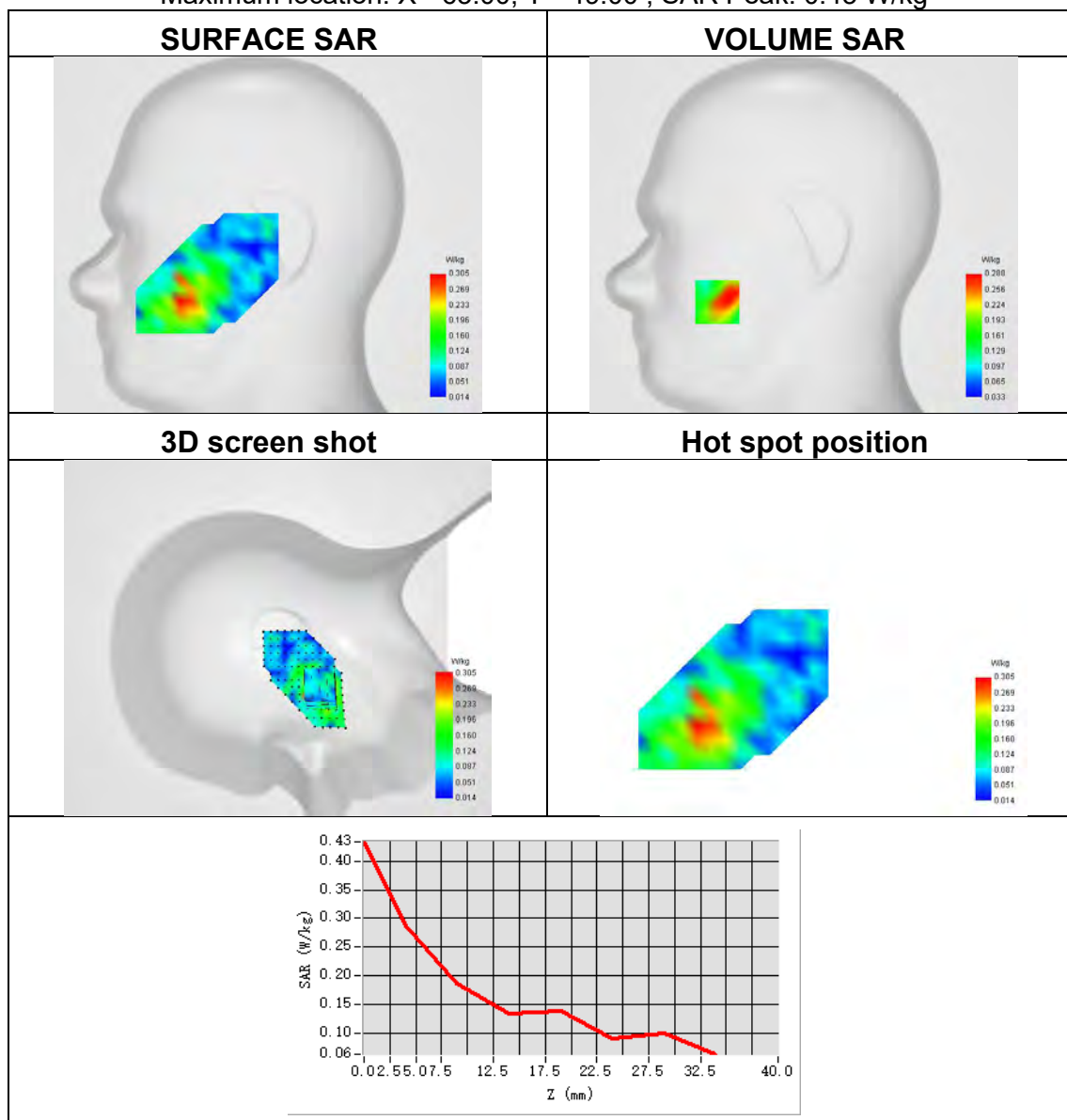
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 0.95 W/kg



Plot 7:

Test Date	2025-02-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1740
SAR 10g (W/Kg)	0.180
SAR 1g (W/Kg)	0.279
ConvF	1.92
Relative permittivity	40.33
Conductivity (S/m)	1.43

Maximum location: X=-63.00, Y=-49.00 ; SAR Peak: 0.43 W/kg

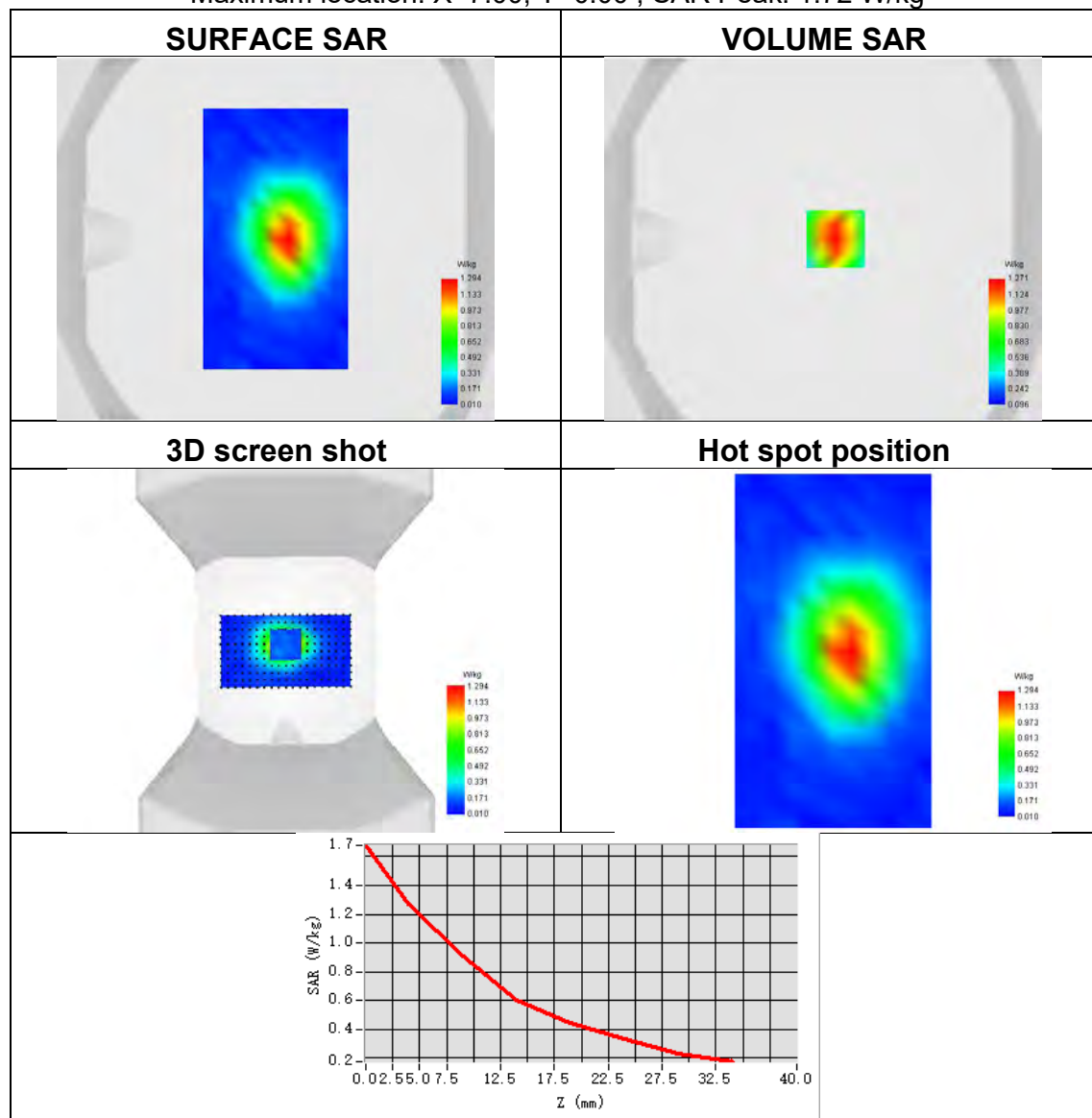




Plot 8:

Test Date	2025-02-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 4 (1700)
Signal	WCDMA
Frequency	1740
SAR 10g (W/Kg)	0.749
SAR 1g (W/Kg)	1.201
ConvF	1.92
Relative permittivity	40.33
Conductivity (S/m)	1.43

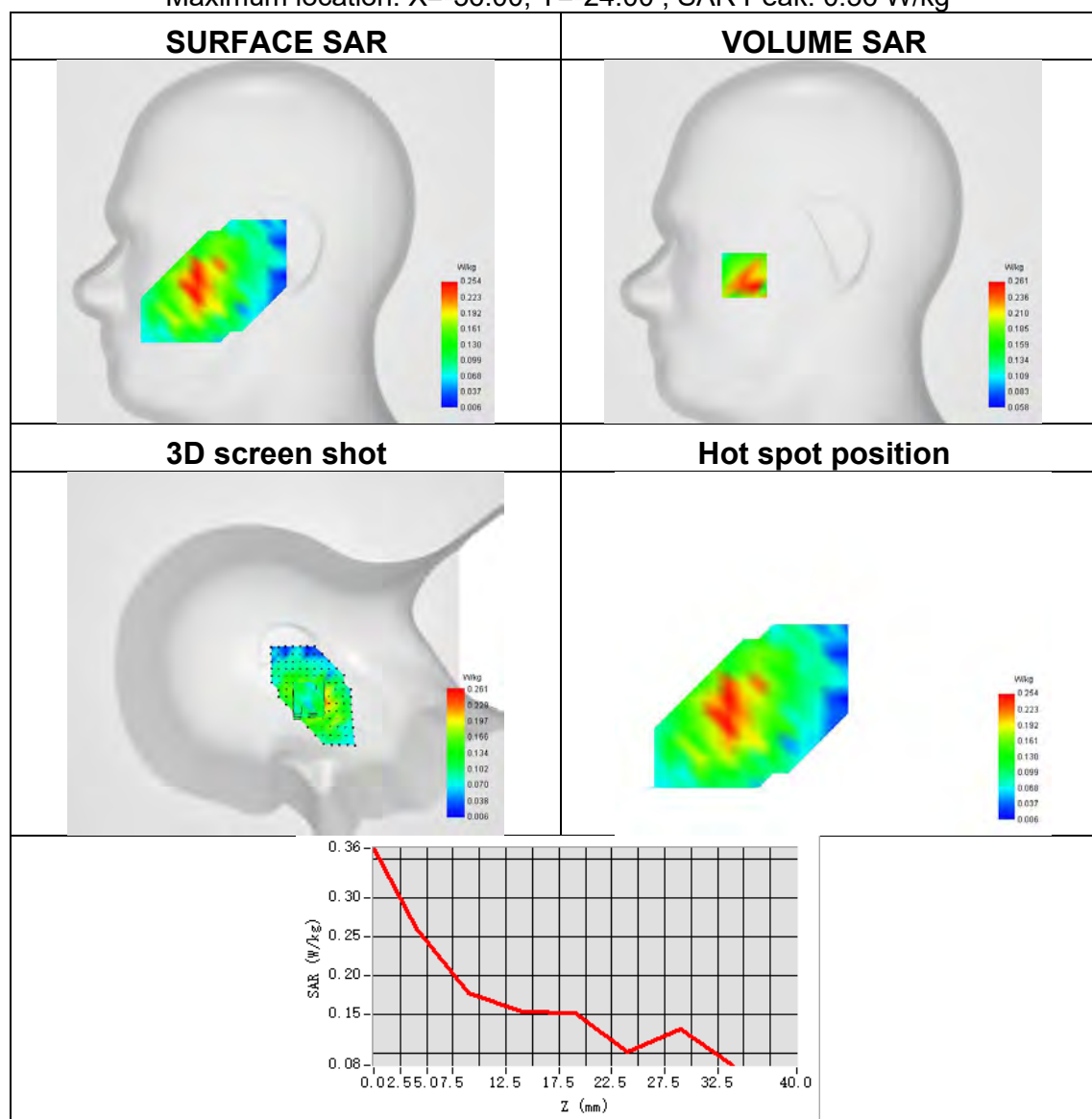
Maximum location: X=7.00, Y=0.00 ; SAR Peak: 1.72 W/kg



Plot 9:

Test Date	2025-01-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.235
ConvF	1.70
Relative permittivity	42.26
Conductivity (S/m)	0.89

Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 0.36 W/kg

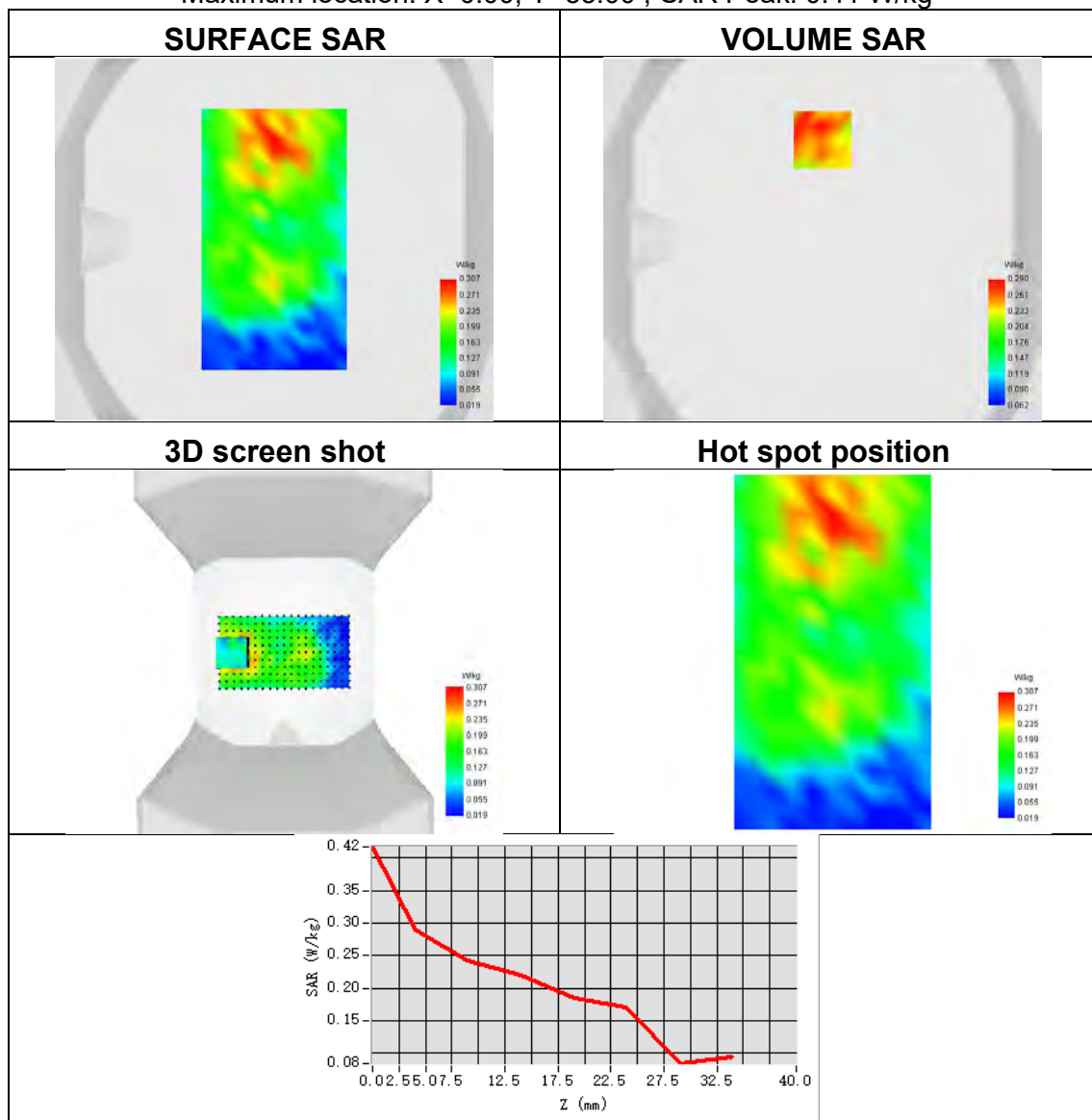




Plot 10:

Test Date	2025-01-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	846.6
SAR 10g (W/Kg)	0.198
SAR 1g (W/Kg)	0.270
ConvF	1.70
Relative permittivity	42.26
Conductivity (S/m)	0.89

Maximum location: X=0.00, Y=55.00 ; SAR Peak: 0.41 W/kg

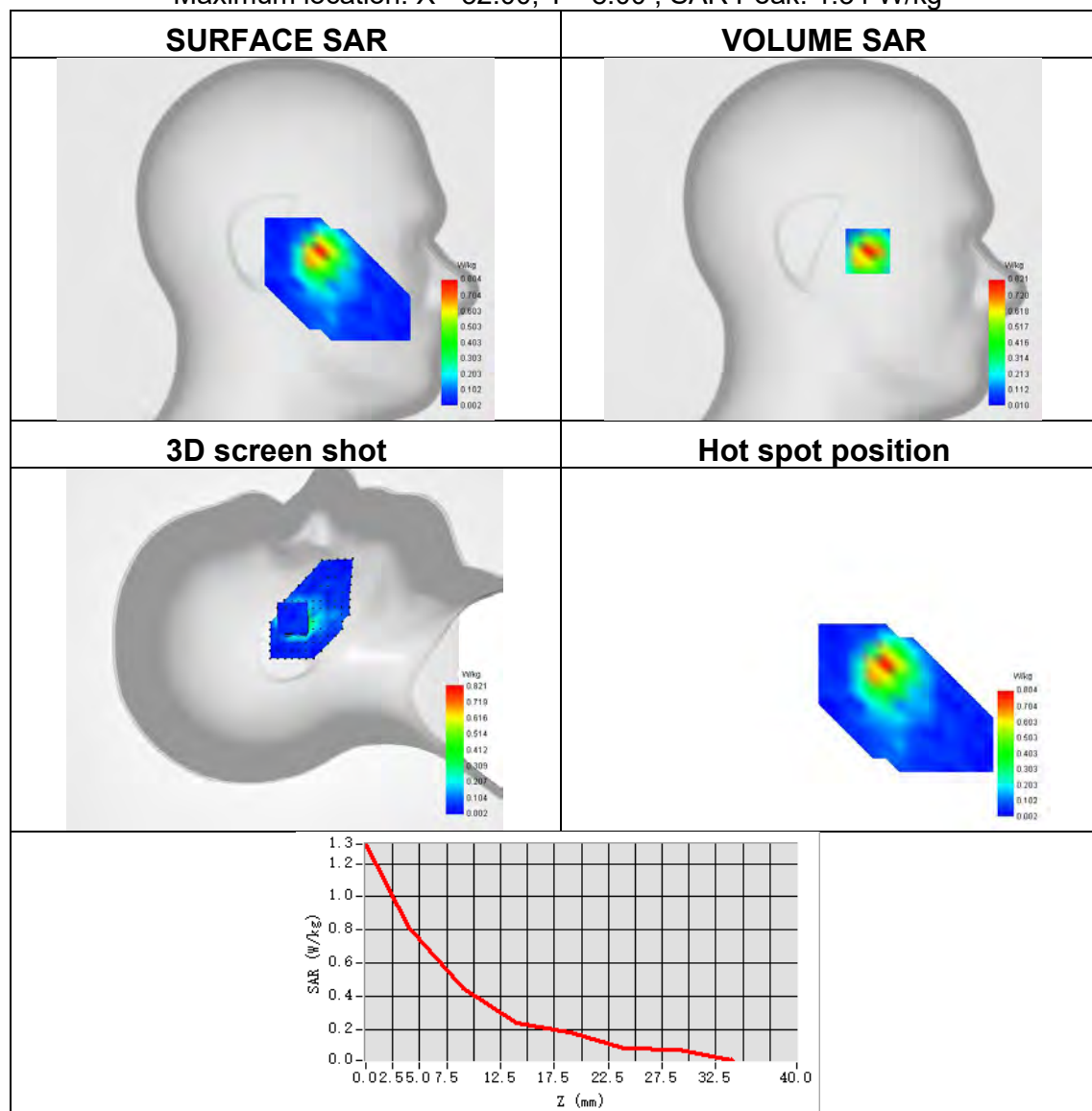




Plot 11:

Test Date	2025-02-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Left head
Device Position	Tilt
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.368
SAR 1g (W/Kg)	0.754
ConvF	2.33
Relative permittivity	39.49
Conductivity (S/m)	1.79

Maximum location: X=-32.00, Y=-8.00 ; SAR Peak: 1.34 W/kg

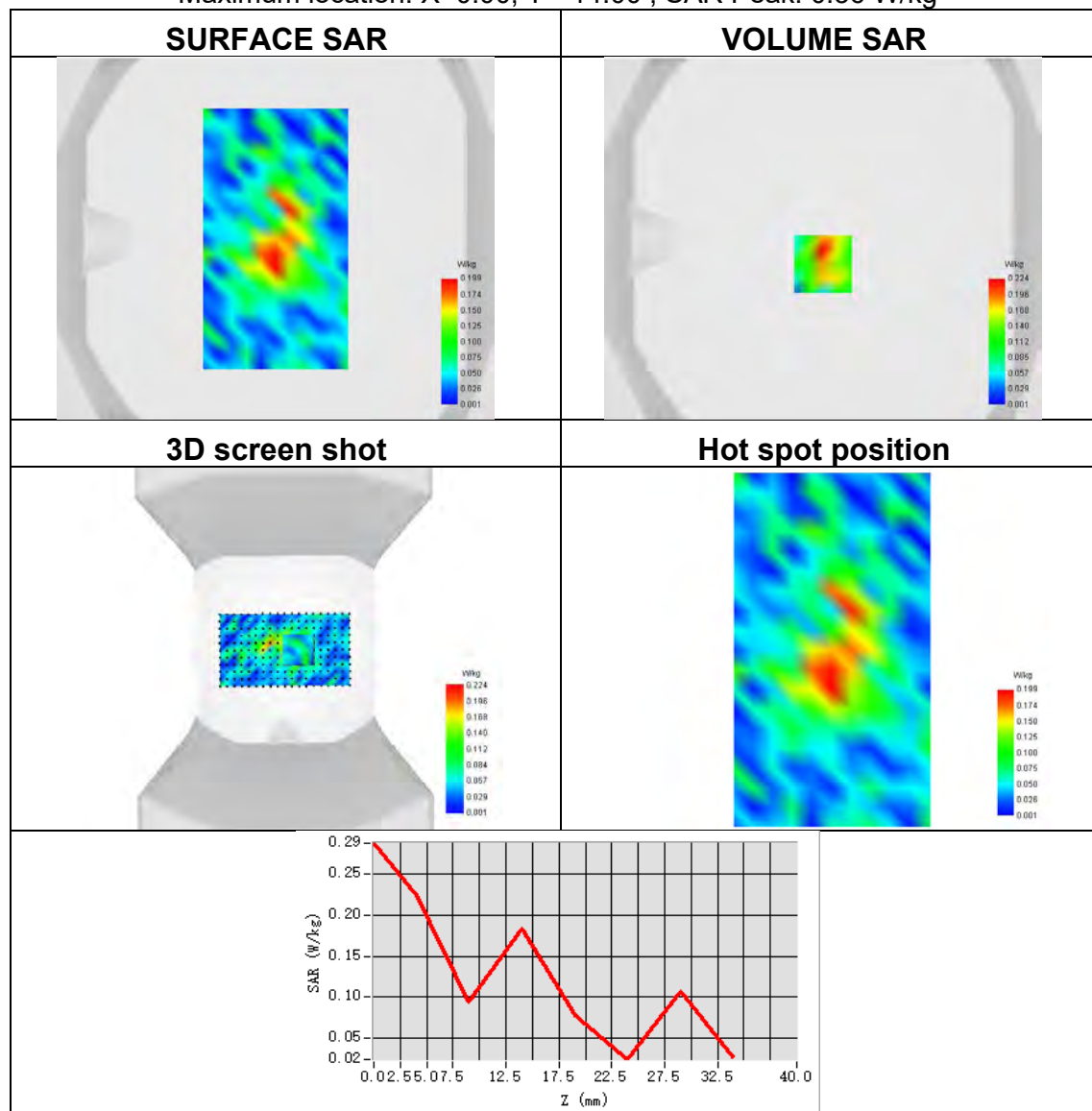




Plot 12:

