



SAR TEST REPORT

Product Name: AlcoBreath

Model Number: A13-BUD-A-TEEU-ABA, 7650001

FCC ID: ZDLST14

Issued For : Buddi Limited

Talbot House, 17 Church Street, Rickmansworth, Herts,
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Talbot House, 17 Church Street, Rickmansworth, Herts,
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Report Number: LGT25I222HA02

Sample Received Date: Sep. 16, 2025

Date of Test Sep. 16, 2025 ~ Nov. 07, 2025

Date of Issue Nov. 07, 2025

Body: 1.244 W/kg(1g)

Max. SAR

Limbs: 1.852 W/kg(10g)

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Revision History

Rev.	Issue Date	Contents
00	Nov. 07, 2025	Initial Issue



TEST REPORT CERTIFICATION

Applicant Buddi Limited
Address Talbot House, 17 Church Street, Rickmansworth, Herts,
WD3 1DE, UK
Manufacture Buddi Limited
Address Talbot House, 17 Church Street, Rickmansworth, Herts,
WD3 1DE, UK
Product Name AlcoBreath
Trademark Buddi
Model Number A13-BUD-A-TEEU-ABA, 7650001
Sample number LGT2509264-7

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

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1. General Information

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

1.1 EUT Description

Product Name	AlcoBreath		
Test Model Number	A13-BUD-A-TEEU-ABA		
Series Number	7650001		
Model Difference	The difference only in the model name.		
Device Category	Portable		
Product stage	Production unit		
RF Exposure Environment	General Population / Uncontrolled		
Hardware Version	V14.1		
Software Version	v1.41.6		
Frequency Range	GSM 850: 824 ~ 849 MHz PCS 1900: 1850 ~ 1910 MHz WCDMA Band II: 1850 ~ 1910 MHz WCDMA Band V: 824 ~ 849 MHz LTE Band 2:1850 ~1910MHz LTE Band 5:824 ~ 849MHz LTE Band 12:699~716MHz WLAN 802.11b/g/n20: 2412 MHz ~ 2462 MHz ISM: 914.5 ~ 921.0 MHz		
Max. Reported SAR: Test distance: Body: 10mm Limbs: 0mm	Mode	Body Worn and Hotspot (W/kg) (1g)	Limbs (W/kg) (10g)
	GSM 850	0.537	0.162
	PCS 1900	0.632	0.524
	WCDMA Band II	1.244	0.959
	WCDMA Band V	0.212	0.207
	LTE Band 2	1.240	1.852
	LTE Band 5	0.244	0.188
	LTE Band 12	0.113	0.158
	2.4G WLAN	0.103	0.044
Limit		1.6	4
Battery	Rated Voltage:3.7V Capacity: 2650mAh		
Operating Mode:	GSM: GPRS/EGPRS Class 12 WCDMA: RMC, HSDPA, HSUPA Release 6 LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK ISM: FSK		
Antenna Specification	GSM/WCDMA/LTE: SMD Antenna WLAN: SMD Antenna ISM: FPC Antenna		
Operating Mode	Maximum continuous output		
SIM Card	Only support single SIM Card.		



Hotspot Mode	Support
DTM Mode	Not Support
Note 1: The ISM 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

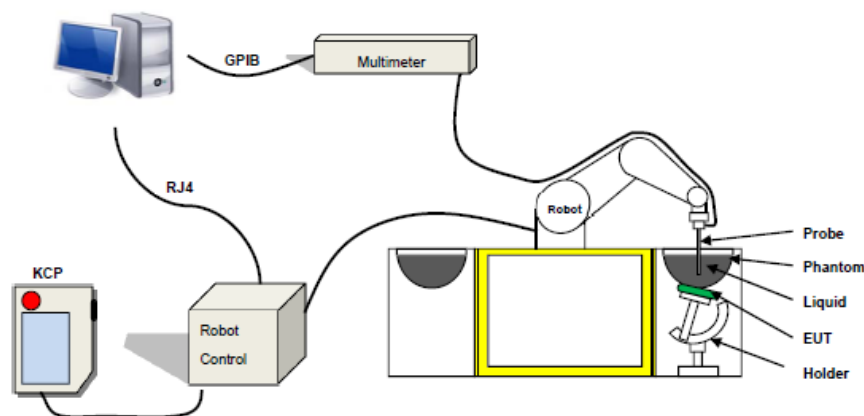
$$SAR = \frac{\sigma E^2}{\rho}$$

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 2225-EPGO-450 with following specifications is used

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



Figure 1-MVG COMOSAR Dosimetric E field Probe

3.2.2 Phantom

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

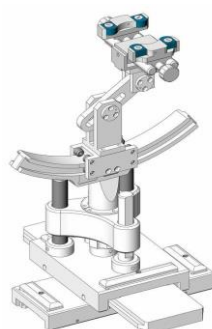


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

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

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

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

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



LIQUID MEASUREMENT RESULTS

Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-10-01	23.7	50	750	23.4	Permittivity	41.90	42.00	0.24	±5
					Conductivity	0.89	0.85	-4.49	±5
2025-10-02	22.5	59	835	22.2	Permittivity	41.50	41.68	0.43	±5
					Conductivity	0.90	0.86	-4.44	±5
2025-10-03	23	45	1800	22.7	Permittivity	40.00	41.07	2.68	±5
					Conductivity	1.40	1.41	0.71	±5
2025-10-03	23.8	60	1900	23.5	Permittivity	40.00	40.46	1.15	±5
					Conductivity	1.40	1.41	0.71	±5
2025-10-01	23.5	43	2450	21.3	Permittivity	39.20	40.22	2.60	±5
					Conductivity	1.80	1.81	0.56	±5

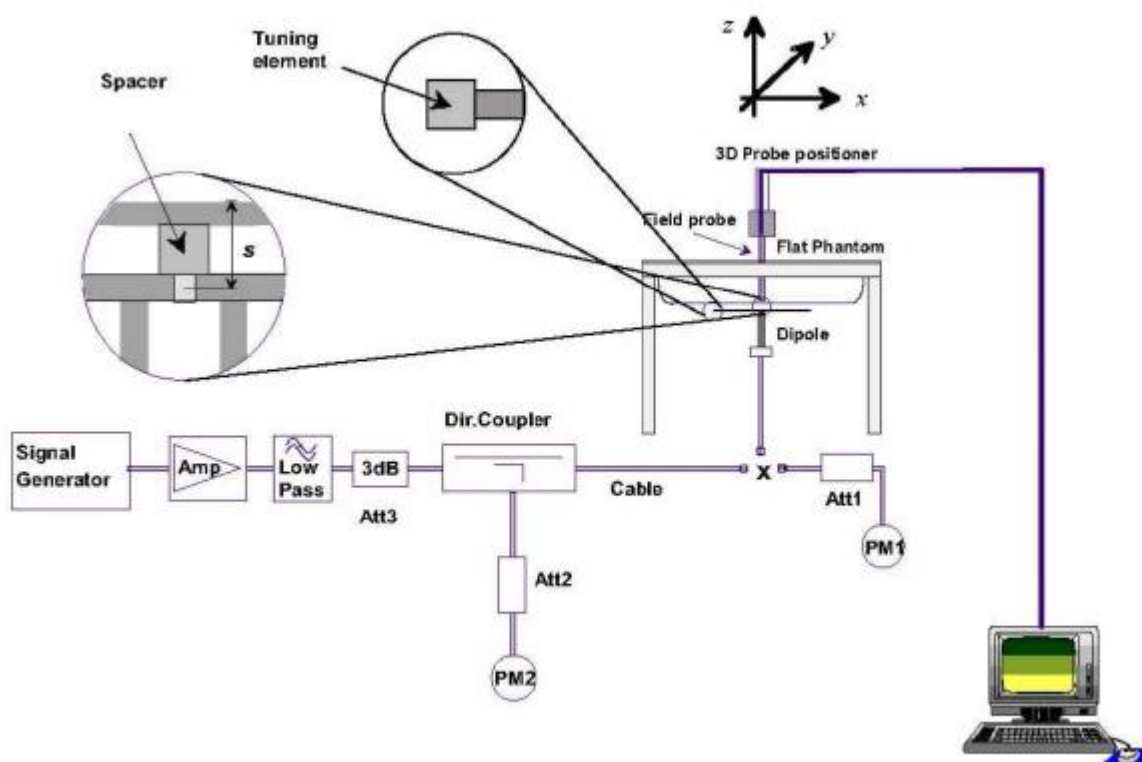


5. SAR System Validation

5.1 Validation System

Each MVG system is equipped with one or more system validation kits. These units, together with the predefined measurement procedures within the MVG software, enable the user to conduct the system performance check and system validation. System kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.





5.2 Validation Result

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

Date	Freq.	Power	Power drift	Tested Value	Normalized SAR	Target SAR	Tolerance
	(MHz)	(mW)	(%)	(W/Kg)	(W/kg)	1g(W/kg)	(%)
2025-10-01	750	100	0.854	8.54	8.51	0.35	10
2025-10-02	835	100	0.943	9.43	9.63	-2.08	10
2025-10-03	1800	100	3.654	36.54	36.60	-0.16	10
2025-10-03	1900	100	4.003	40.03	40.20	-0.42	10
2025-10-01	2450	100	5.314	53.14	52.98	0.30	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

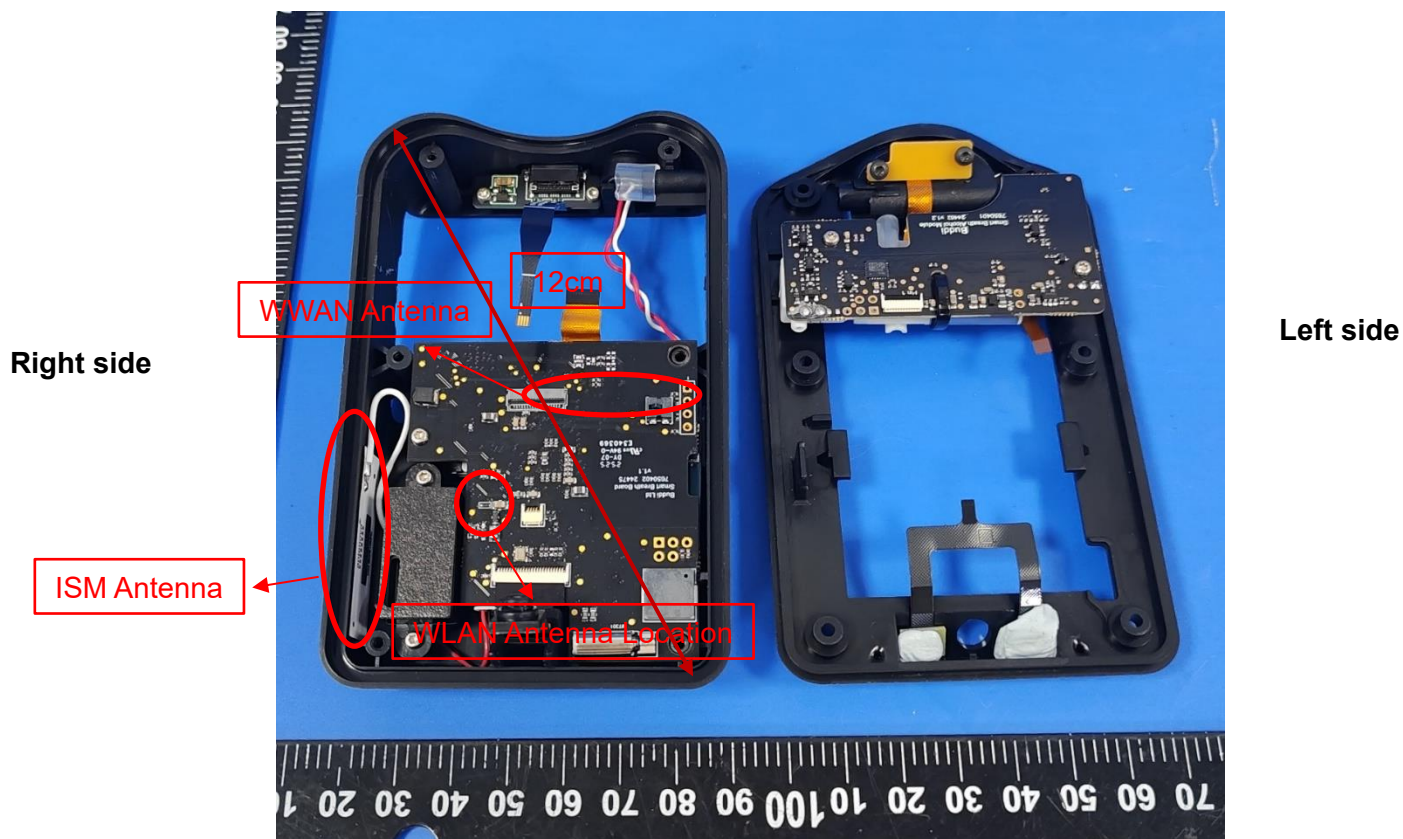
First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan 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 AlcoBreath, support GSM/WCDMA/LTE/WLAN/ISM mode.

Bottom side



**Top side
(Front view)**

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WLAN	≤0.5	≤0.5	41	25	30	75
WWAN	≤0.5	≤0.5	≤0.5	32	50	55
ISM	≤0.5	≤0.5	63	≤0.5	≤0.5	68

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 SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	GSM850	PCS1900	WCDMA II	WCDMA V
	Calculated Frequency (MHz)	848.8	1909.8	1880	826.4
	Maximum Turn-up power (dBm)	32	29	24.3	24.6
	Maximum rated power(mW)	1584.89	794.33	269.15	288.40
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.85	10.94	16.50
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.85	10.94	16.50
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	16.28	10.85	10.94	16.50
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	32	32	32	32
	exclusion threshold(mW)	104.20	69.47	70.02	105.60
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	50	50	50	50
	exclusion threshold(mW)	162.81	108.54	109.40	165.00
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	55	55	55	55
	exclusion threshold(mW)	191.11	158.54	159.40	192.55
	Testing required?	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 2	LTE Band 5	LTE Band 12	2.4G WLAN	ISM
	Calculated Frequency (MHz)	1880	829	711	2462	914.5
	Maximum Turn-up power (dBm)	24.5	25	25.1	15.5	-5.5
	Maximum rated power(mW)	281.84	316.23	323.59	35.48	0.28
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	16.47	17.79	9.56	15.69
	Testing required?	YES	YES	YES	YES	NO
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	16.47	17.79	9.56	15.69
	Testing required?	YES	YES	YES	YES	NO
Left Edge	Separation distance (mm)	5	5	5	41	63
	exclusion threshold(mW)	10.94	16.47	17.79	5.60	236.11
	Testing required?	YES	YES	YES	YES	NO
Right Edge	Separation distance (mm)	32	32	32	25	5
	exclusion threshold(mW)	70.02	105.44	113.85	47.80	15.69
	Testing required?	YES	YES	YES	NO	NO
Top Edge	Separation distance (mm)	50	50	50	30	5
	exclusion threshold(mW)	109.40	164.75	177.89	1272.79	212.13
	Testing required?	YES	YES	YES	NO	NO
Bottom Edge	Separation distance (mm)	55	55	55	75	68
	exclusion threshold(mW)	159.40	192.38	201.59	345.60	266.60
	Testing required?	YES	YES	YES	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, $f(\text{GHz})$ is the RF channel transmit frequency in GHz. Power and distance are rounded to the nearest mW and mm before calculation.

The result is rounded to one decimal place for comparison

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

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

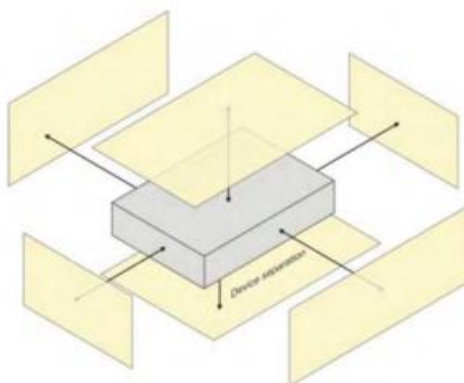


8. EUT Test Position

This EUT was tested in Front Face and Rear Face.

8.1 Body-worn Position Conditions

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





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
GPRS (GMSK, 1-Slot)	33.09	33.21	33.25	29.96	30.15	29.86
GPRS (GMSK, 2-Slot)	32.96	33.06	33.09	29.88	30.01	29.76
GPRS (GMSK, 3-Slot)	32.55	32.82	32.82	29.33	29.58	29.36
GPRS (GMSK, 4-Slot)	31.2	31.59	31.65	28.23	28.6	28.6
EGPRS (8PSK, 1-Slot)	28.13	28.5	28.52	27.37	27.24	27.94
EGPRS (8PSK, 2-Slot)	27.61	28.18	28.57	27.26	27.11	27.68
EGPRS (8PSK, 3-Slot)	27	27.53	27.65	26.42	26.79	27.29
EGPRS (8PSK, 4-Slot)	25.36	25.86	25.78	25.18	25.46	25.82
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
GPRS (GMSK, 1-Slot)	24.06	24.18	24.22	20.93	21.12	20.83
GPRS (GMSK, 2-Slot)	26.94	27.04	27.07	23.86	23.99	23.74
GPRS (GMSK, 3-Slot)	28.29	28.56	28.56	25.07	25.32	25.10
GPRS (GMSK, 4-Slot)	28.19	28.58	28.64	25.22	25.59	25.59
EGPRS (8PSK, 1-Slot)	19.10	19.47	19.49	18.34	18.21	18.91
EGPRS (8PSK, 2-Slot)	21.59	22.16	22.55	21.24	21.09	21.66
EGPRS (8PSK, 3-Slot)	22.74	23.27	23.39	22.16	22.53	23.03
EGPRS (8PSK, 4-Slot)	22.35	22.85	22.77	22.17	22.45	22.81
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 5		
Channel	9262	9400	9538	4132	4182	4233
Frequency (MHz)	1852.4	1880	1907.6	826.4	836.4	846.6
RMC 12.2Kbps	23.67	24.23	23.99	24.4	24.5	24.48
HSDPA Subtest-1	22.4	22.93	22.67	23.03	23.49	23.46
HSDPA Subtest-2	22.4	22.68	22.43	23.2	23.26	23.35
HSDPA Subtest-3	21.44	21.47	21.52	22.17	22.24	22.3
HSDPA Subtest-4	21.48	21.61	21.23	22	22.13	22.2
HSUPA Subtest-1	21.68	22.07	21.71	22.24	22.6	22.59
HSUPA Subtest-2	22.27	22.87	22.47	23.07	23.32	23.39
HSUPA Subtest-3	22.3	22.34	21.88	22.57	22.84	22.76
HSUPA Subtest-4	22.78	22.98	22.61	23.11	23.24	23.59
HSUPA Subtest-5	21.93	22.36	22.06	22.68	22.65	22.84

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	14.99	31.55
	6	2437	14.8	30.20
	11	2462	15.48	35.32
802.11g	1	2412	12.86	19.32
	6	2437	13	19.95
	11	2462	13.37	21.73
802.11 n-HT20	1	2412	12.97	19.82
	6	2437	12.9	19.50
	11	2462	13.3	21.38

ISM

ISM				
Mode	Frequency (MHz)	E-field (dBuV/m)	Output Power (dBm)	Output Power (mW)
FSK	914.5	89.25	-5.95	0.25
	917.5	89.06	-6.14	0.24
	921.0	89.53	-5.67	0.27



LTE Conducted Power

General Note:

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



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.89	24.2	23.79
1.4	1	2		23.88	24.42	23.9
1.4	1	5		23.7	24.32	23.92
1.4	3	0		23.83	24.3	24.02
1.4	3	1		23.79	24.28	23.99
1.4	3	2		23.62	24.23	24.03
1.4	6	0		22.94	23.22	23.07
1.4	1	0	16-QAM	22.74	23.23	22.9
1.4	1	2		22.9	23.32	22.88
1.4	1	5		22.79	23.11	22.81
1.4	3	0		23.08	23.02	23.01
1.4	3	1		23.07	23.05	22.99
1.4	3	2		23.34	22.99	22.87
1.4	6	0		22.41	22.22	22.14
3	1	0	QPSK	24.04	24.11	24.06
3	1	7		23.78	24.21	24.12
3	1	14		23.84	24.21	24.11
3	8	0		22.98	23.21	23.08
3	8	4		22.97	23.27	23.01
3	8	7		22.96	23.17	23.01
3	15	0		23.1	23.23	23.03
3	1	0	16-QAM	23.37	22.98	23.08
3	1	7		23.3	23.03	22.91
3	1	14		23.32	22.88	22.85
3	8	0		21.83	22.08	22.19
3	8	4		21.81	22.13	22.17
3	8	7		21.89	22.02	22.04
3	15	0		22.08	22.34	22.23



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.75	23.88	23.82
5	1	12		24.22	24.05	24.11
5	1	24		23.88	23.87	23.66
5	12	0		23.04	23.18	23
5	12	6		22.96	23.26	23.07
5	12	11		23	23.18	22.98
5	25	0		23.09	23.22	23.09
5	1	0	16-QAM	23.27	22.97	23.06
5	1	12		23.05	23	23.17
5	1	24		22.77	22.47	22.42
5	12	0		21.81	21.93	21.93
5	12	6		21.76	21.91	21.98
5	12	11		21.71	22.01	21.82
5	25	0		21.96	22.22	21.86
10	1	0	QPSK	23.86	24.09	23.63
10	1	24		23.99	24.29	24.02
10	1	49		24.06	24	23.84
10	25	0		22.97	23.26	22.69
10	25	12		22.96	23.22	22.97
10	25	24		22.88	23.06	22.82
10	50	0		22.94	23.18	22.88
10	1	0	16-QAM	23.4	23.03	22.6
10	1	24		23.89	23.06	22.93
10	1	49		23.4	22.2	22.57
10	25	0		21.98	22.24	21.74
10	25	12		21.97	22.19	21.95
10	25	24		21.91	21.94	21.74