Test Date	2025-02-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.213
ConvF	2.33
Relative permittivity	39.49
Conductivity (S/m)	1.79

Maximum location: X=0.00, Y=-14.00 ; SAR Peak: 0.36 W/kg

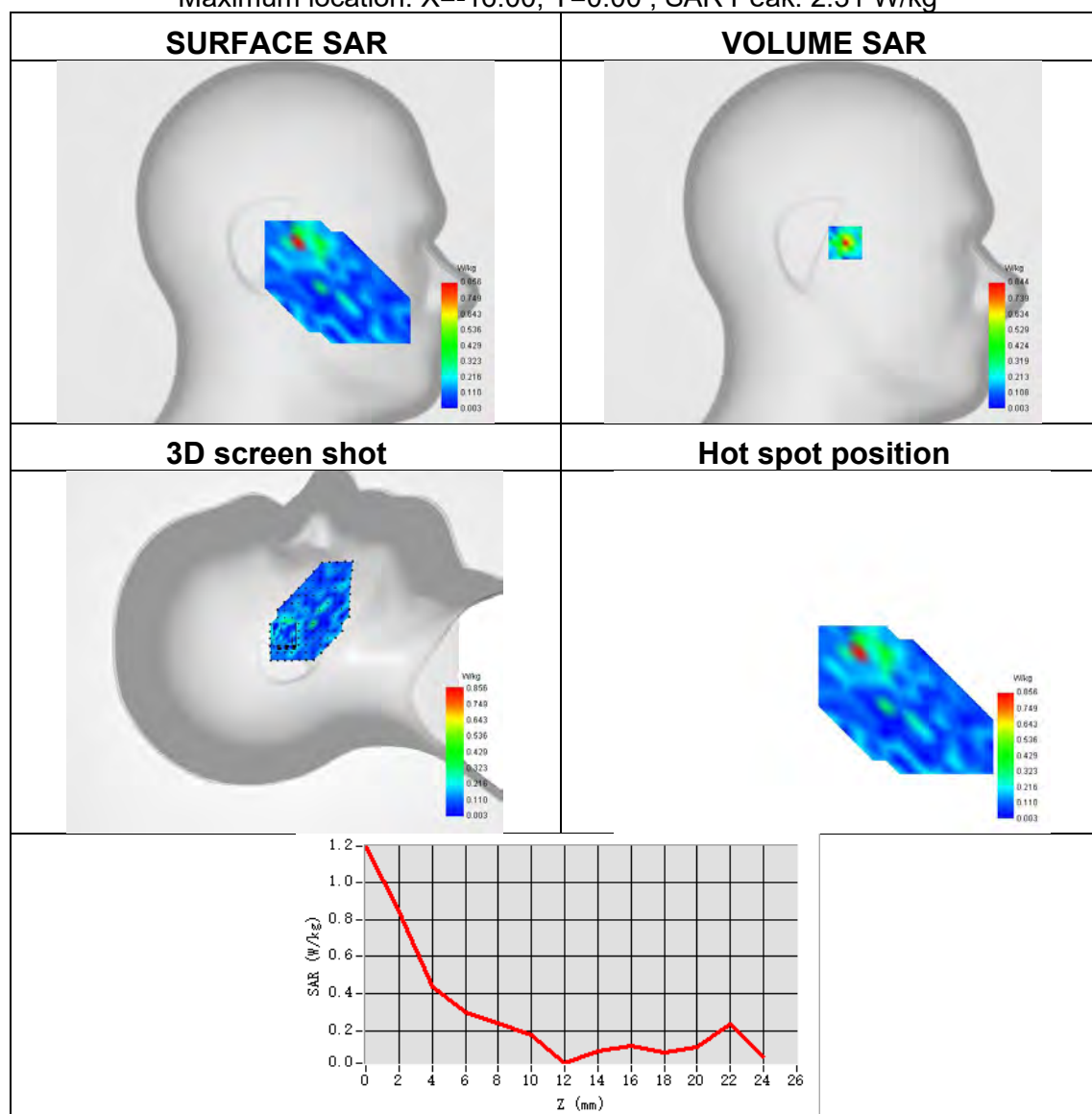




Plot 13:

Test Date	2025-01-15
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
Signal	IEEE 802.11a
Frequency	5240
SAR 10g (W/Kg)	0.194
SAR 1g (W/Kg)	0.562
ConvF	1.98
Relative permittivity	36.84
Conductivity (S/m)	4.62

Maximum location: X=-16.00, Y=0.00 ; SAR Peak: 2.31 W/kg

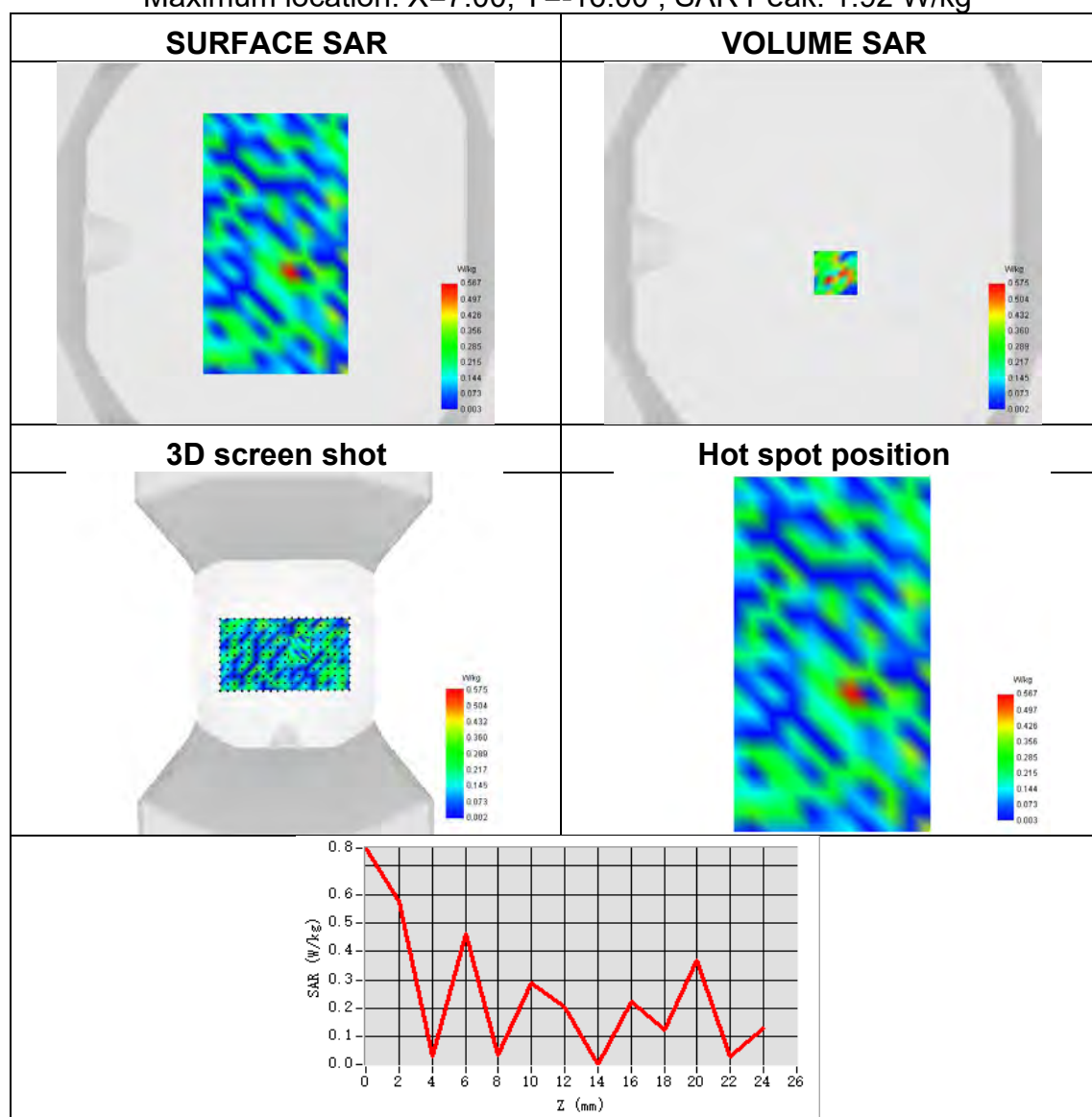




Plot 14:

Test Date	2025-01-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5240
SAR 10g (W/Kg)	0.171
SAR 1g (W/Kg)	0.350
ConvF	1.98
Relative permittivity	36.84
Conductivity (S/m)	4.62

Maximum location: X=7.00, Y=-16.00 ; SAR Peak: 1.92 W/kg

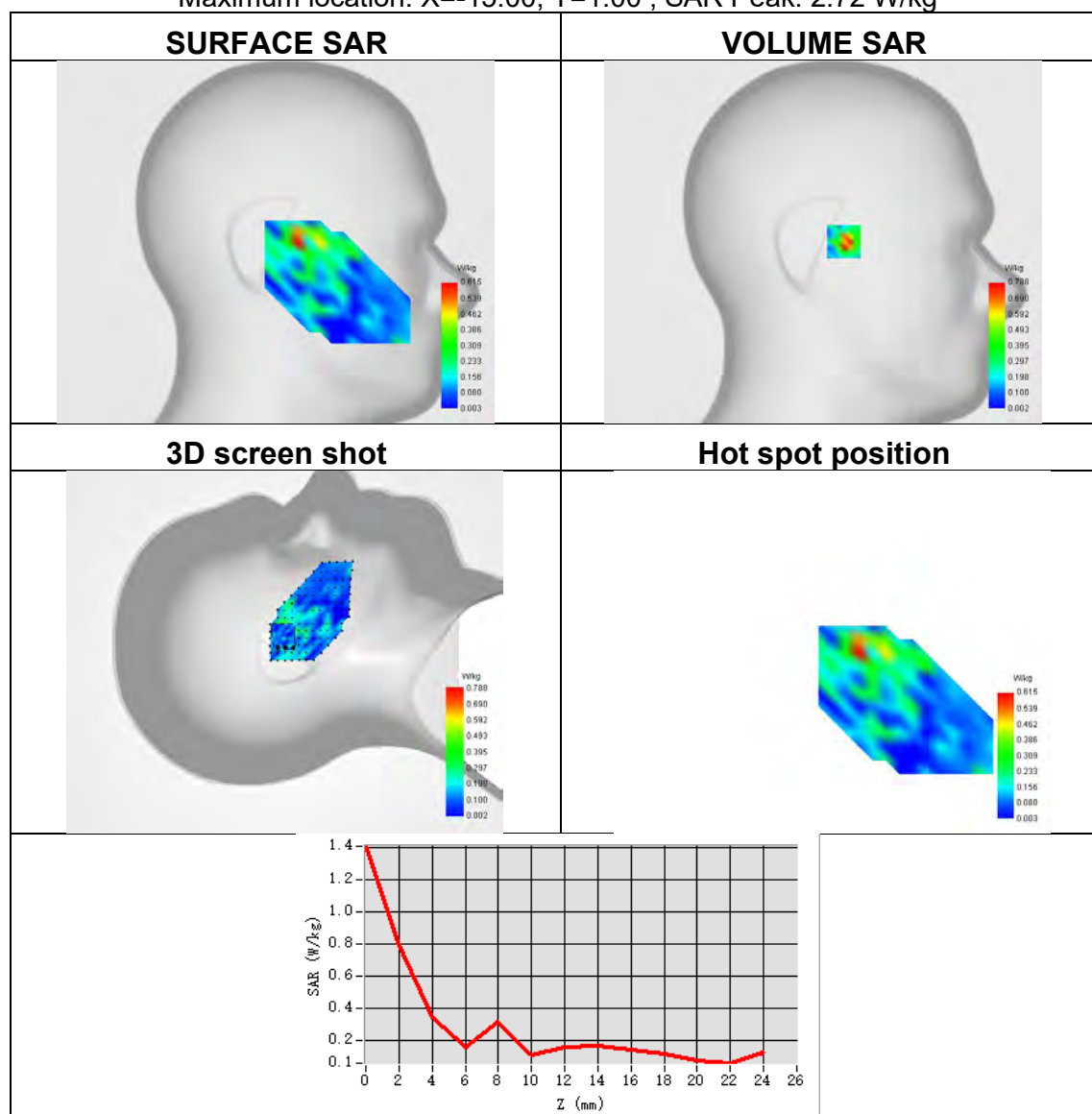




Plot 15:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.216
SAR 1g (W/Kg)	0.543
ConvF	1.83
Relative permittivity	36.57
Conductivity (S/m)	4.85

Maximum location: X=-15.00, Y=1.00 ; SAR Peak: 2.72 W/kg

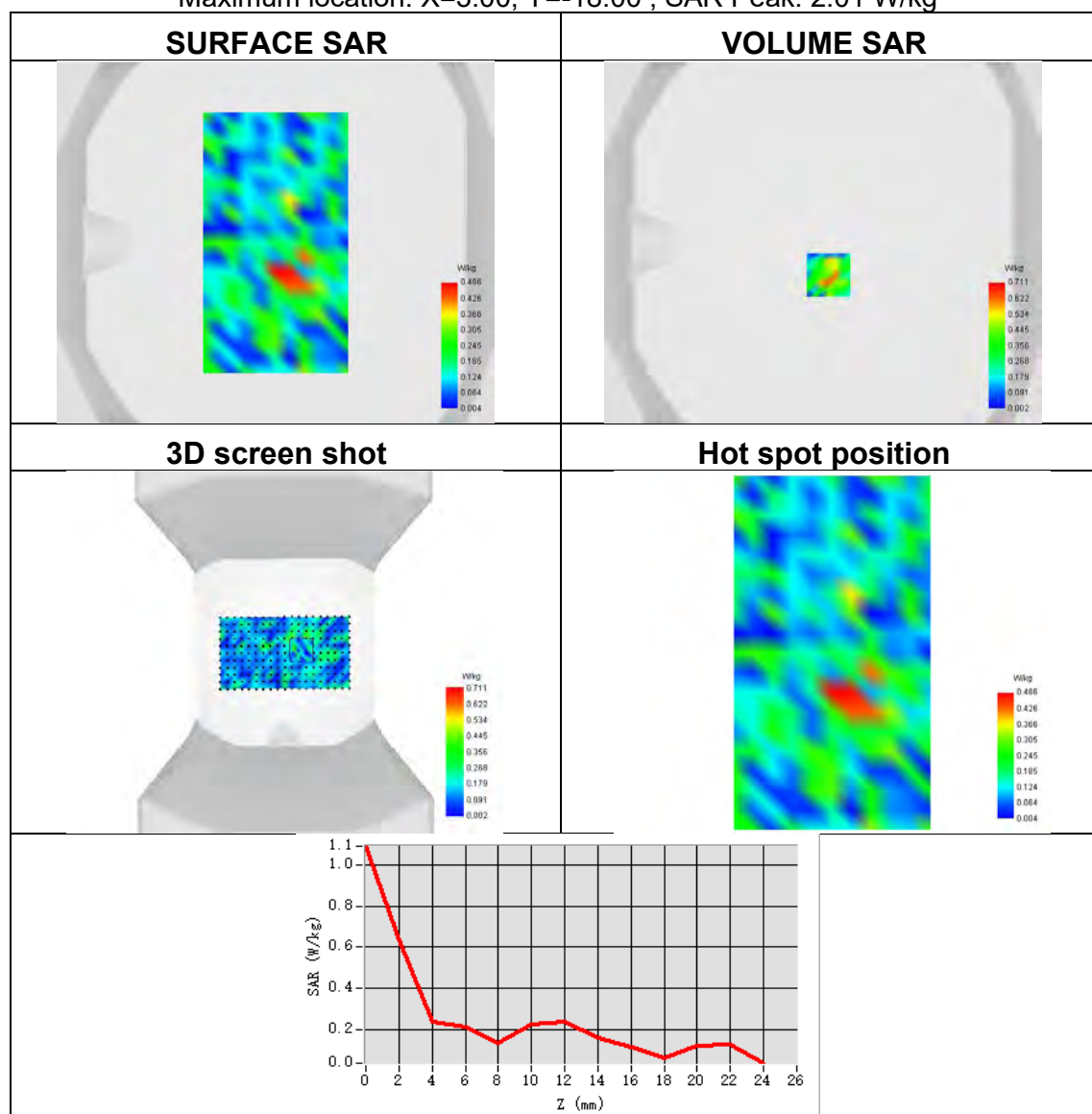




Plot 16:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-2a
Signal	IEEE 802.11a
Frequency	5320
SAR 10g (W/Kg)	0.167
SAR 1g (W/Kg)	0.388
ConvF	1.83
Relative permittivity	36.57
Conductivity (S/m)	4.85

Maximum location: X=3.00, Y=-18.00 ; SAR Peak: 2.01 W/kg

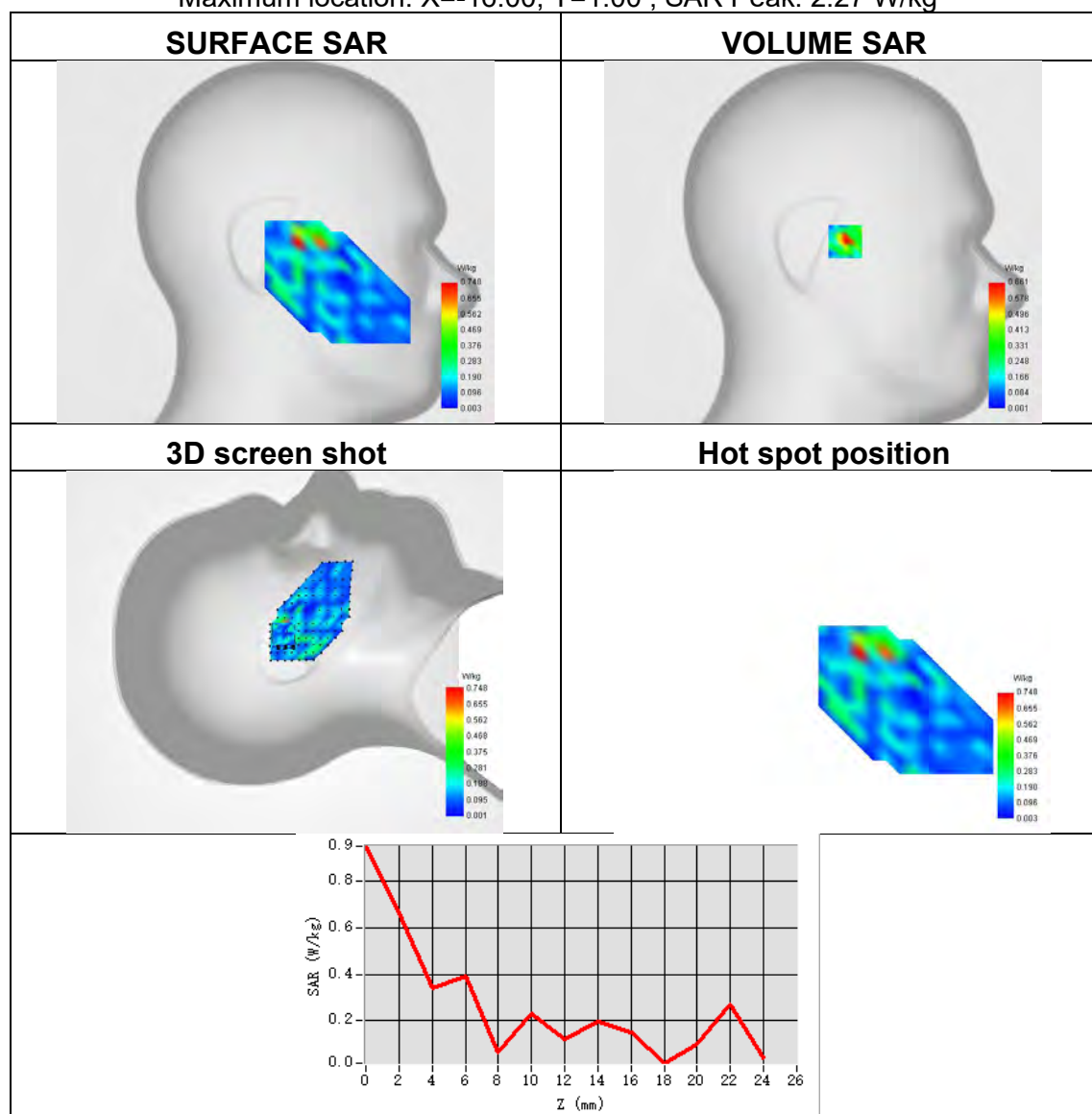




Plot 17:

Test Date	2025-01-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Left head
Device Position	Tilt
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.185
SAR 1g (W/Kg)	0.493
ConvF	1.86
Relative permittivity	36.68
Conductivity (S/m)	5.10

Maximum location: X=-16.00, Y=1.00 ; SAR Peak: 2.27 W/kg

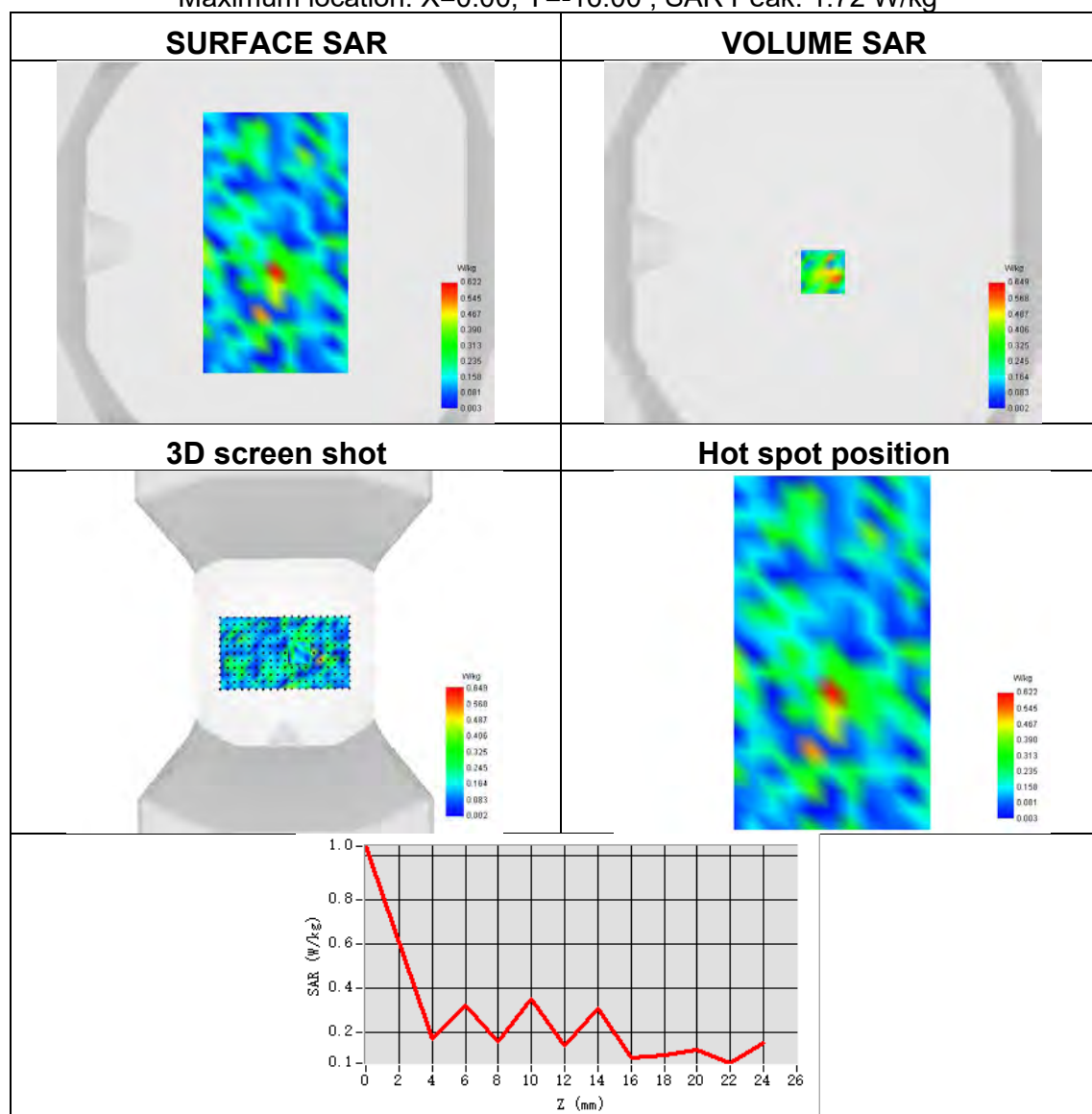




Plot 18:

Test Date	2025-01-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-2c
Signal	IEEE 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.135
SAR 1g (W/Kg)	0.358
ConvF	1.86
Relative permittivity	36.68
Conductivity (S/m)	5.10

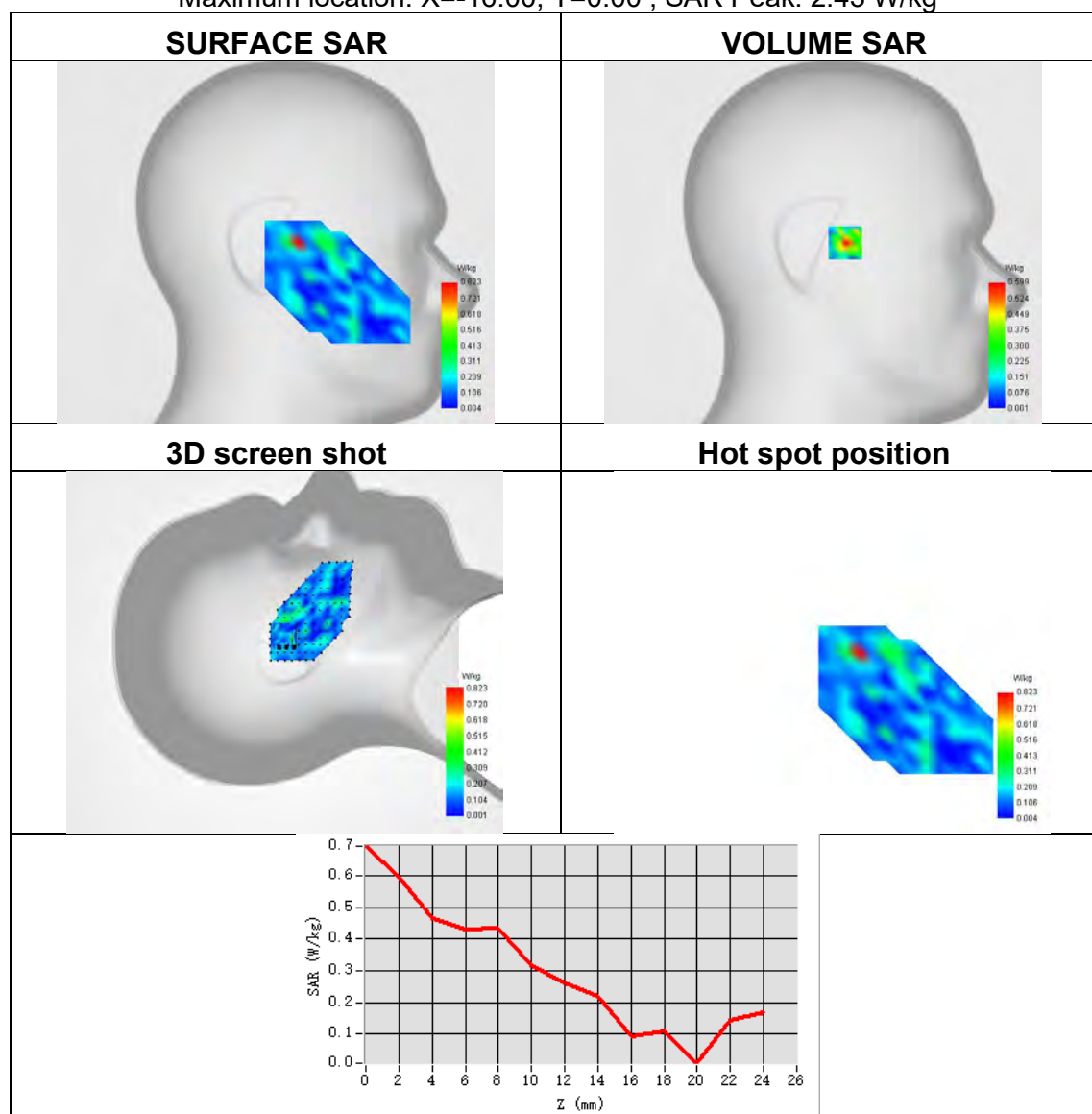
Maximum location: X=0.00, Y=-16.00 ; SAR Peak: 1.72 W/kg



Plot 19:

Test Date	2025-01-15
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
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.206
SAR 1g (W/Kg)	0.527
ConvF	1.71
Relative permittivity	35.94
Conductivity (S/m)	5.22

Maximum location: X=-16.00, Y=0.00 ; SAR Peak: 2.43 W/kg

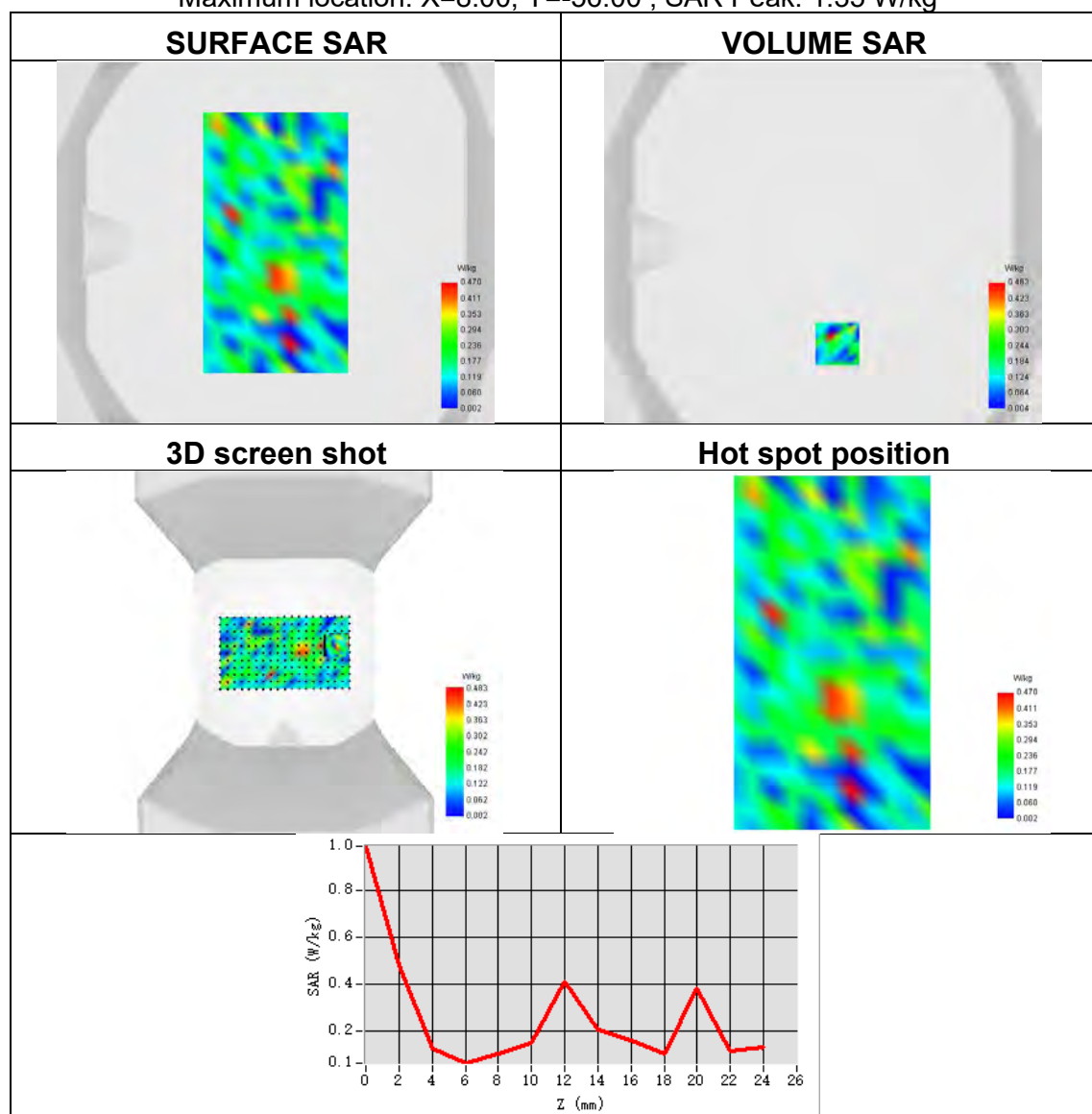




Plot 20:

Test Date	2025-01-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.234
ConvF	1.71
Relative permittivity	35.94
Conductivity (S/m)	5.22

Maximum location: X=8.00, Y=-56.00 ; SAR Peak: 1.35 W/kg

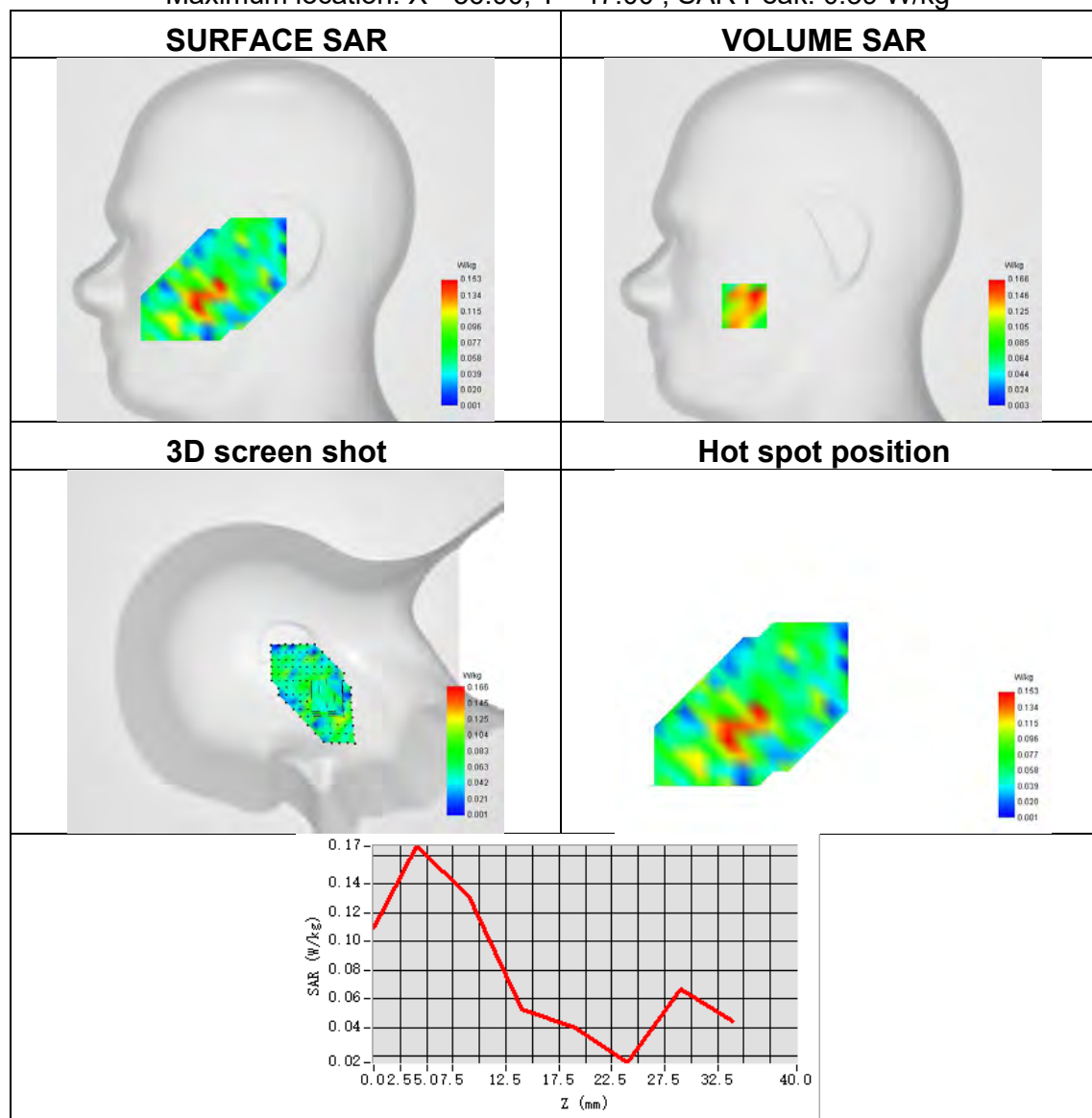




Plot 21:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Signal	LTE FDD
Frequency	1900
SAR 10g (W/Kg)	0.094
SAR 1g (W/Kg)	0.177
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

Maximum location: X=-56.00, Y=-47.00 ; SAR Peak: 0.39 W/kg

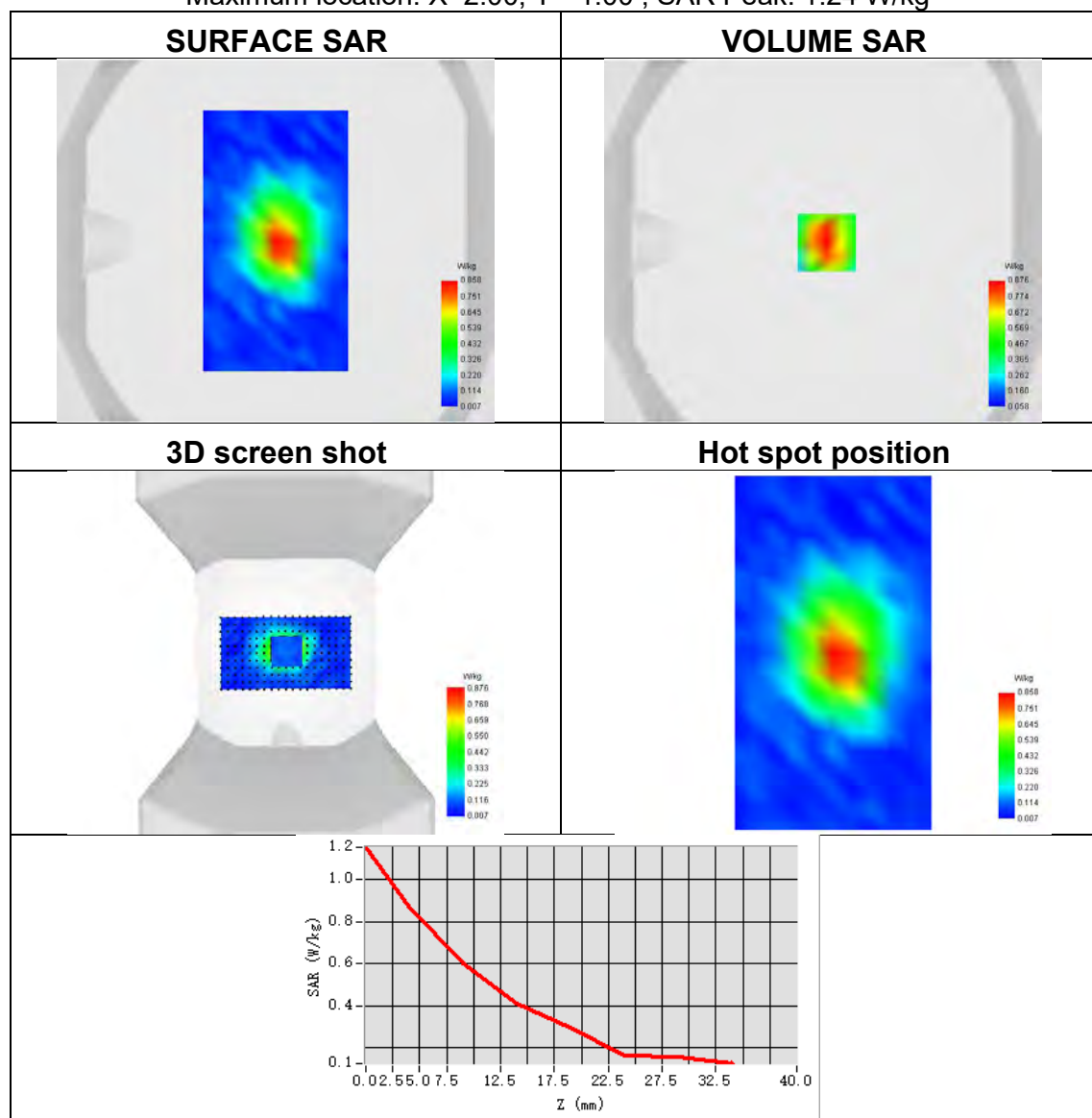




Plot 22:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1900
SAR 10g (W/Kg)	0.499
SAR 1g (W/Kg)	0.829
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