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	24.01	24.16	23.56
15	1	37		24.25	24.22	24.07
15	1	74		24.14	23.82	23.8
15	36	0		22.9	23.18	22.7
15	36	18		22.96	23.12	22.78
15	36	39		22.96	22.86	22.93
15	75	0		24.07	24	23.9
15	1	0	16-QAM	23.28	23.06	23.07
15	1	38		23.64	23.02	23.45
15	1	75		23.37	22.05	23.23
15	27	0		21.9	22.28	21.79
15	27	18		21.81	22.12	21.76
15	27	39		21.97	21.95	21.82
20	1	0	QPSK	23.55	24.28	23.53
20	1	49		24.27	24.33	23.92
20	1	99		24.26	24.16	23.8
20	50	0		22.75	23.14	22.56
20	50	24		22.93	22.98	22.76
20	50	49		23.04	22.85	22.87
20	100	0		23.88	23.87	23.89
20	1	0	16-QAM	22.84	23.34	22.21
20	1	49		22.8	23.03	22.46
20	1	99		22.95	22.4	22.48
20	27	0		21.78	22.29	21.51
20	27	24		22.17	22.19	21.78
20	27	49		22.32	21.75	21.89



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.49	24.56	24.28
1.4	1	2		24.47	24.6	24.45
1.4	1	5		24.36	24.75	24.45
1.4	3	0		24.41	24.7	24.47
1.4	3	1		24.37	24.66	24.67
1.4	3	2		24.42	24.63	24.61
1.4	6	0		23.54	23.6	23.58
1.4	1	0	16-QAM	23.45	23.52	23.54
1.4	1	2		23.61	23.72	23.41
1.4	1	5		23.41	23.55	23.13
1.4	3	0		23.68	23.41	23.24
1.4	3	1		23.71	23.32	23.29
1.4	3	2		23.63	23.32	23.32
1.4	6	0		22.56	22.35	22.44
3	1	0	QPSK	24.34	24.32	24.51
3	1	7		24.3	24.53	24.67
3	1	14		24.25	24.44	24.56
3	8	0		23.56	23.63	23.58
3	8	4		23.58	23.58	23.63
3	8	7		23.46	23.66	23.54
3	15	0		23.49	23.6	23.61
3	1	0	16-QAM	23.96	23.47	23.44
3	1	7		24.14	23.69	23.78
3	1	14		23.82	23.59	23.54
3	8	0		22.82	22.62	22.73
3	8	4		22.76	22.56	22.79
3	8	7		22.72	22.45	22.68
3	15	0		22.5	22.54	22.82



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.4	24.2	24.57
5	1	12		24.48	24.31	24.58
5	1	24		24.4	24.23	24.3
5	12	0		23.45	23.6	23.76
5	12	6		23.42	23.53	23.58
5	12	11		23.42	23.58	23.48
5	25	0		23.33	23.61	23.64
5	1	0	16-QAM	23.55	23.46	23.8
5	1	12		23.6	23.67	23.81
5	1	24		23.52	23.5	23.38
5	12	0		22.24	22.27	22.61
5	12	6		22.22	22.3	22.53
5	12	11		22.22	22.25	22.5
5	25	0		22.36	22.68	22.69
10	1	0	QPSK	24.29	24.29	24.65
10	1	24		24.54	24.68	24.98
10	1	49		24.42	24.53	24.43
10	25	0		23.45	23.63	23.68
10	25	12		23.47	23.66	23.83
10	25	24		23.49	23.74	23.52
10	50	0		23.46	23.68	23.56
10	1	0	16-QAM	23.86	23.29	23.57
10	1	24		24.49	23.47	23.72
10	1	49		23.9	23	23.16
10	25	0		22.41	22.55	22.67
10	25	12		22.46	22.81	22.82
10	25	24		22.48	22.81	22.61



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.8	24.44	24.66
1.4	1	2		24.82	24.35	24.79
1.4	1	5		24.84	24.37	24.61
1.4	3	0		24.74	24.41	24.67
1.4	3	1		24.81	24.37	24.76
1.4	3	2		24.85	24.3	24.59
1.4	6	0		23.83	23.39	23.86
1.4	1	0	16-QAM	23.97	23.45	23.54
1.4	1	2		23.96	23.39	23.76
1.4	1	5		23.91	23.3	23.56
1.4	3	0		23.73	23.34	24.04
1.4	3	1		23.79	23.32	24.11
1.4	3	2		24.11	23.34	24.02
1.4	6	0		22.95	22.54	22.57
3	1	0	QPSK	24.68	24.3	24.82
3	1	7		24.79	24.5	25.01
3	1	14		24.72	24.17	24.58
3	8	0		23.58	23.51	23.73
3	8	4		23.59	23.42	23.85
3	8	7		23.46	23.4	23.77
3	15	0		23.51	23.45	23.75
3	1	0	16-QAM	24.14	23.44	23.73
3	1	7		24.65	23.26	24.11
3	1	14		24.61	23.06	23.6
3	8	0		22.4	22.41	22.75
3	8	4		22.54	22.41	22.67
3	8	7		22.47	22.29	22.77
3	15	0		22.55	22.4	22.89



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.37	24.04	24.57
5	1	12		24.9	24.32	24.93
5	1	24		24.56	24.23	24.42
5	12	0		23.43	23.47	23.78
5	12	6		23.44	23.48	23.8
5	12	11		23.52	23.33	23.8
5	25	0		23.4	23.44	23.61
5	1	0	16-QAM	23.82	23.28	23.79
5	1	12		23.68	23.38	24.01
5	1	24		23.5	22.87	23.72
5	12	0		22.22	22.35	22.82
5	12	6		22.44	22.3	22.79
5	12	11		22.52	22.21	22.75
5	25	0		22.54	22.46	22.6
10	1	0	QPSK	24.45	24.24	24.43
10	1	24		24.76	24.46	25.02
10	1	49		24.37	24.58	24.58
10	25	0		23.53	23.56	23.57
10	25	12		23.57	23.39	23.77
10	25	24		23.4	23.4	23.74
10	50	0		23.57	23.51	23.58
10	1	0	16-QAM	24.16	23.21	23.19
10	1	24		24.9	23.23	24.03
10	1	49		23.8	23.13	23.37
10	25	0		22.64	22.57	22.66
10	25	12		22.57	22.4	22.93
10	25	24		22.49	22.4	22.92

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

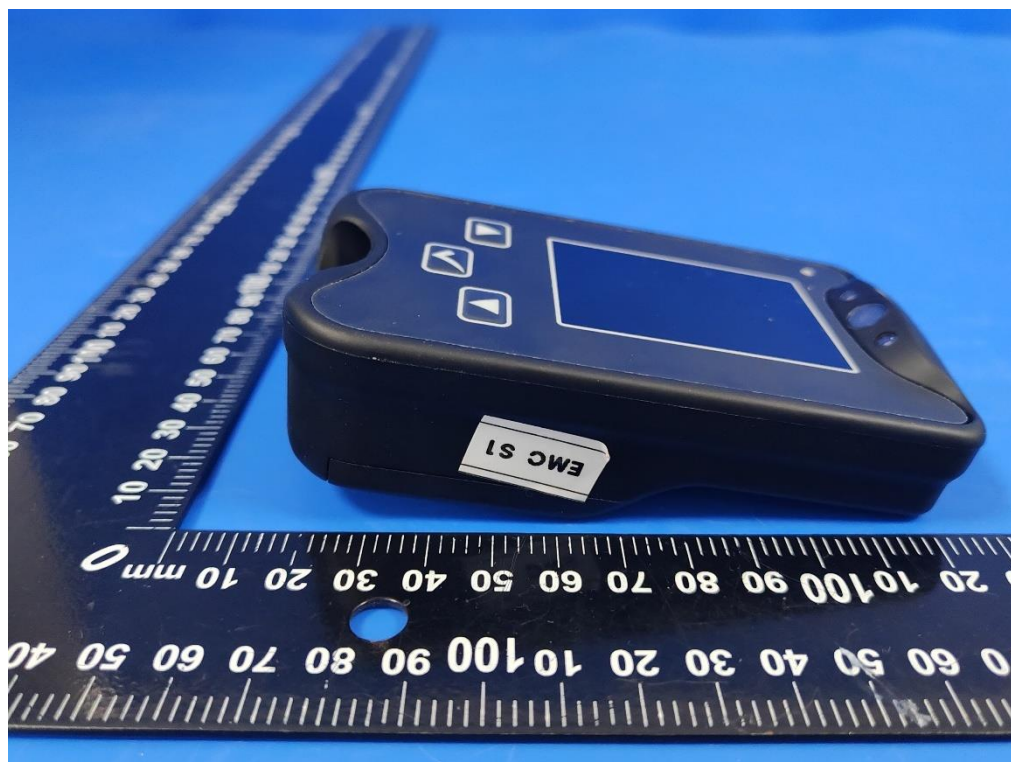


Back side

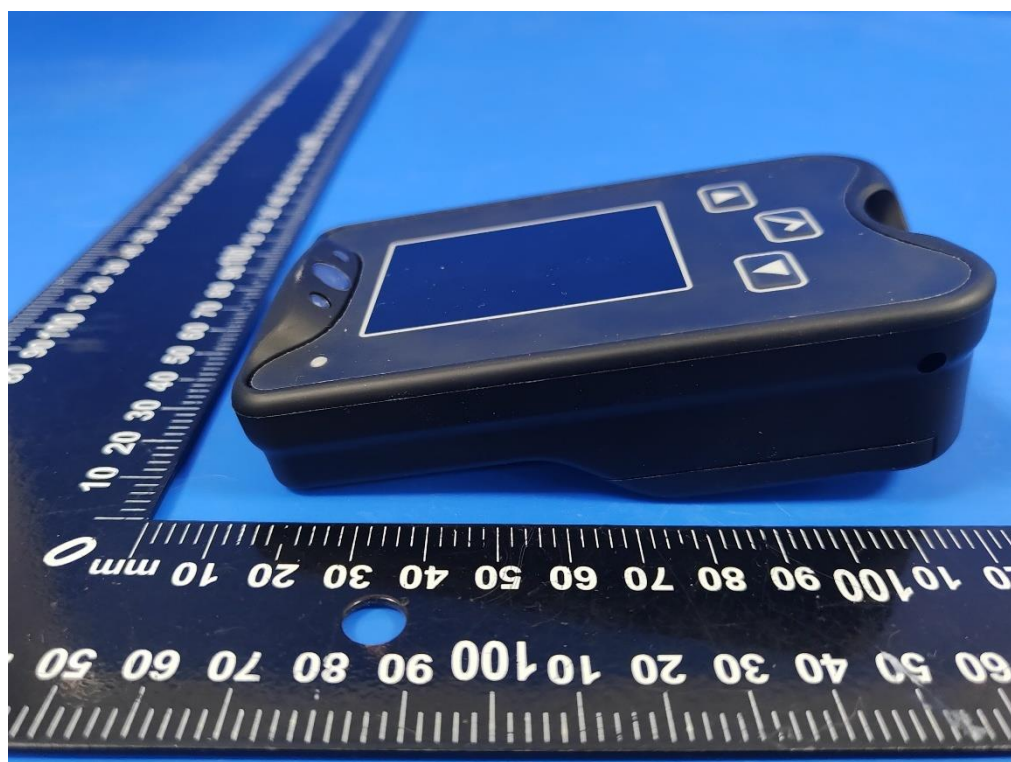




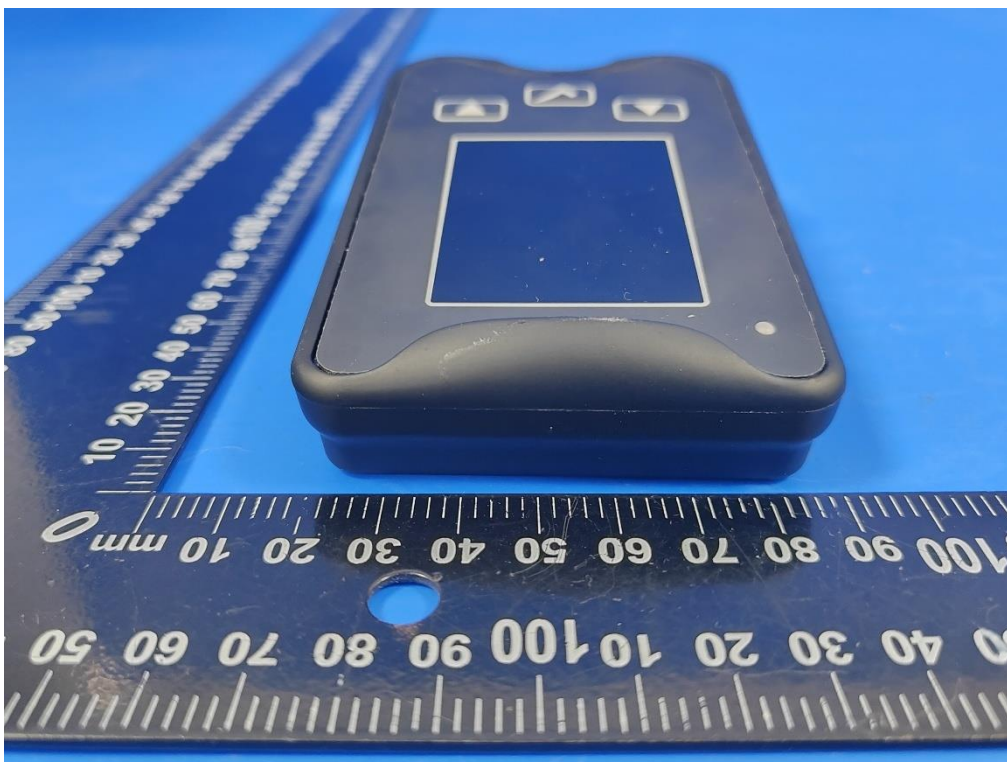
Right Edge



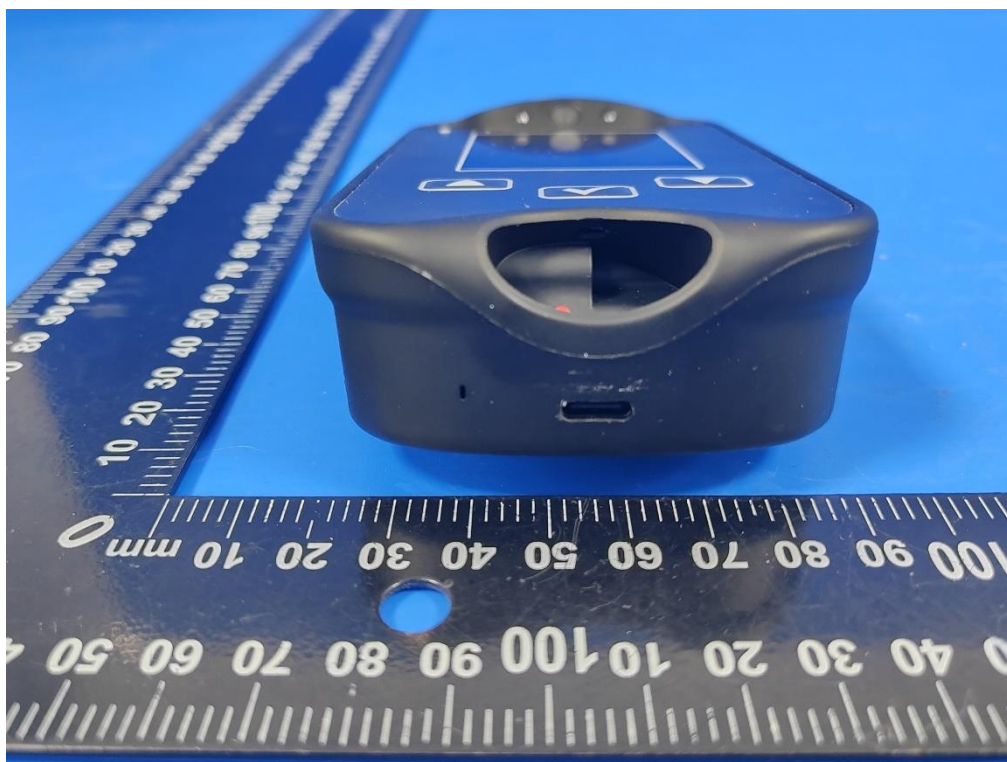
Left Edge



Top Edge



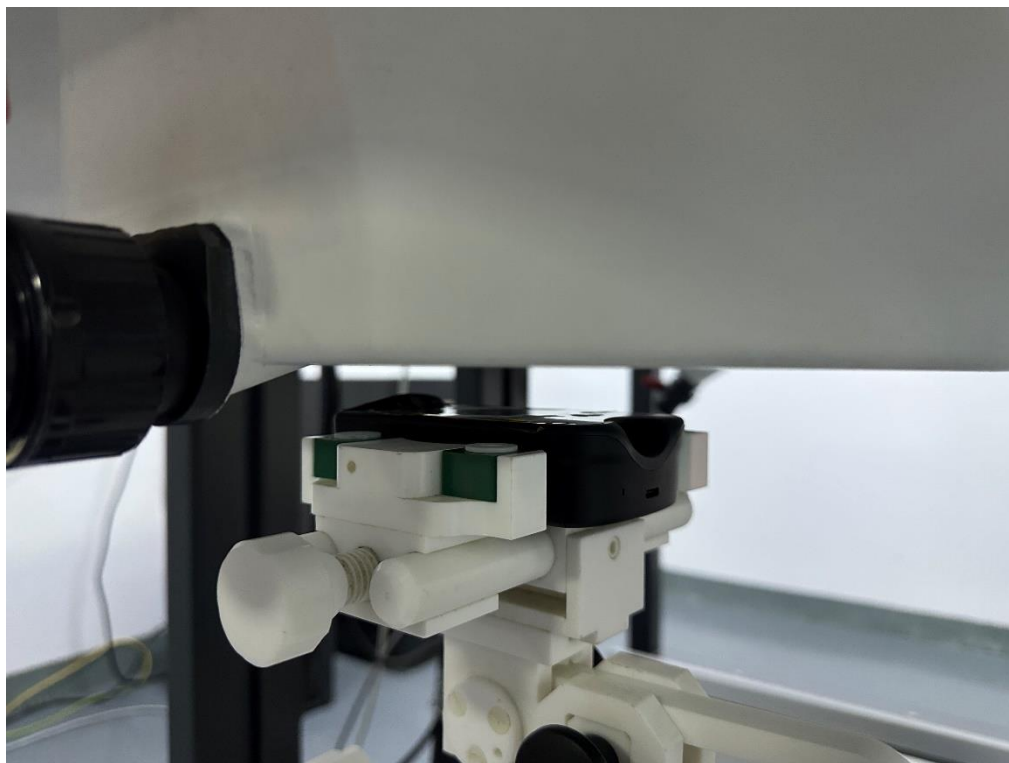
Bottom Edge



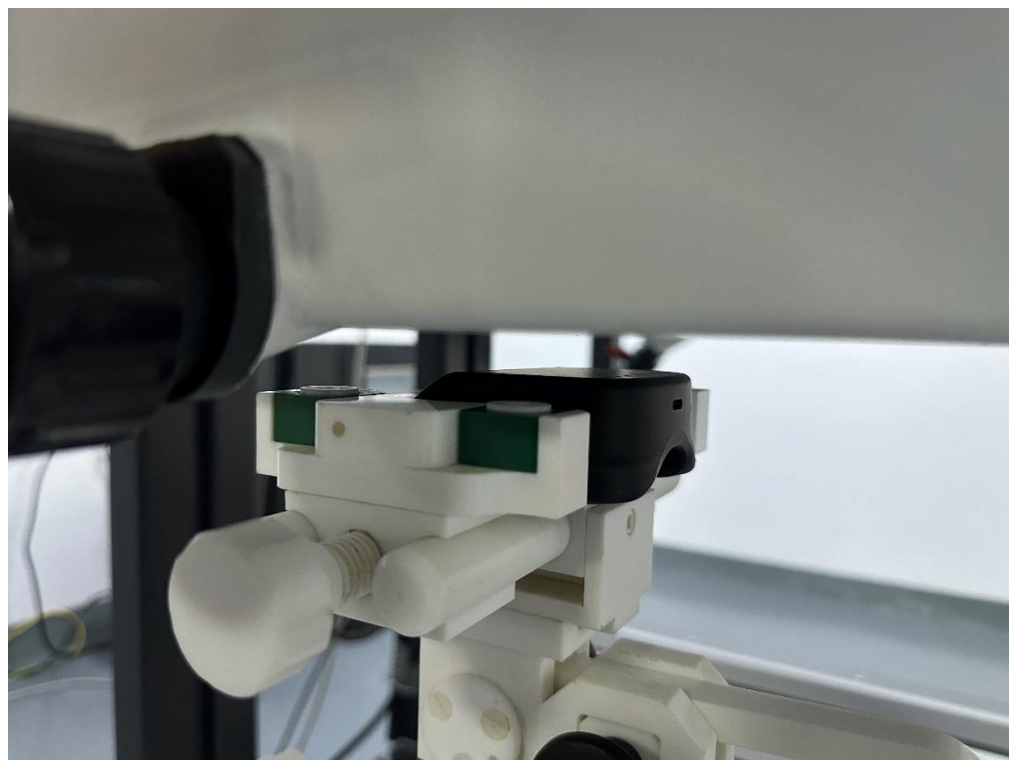


11.2 Setup Photos

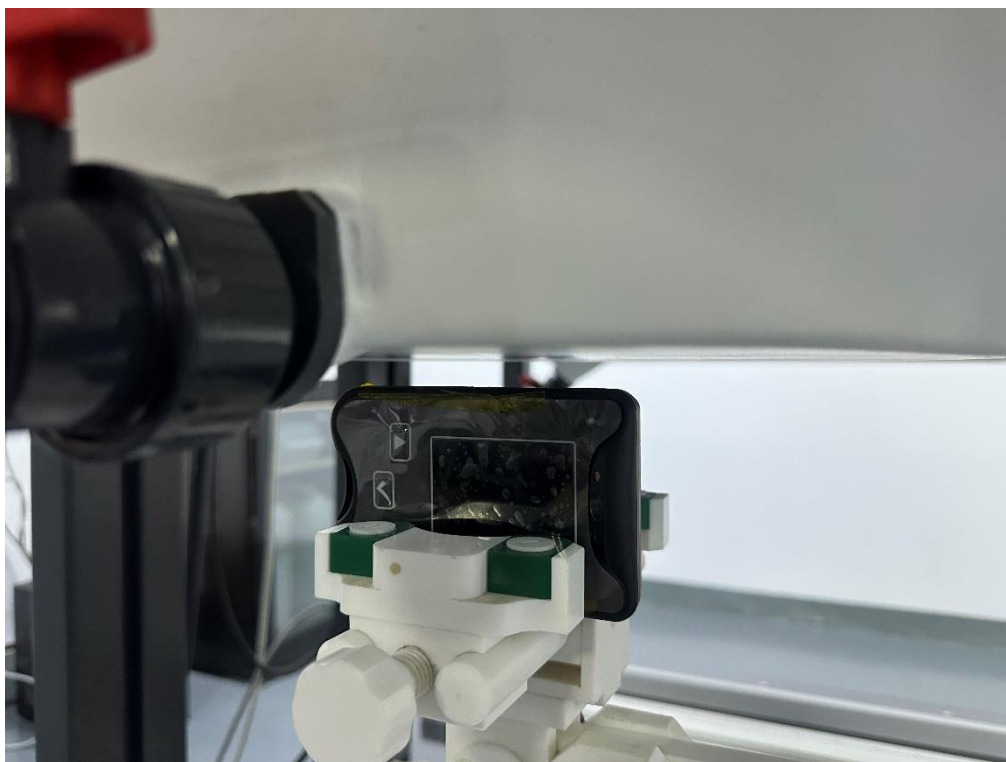
Body Front side (separation distance is 10mm)