Maximum location: X=2.00, Y=-1.00 ; SAR Peak: 1.24 W/kg

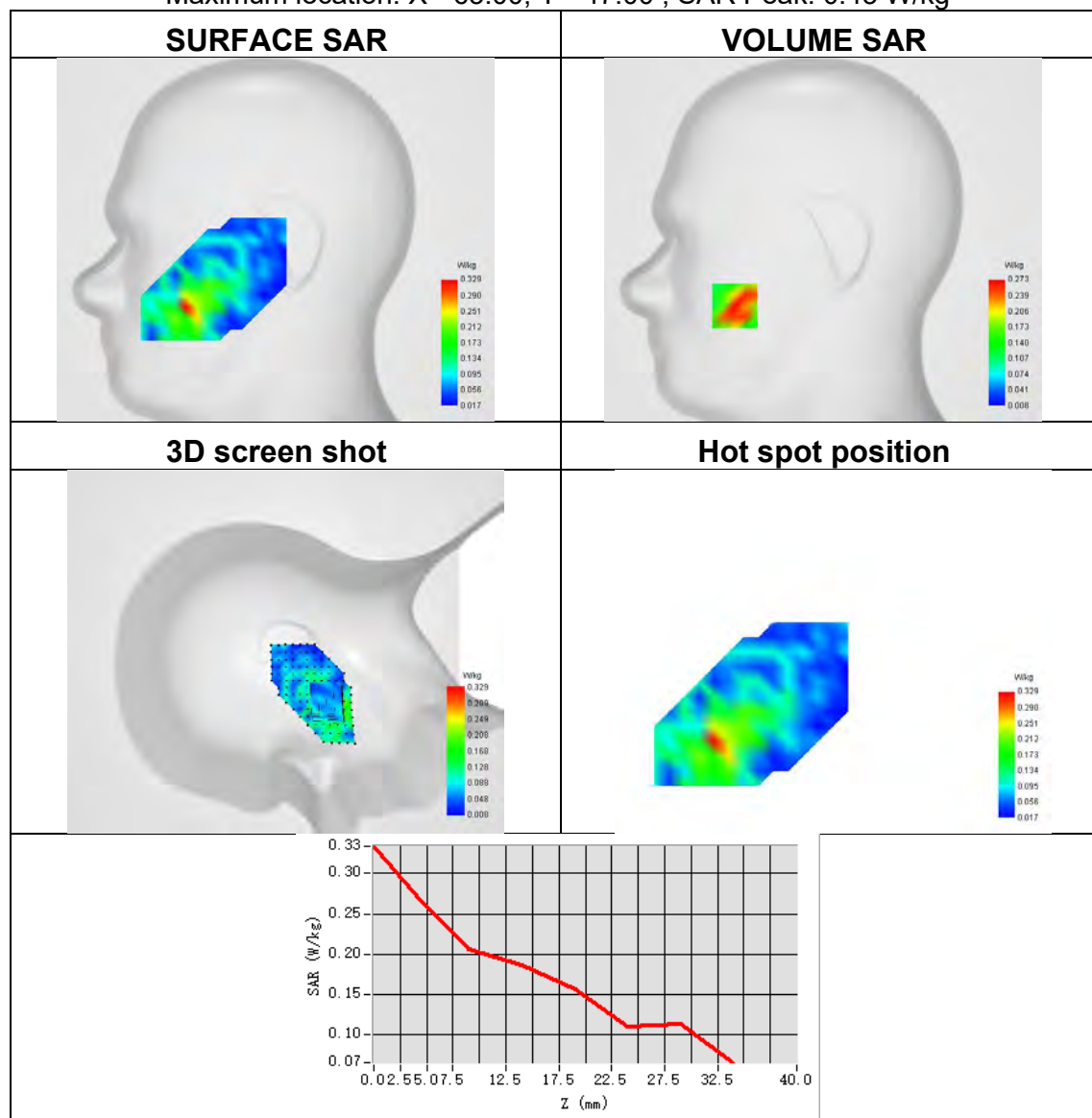




Plot 23:

Test Date	2025-02-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.177
SAR 1g (W/Kg)	0.266
ConvF	1.92
Relative permittivity	40.33
Conductivity (S/m)	1.43

Maximum location: X=-63.00, Y=-47.00 ; SAR Peak: 0.43 W/kg

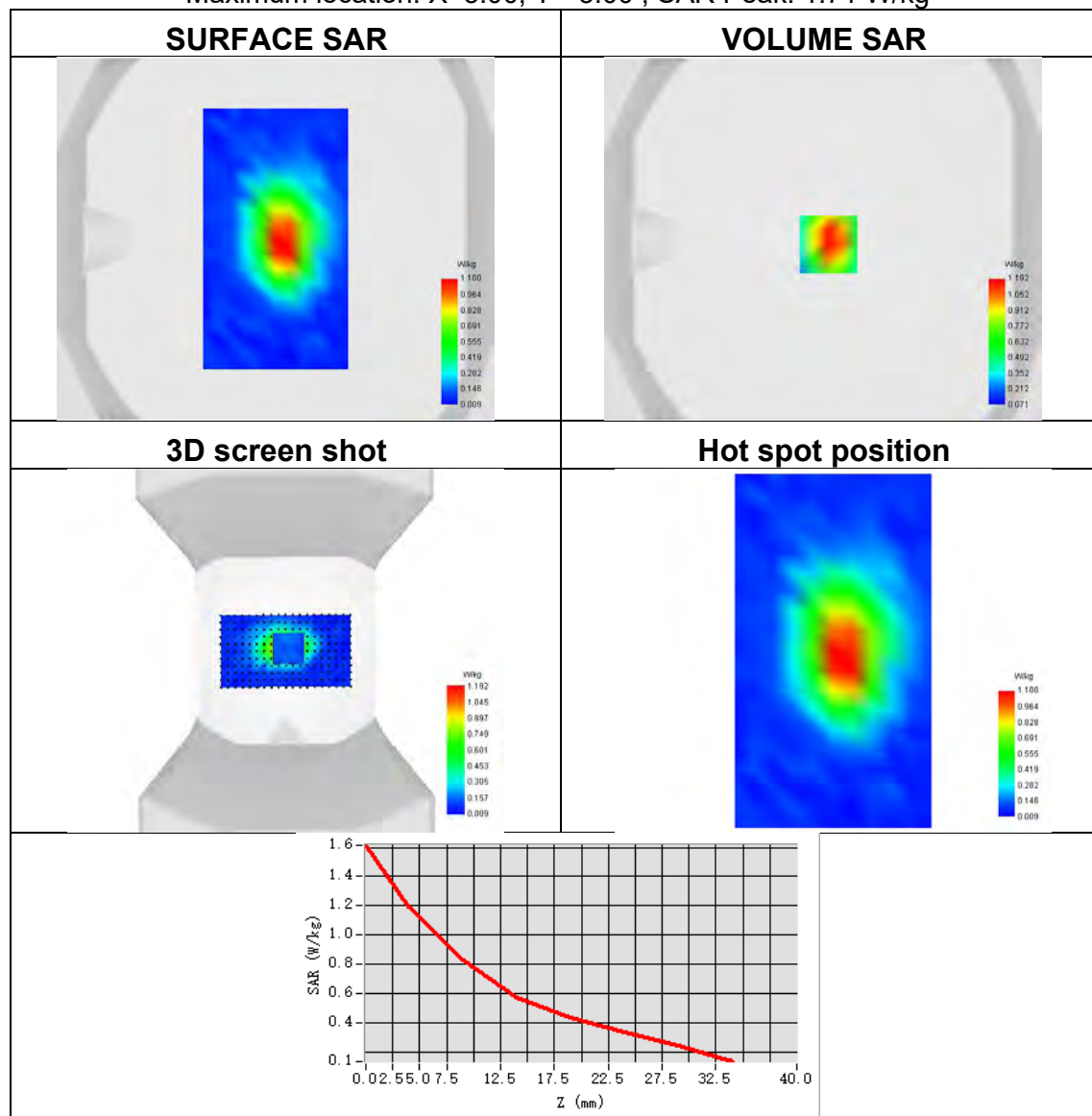




Plot 24:

Test Date	2025-02-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 4
Signal	LTE FDD
Frequency	1720
SAR 10g (W/Kg)	0.689
SAR 1g (W/Kg)	1.137
ConvF	1.92
Relative permittivity	40.33
Conductivity (S/m)	1.43

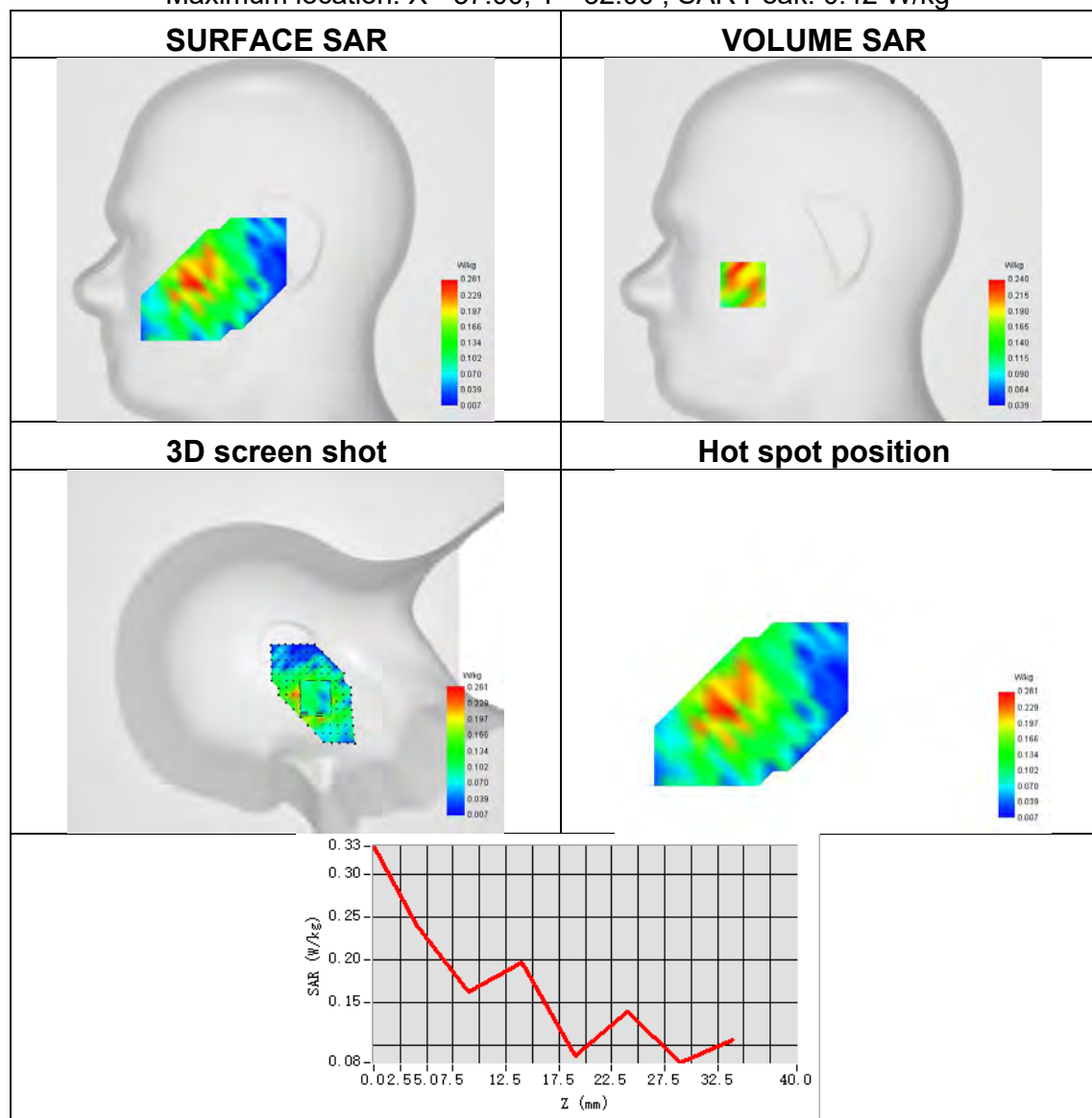
Maximum location: X=3.00, Y=-3.00 ; SAR Peak: 1.71 W/kg



Plot 25:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.152
SAR 1g (W/Kg)	0.230
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

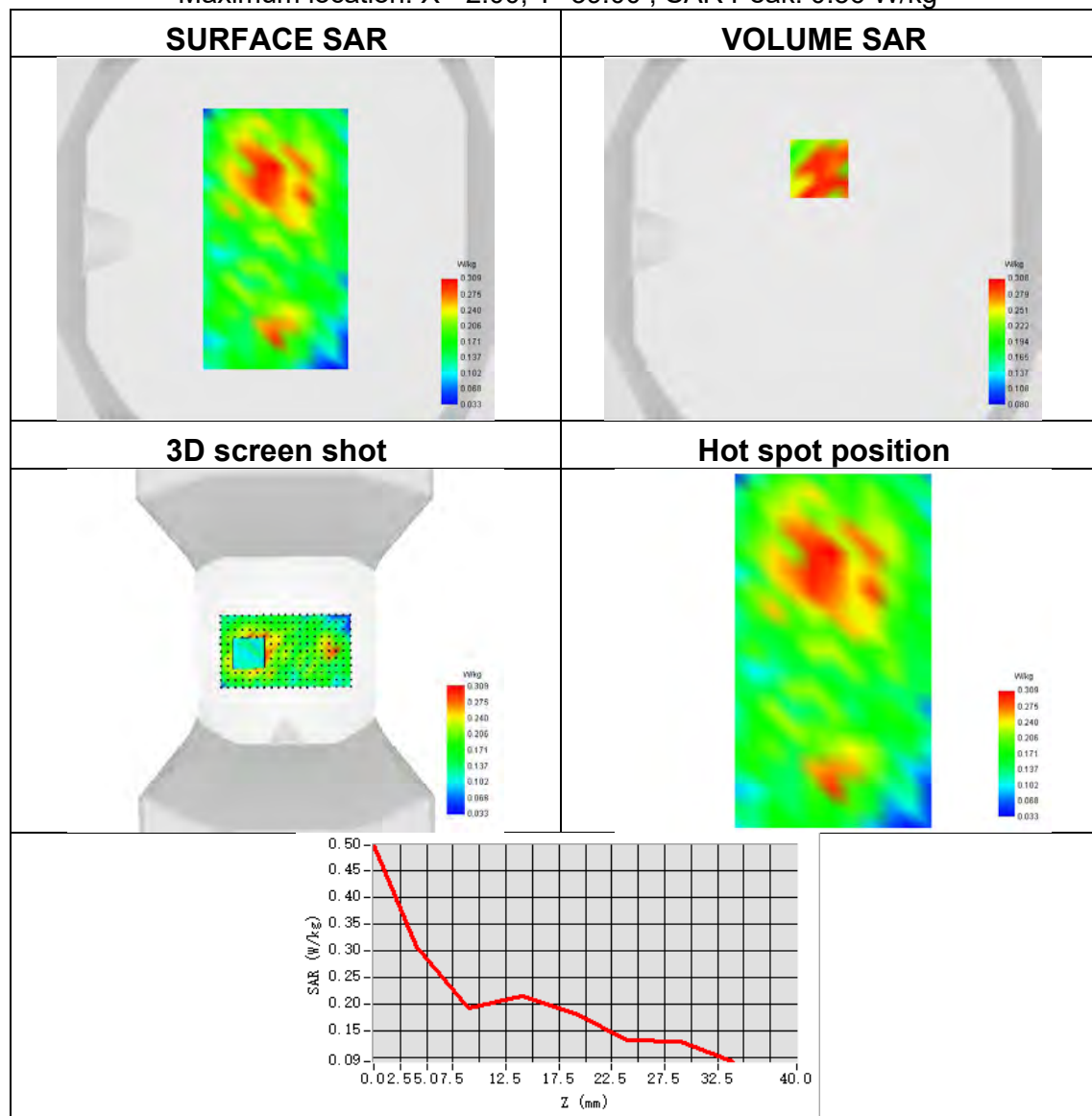
Maximum location: X=-57.00, Y=-32.00 ; SAR Peak: 0.42 W/kg



Plot 26:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	844
SAR 10g (W/Kg)	0.185
SAR 1g (W/Kg)	0.303
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

Maximum location: X=-2.00, Y=39.00 ; SAR Peak: 0.56 W/kg

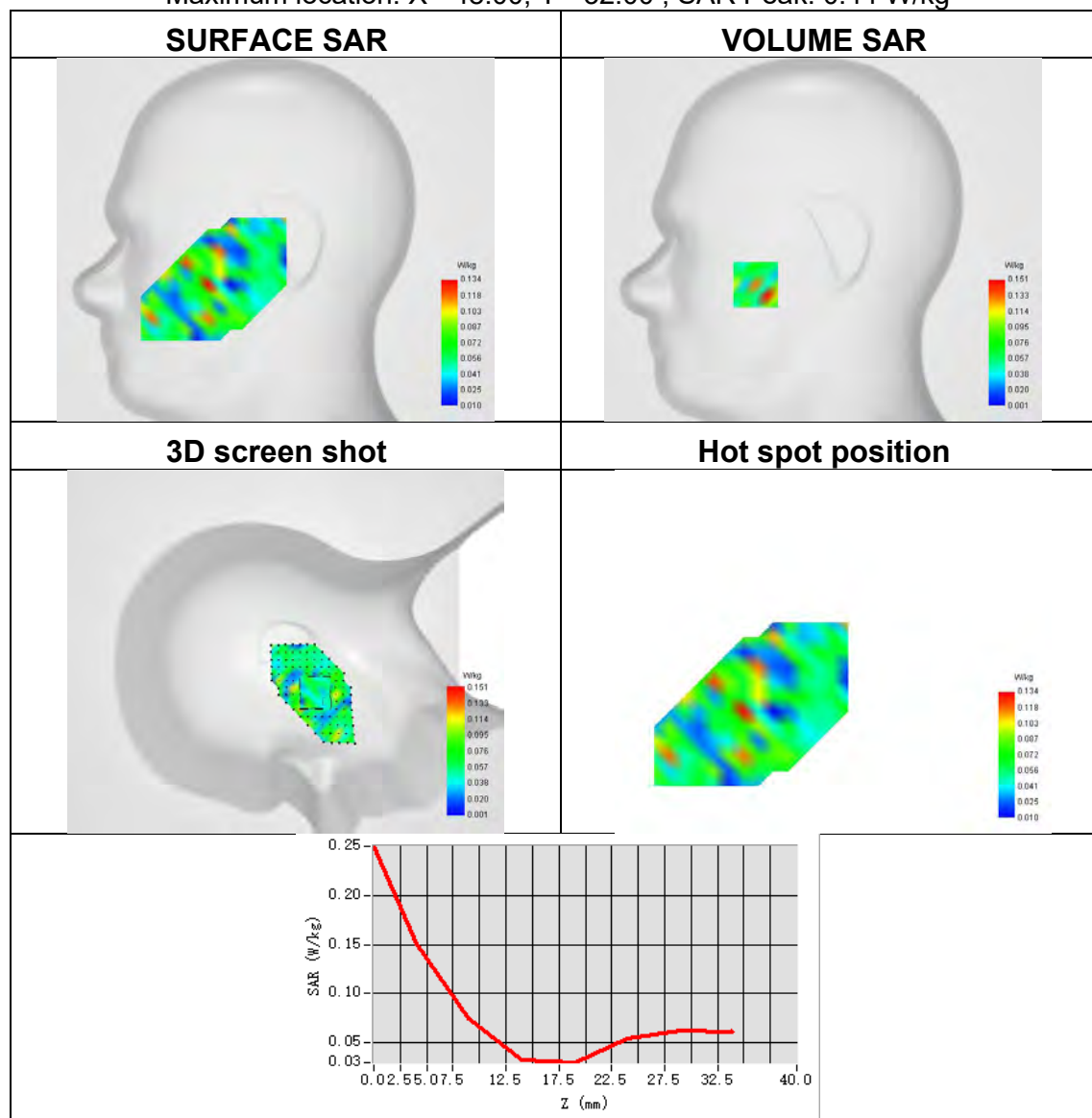




Plot 27:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 7
Signal	LTE FDD
Frequency	2560
SAR 10g (W/Kg)	0.071
SAR 1g (W/Kg)	0.153
ConvF	2.35
Relative permittivity	39.19
Conductivity (S/m)	2.01

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 0.44 W/kg

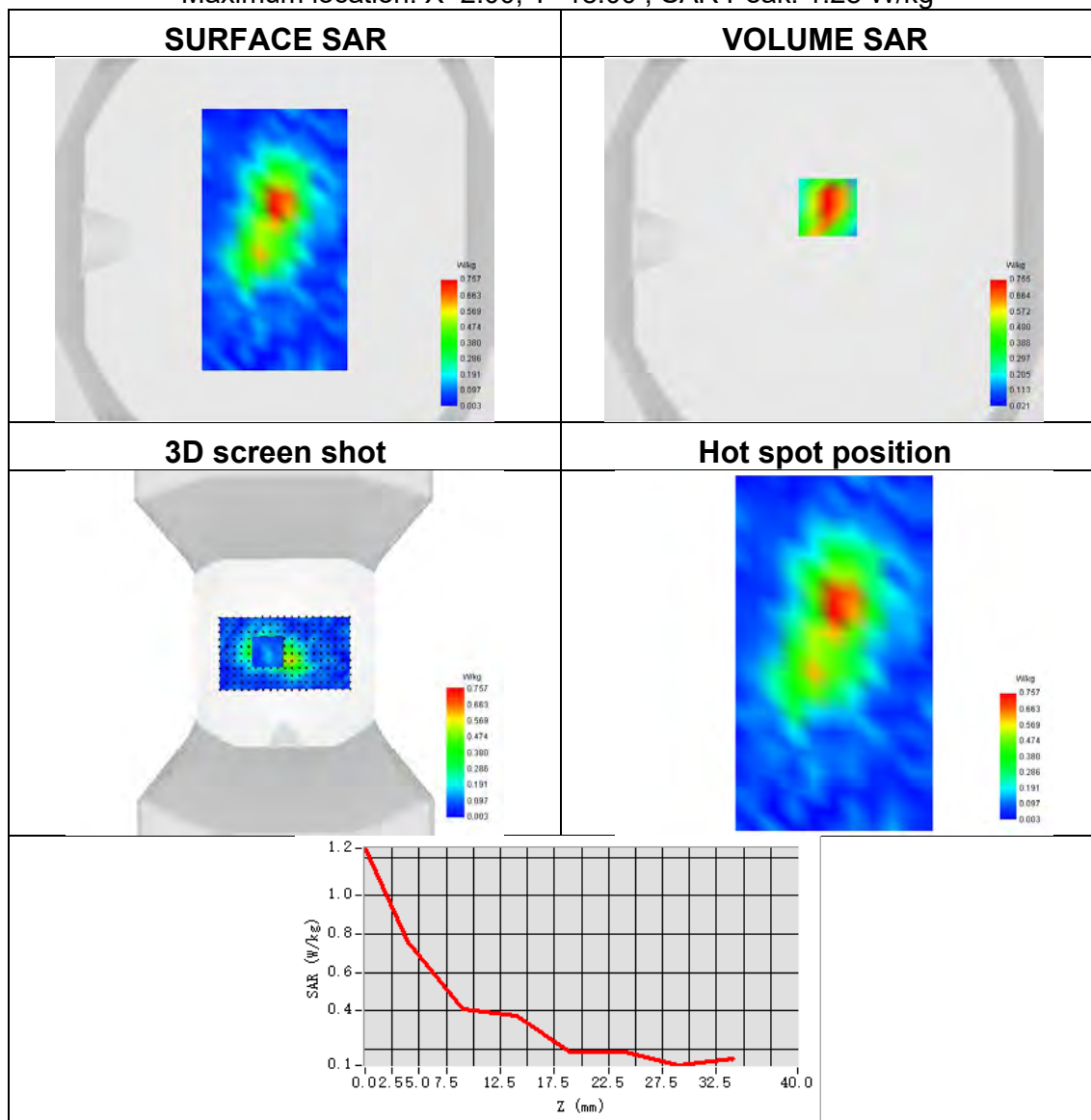




Plot 28:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 7
Signal	LTE FDD
Frequency	2560
SAR 10g (W/Kg)	0.398
SAR 1g (W/Kg)	0.749
ConvF	2.35
Relative permittivity	39.19
Conductivity (S/m)	2.01

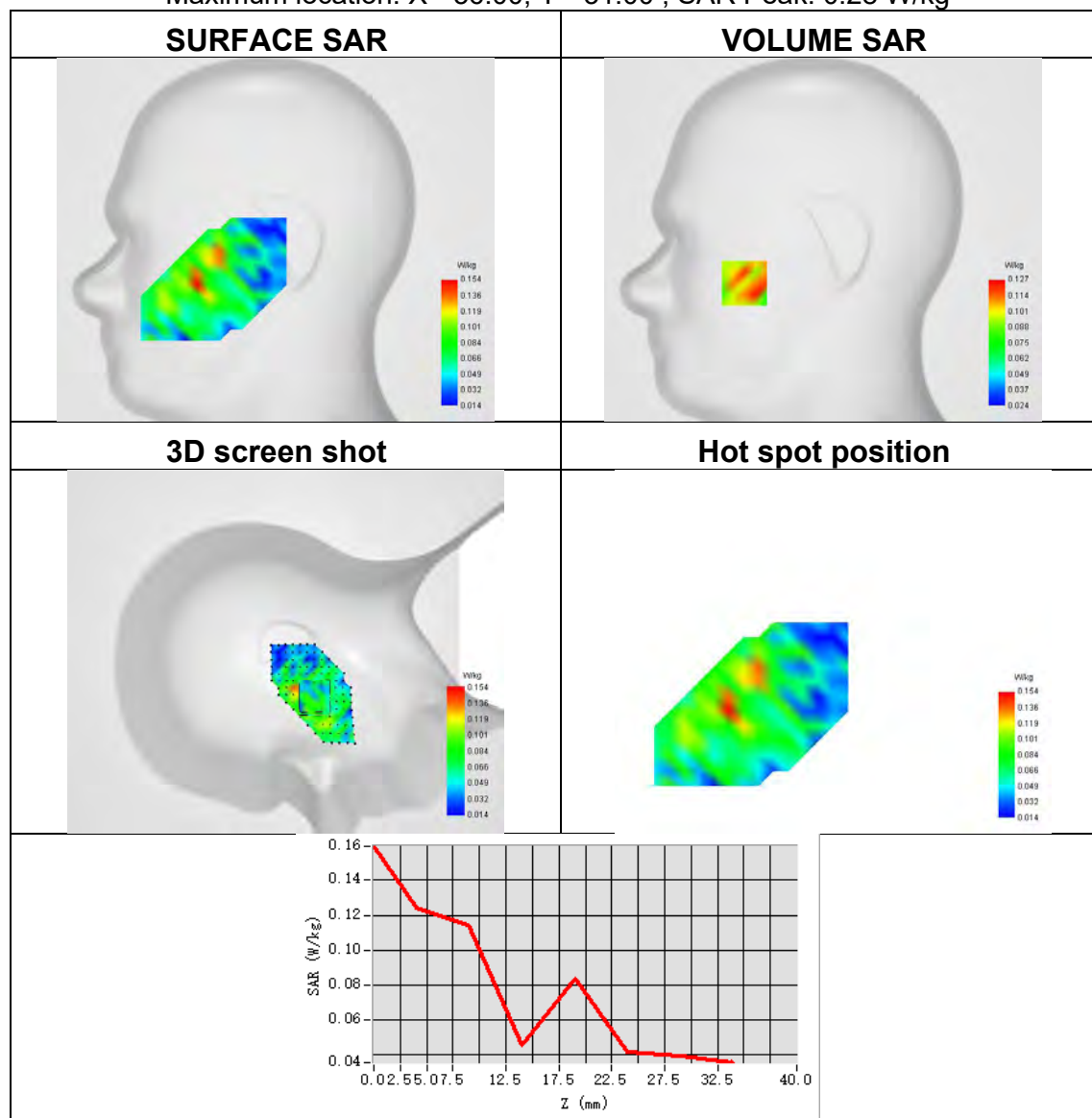
Maximum location: X=2.00, Y=18.00 ; SAR Peak: 1.28 W/kg



Plot 29:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.081
SAR 1g (W/Kg)	0.133
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

Maximum location: X=-56.00, Y=-31.00 ; SAR Peak: 0.28 W/kg

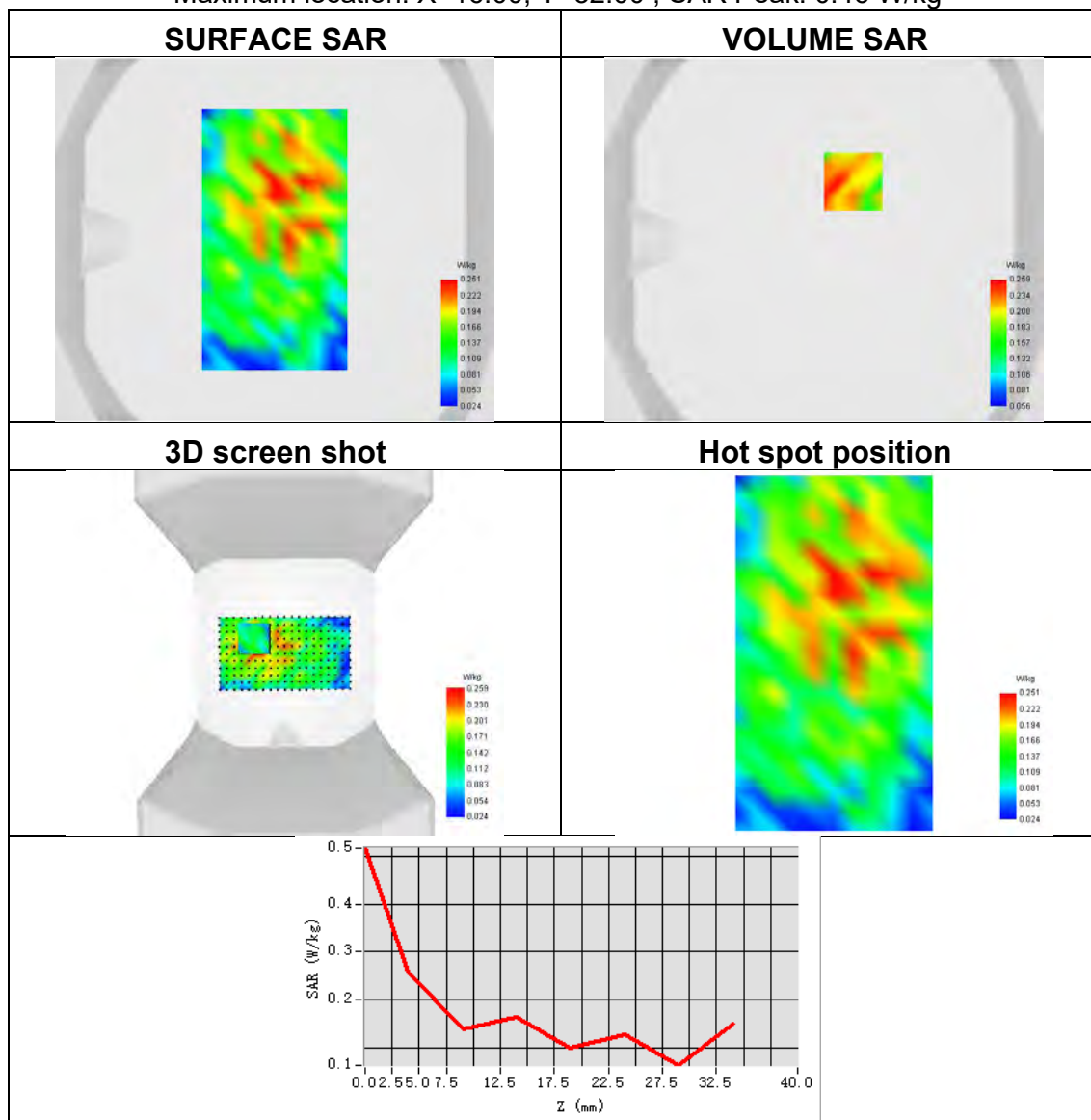




Plot 30:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 12
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.284
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

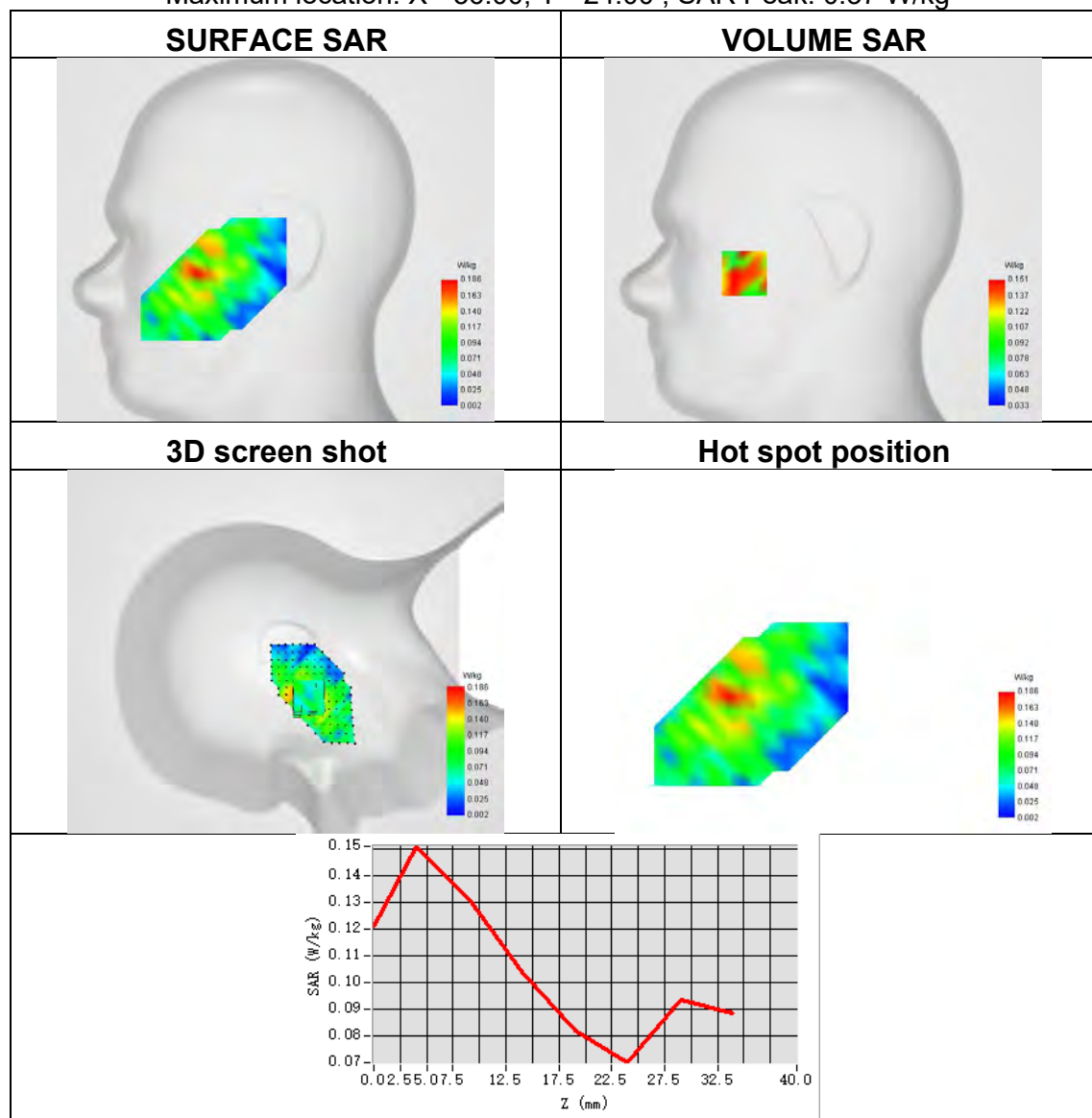
Maximum location: X=16.00, Y=32.00 ; SAR Peak: 0.46 W/kg



Plot 31:

Test Date	2025-01-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.113
SAR 1g (W/Kg)	0.183
ConvF	1.68
Relative permittivity	41.61
Conductivity (S/m)	0.87

Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 0.37 W/kg

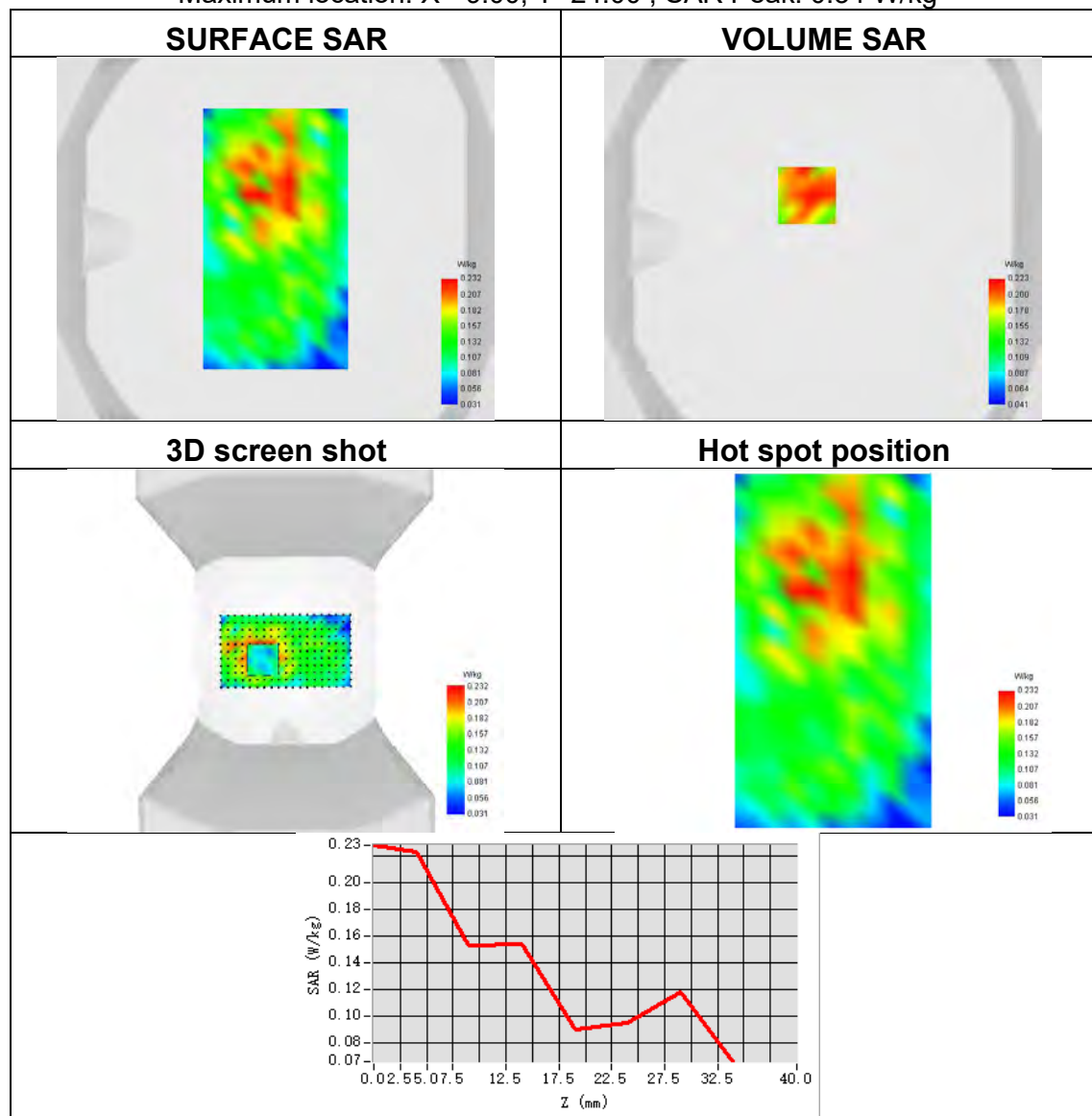




Plot 32:

Test Date	2025-01-20
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.154
SAR 1g (W/Kg)	0.232
ConvF	1.68
Relative permittivity	41.61
Conductivity (S/m)	0.87

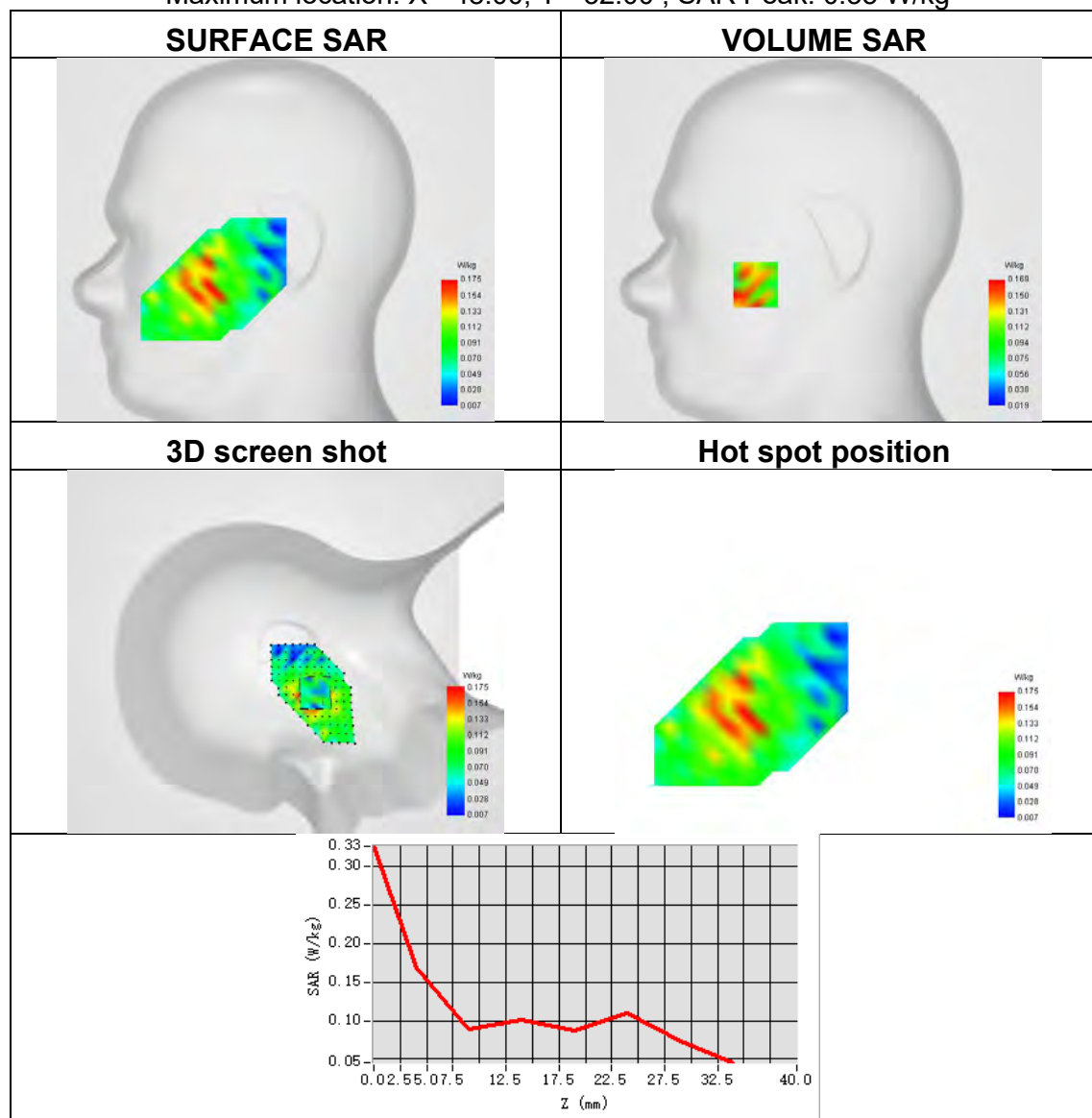
Maximum location: X=-9.00, Y=24.00 ; SAR Peak: 0.34 W/kg



Plot 33:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 17
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.101
SAR 1g (W/Kg)	0.171
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 0.35 W/kg

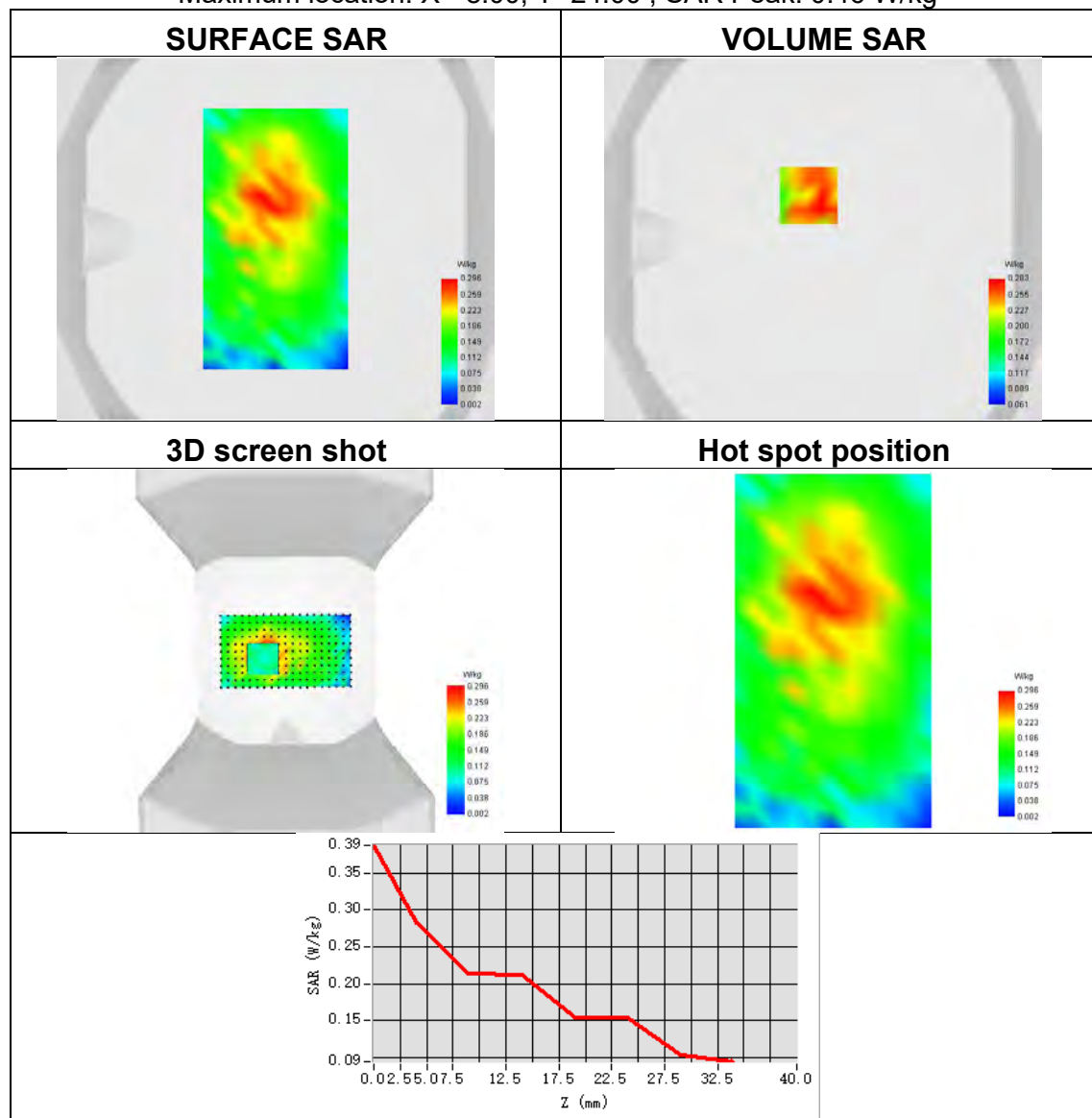




Plot 34:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 17
Signal	LTE FDD
Frequency	711
SAR 10g (W/Kg)	0.196
SAR 1g (W/Kg)	0.292
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