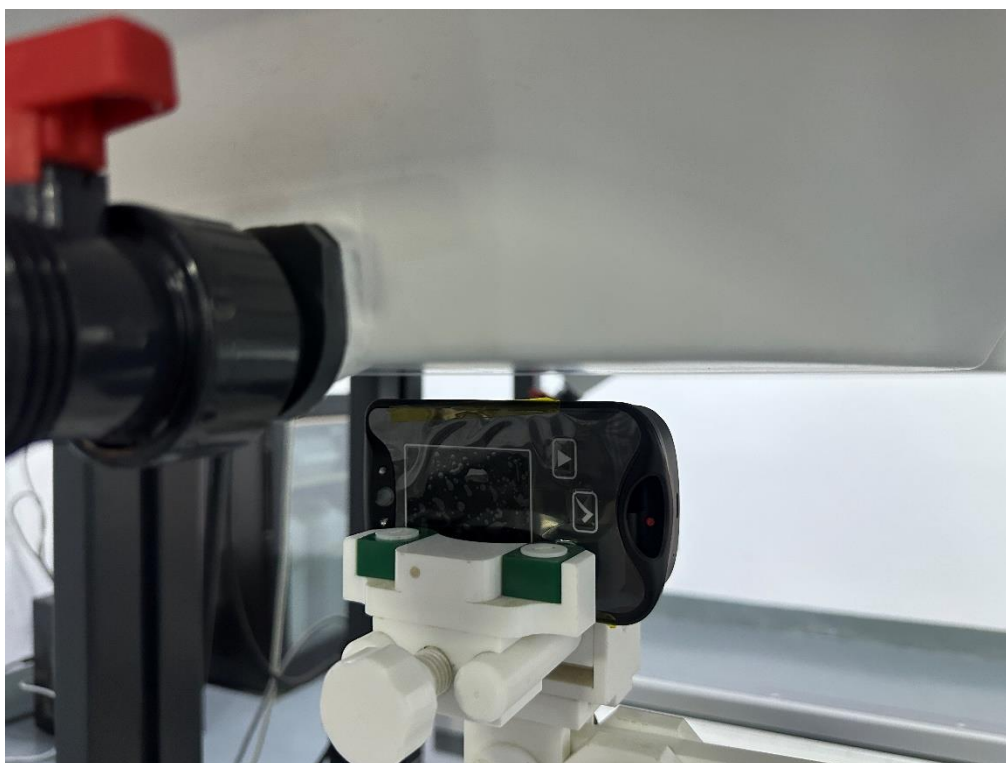
Body Back side (separation distance 10mm)



Body Left side (separation distance is 10mm)



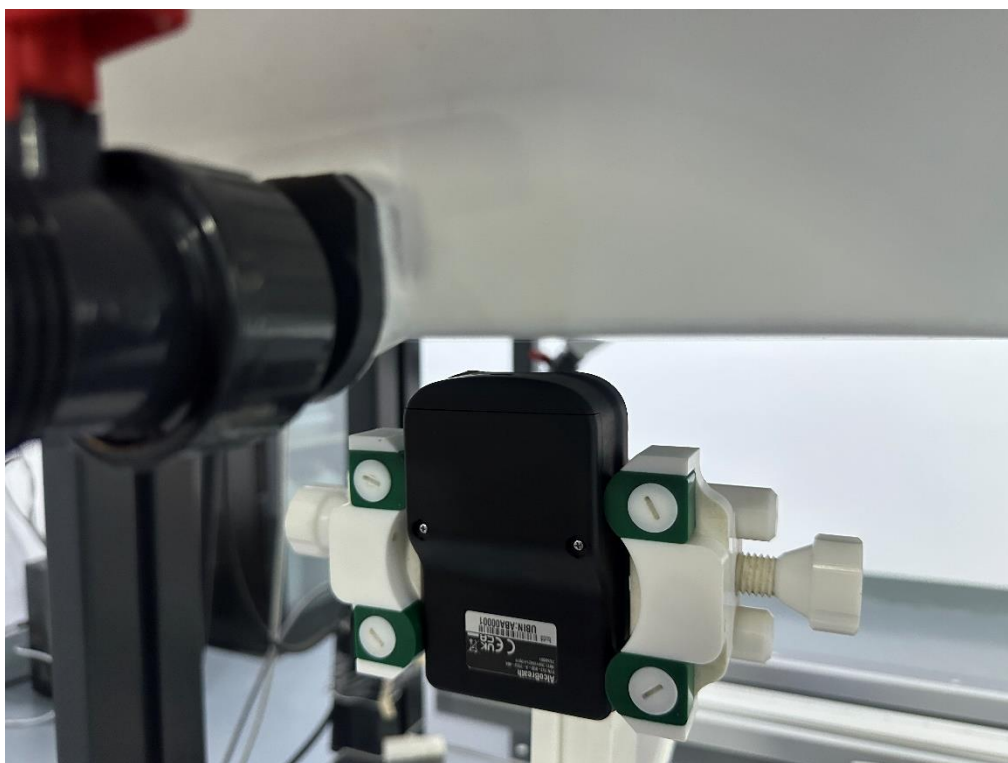
Body Right side (separation distance is 10mm)



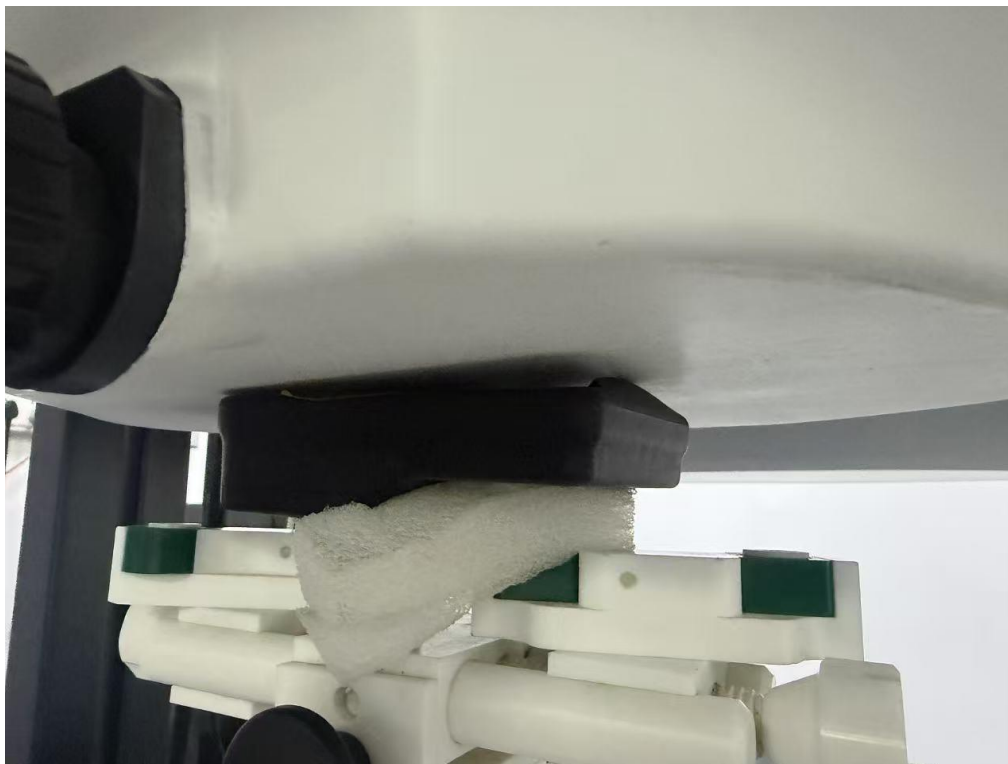
Body Top side (separation distance is 10mm)



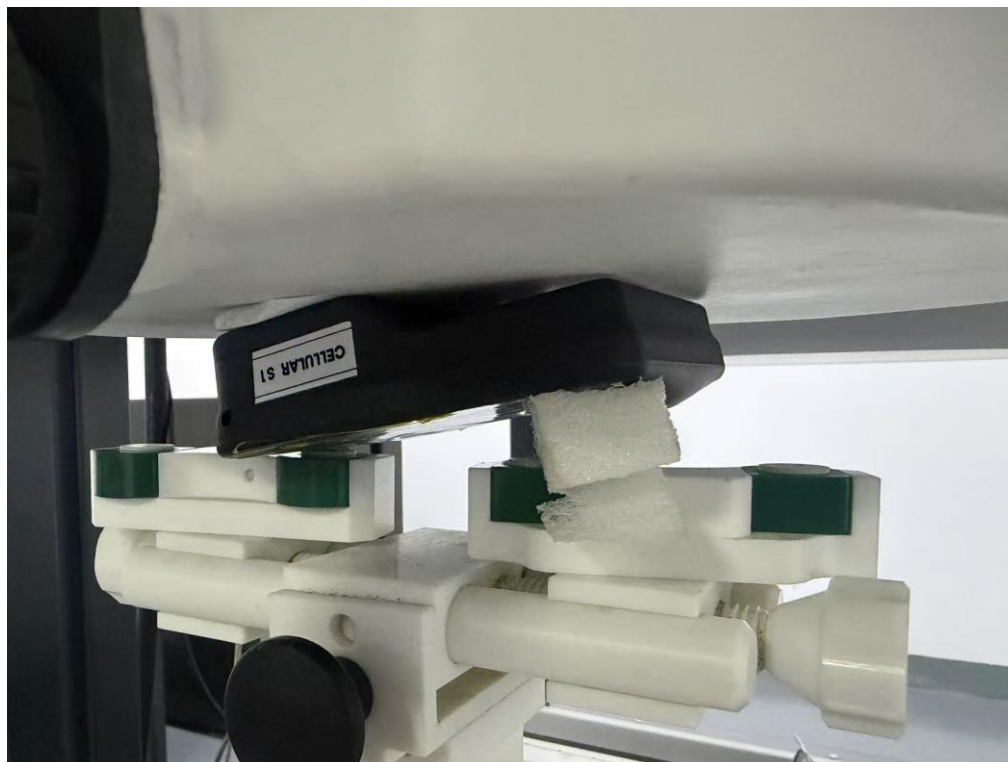
Body Bottom side (separation distance is 10mm)



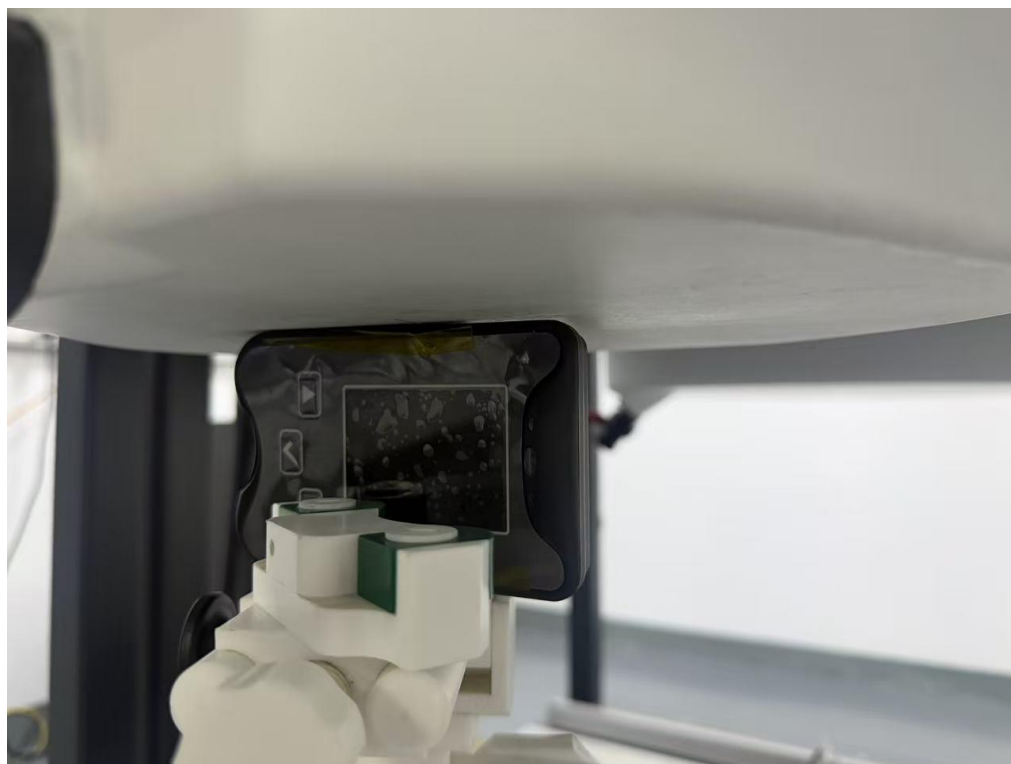
Limbs Front side (separation distance is 0mm)



Limbs Back side (separation distance 0mm)



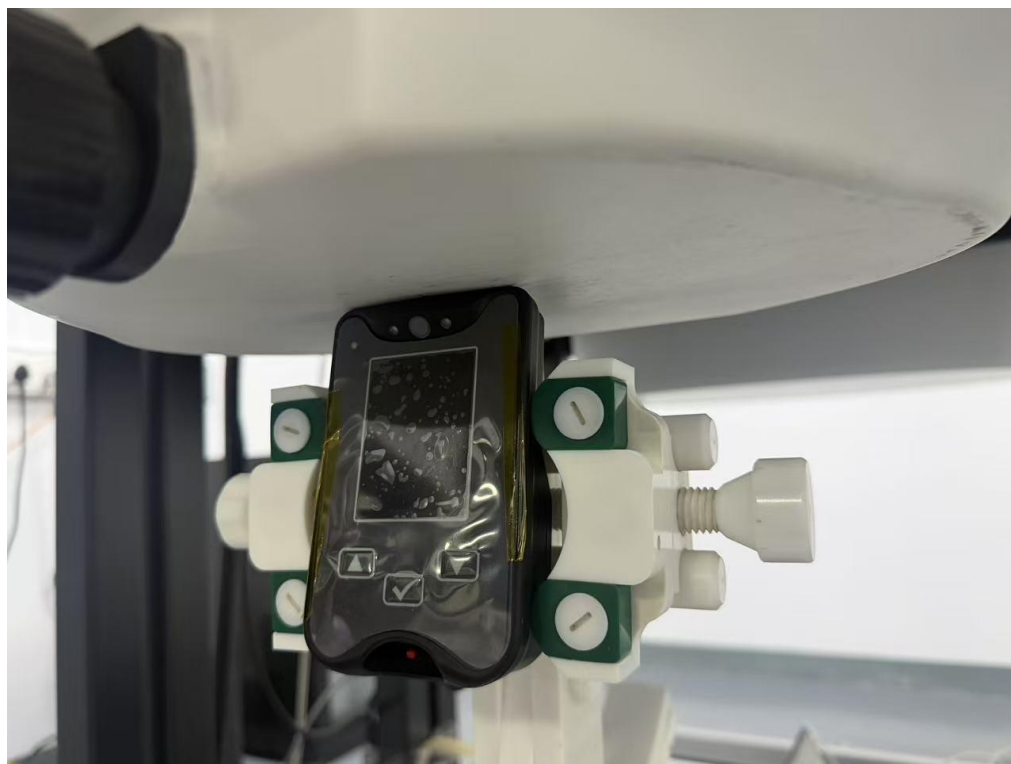
Limbs Left side (separation distance is 0mm)



Limbs Right side (separation distance is 0mm)



Limbs Top side (separation distance is 0mm)

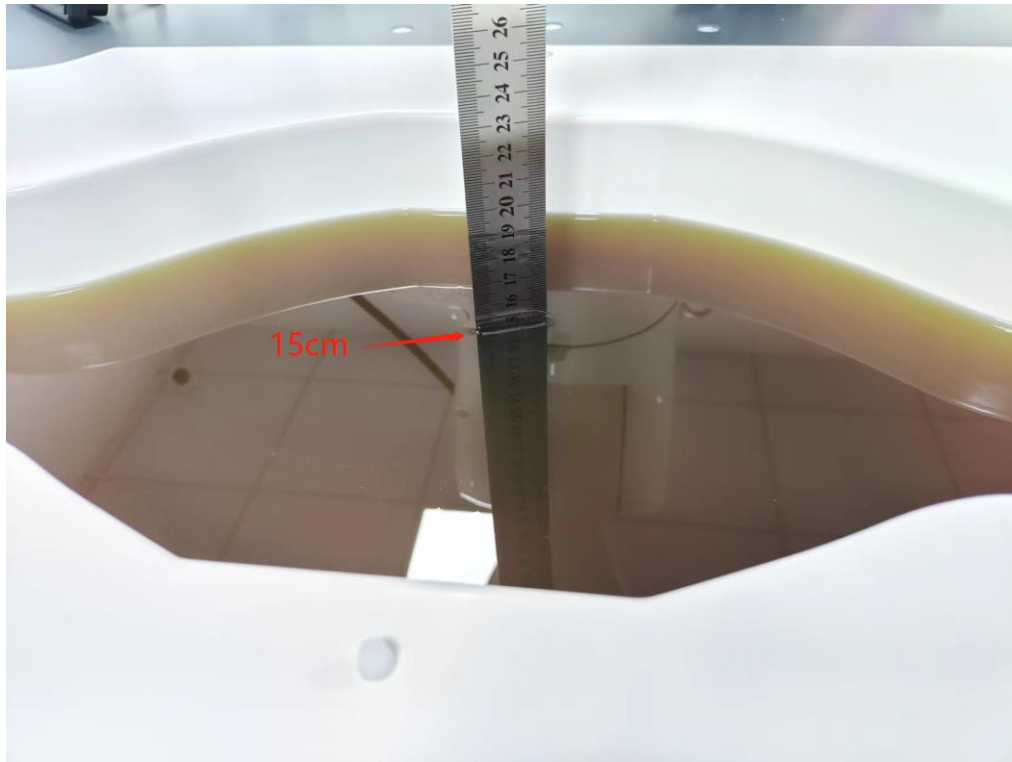


Limbs Bottom side (separation distance is 0mm)





Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

Band	Model	Test Position	Freq.	SAR (1g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Front Side	848.8	0.285	-1.60	32.00	31.65	1.084	0.309	/
		Back Side	848.8	0.495	-0.23	32.00	31.65	1.084	0.537	1
		Left Side	848.8	0.244	3.30	32.00	31.65	1.084	0.264	/
		Right Side	848.8	0.207	-1.92	32.00	31.65	1.084	0.224	/
		Top Side	848.8	0.133	0.22	32.00	31.65	1.084	0.144	/
		Bottom Side	848.8	0.123	3.20	32.00	31.65	1.084	0.133	/
PCS 1900	GPRS Data-4 Slot	Front Side	1909.8	0.332	3.40	29.00	28.60	1.096	0.364	/
		Back Side	1909.8	0.576	-0.53	29.00	28.60	1.096	0.632	2
		Left Side	1909.8	0.286	0.47	29.00	28.60	1.096	0.314	/
		Right Side	1909.8	0.24	1.30	29.00	28.60	1.096	0.263	/
		Top Side	1909.8	0.155	2.01	29.00	28.60	1.096	0.170	/
		Bottom Side	1909.8	0.14	0.17	29.00	28.60	1.096	0.154	/
WCDMA Band II	RMC	Front Side	1880	0.743	-3.73	24.30	24.23	1.016	0.755	/
		Back Side	1852.4	1.070	0.59	24.30	23.67	1.156	1.237	/
		Back Side	1880	1.224	-0.44	24.30	24.23	1.016	1.244	3
		Back Side	1907.6	1.154	-0.70	24.30	23.99	1.074	1.239	/
		Left Side	1880	0.706	-1.70	24.30	24.23	1.016	0.717	/
		Right Side	1880	0.475	2.53	24.30	24.23	1.016	0.483	/
WCDMA Band V	RMC	Front Side	826.4	0.121	0.06	24.60	24.50	1.023	0.124	/
		Back Side	826.4	0.207	-0.54	24.60	24.50	1.023	0.212	4
		Left Side	826.4	0.105	2.85	24.60	24.50	1.023	0.107	/
		Right Side	826.4	0.087	3.06	24.60	24.50	1.023	0.089	/
2.4GHz WLAN	802.11b	Front Side	2462	0.062	-3.98	15.50	15.48	1.005	0.062	/
		Back Side	2462	0.103	3.88	15.50	15.48	1.005	0.103	5
		Left Side	2462	0.055	-0.22	15.50	15.48	1.005	0.055	/

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	1880	0.438	-3.10	24.50	24.42	1.019	0.446	/
			50	0	Front side	1880	0.394	-2.27	24.40	24.30	1.023	0.403	/
			1	0	Back Side	1860	1.074	-1.76	24.50	23.89	1.151	1.236	/
			1	0	Back Side	1880	1.217	1.43	24.50	24.42	1.019	1.240	6
			1	0	Back Side	1900	1.086	0.85	24.50	23.92	1.143	1.241	/
			50	0	Back Side	1860	0.937	-2.73	24.40	23.83	1.140	1.068	/
			50	0	Back Side	1880	1.095	0.14	24.40	24.30	1.023	1.121	/
			50	0	Back Side	1900	0.985	0.34	24.40	24.03	1.089	1.073	/
			100	0	Back Side	1860	0.844	-1.40	23.30	22.94	1.086	0.917	/
			100	0	Back Side	1880	0.985	-2.69	23.30	23.22	1.019	1.003	/



			100	0	Back Side	1900	0.888	-0.30	23.30	23.07	1.054	0.936	/
			1	0	Left Side	1880	0.217	-3.75	24.50	24.42	1.019	0.221	/
			50	0	Left Side	1880	0.195	2.59	24.40	24.30	1.023	0.200	/
			1	0	Right Side	1880	0.489	-3.48	24.50	24.42	1.019	0.498	/
			50	0	Right Side	1880	0.444	-1.63	24.40	24.30	1.023	0.454	/
LTE Band 5	10M	QPSK	1	0	Front side	829	0.101	-2.33	25.00	24.98	1.005	0.101	/
			25	0	Front side	844	0.092	3.02	24.00	23.83	1.040	0.096	/
			1	0	Back Side	829	0.243	0.11	25.00	24.98	1.005	0.244	7
			25	0	Back Side	844	0.219	-3.01	24.00	23.83	1.040	0.228	/
			1	0	Left Side	829	0.049	-3.50	25.00	24.98	1.005	0.049	/
			25	0	Left Side	844	0.045	0.23	24.00	23.83	1.040	0.047	/
			1	0	Right Side	829	0.111	0.01	25.00	24.98	1.005	0.112	/
			25	0	Right Side	844	0.101	-3.53	24.00	23.83	1.040	0.105	/
LTE Band 12	10M	QPSK	1	0	Front side	711	0.046	-2.85	25.10	25.02	1.019	0.047	/
			25	0	Front side	711	0.043	-3.78	24.00	23.77	1.054	0.045	/
			1	0	Back Side	711	0.111	2.58	25.10	25.02	1.019	0.113	8
			25	0	Back Side	711	0.100	-0.37	24.00	23.77	1.054	0.105	/
			1	0	Left Side	711	0.022	-3.19	25.10	25.02	1.019	0.022	/
			25	0	Left Side	711	0.022	-0.56	24.00	23.77	1.054	0.023	/
			1	0	Right Side	711	0.053	2.23	25.10	25.02	1.019	0.054	/
			25	0	Right Side	711	0.046	-0.74	24.00	23.77	1.054	0.049	/

Note:

- The test separation of all above table is 10mm.
- 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.



12.2 Limbs SAR

Band	Model	Test Position	Freq.	SAR (10g) (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
GSM850	GPRS Data-4 Slot	Front Side	848.8	0.064	-0.52	32.00	31.65	1.084	0.069	/
		Back Side	848.8	0.149	2.61	32.00	31.65	1.084	0.162	9
		Left Side	848.8	0.145	1.32	32.00	31.65	1.084	0.157	/
		Right Side	848.8	0.092	0.66	32.00	31.65	1.084	0.100	/
		Top Side	848.8	0.084	2.53	32.00	31.65	1.084	0.091	/
		Bottom Side	848.8	0.012	-3.38	32.00	31.65	1.084	0.013	/
PCS 1900	GPRS Data-4 Slot	Front Side	1909.8	0.193	0.33	29.00	28.60	1.096	0.212	/
		Back Side	1909.8	0.478	-0.52	29.00	28.60	1.096	0.524	10
		Left Side	1909.8	0.457	-0.87	29.00	28.60	1.096	0.501	/
		Right Side	1909.8	0.291	0.17	29.00	28.60	1.096	0.319	/
		Top Side	1909.8	0.264	1.45	29.00	28.60	1.096	0.289	/
		Bottom Side	1909.8	0.037	2.63	29.00	28.60	1.096	0.041	/
WCDMA Band II	RMC	Front Side	1880	0.38	0.43	24.30	24.23	1.016	0.386	/
		Back Side	1852.4	0.821	3.15	24.30	23.67	1.156	0.949	/
		Back Side	1880	0.944	3.95	24.30	24.23	1.016	0.959	11
		Back Side	1907.6	0.888	3.32	24.30	23.99	1.074	0.954	/
		Left Side	1880	0.76	-3.67	24.30	24.23	1.016	0.772	/
		Right Side	1880	0.57	1.06	24.30	24.23	1.016	0.579	/
WCDMA Band V	RMC	Front Side	826.4	0.082	-3.22	24.60	24.50	1.023	0.084	/
		Back Side	826.4	0.202	-1.76	24.60	24.50	1.023	0.207	12
		Left Side	826.4	0.193	3.19	24.60	24.50	1.023	0.197	/
		Right Side	826.4	0.122	1.61	24.60	24.50	1.023	0.125	/
2.4GHz WLAN	802.11b	Front Side	2462	0.02	1.85	15.50	15.48	1.005	0.020	/
		Back Side	2462	0.044	-1.49	15.50	15.48	1.005	0.044	13
		Left Side	2462	0.043	2.34	15.50	15.48	1.005	0.043	/



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)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	0	Front side	1880	0.295	3.41	24.50	24.42	1.019	0.300	/
			50	0	Front side	1880	0.267	0.47	24.40	24.30	1.023	0.273	/
			1	0	Back Side	1860	1.601	-3.11	24.50	23.89	1.151	1.842	/
			1	0	Back Side	1880	1.818	-2.19	24.50	24.42	1.019	1.852	14
			1	0	Back Side	1900	1.617	3.18	24.50	23.92	1.143	1.848	/
			50	0	Back Side	1880	1.640	-1.60	24.40	24.30	1.023	1.678	/
			1	0	Left Side	1880	0.366	3.64	24.50	24.42	1.019	0.373	/
			50	0	Left Side	1880	0.328	-0.22	24.40	24.30	1.023	0.336	/
			1	0	Right Side	1880	0.821	2.35	24.50	24.42	1.019	0.836	/
			50	0	Right Side	1880	0.737	1.97	24.40	24.30	1.023	0.754	/
LTE Band 5	10M	QPSK	1	0	Front side	829	0.042	2.70	25.00	24.98	1.005	0.042	/
			25	0	Front side	844	0.038	1.74	24.00	23.83	1.040	0.040	/
			1	0	Back Side	829	0.187	-0.38	25.00	24.98	1.005	0.188	15
			25	0	Back Side	844	0.173	2.52	24.00	23.83	1.040	0.180	/
			1	0	Left Side	829	0.132	1.20	25.00	24.98	1.005	0.133	/
			25	0	Left Side	844	0.118	-2.12	24.00	23.83	1.040	0.123	/
			1	0	Right Side	829	0.079	-3.20	25.00	24.98	1.005	0.079	/
			25	0	Right Side	844	0.070	3.76	24.00	23.83	1.040	0.073	/
LTE Band 12	10M	QPSK	1	0	Front side	711	0.062	-0.59	25.10	25.02	1.019	0.063	/
			25	0	Front side	711	0.057	1.65	24.00	23.77	1.054	0.060	/
			1	0	Back Side	711	0.155	-0.79	25.10	25.02	1.019	0.158	16
			25	0	Back Side	711	0.139	3.24	24.00	23.77	1.054	0.147	/
			1	0	Left Side	711	0.035	-3.78	25.10	25.02	1.019	0.036	/
			25	0	Left Side	711	0.031	-3.48	24.00	23.77	1.054	0.033	/
			1	0	Right Side	711	0.070	1.09	25.10	25.02	1.019	0.071	/
			25	0	Right Side	711	0.064	3.06	24.00	23.77	1.054	0.067	/

Note:

4. The test separation of all above table is 0mm.
5. 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
6. When the user enables the personal Wireless router functions for the handsets, actual operations include simultaneous transmission of both the Wi-Fi transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



12.3 Repeated SAR

Band	Mode	Test Position	Ch.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
WCDMA Band II	RMC	Back Side	1852.4	1.070	-1.90	24.30	23.67	1.156	1.237
		Back Side	1880	1.224	-1.14	24.30	24.23	1.016	1.244
		Back Side	1907.6	1.154	-0.54	24.30	23.99	1.074	1.239

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)
LTE Band 2	20M	QPSK	1	0	Back Side	1860	1.074	-0.50	24.50	23.89	1.151	1.236
			1	0	Back Side	1880	1.224	-0.78	24.50	24.42	1.019	1.247
			1	0	Back Side	1900	1.086	-1.67	24.50	23.92	1.143	1.241
			50	0	Back Side	1860	0.944	-0.96	24.40	23.83	1.140	1.076
			50	0	Back Side	1880	1.103	-0.41	24.40	24.30	1.023	1.129
			50	0	Back Side	1900	0.991	3.10	24.40	24.03	1.089	1.079
			100	0	Back Side	1860	0.853	3.21	23.30	22.94	1.086	0.927
			100	0	Back Side	1880	0.994	-3.45	23.30	23.22	1.019	1.012
			100	0	Back Side	1900	0.895	2.11	23.30	23.07	1.054	0.944



12.4 Repeated SAR measurement

Band	Mode	Test Position	Ch.	Original Measured SAR 1g(W/kg)	1 st Repeated SAR 1g	Ratio
WCDMA Band II	RMC	Back Side	1852	1.070	1.037	1.032
		Back Side	1880	1.224	1.211	1.010
		Back Side	1908	1.154	1.144	1.009

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Original Measured SAR 1g(W/kg) 1g (W/Kg)	1 st Repeated SAR 1g	Ratio
LTE Band 2	20M	QPSK	1	0	Back Side	1860	1.074	1.044	1.029
			1	0	Back Side	1880	1.224	1.217	1.006
			1	0	Back Side	1900	1.086	1.070	1.015
			50	0	Back Side	1860	0.944	0.920	1.026
			50	0	Back Side	1880	1.103	1.061	1.040
			50	0	Back Side	1900	0.992	0.944	1.051
			100	0	Back Side	1860	0.848	0.815	1.041
			100	0	Back Side	1880	0.995	0.947	1.050
			100	0	Back Side	1900	0.895	0.866	1.034

Note:

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



12.5 Simultaneous Multi-band Transmission Evaluation

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. GSM + 2.4GHz WLAN+ISM
	2. WCDMA + 2.4GHz WLAN+ISM
	3. LTE + 2.4GHz WLAN+ISM

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			
ISM	Body	-5.5	0.282	5	914.5	0.227

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency (GHz)	Stand Alone SAR (10g) [W/kg]
		dBm	mW			
ISM	Limbs	-5.5	0.282	5	914.5	0.091



Body

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN+ISM	Body	GSM	0.623	0.953
		ISM	0.227	
		2.4G WLAN	0.103	
WCDMA + 2.4G WLAN+ISM	Body	WCDMA	1.244	1.574
		ISM	0.227	
		2.4G WLAN	0.103	
LTE + 2.4G WLAN+ISM	Body	LTE	1.247	1.577
		ISM	0.227	
		2.4G WLAN	0.103	

Limbs

Simultaneous Mode	Position	Mode	Max. 10-g SAR	10-g Sum SAR
			(W/kg)	(W/kg)
GSM + 2.4G WLAN+ISM	Body	GSM	0.524	0.659
		ISM	0.091	
		2.4G WLAN	0.044	
WCDMA + 2.4G WLAN+ISM	Body	WCDMA	0.959	1.094
		ISM	0.091	
		2.4G WLAN	0.044	
LTE + 2.4G WLAN+ISM	Body	LTE	1.852	1.987
		ISM	0.091	
		2.4G WLAN	0.044	

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

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



13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.05.20	2028.05.19
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
2450MHz Dipole	MVG	DIP2G450	SN 06/22 DIP2G450-645	2025.05.20	2028.05.19
6500-7000 MHz DIPOLE	MVG	SID7000	2225- DIP7G000-809	2025.05.28	2028.05.27
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

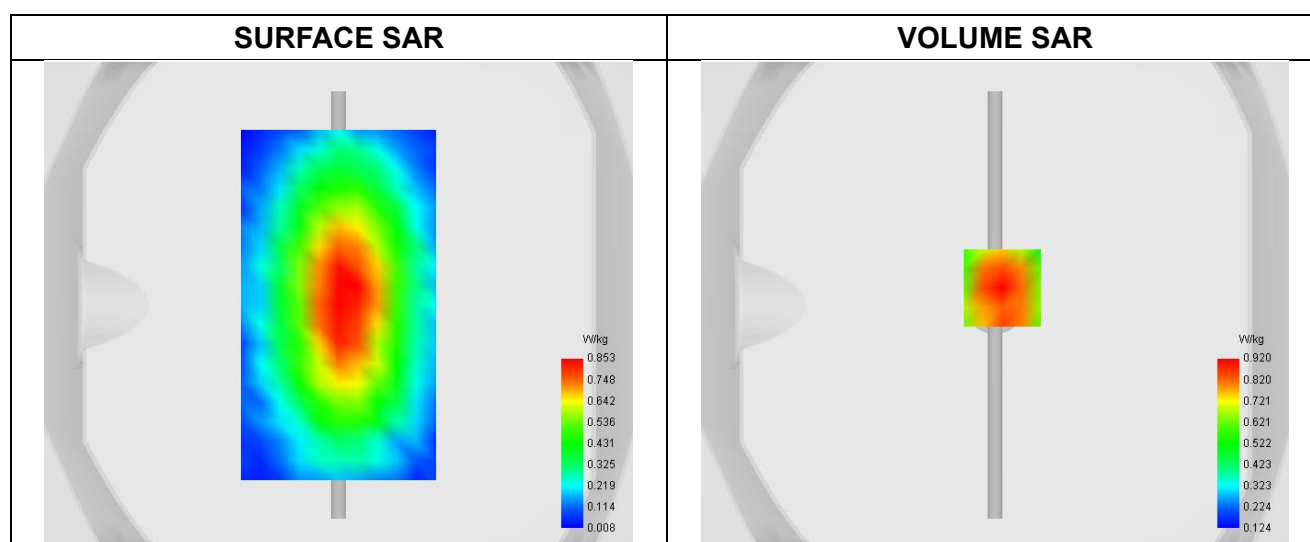
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-10-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.00
Conductivity (S/m)	0.85
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

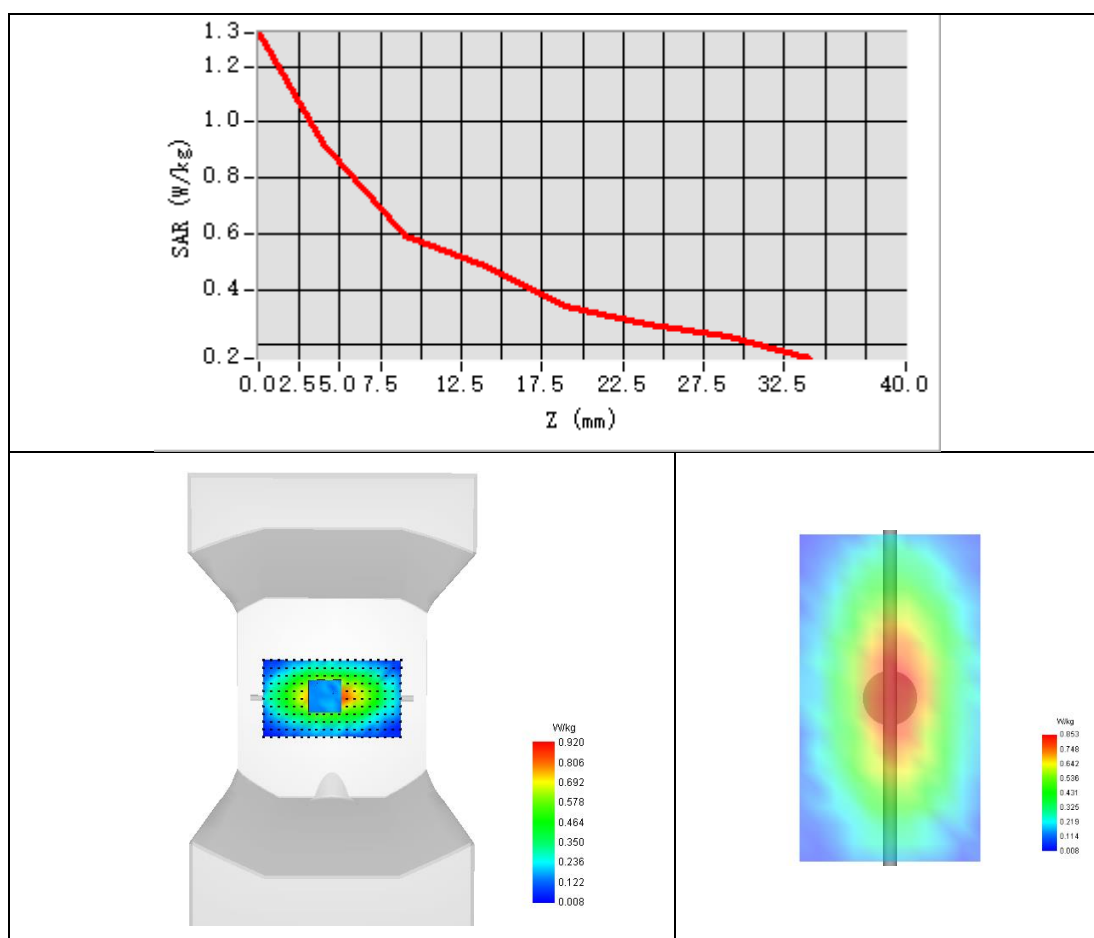


Maximum location: X=3.00, Y=7.00 ; SAR Peak: 1.41 W/kg

SAR 10g (W/Kg)	0.533
SAR 1g (W/Kg)	0.854



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

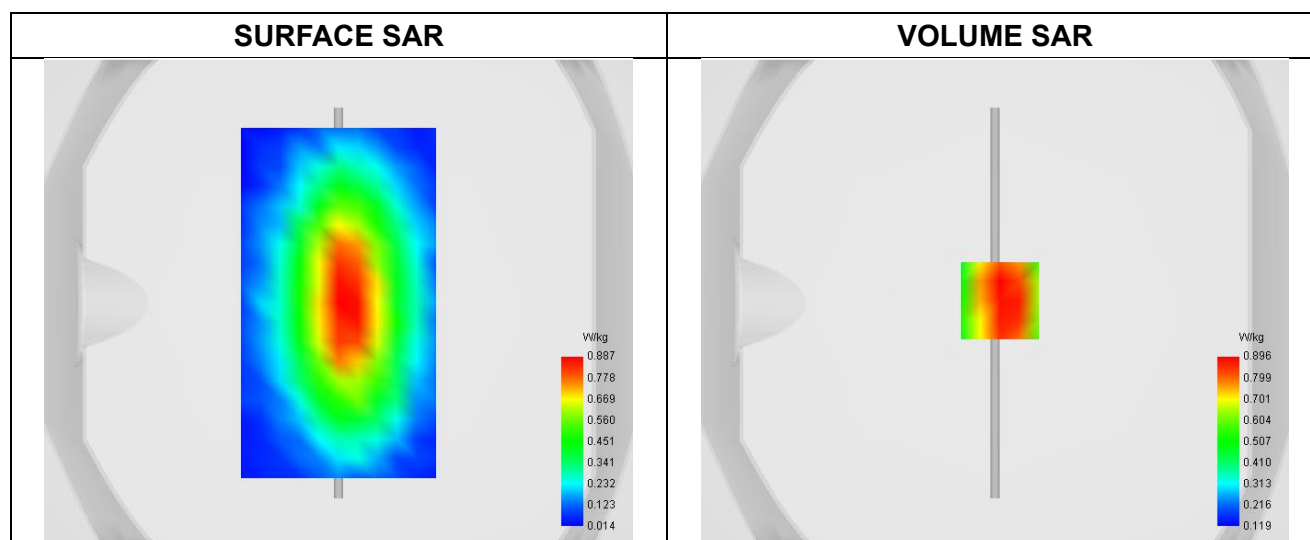
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2025-10-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.68
Conductivity (S/m)	0.86
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