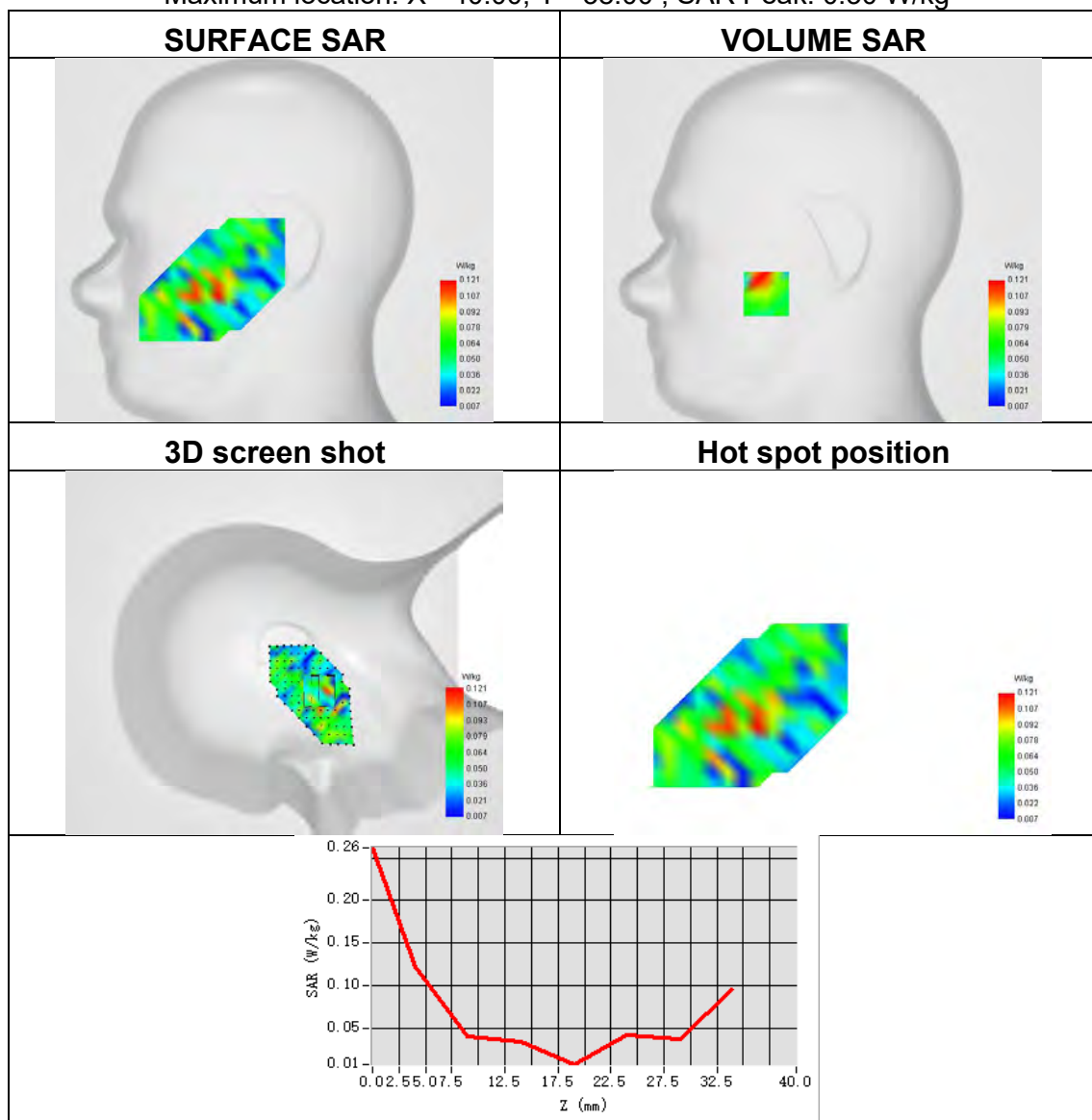
Maximum location: X=-8.00, Y=24.00 ; SAR Peak: 0.46 W/kg



Plot 35:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 25
Signal	LTE FDD
Frequency	1905
SAR 10g (W/Kg)	0.065
SAR 1g (W/Kg)	0.131
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

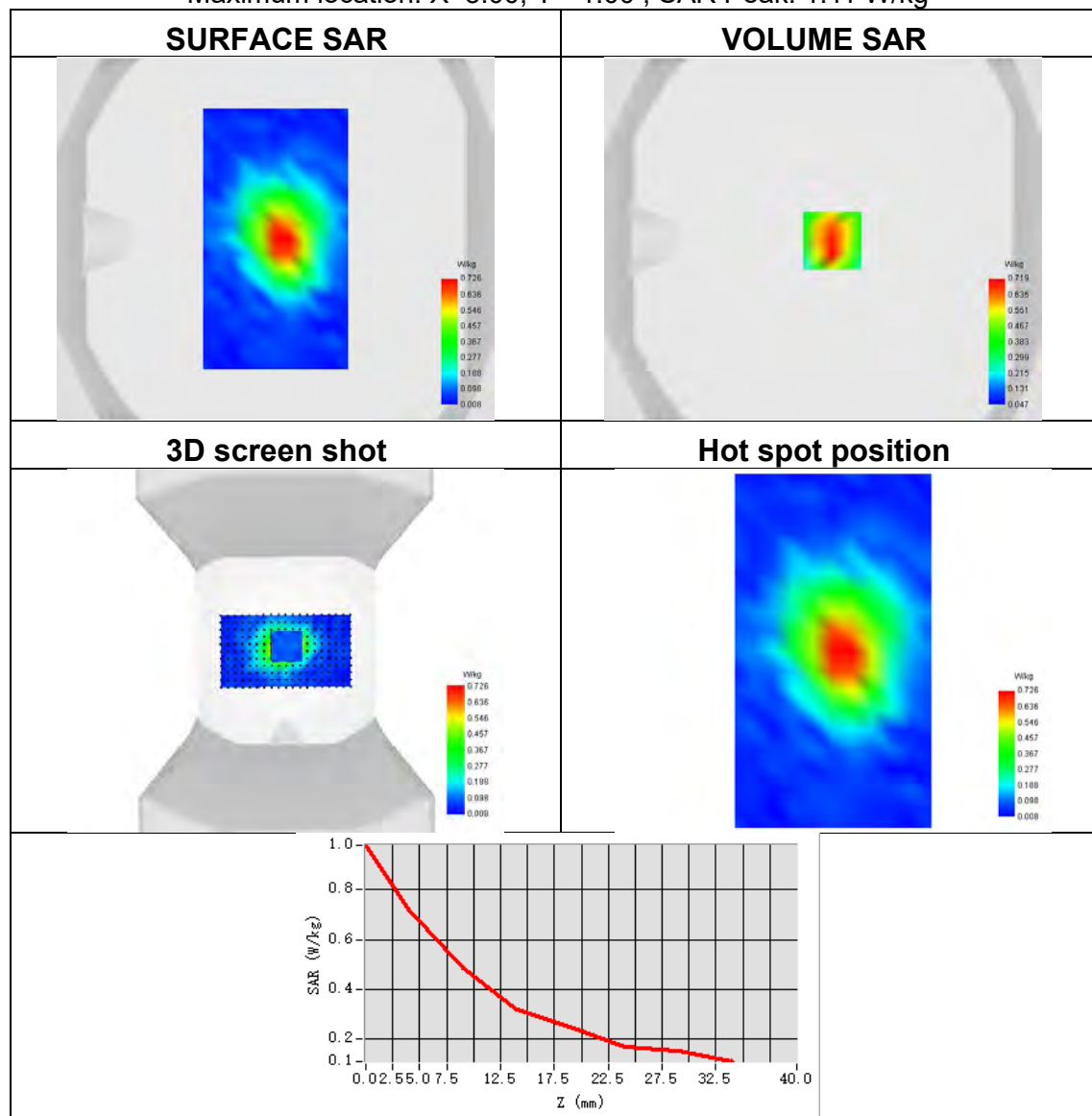
Maximum location: X=-40.00, Y=-38.00 ; SAR Peak: 0.30 W/kg



Plot 36:

Test Date	2025-02-11
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 25
Signal	LTE FDD
Frequency	1905
SAR 10g (W/Kg)	0.416
SAR 1g (W/Kg)	0.690
ConvF	2.20
Relative permittivity	40.96
Conductivity (S/m)	1.38

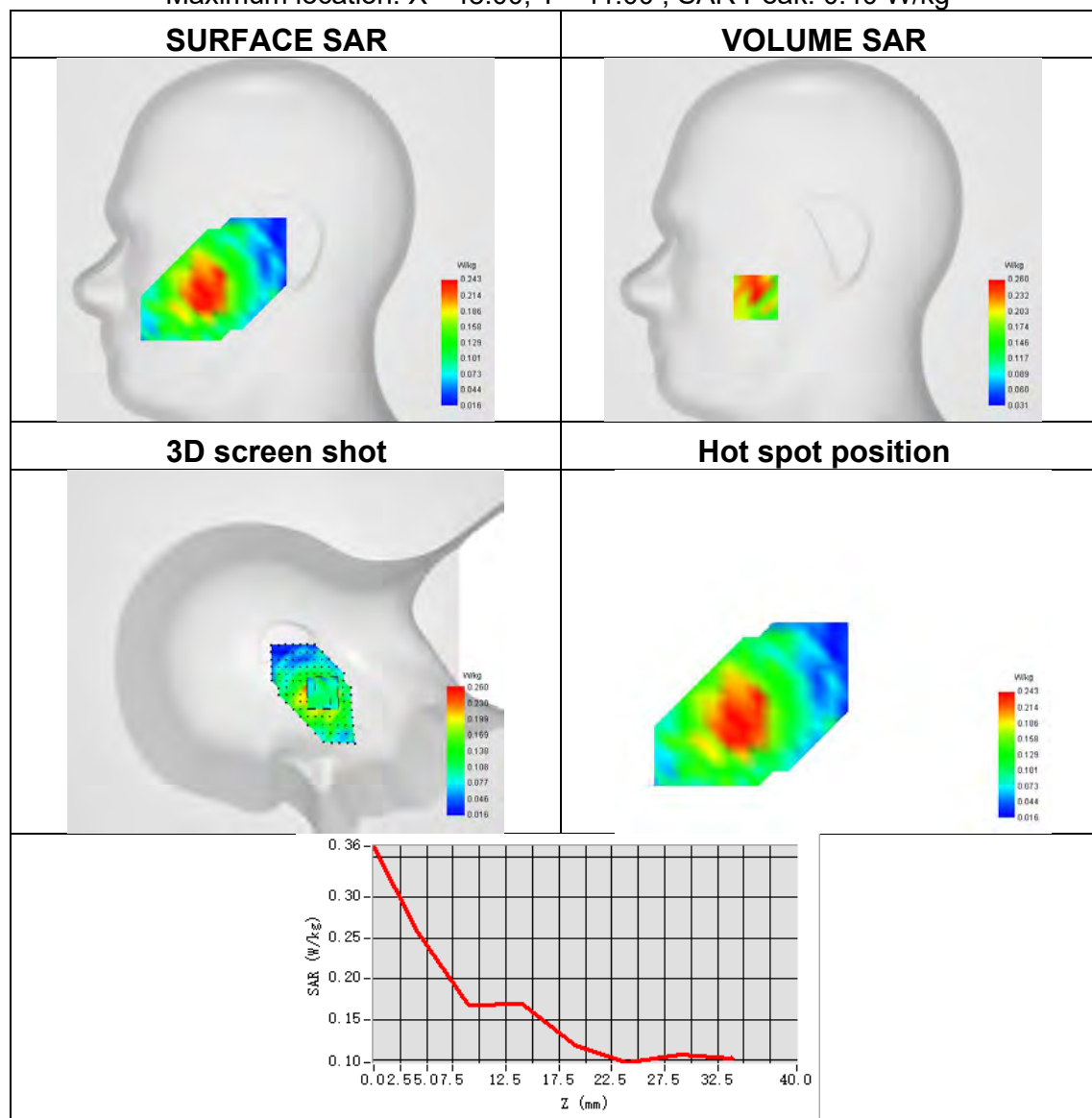
Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 1.11 W/kg



Plot 37:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 26
Signal	LTE FDD
Frequency	819
SAR 10g (W/Kg)	0.168
SAR 1g (W/Kg)	0.249
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

Maximum location: X=-48.00, Y=-41.00 ; SAR Peak: 0.40 W/kg

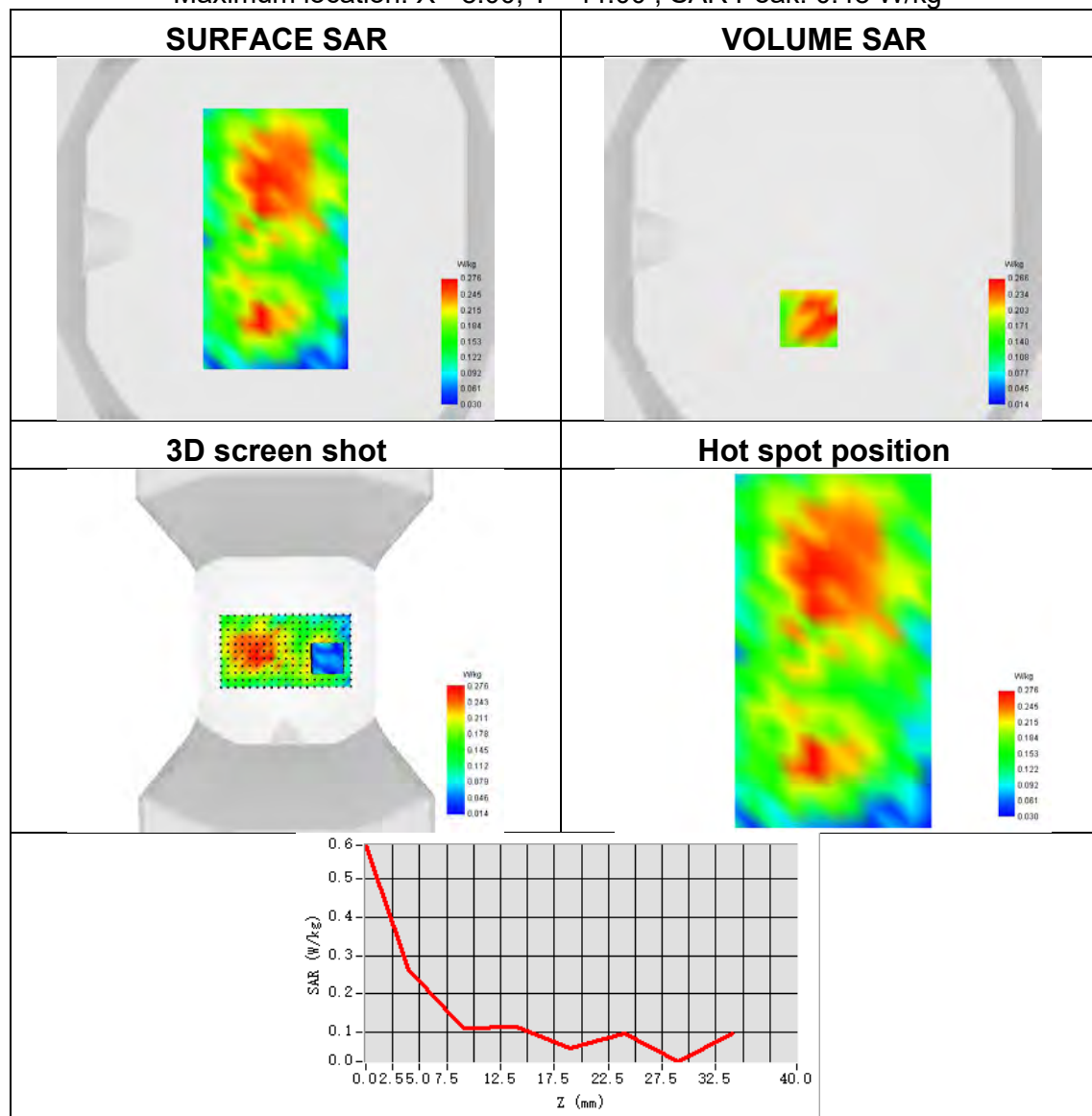




Plot 38:

Test Date	2025-02-12
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 26
Signal	LTE FDD
Frequency	819
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.272
ConvF	1.72
Relative permittivity	42.32
Conductivity (S/m)	0.89

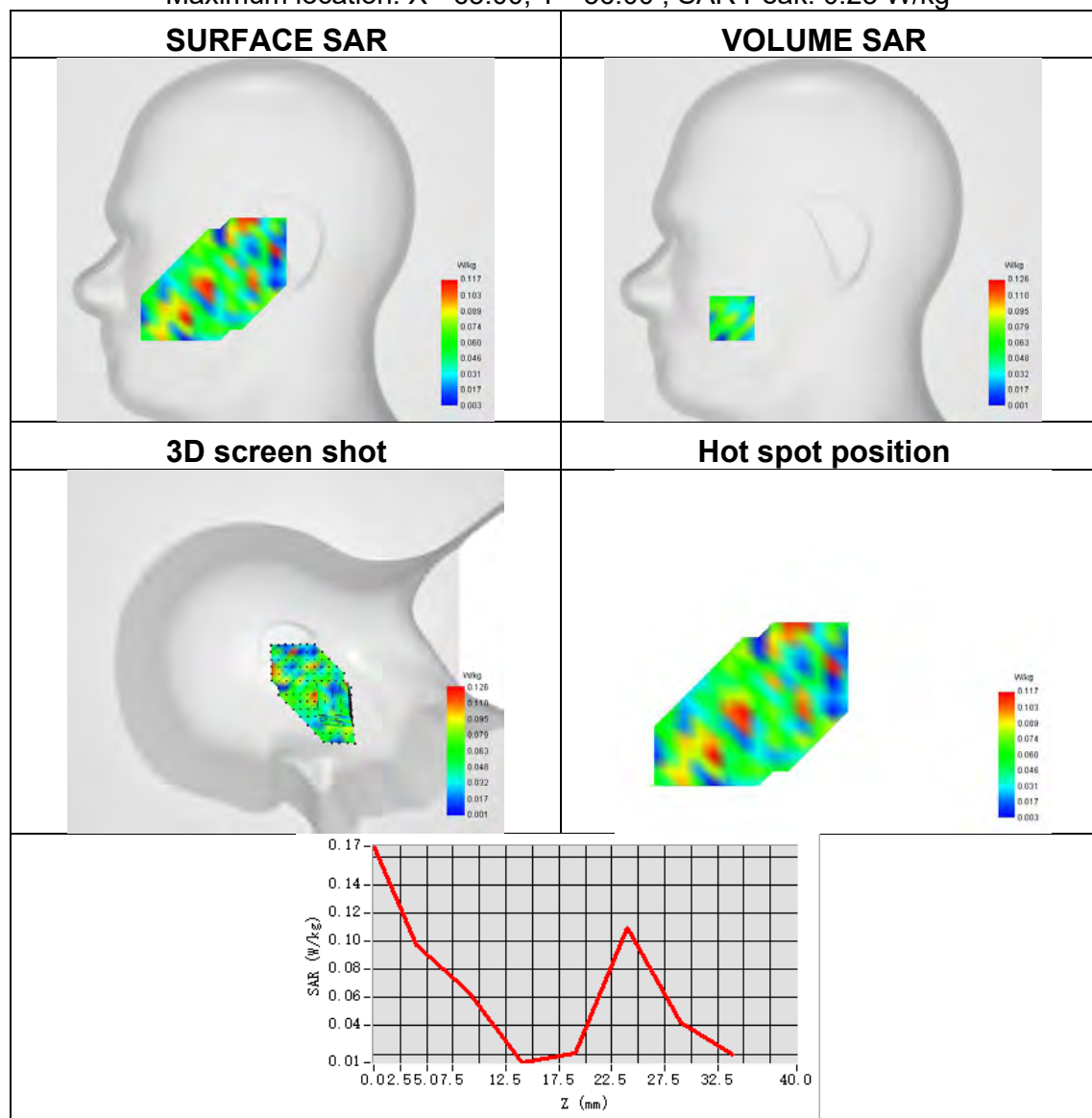
Maximum location: X=-8.00, Y=-44.00 ; SAR Peak: 0.48 W/kg



Plot 39:

Test Date	2025-02-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 38
Signal	LTE TDD
Frequency	2595
SAR 10g (W/Kg)	0.041
SAR 1g (W/Kg)	0.072
ConvF	2.37
Relative permittivity	39.65
Conductivity (S/m)	1.93