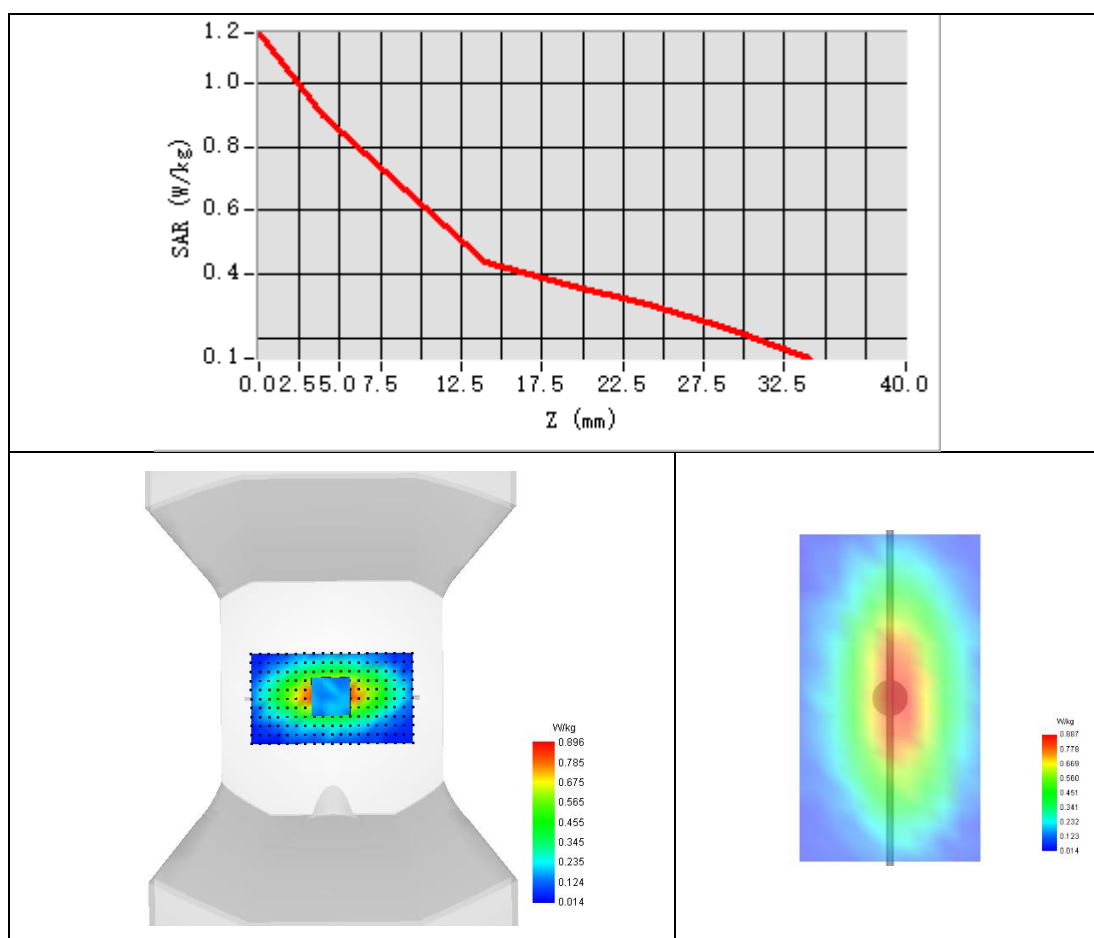


Maximum location: X=2.00, Y=1.00 ; SAR Peak: 1.23 W/kg

SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	0.943



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

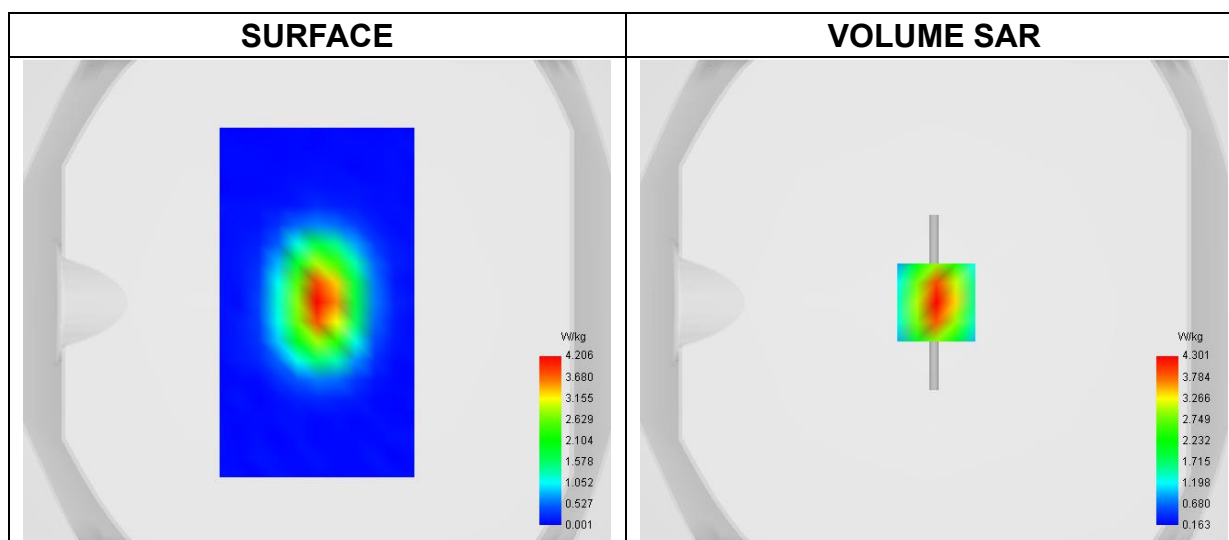
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-10-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	41.07
Conductivity (S/m)	1.41
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

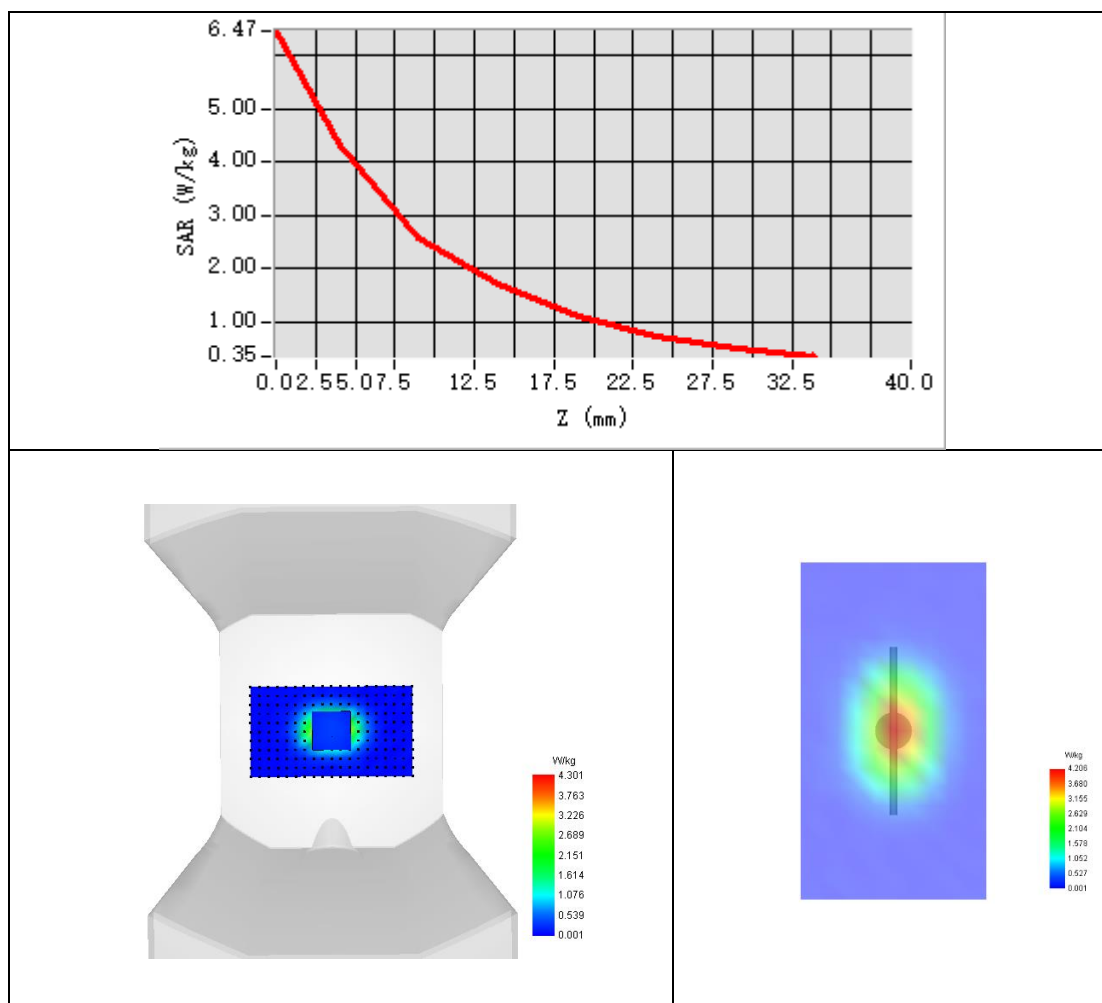


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.44 W/kg

SAR 10g (W/Kg)	1.941
SAR 1g (W/Kg)	3.654



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

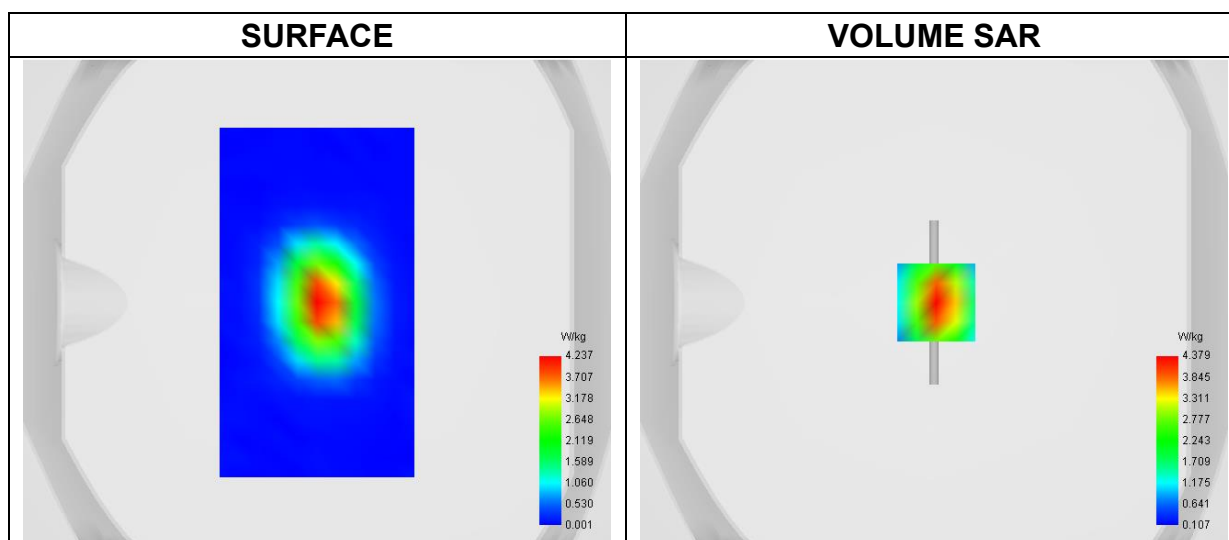
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-10-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.46
Conductivity (S/m)	1.41
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

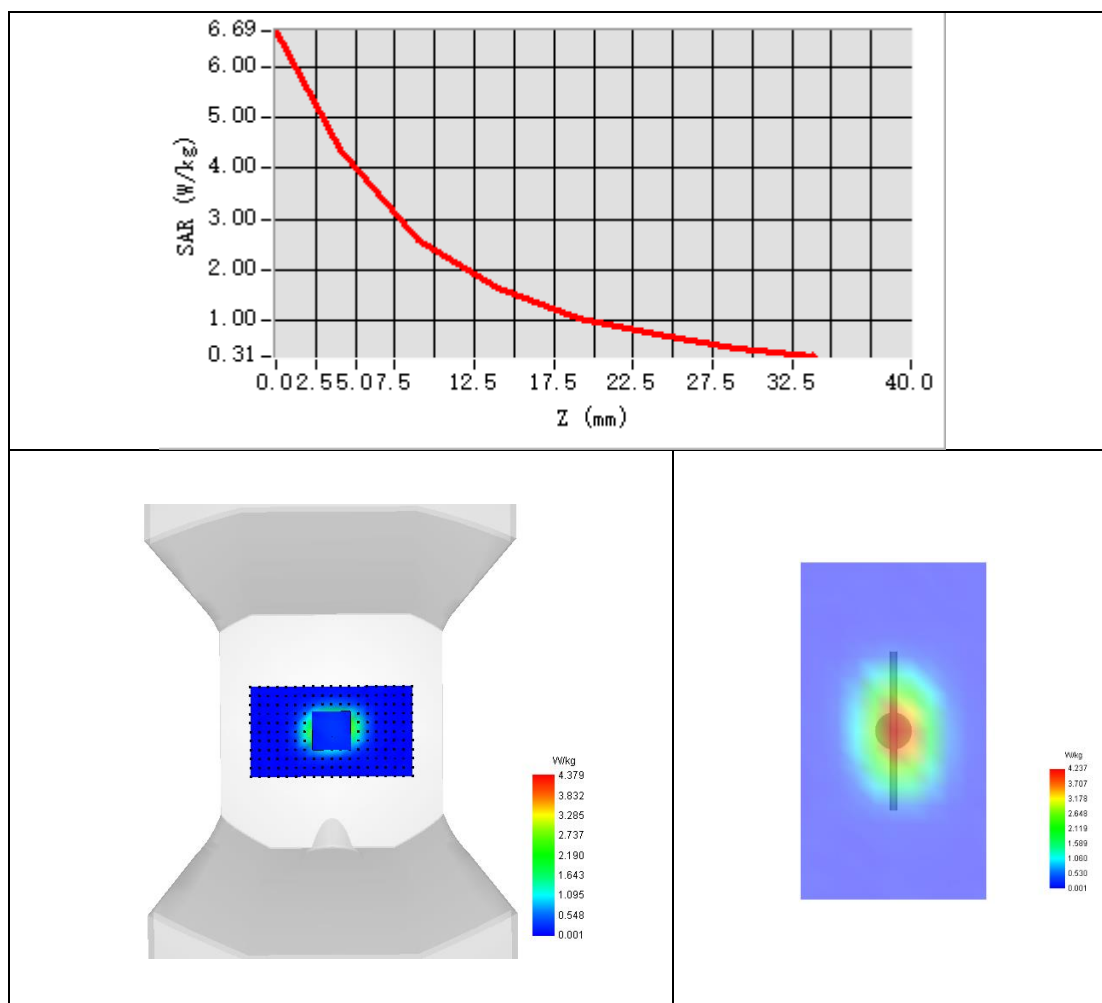


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 6.64 W/kg

SAR 10g (W/Kg)	2.054
SAR 1g (W/Kg)	4.003



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

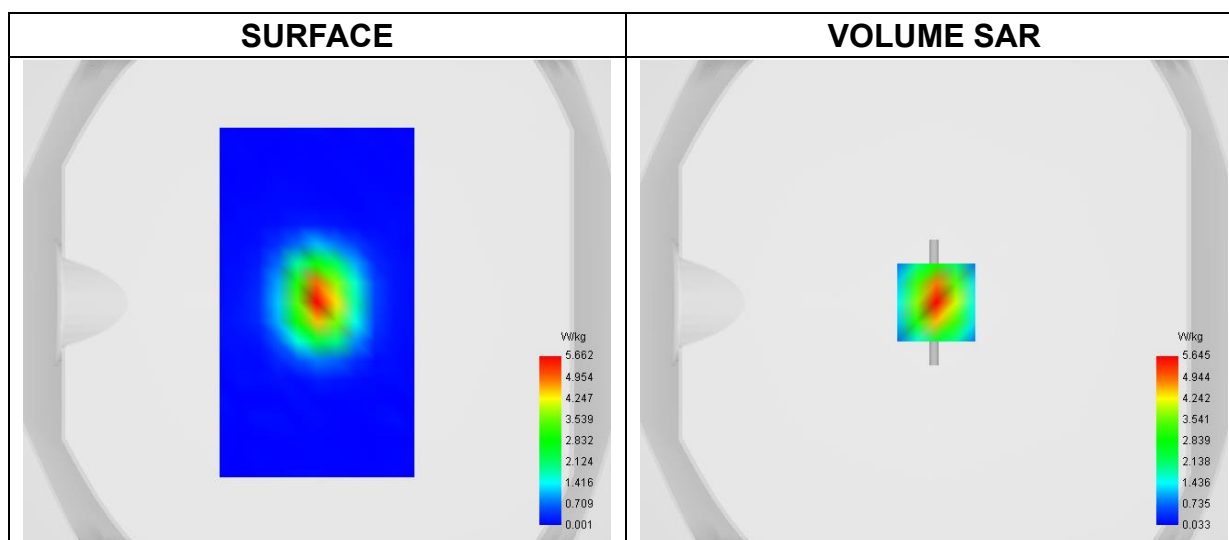
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement:2025-10-01

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	40.22
Conductivity (S/m)	1.81
Probe	2225-EPGO-450
ConvF	1.51
Crest factor:	1:1

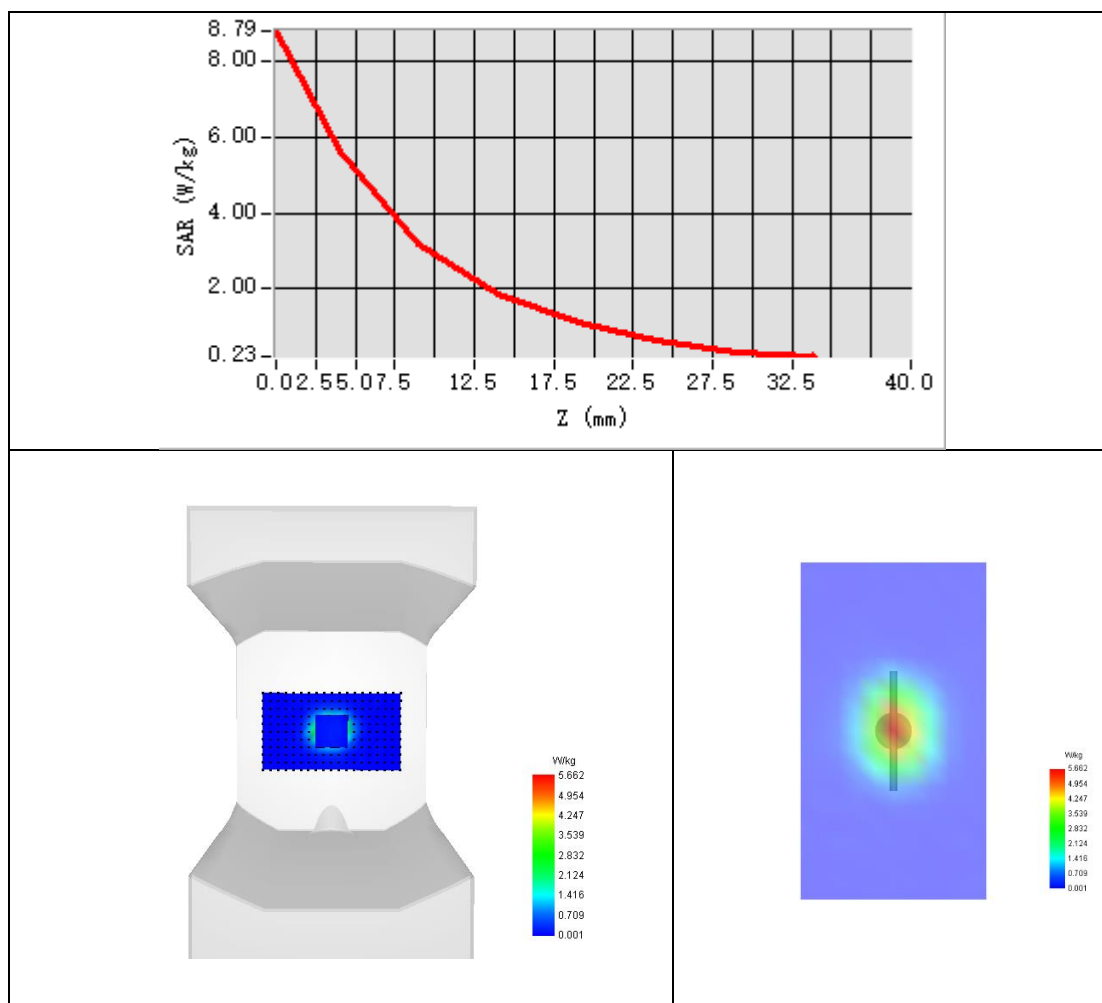


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.71 W/kg

SAR 10g (W/Kg)	2.511
SAR 1g (W/Kg)	5.314



Z Axis Scan



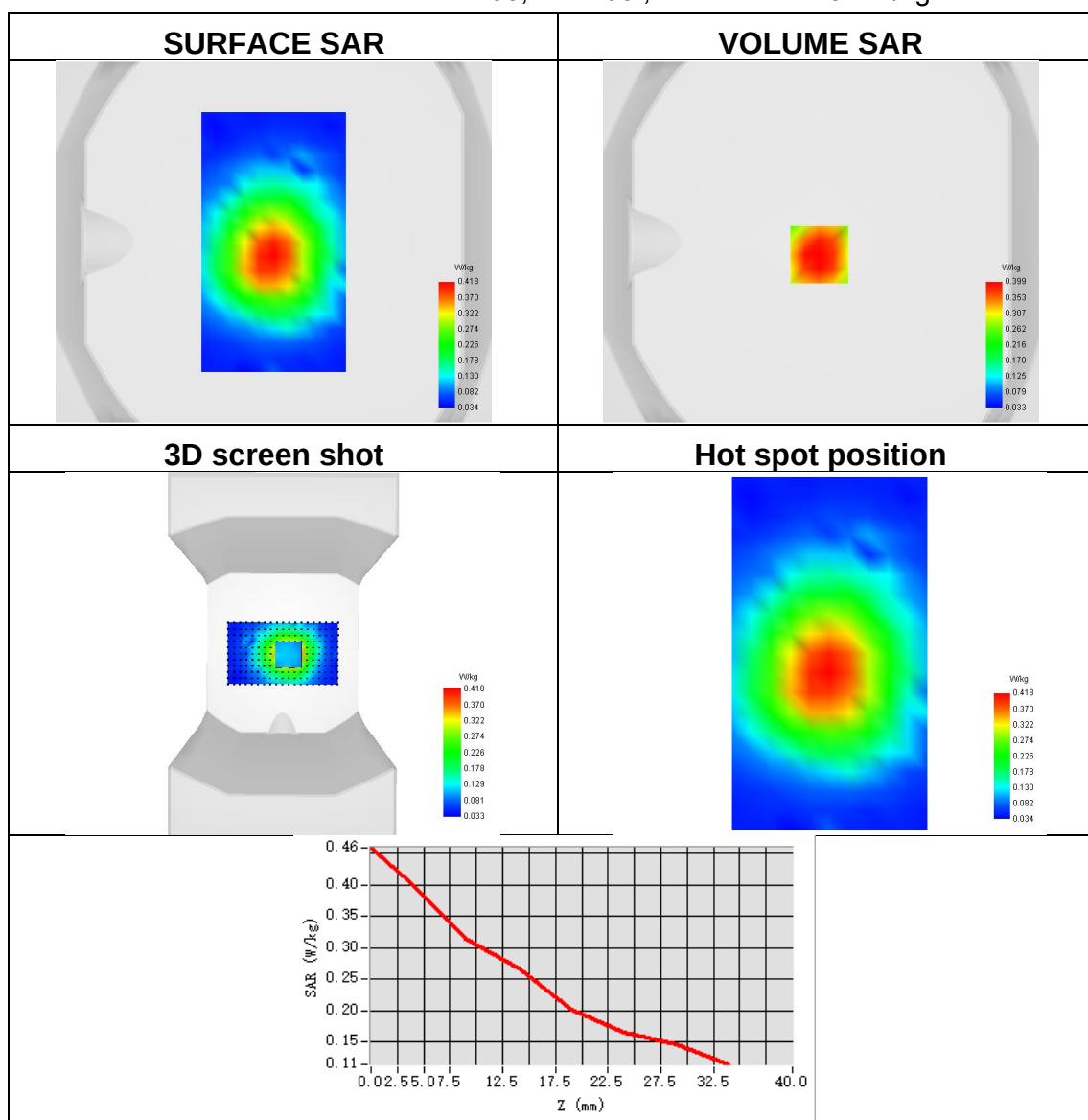


Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.294
SAR 1g (W/Kg)	0.495
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=-1.00, Y=-7.00 ; SAR Peak: 1.04 W/kg

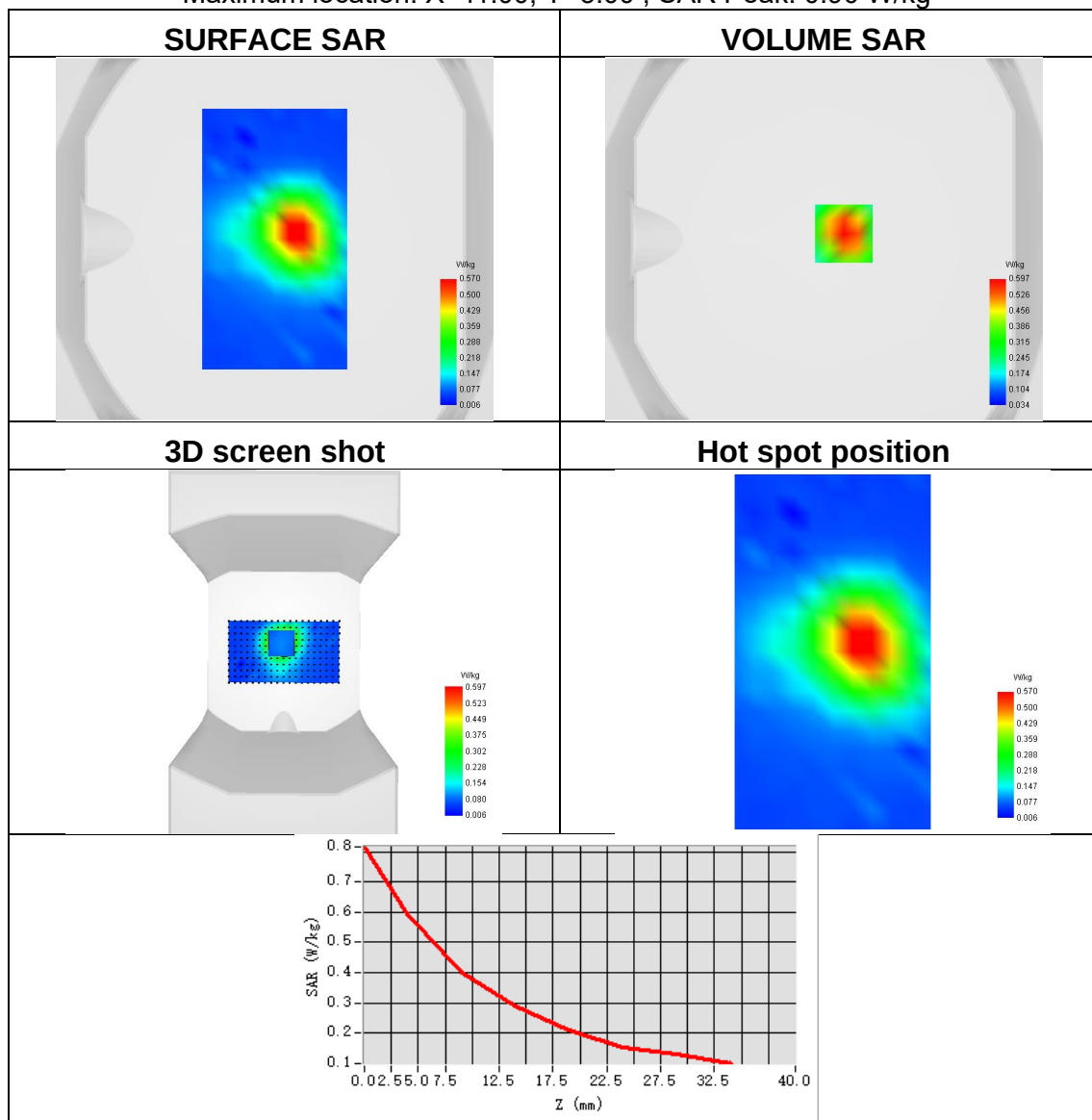




Plot 2:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1909.8
SAR 10g (W/Kg)	0.345
SAR 1g (W/Kg)	0.576
ConvF	2.25
Relative permittivity	40.46
Conductivity (S/m)	1.41

Maximum location: X=11.00, Y=3.00 ; SAR Peak: 0.90 W/kg

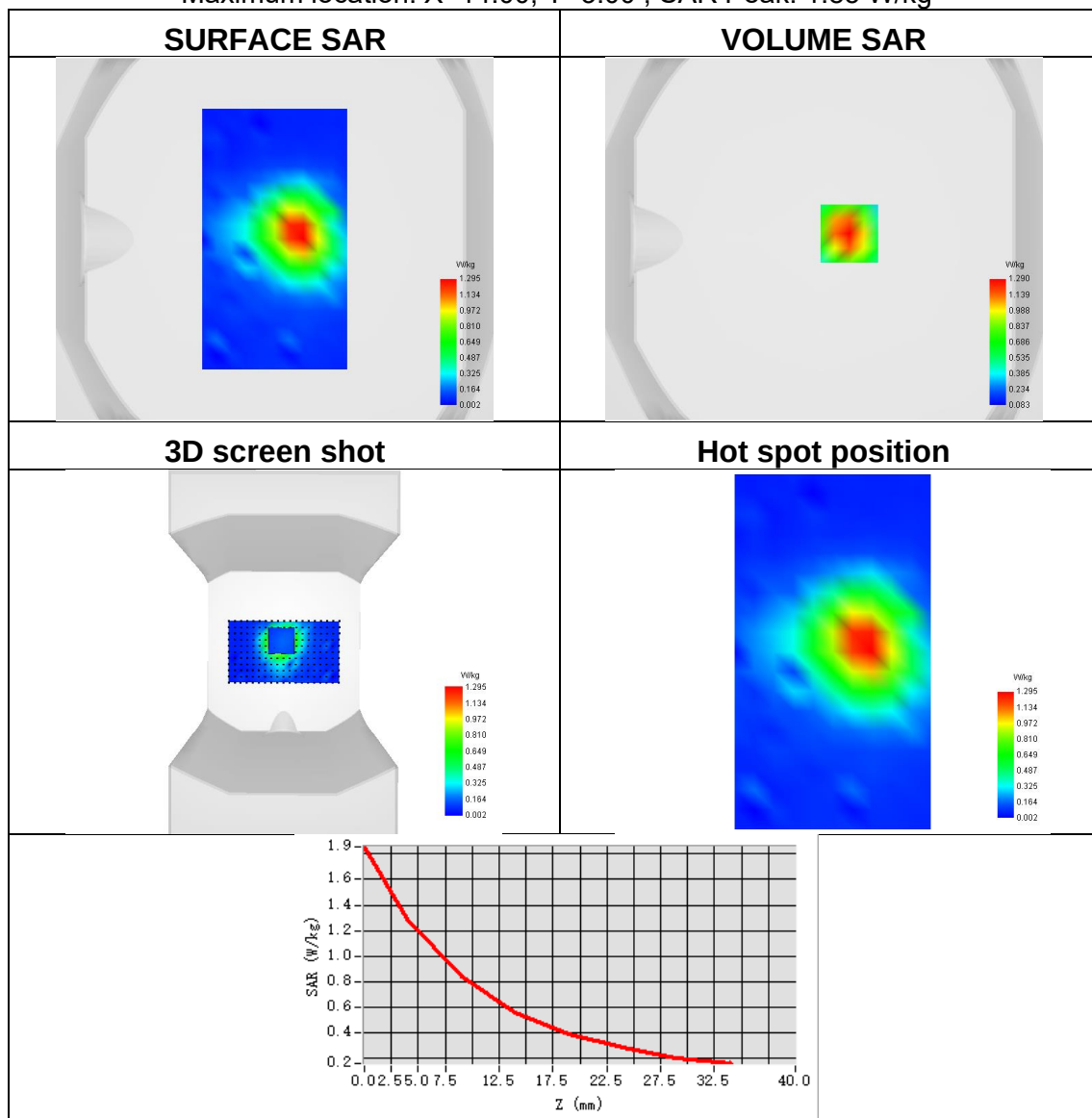




Plot 3:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1880
SAR 10g (W/Kg)	0.726
SAR 1g (W/Kg)	1.224
ConvF	2.25
Relative permittivity	41.07
Conductivity (S/m)	1.41

Maximum location: X=14.00, Y=3.00 ; SAR Peak: 1.85 W/kg

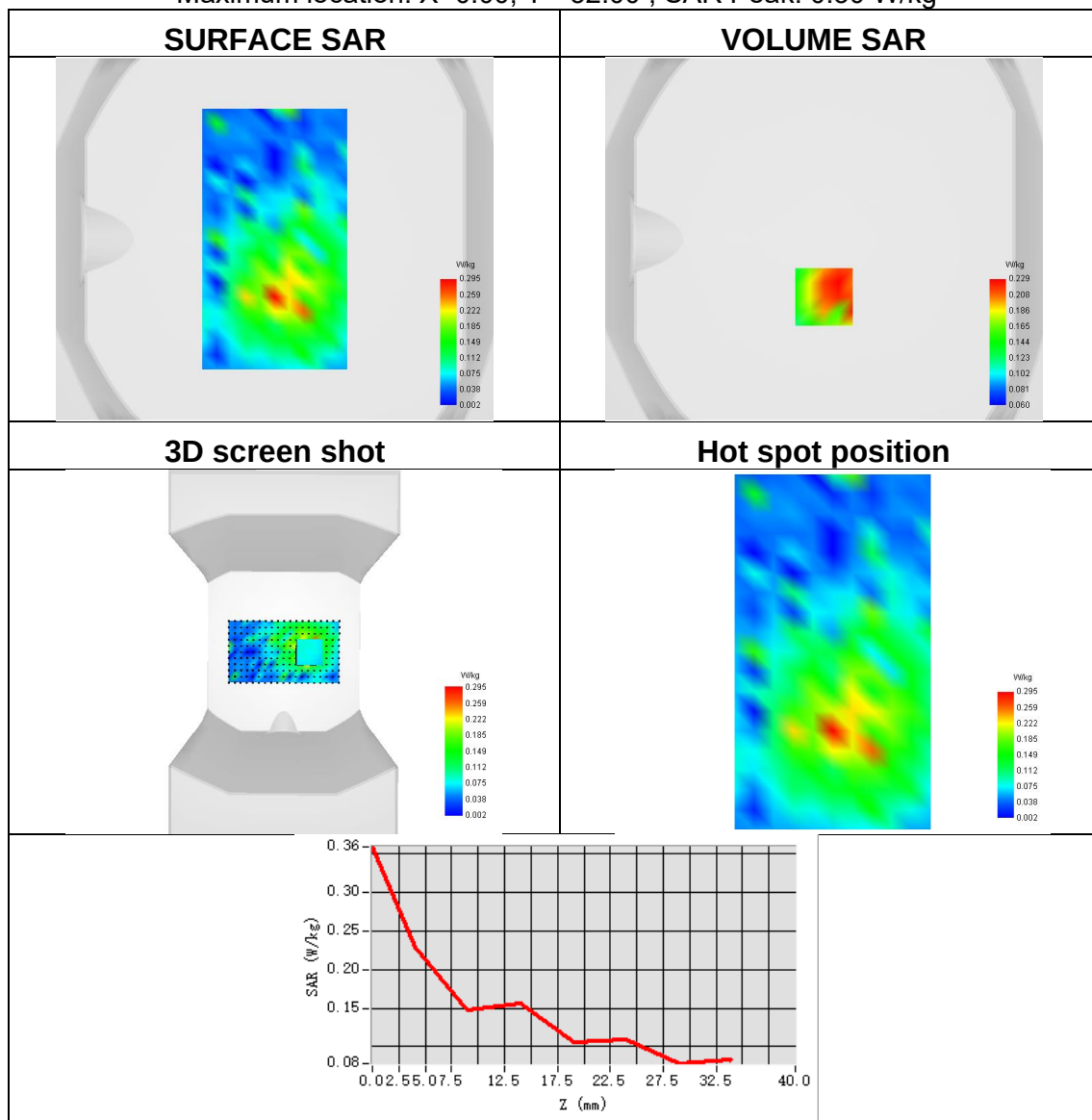




Plot 4:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 5 (850)
Signal	WCDMA
Frequency	826.4
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.207
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=0.00, Y=-32.00 ; SAR Peak: 0.30 W/kg

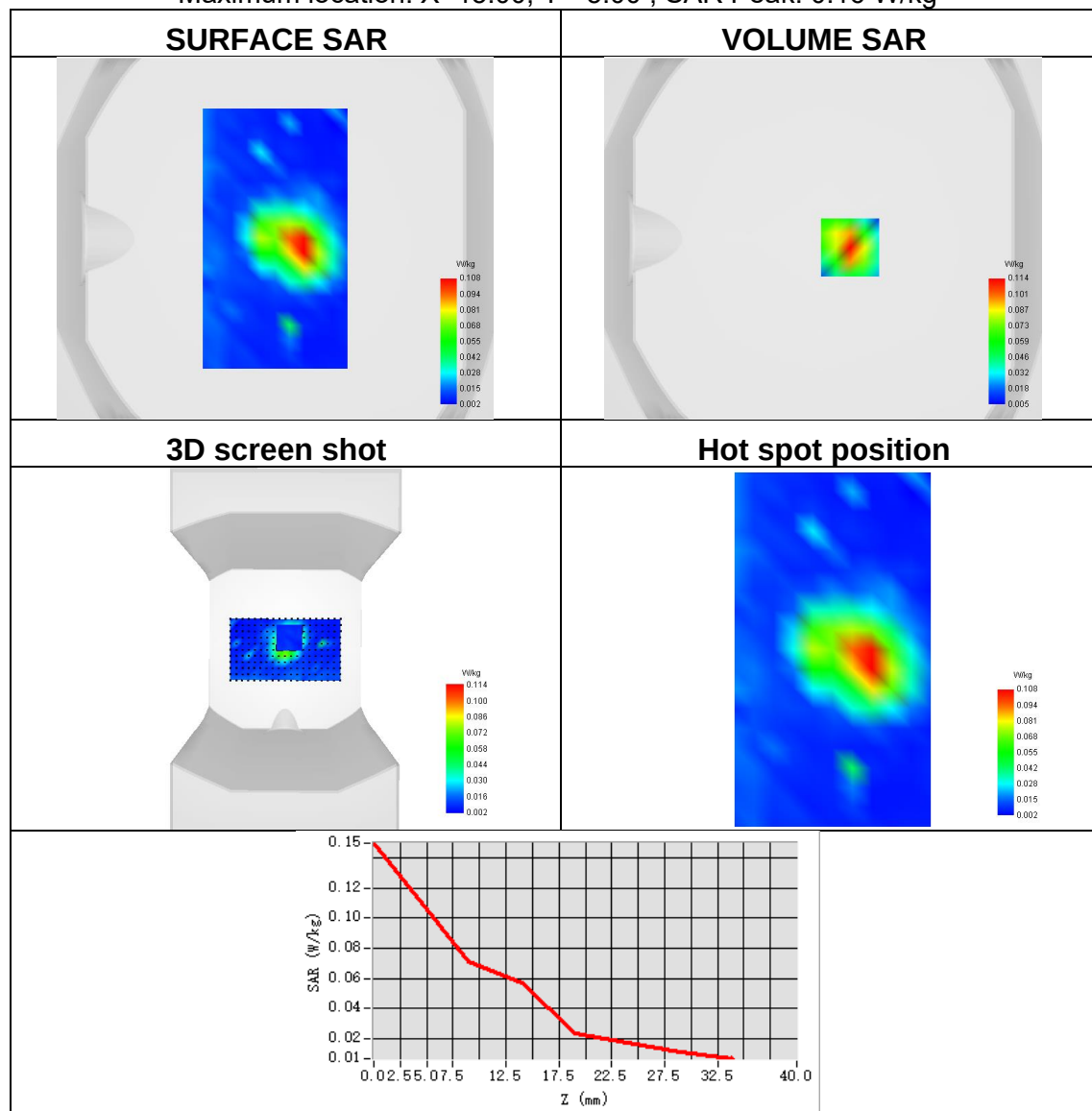




Plot 5:

Test Date	2025-10-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.056
SAR 1g (W/Kg)	0.103
ConvF	1.51
Relative permittivity	40.22
Conductivity (S/m)	1.81