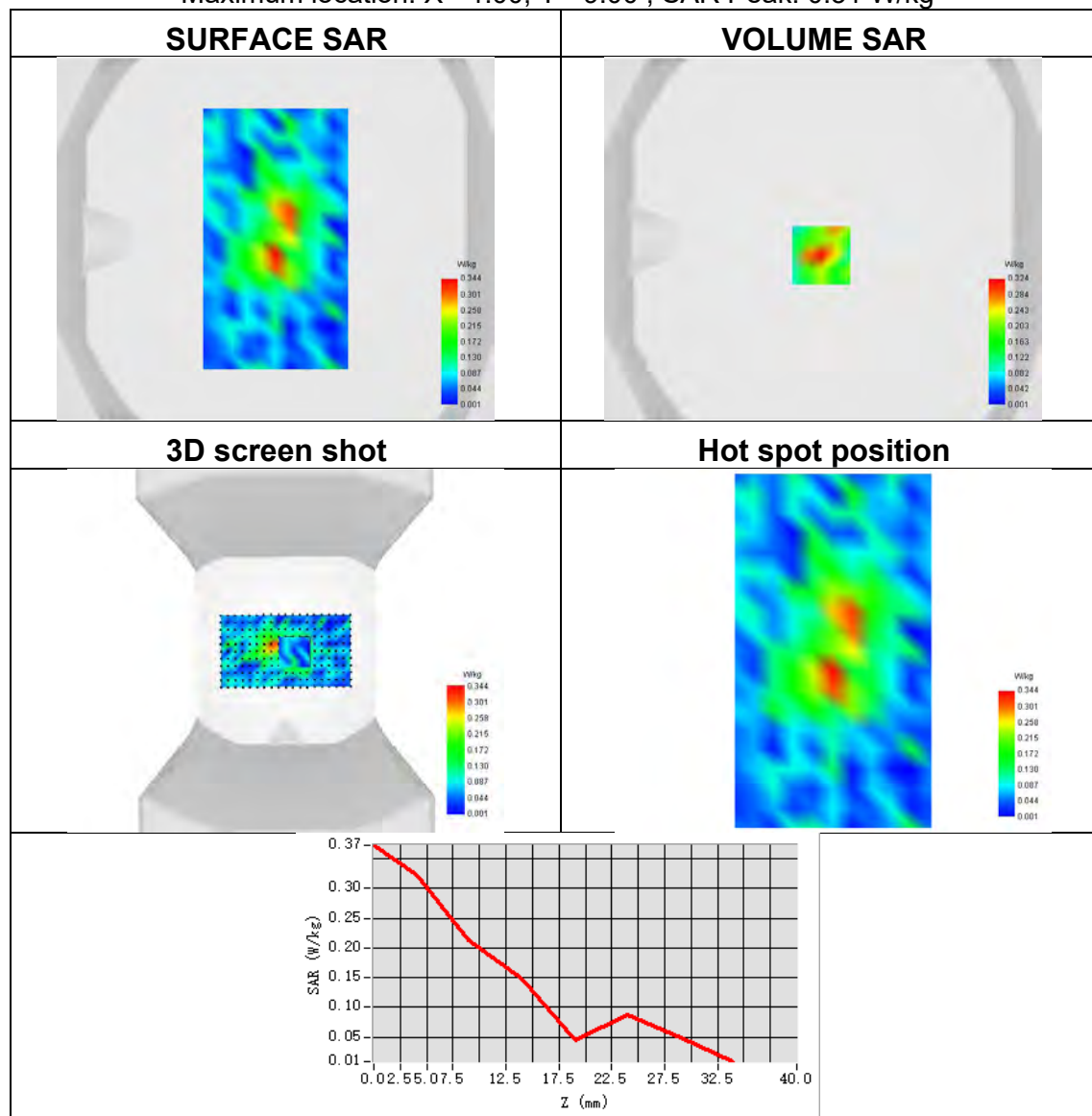
Maximum location: X=-65.00, Y=-56.00 ; SAR Peak: 0.23 W/kg



Plot 40:

Test Date	2025-02-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 38
Signal	LTE TDD
Frequency	2595
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.278
ConvF	2.37
Relative permittivity	39.65
Conductivity (S/m)	1.93

Maximum location: X=-1.00, Y=-9.00 ; SAR Peak: 0.51 W/kg

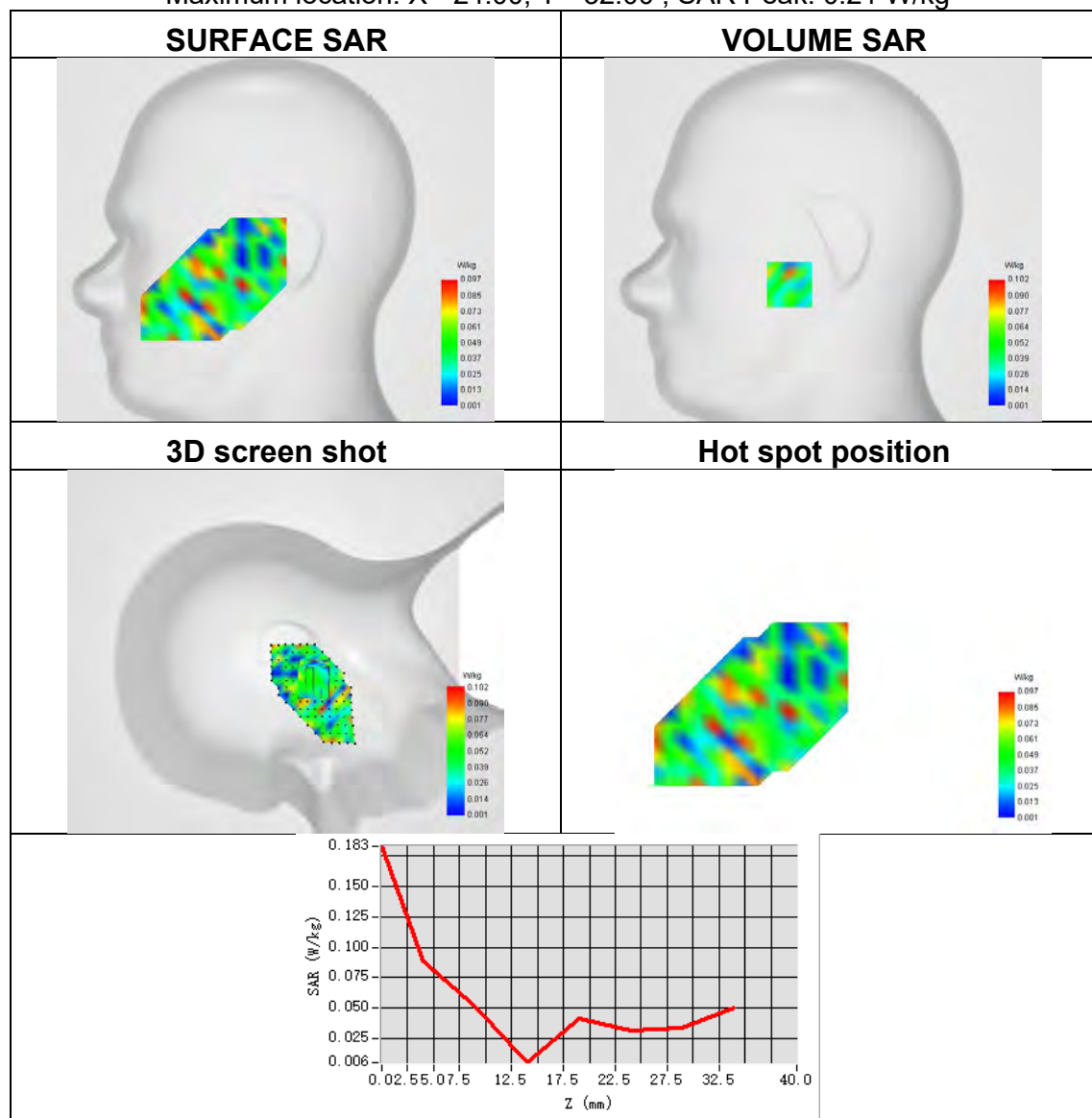




Plot 41:

Test Date	2025-02-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 40
Signal	LTE TDD
Frequency	2335
SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.079
ConvF	2.32
Relative permittivity	39.64
Conductivity (S/m)	1.65

Maximum location: X=-24.00, Y=-32.00 ; SAR Peak: 0.21 W/kg

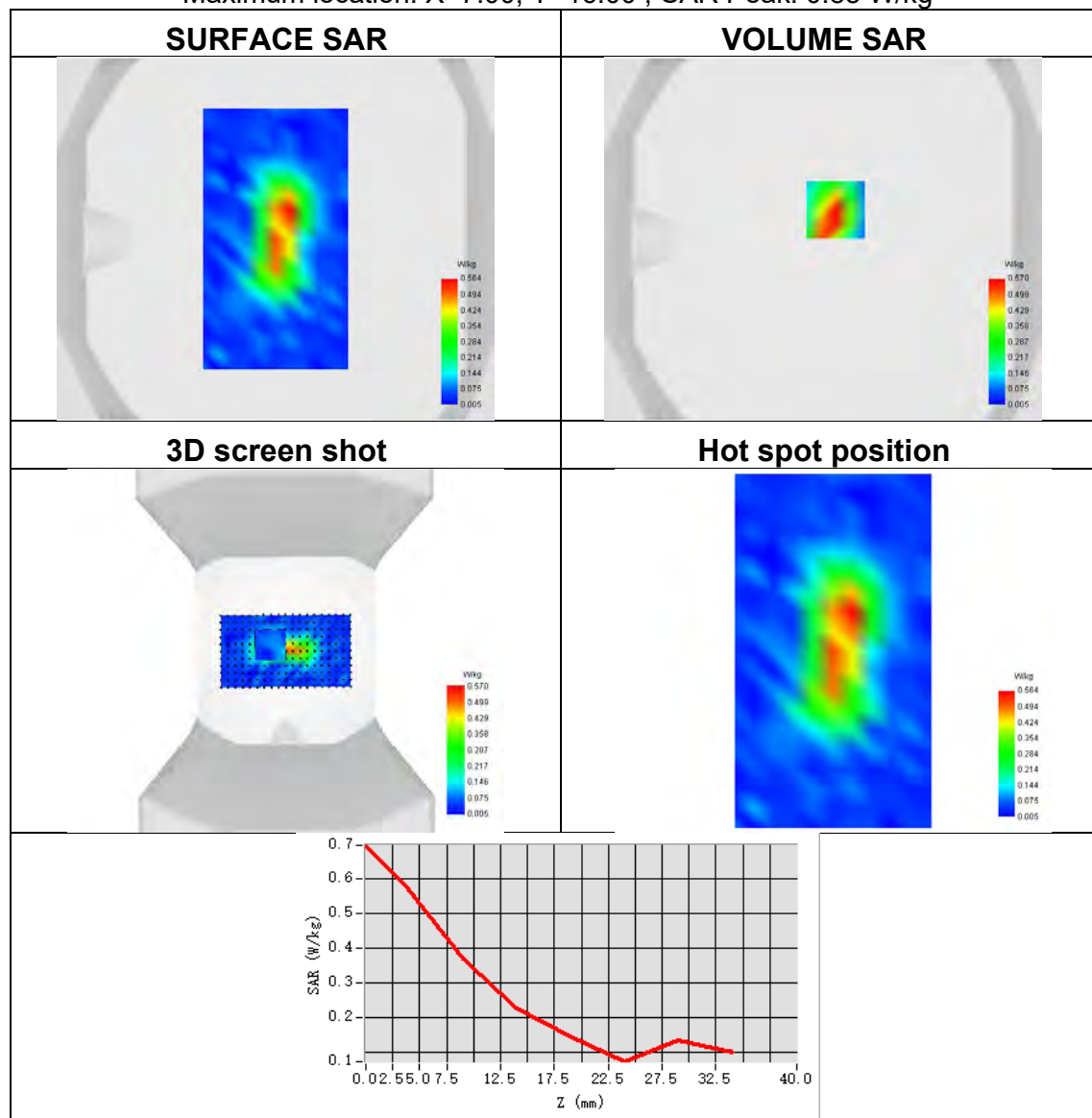




Plot 42:

Test Date	2025-02-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 40
Signal	LTE TDD
Frequency	2335
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.521
ConvF	2.32
Relative permittivity	39.64
Conductivity (S/m)	1.65

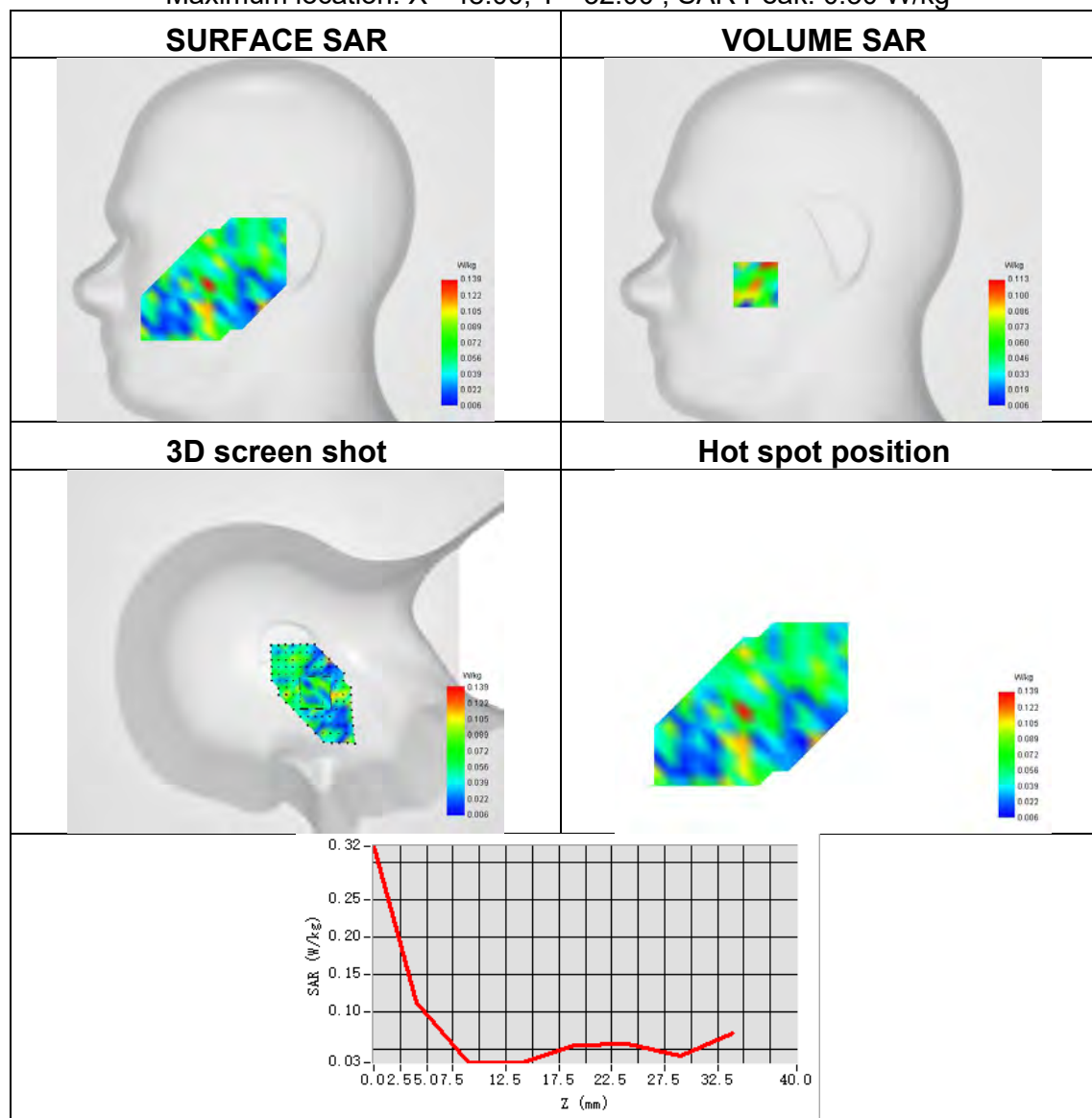
Maximum location: X=7.00, Y=16.00 ; SAR Peak: 0.85 W/kg



Plot 43:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 41
Signal	LTE TDD
Frequency	2593
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.104
ConvF	2.35
Relative permittivity	39.19
Conductivity (S/m)	2.01

Maximum location: X=-48.00, Y=-32.00 ; SAR Peak: 0.30 W/kg

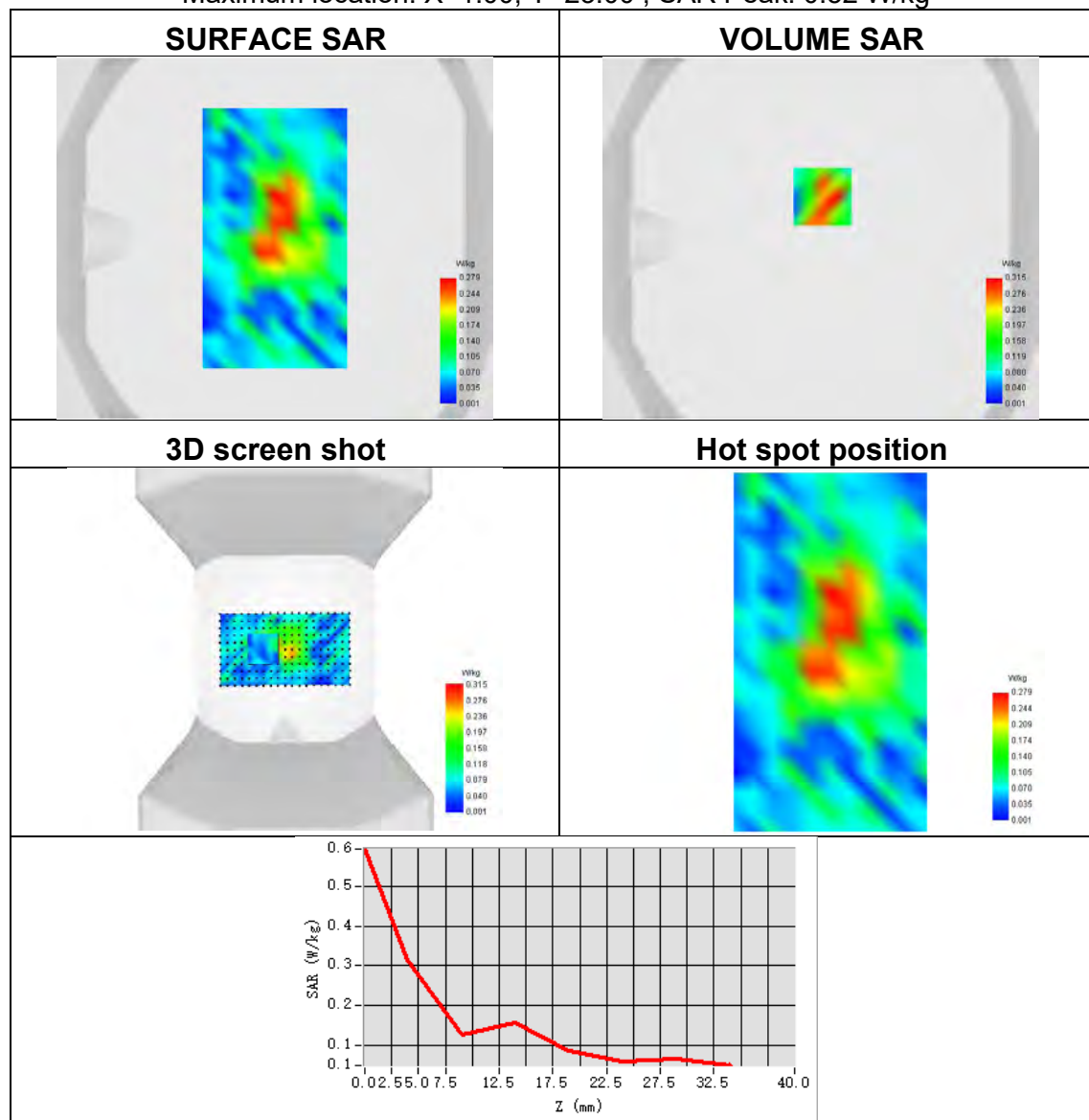




Plot 44:

Test Date	2025-01-17
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 41
Signal	LTE TDD
Frequency	2593
SAR 10g (W/Kg)	0.152
SAR 1g (W/Kg)	0.298
ConvF	2.35
Relative permittivity	39.19
Conductivity (S/m)	2.01

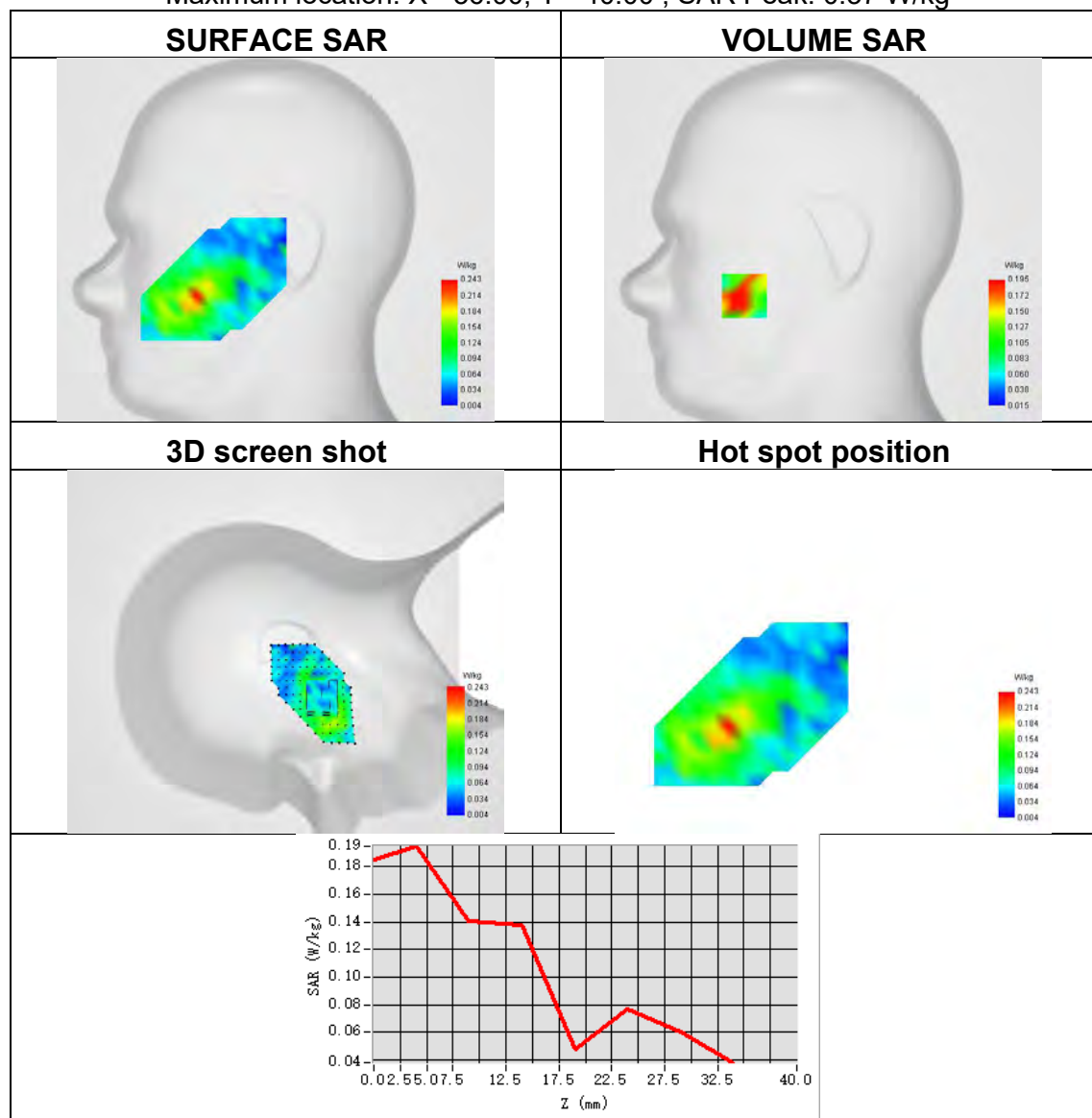
Maximum location: X=1.00, Y=23.00 ; SAR Peak: 0.52 W/kg