Maximum location: X=15.00, Y=-5.00 ; SAR Peak: 0.16 W/kg

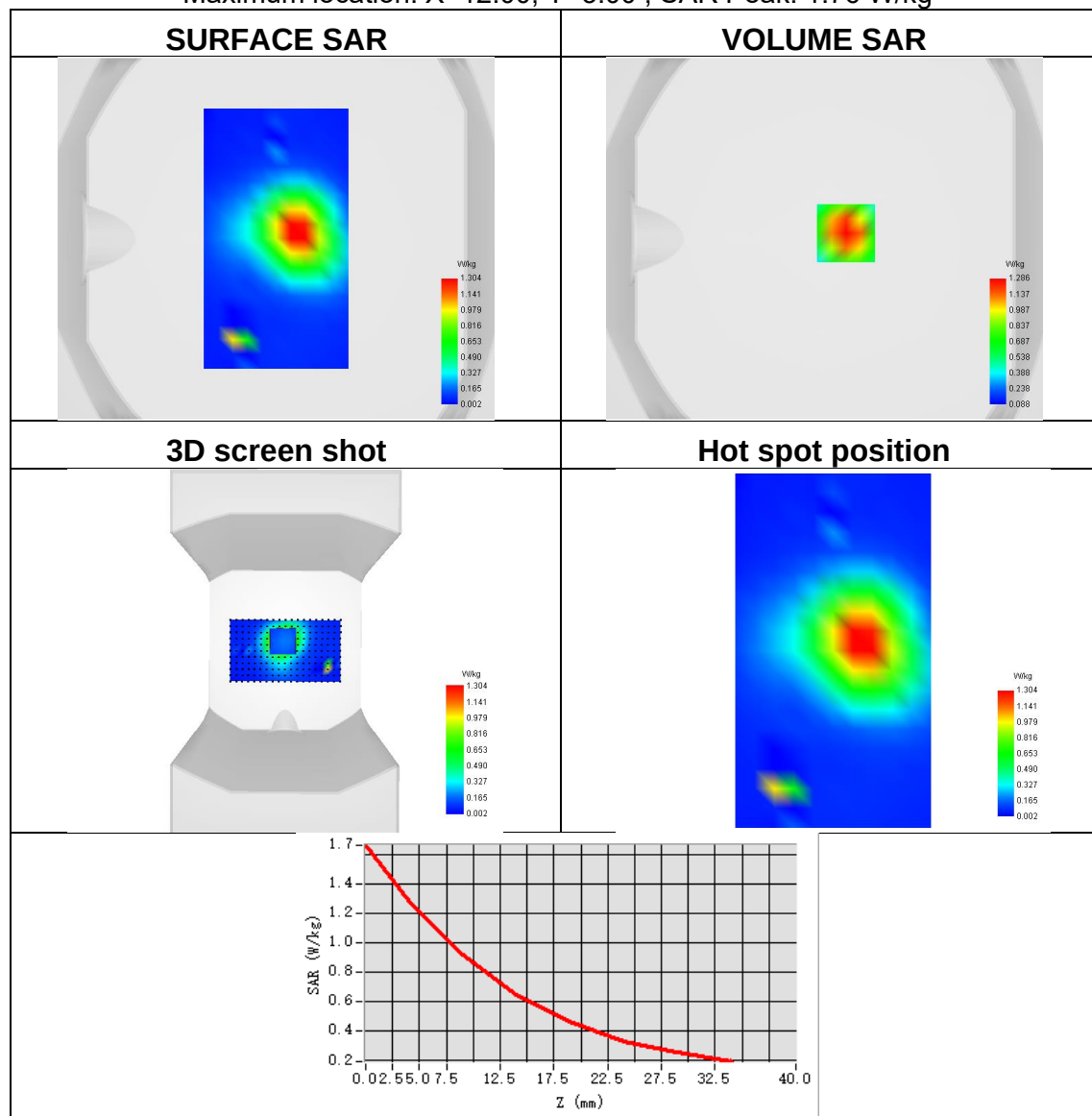




Plot 6:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 2
Signal	LTE FDD
Frequency	1880
SAR 10g (W/Kg)	0.756
SAR 1g (W/Kg)	1.217
ConvF	2.25
Relative permittivity	41.07
Conductivity (S/m)	1.41

Maximum location: X=12.00, Y=3.00 ; SAR Peak: 1.76 W/kg

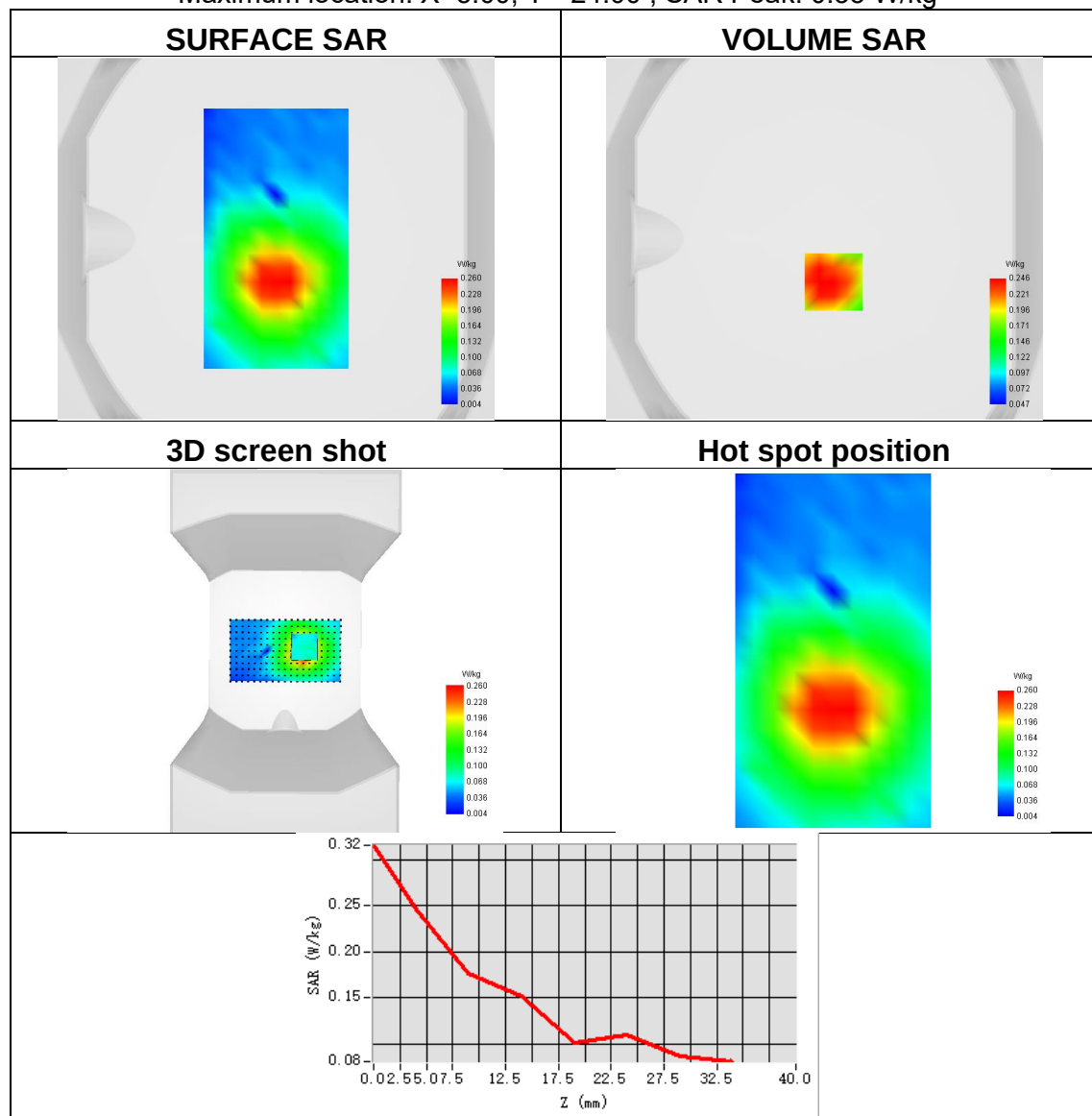




Plot 7:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.243
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=5.00, Y=-24.00 ; SAR Peak: 0.33 W/kg

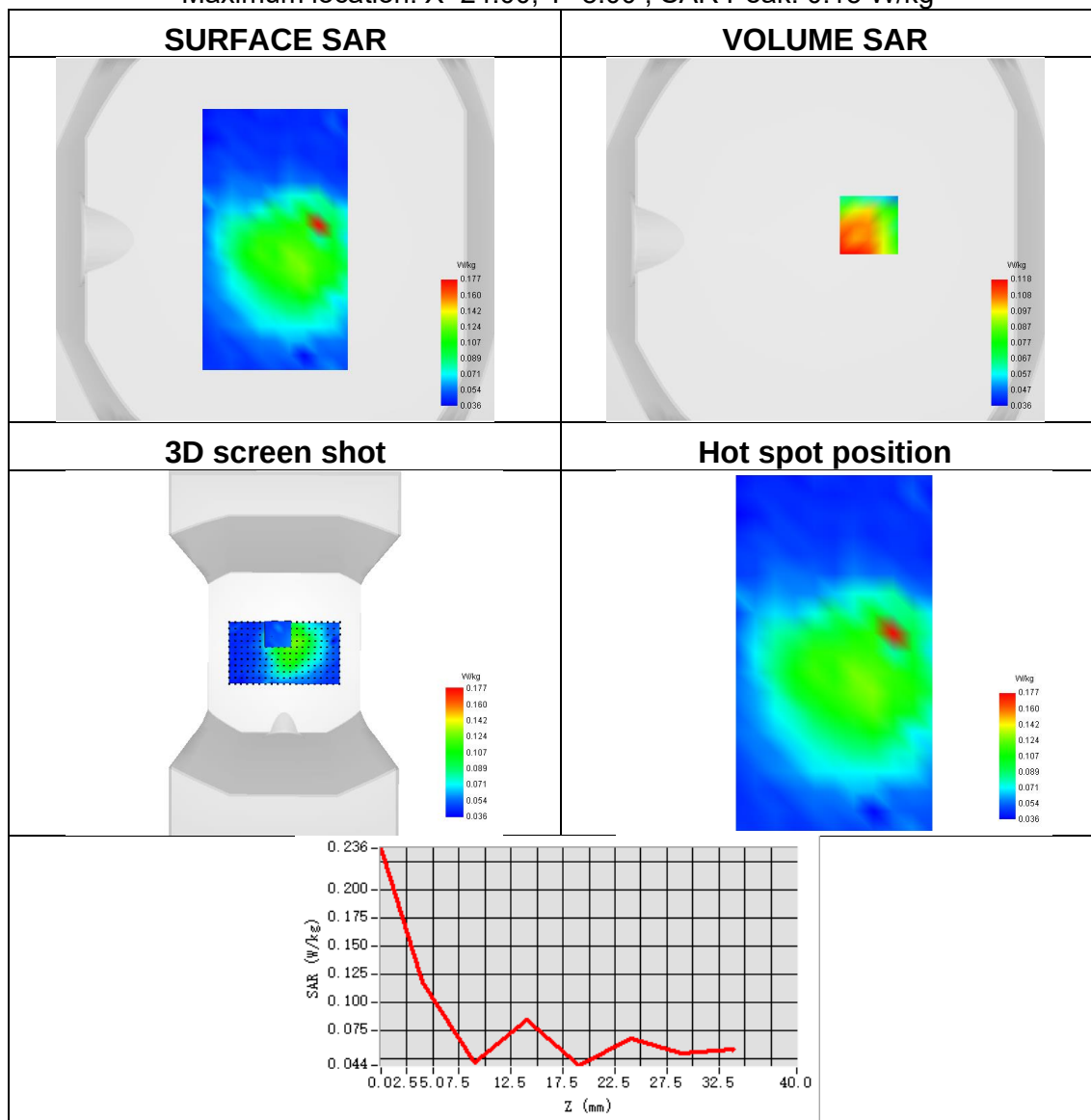




Plot 8:

Test Date	2025-10-01
Area Scan	surf_sam_plan.txt
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)	0.059
SAR 1g (W/Kg)	0.111
ConvF	1.72
Relative permittivity	42.00
Conductivity (S/m)	0.85

Maximum location: X=24.00, Y=8.00 ; SAR Peak: 0.15 W/kg

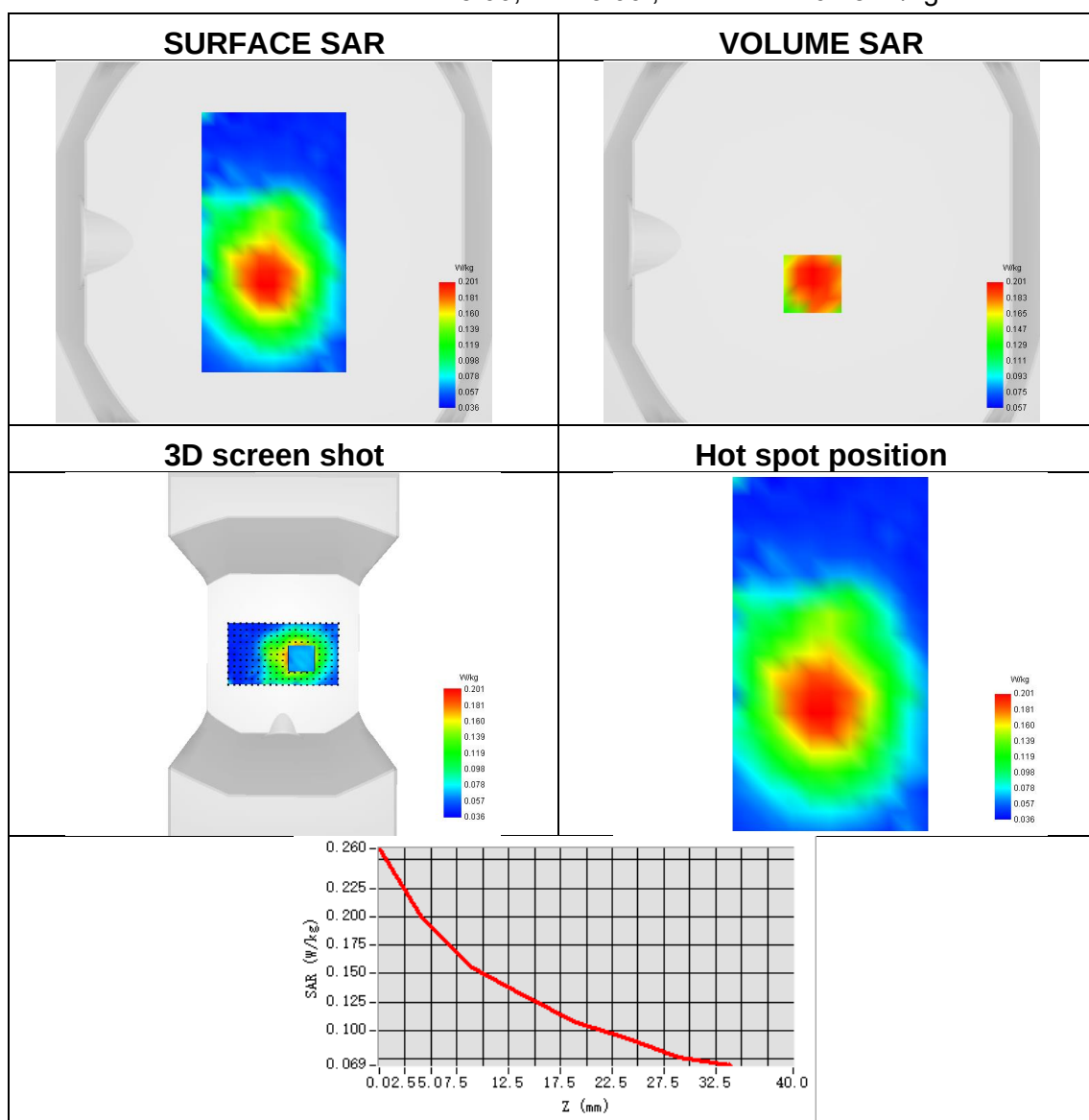




Plot 9:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS850
Signal	TDMA (GPRS)
Frequency	848.8
SAR 10g (W/Kg)	0.149
SAR 1g (W/Kg)	0.199
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=-5.00, Y=-23.00 ; SAR Peak: 0.28 W/kg

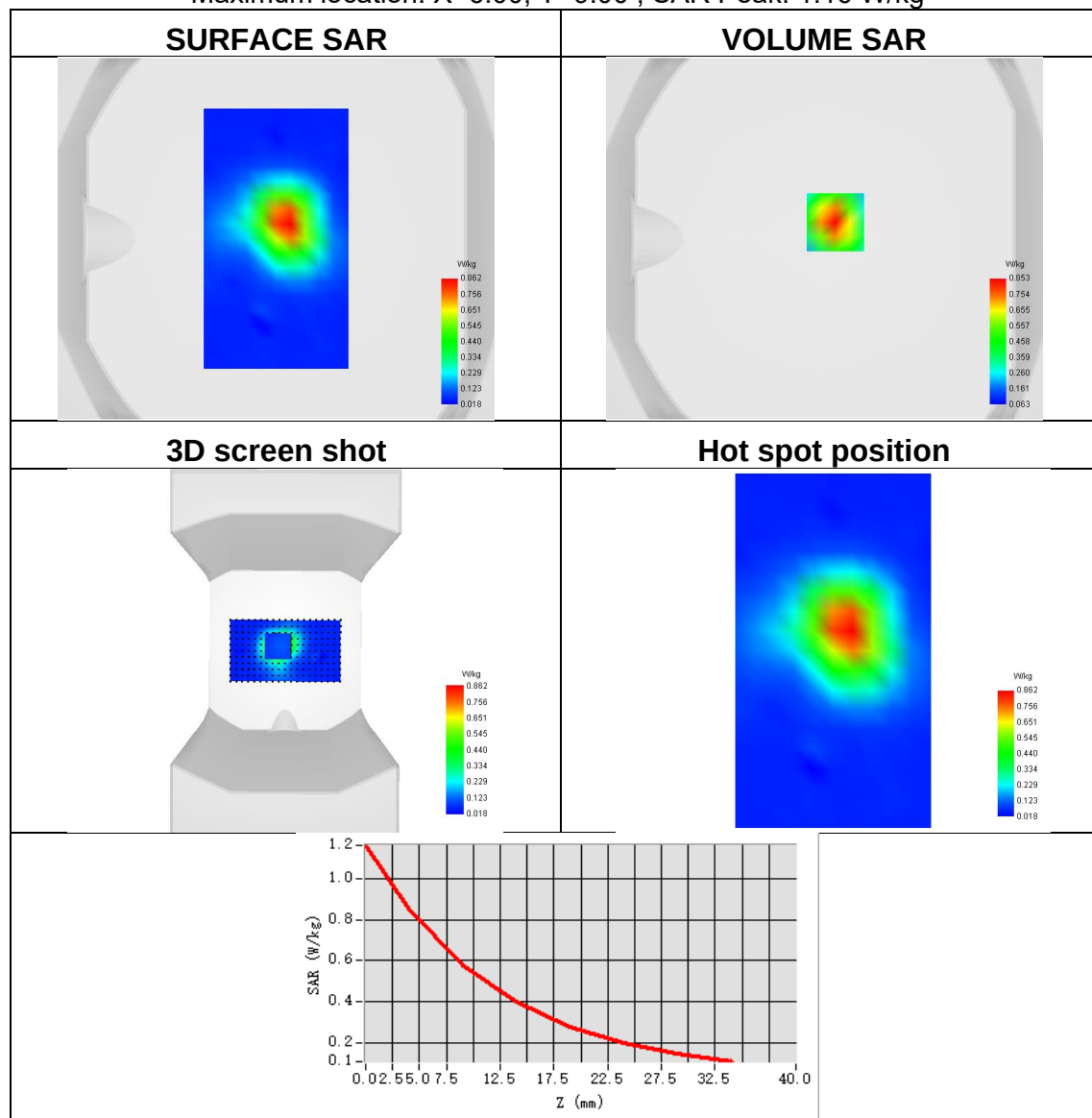




Plot 10:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	GPRS1900
Signal	TDMA (GPRS)
Frequency	1909.8
SAR 10g (W/Kg)	0.478
SAR 1g (W/Kg)	0.796
ConvF	2.25
Relative permittivity	40.46
Conductivity (S/m)	1.41

Maximum location: X=6.00, Y=9.00 ; SAR Peak: 1.16 W/kg

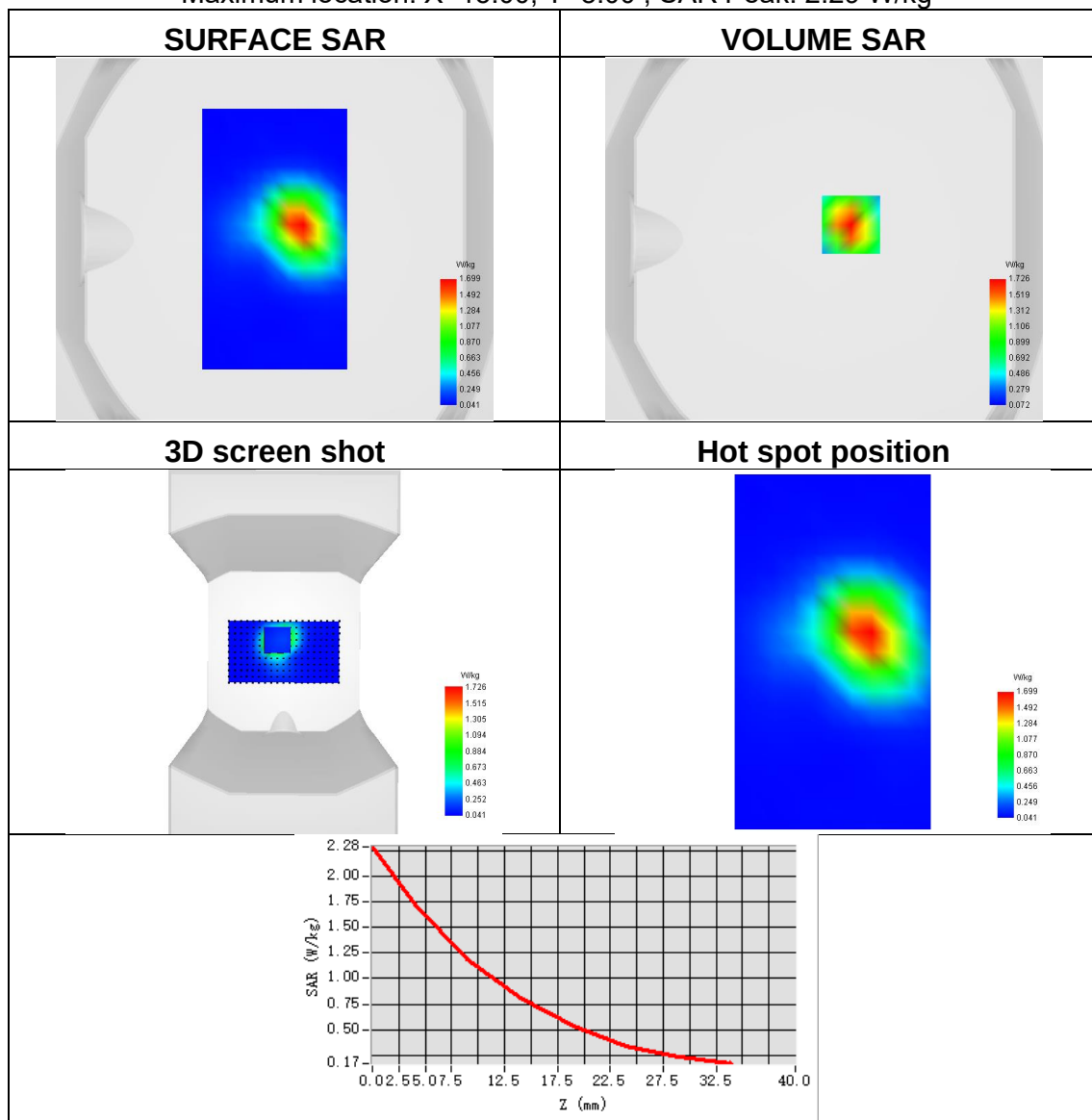




Plot 11:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	Band 2 (1900)
Signal	HSDPA
Frequency	1880
SAR 10g (W/Kg)	0.944
SAR 1g (W/Kg)	1.608
ConvF	2.25
Relative permittivity	41.07
Conductivity (S/m)	1.41

Maximum location: X=15.00, Y=8.00 ; SAR Peak: 2.29 W/kg

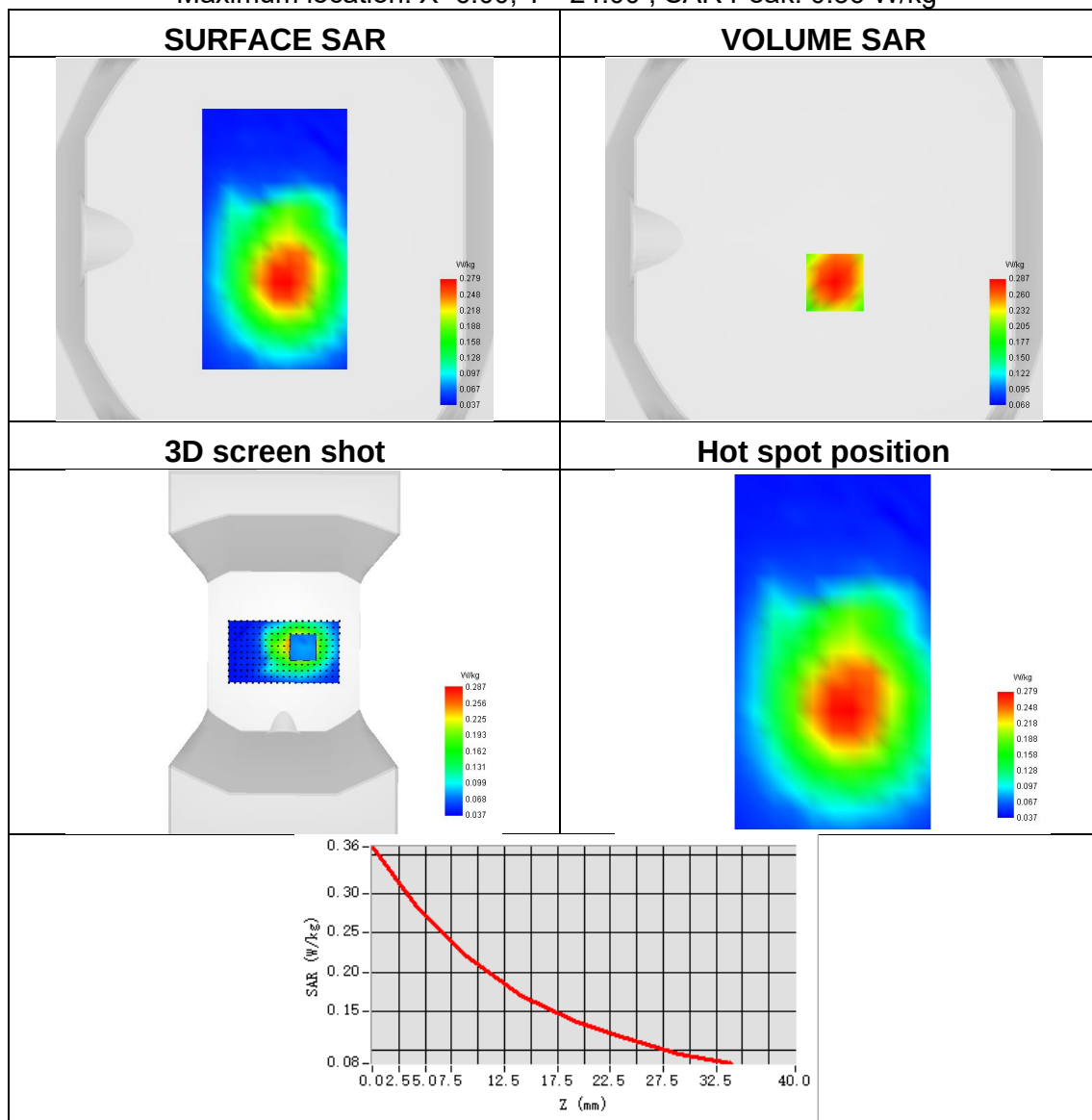




Plot 12:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
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)	0.202
SAR 1g (W/Kg)	0.277
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=6.00, Y=-24.00 ; SAR Peak: 0.36 W/kg

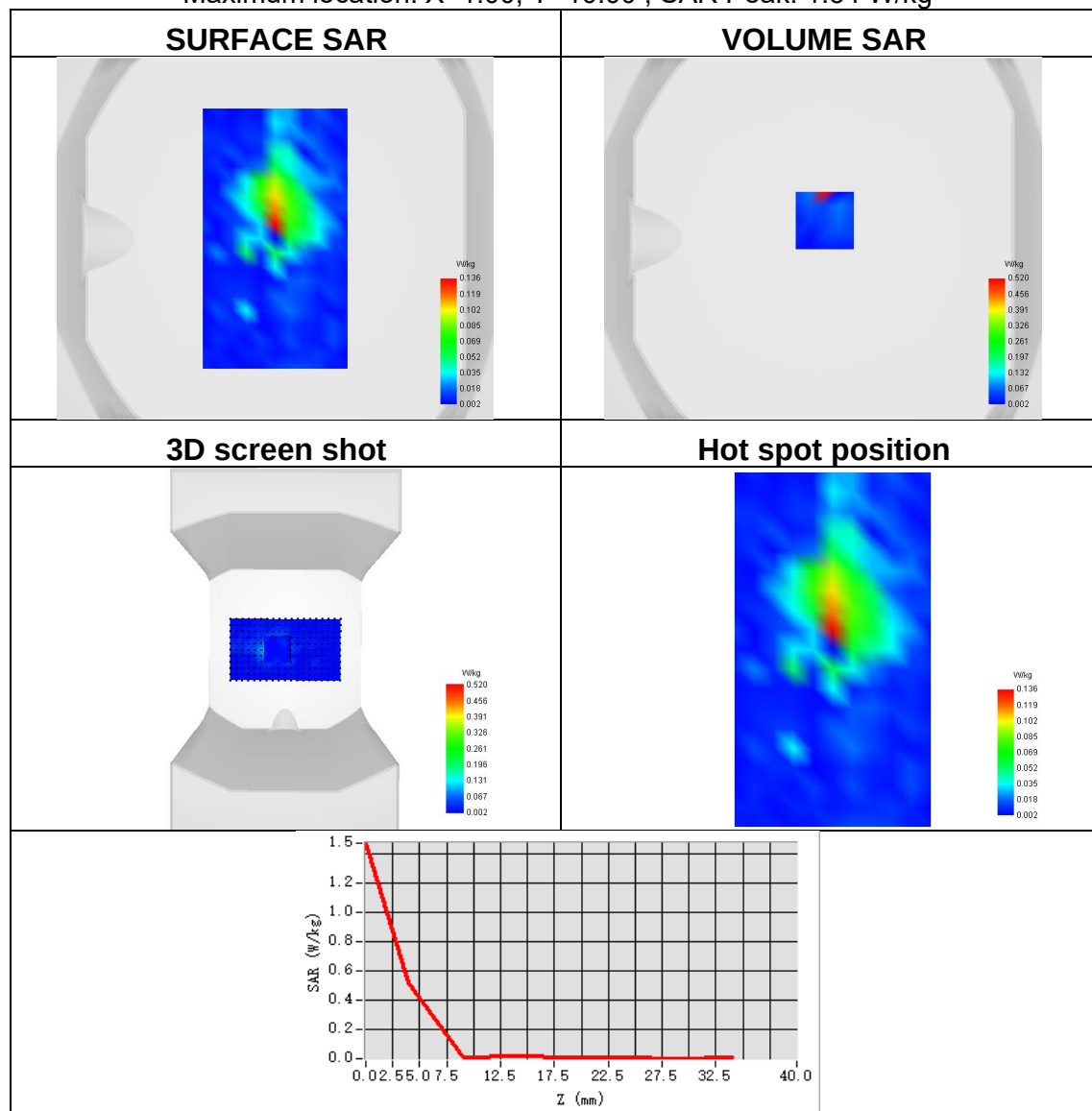




Plot 13:

Test Date	2025-10-01
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	ISM
Signal	IEEE 802.11b
Frequency	2462
SAR 10g (W/Kg)	0.044
SAR 1g (W/Kg)	0.250
ConvF	1.51
Relative permittivity	40.22
Conductivity (S/m)	1.81

Maximum location: X=1.00, Y=10.00 ; SAR Peak: 1.34 W/kg

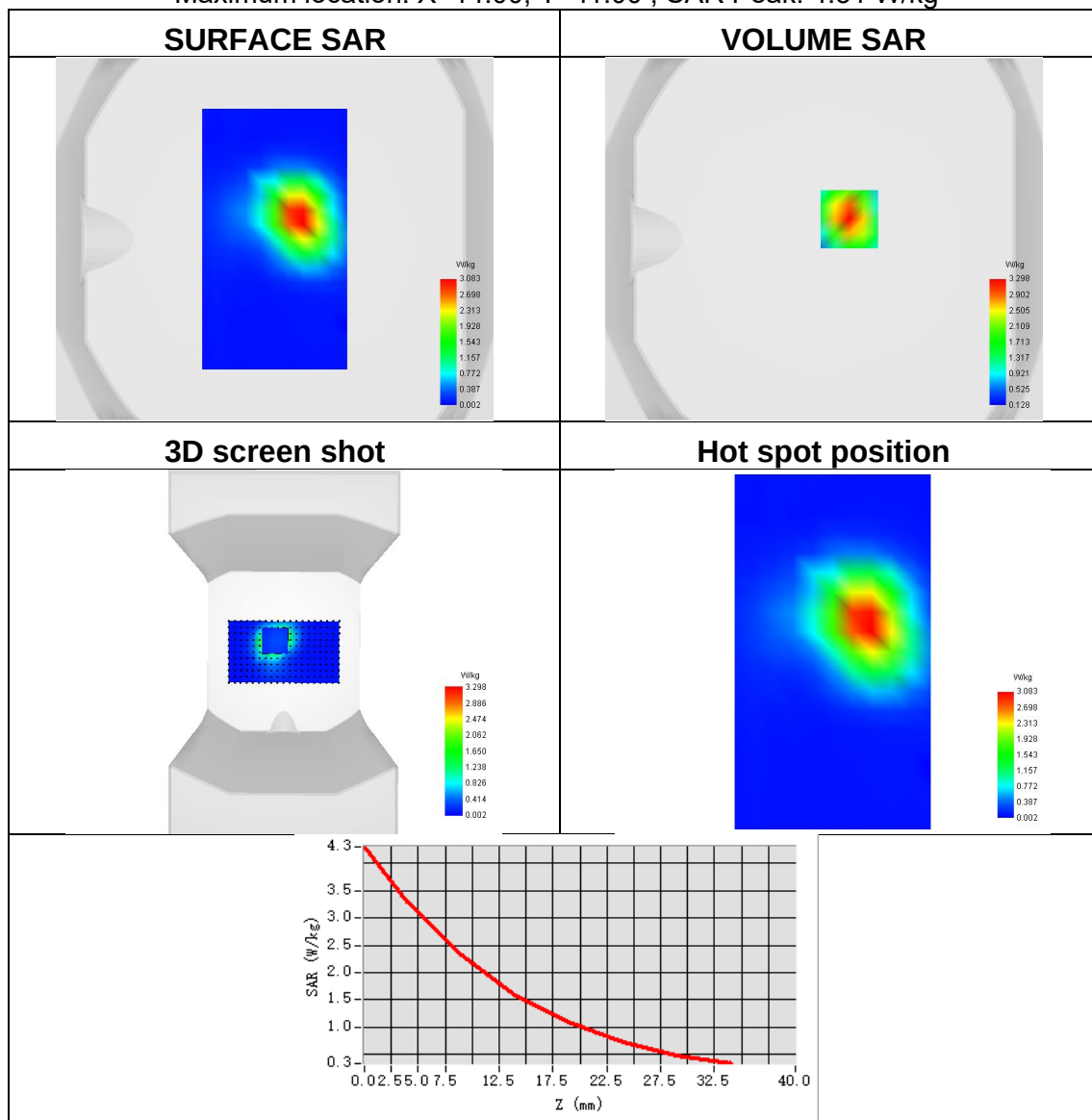




Plot 14:

Test Date	2025-10-03
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back side
Band	LTE band 2
Signal	LTE FDD
Frequency	1880
SAR 10g (W/Kg)	1.818
SAR 1g (W/Kg)	3.057
ConvF	2.25
Relative permittivity	41.07
Conductivity (S/m)	1.41

Maximum location: X=14.00, Y=11.00 ; SAR Peak: 4.31 W/kg

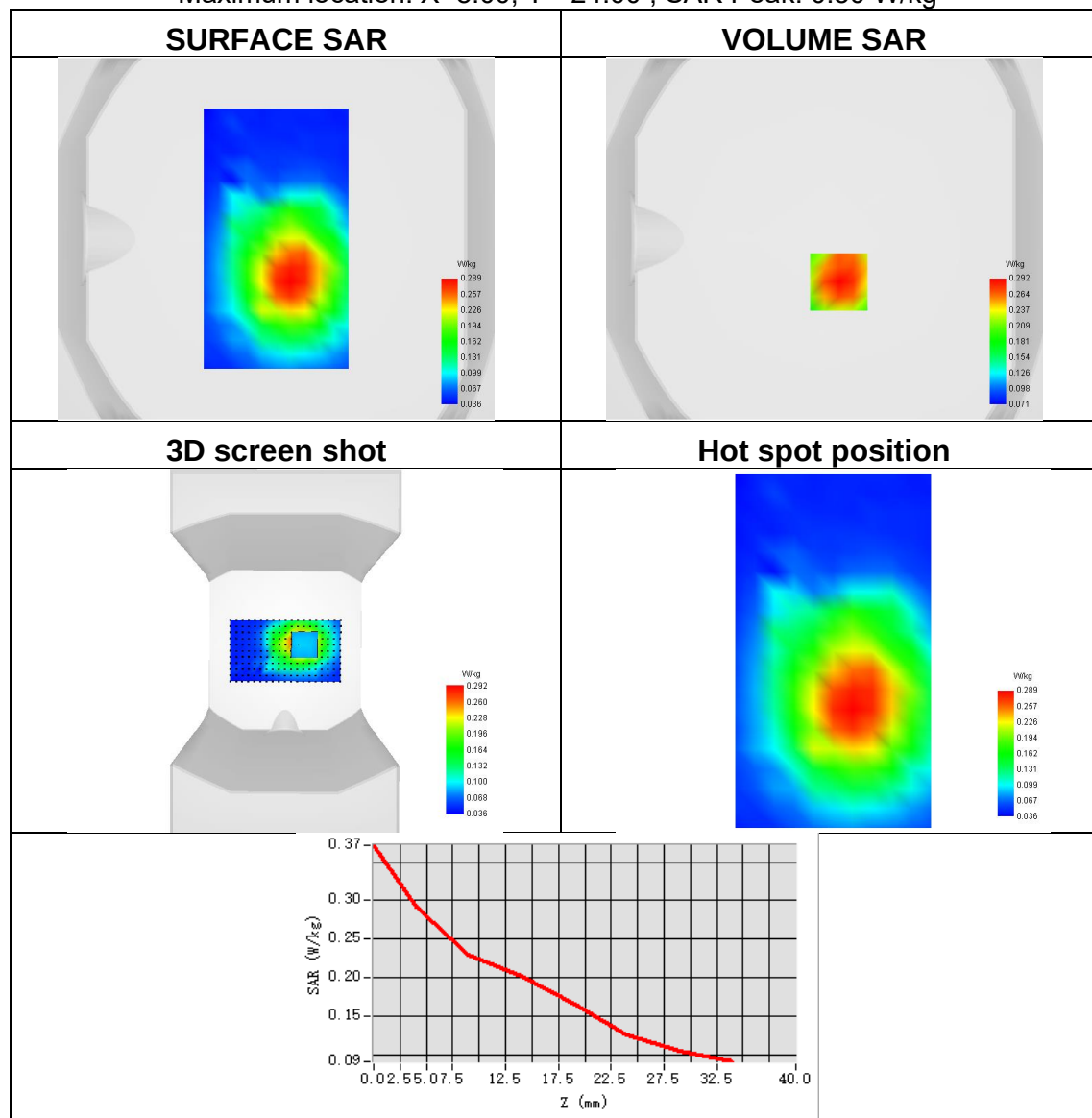




Plot 15:

Test Date	2025-10-02
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.187
SAR 1g (W/Kg)	0.293
ConvF	1.72
Relative permittivity	41.68
Conductivity (S/m)	0.86

Maximum location: X=8.00, Y=-24.00 ; SAR Peak: 0.50 W/kg

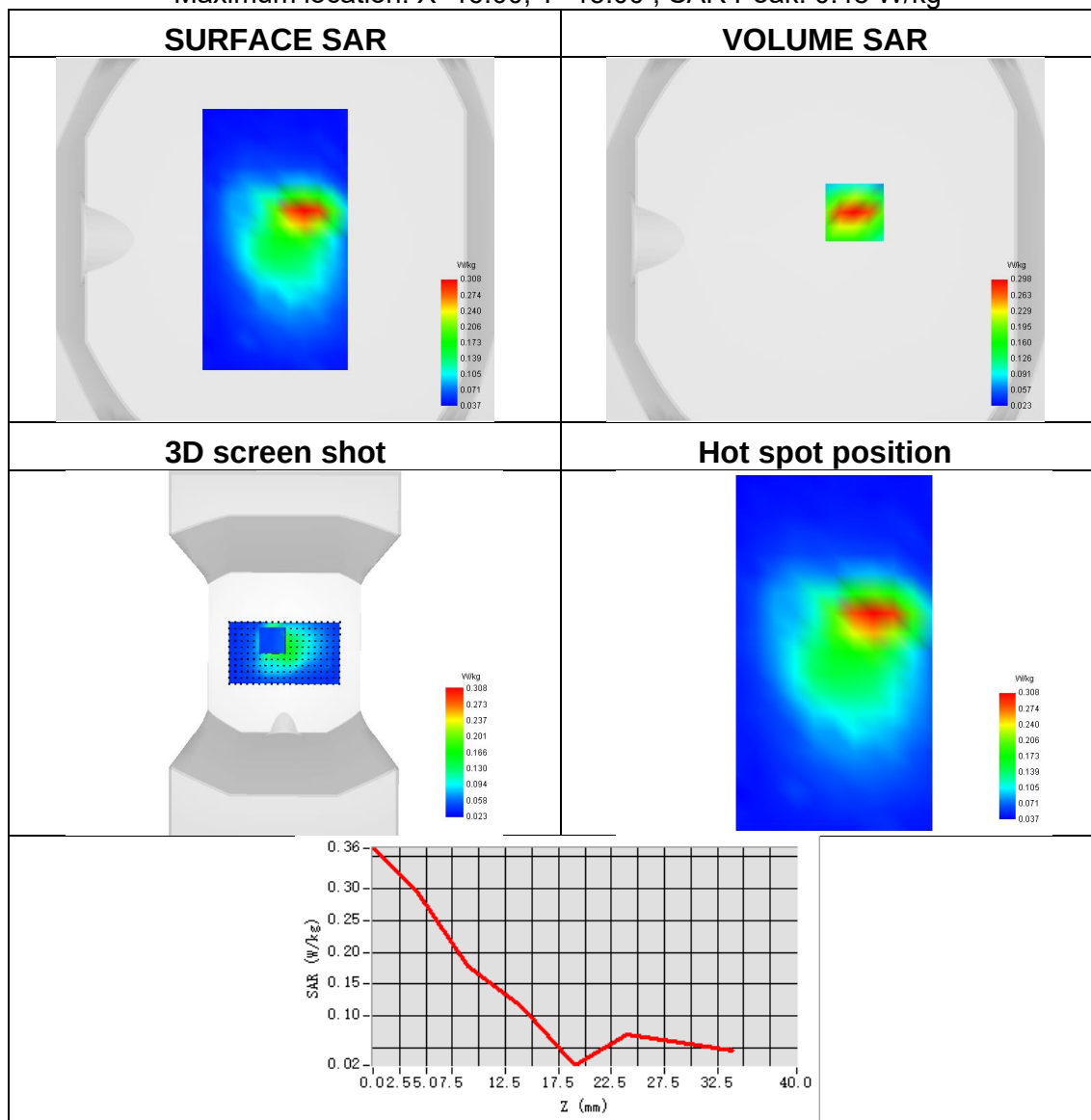




Plot 16:

Test Date	2025-10-01
Area Scan	surf_sam_plan.txt
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)	0.155
SAR 1g (W/Kg)	0.280
ConvF	1.72
Relative permittivity	42.00
Conductivity (S/m)	0.85

Maximum location: X=16.00, Y=15.00 ; SAR Peak: 0.48 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※