Plot 45:

Test Date	2025-02-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	0.117
SAR 1g (W/Kg)	0.189
ConvF	1.92
Relative permittivity	40.67
Conductivity (S/m)	1.45

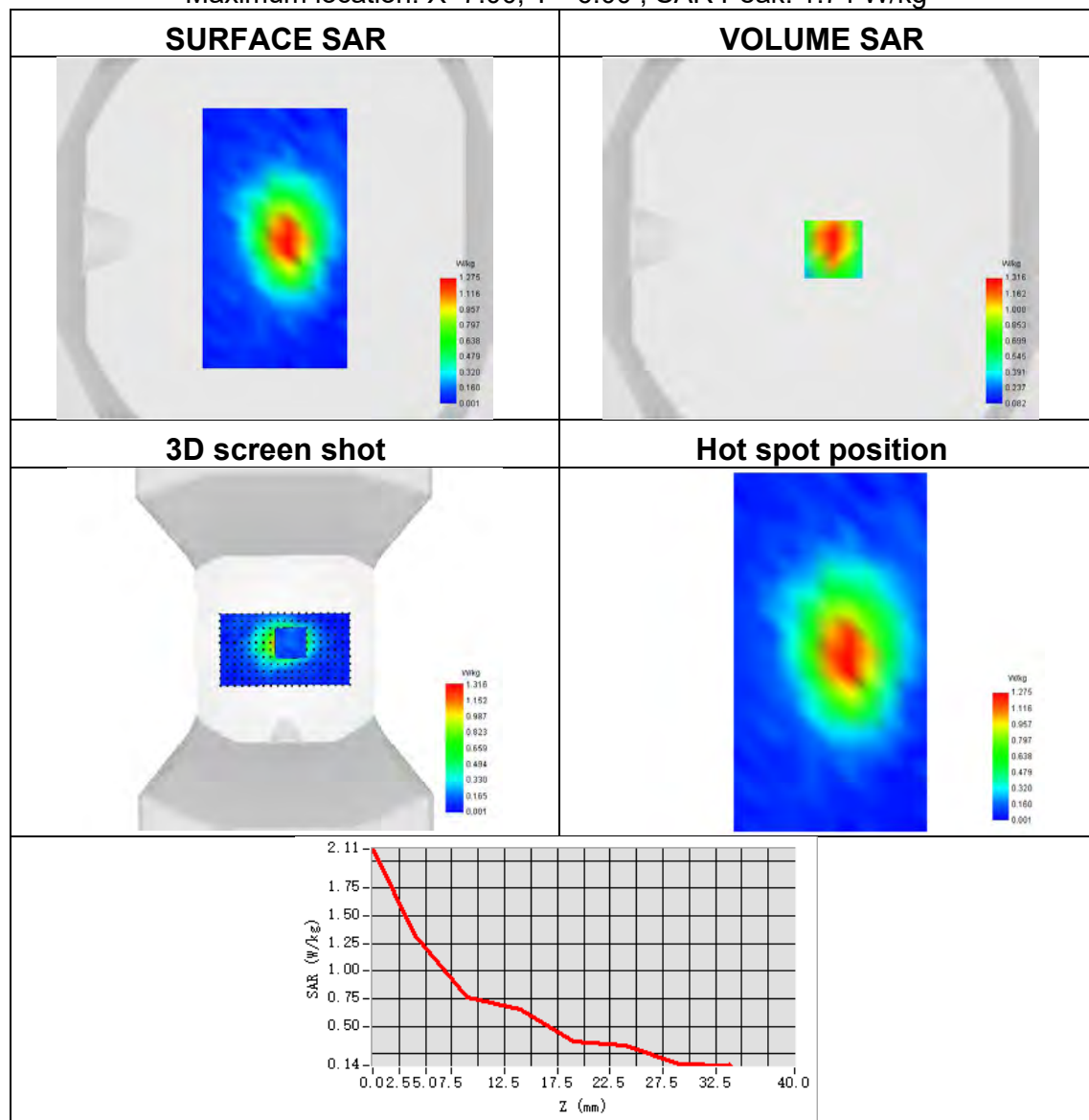
Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 0.37 W/kg



Plot 46:

Test Date	2025-02-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	0.764
SAR 1g (W/Kg)	1.228
ConvF	1.92
Relative permittivity	40.67
Conductivity (S/m)	1.45

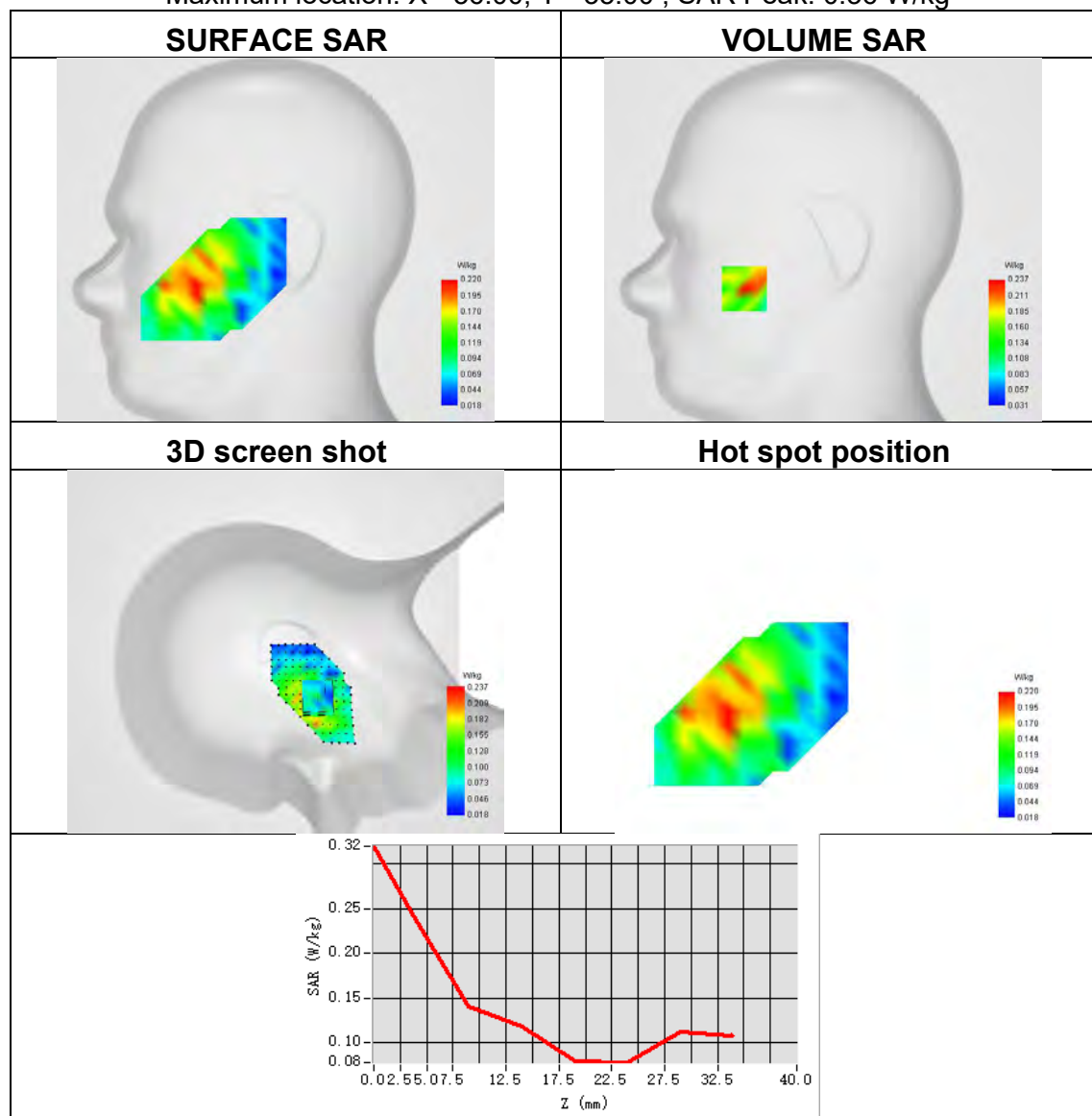
Maximum location: X=7.00, Y=-6.00 ; SAR Peak: 1.74 W/kg



Plot 47:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Right head
Device Position	Cheek
Band	LTE band 71
Signal	LTE FDD
Frequency	642
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.233
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

Maximum location: X=-56.00, Y=-35.00 ; SAR Peak: 0.36 W/kg

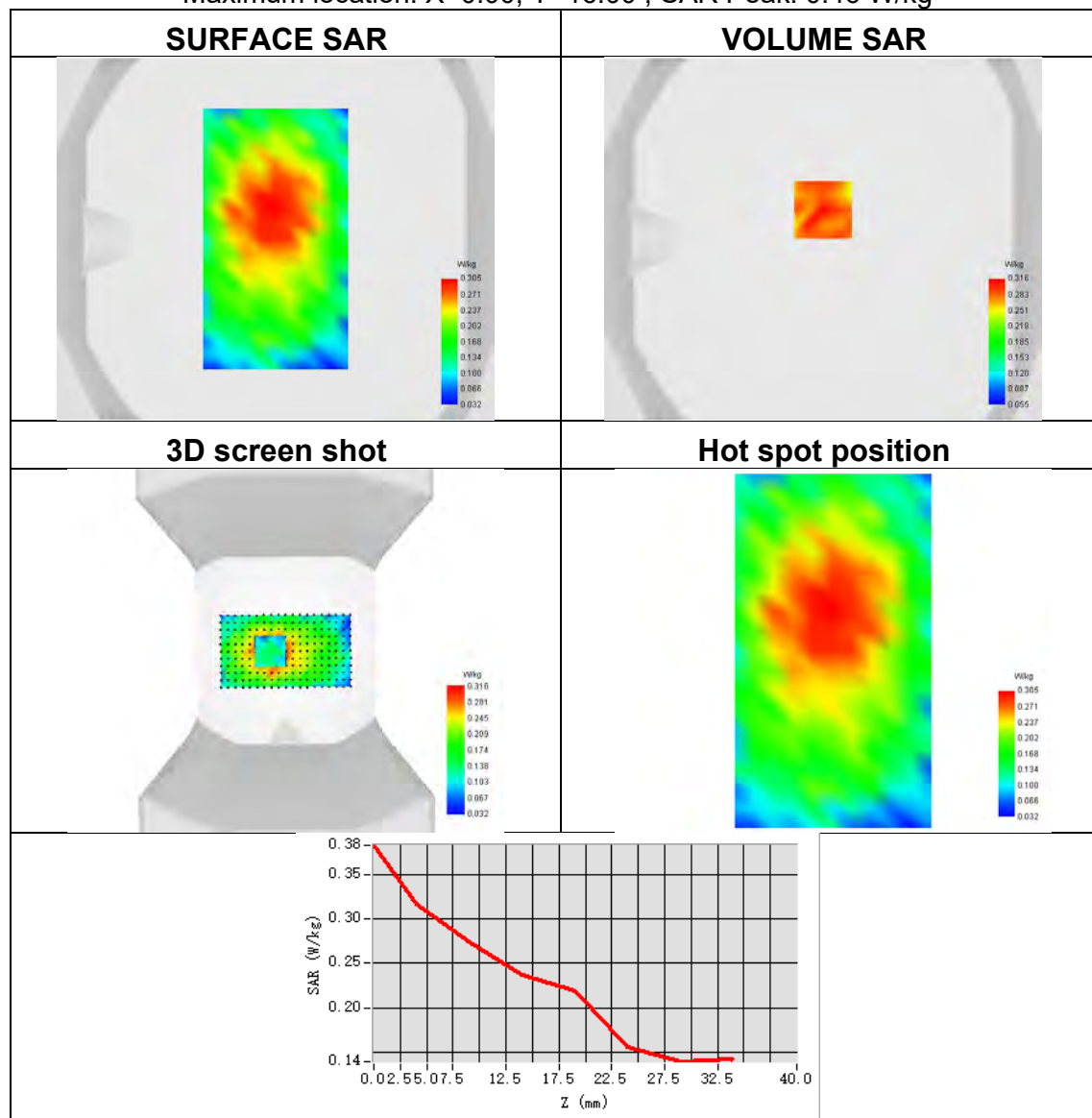




Plot 48:

Test Date	2025-02-15
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 71
Signal	LTE FDD
Frequency	642
SAR 10g (W/Kg)	0.243
SAR 1g (W/Kg)	0.333
ConvF	1.67
Relative permittivity	42.65
Conductivity (S/m)	0.91

Maximum location: X=0.00, Y=16.00 ; SAR Peak: 0.46 W/kg

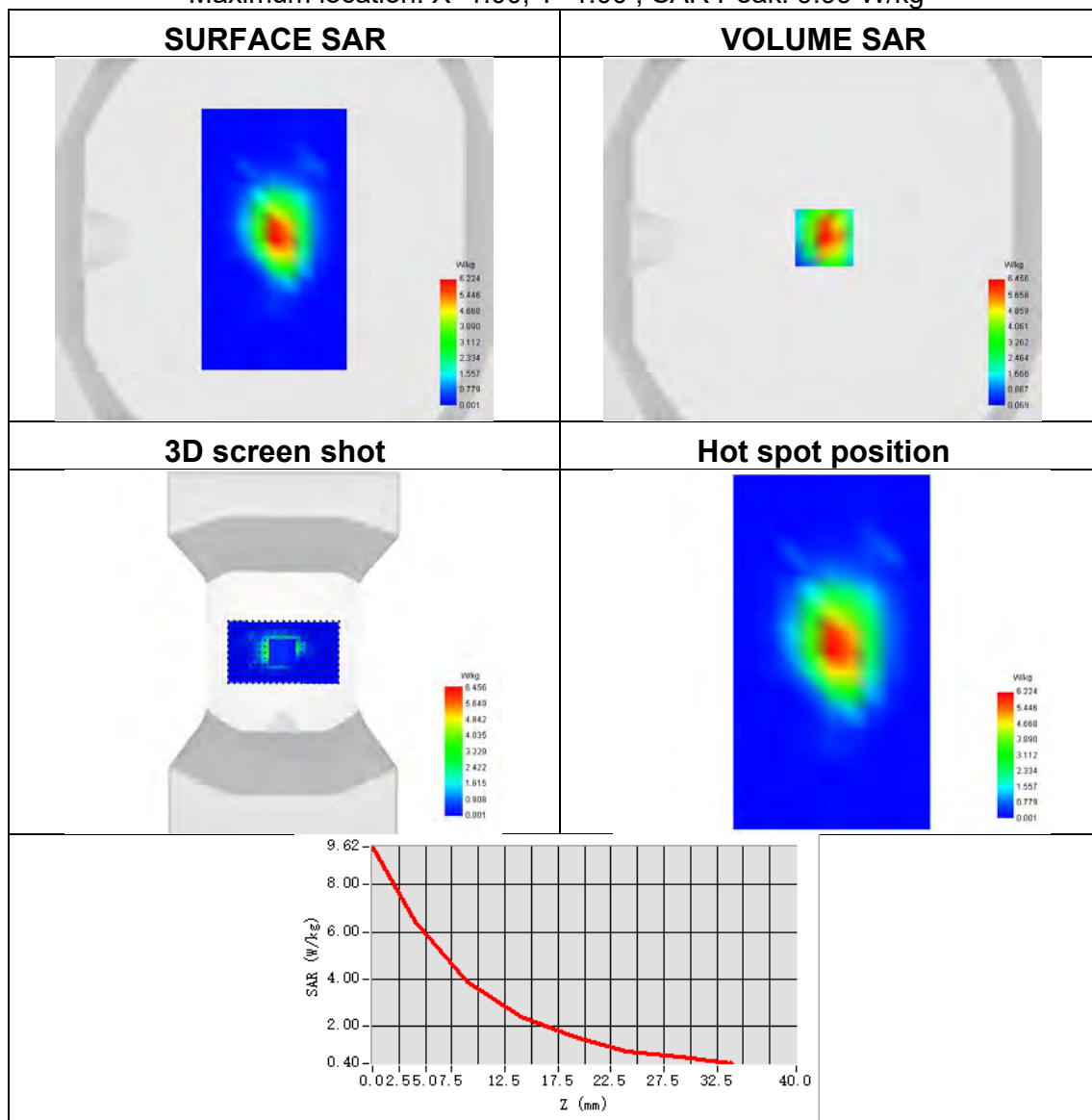




Plot 49:

Test Date	2025-02-13
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	Band 4
Signal	WCDMA
Frequency	1740
SAR 10g (W/Kg)	3.218
SAR 1g (W/Kg)	6.086
ConvF	1.92
Relative permittivity	40.33
Conductivity (S/m)	1.43

Maximum location: X=1.00, Y=1.00 ; SAR Peak: 9.99 W/kg

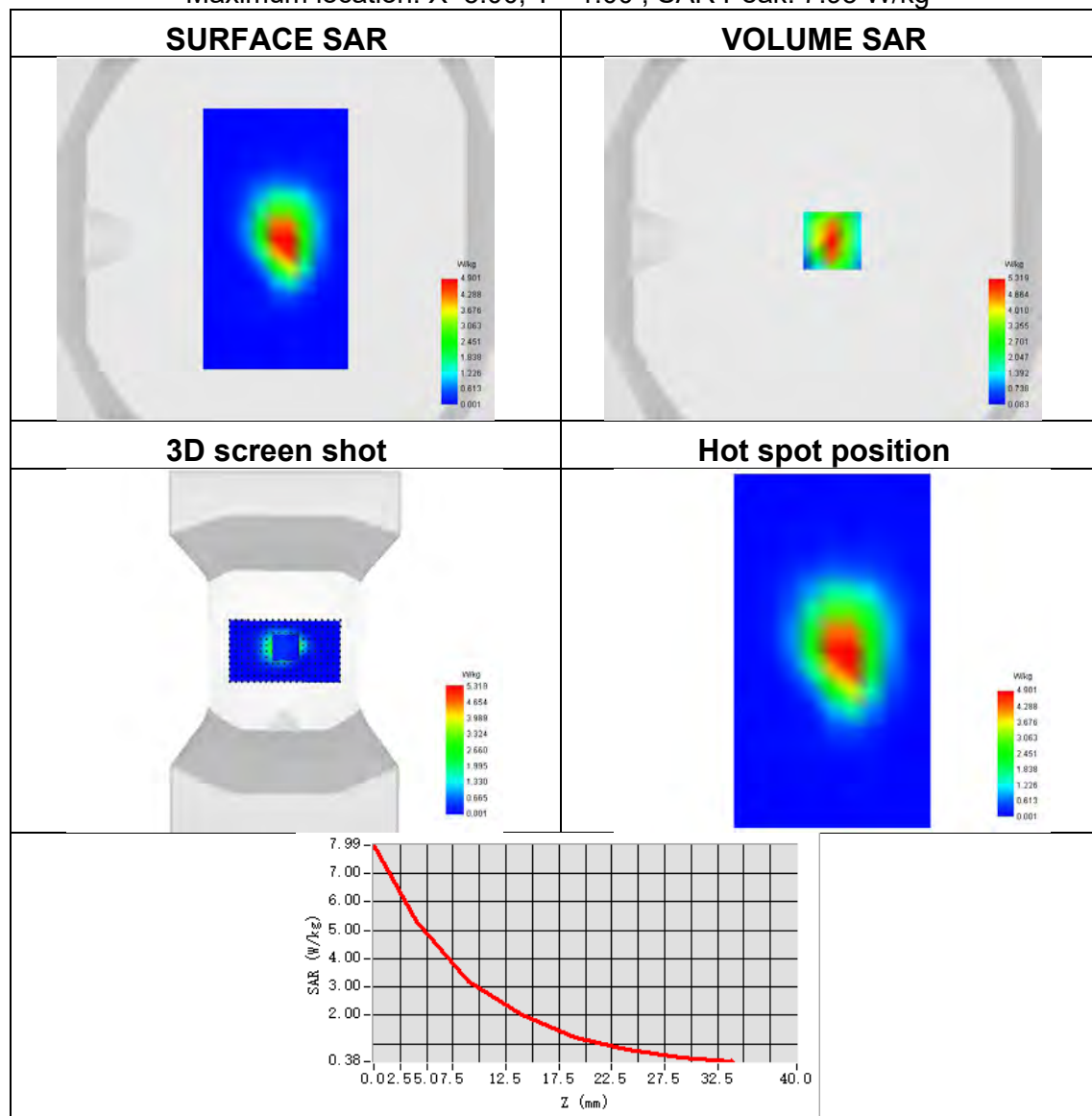




Plot 50:

Test Date	2025-02-14
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 66
Signal	LTE FDD
Frequency	1770
SAR 10g (W/Kg)	2.609
SAR 1g (W/Kg)	4.895
ConvF	1.92
Relative permittivity	40.67
Conductivity (S/m)	1.45

Maximum location: X=5.00, Y=-1.00 ; SAR Peak: 7.95 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※