



SAR TEST REPORT

Product Name: PoC Smart Radio

Model Name: TE320A, TE320L, TE320M, TE320G, TE320P, TE320X

FCC ID: 2AYEZ-TE320A

Issued For : Telo Communication (Shenzhen) Co., Ltd

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China

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

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Report Number: LGT24D119HA01

Sample Received Date: Apr. 19, 2024

Date of Test: Apr. 19, 2024 ~ May. 08, 2024

Date of Issue: May. 09, 2024

Max. SAR (1g): Body: 1.034 W/kg

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Revision History

Rev.	Issue Date	Contents
00	May. 09, 2024	Initial Issue



TEST REPORT CERTIFICATION

Applicant Telo Communication (Shenzhen) Co., Ltd
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Manufacture Telo Communication (Shenzhen) Co., Ltd
Address 6/F, No. 42 Liuxian 1st Road, Bao'an District, Shenzhen, China
Product Name PoC Smart Radio
Trademark TELOX
Model Name TE320A,TE320L,TE320M,TE320G,TE320P,TE320X
Sample number LGT2404111-4

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
ANSI/IEEE Std. C95.1-1992 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	PoC Smart Radio
Trademark	TELOX
Model Name	TE320A
Series Model	TE320L,TE320M,TE320G,TE320P,TE320X
Model Difference	It's just a different model name
Device Category	Portable
Product stage	Production unit
RF Exposure Environment	General Population / Uncontrolled
Hardware Version	N/A
Software Version	TE320A-V100R01-20240401
Frequency Range	LTE Band 2:1850 ~1910MHz LTE Band 4:1710 ~1755MHz LTE Band 5:824 ~ 849MHz LTE Band 7:2500 ~ 2570MHz LTE Band 12:699~716MHz LTE Band 13:777~787MHz LTE Band 14:788~798MHz LTE Band 17:704 ~ 716MHz LTE Band 25:1850~1915MHz LTE Band 26:814~824MHz/824-849MHz LTE Band 41:2555~2655MHz LTE Band 66:1710~1780MHz LTE Band 71:663~698MHz 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: 13.56MHz



	Mode	Front of face(W/kg)	Body Worn and Hotspot(W/kg)
Max. Reported SAR(1g): (Limit:1.6W/kg) Test distance: Head:0mm Body:10mm	LTE Band 2	0.498	0.878
	LTE Band 4	0.461	0.642
	LTE Band 5	0.597	0.768
	LTE Band 7	0.799	1.034
	LTE Band 12	0.631	0.814
	LTE Band 13	0.657	0.847
	LTE Band 14	0.650	0.813
	LTE Band 17	0.575	0.737
	LTE Band 25	0.726	0.875
	LTE Band 26	0.614	0.791
	LTE Band 41	0.711	0.939
	LTE Band 66	0.620	0.771
	LTE Band 71	0.340	0.451
	2.4G WLAN	0.074	0.112
	5.2G WLAN	0.272	0.340
	5.3G WLAN	0.289	0.336
5.6G WLAN	0.285	0.400	
5.8G WLAN	0.279	0.374	
Bluetooth ^{Note}	0.295	0.295	
NFC ^{Note}	0.000004	0.000004	
1-g Sum SAR		1.434	
Battery	Rated Voltage:3.8V Capacity: 4000mAh		
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:	LTE: QPSK, 16QAM 2.4G WLAN: 802.11b(DSSS): CCK, DQPSK, DBPSK 802.11g(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 5G WLAN: 802.11a(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11n(OFDM): BPSK, QPSK,16-QAM,64-QAM 802.11ac (OFDM): BPSK, QPSK,16-QAM,64-QAM,256-QAM Bluetooth: GFSK + $\pi/4$ DQPSK+8DPSK BLE: GFSK NFC: FSK		
Antenna Specification	LTE: FPC Antenna Bluetooth: FPC Antenna WLAN: FPC Antenna NFC: Coil Antenna		
Operating Mode	Maximum continuous output		
SIM Card	Support dual-SIM, dual standby, the multiple SIM card with two lines cannot trans mitting at the same time		
Hotspot Mode	Support		
DTM Mode	Not Support		
Note:			
1. The BT and NFC value was Estimated.			



1.2 Test Environment

Ambient conditions in the SAR laboratory:

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

1.3 Test Factory

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



2. Test Standards and Limits

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	ANSI/IEEE Std. C95.1-1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz 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 D05 v02r05	SAR for LTE Devices
8	FCC KDB 941225 D06 v02r01	Hotspot Mode SAR
9	FCC KDB 648474 D04 v01r03	SAR Evaluation Considerations for Wireless Handsets
10	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

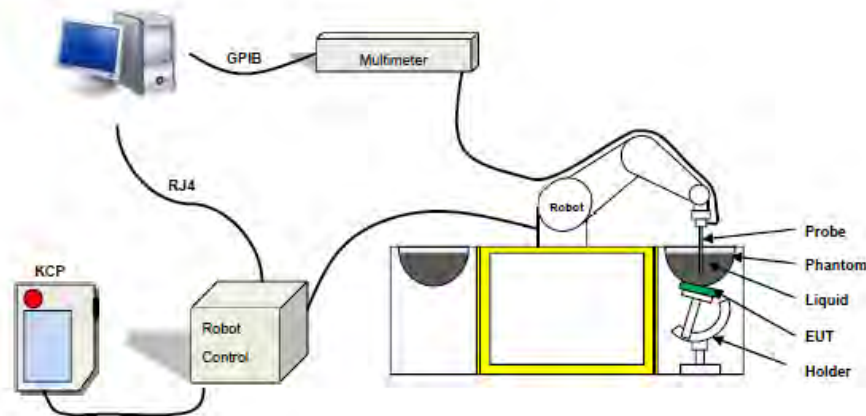
$$SAR = \frac{\sigma E^2}{\rho}$$

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 EPGO364 with following specifications is used

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



Figure 1-MVG COMOSAR Dosimetric E field Probe



3.2.2 Phantom

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

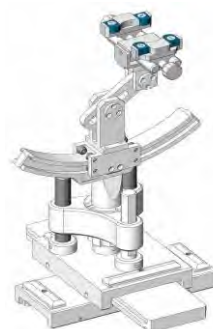


Figure-SN 06/22 SAM 148



Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



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



4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

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

The uncertainty due to the liquid conductivity and permittivity arises from two different sources. The first source of error is the deviation of the liquid conductivity from its target value (max _ 5 %) and the second source of error arises from the measurement procedures used to assess conductivity. The uncertainty shall be assessed using a rectangular probability For 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]					
2024-05-05	23.2	40	750	22.9	Permittivity	41.90	42.33	1.03	±5
					Conductivity	0.89	0.86	-3.37	±5
2024-05-04	23.6	50	835	23.4	Permittivity	41.50	40.73	-1.86	±5
					Conductivity	0.90	0.94	4.44	±5
2024-04-27	20.3	43	1800	20	Permittivity	40.00	40.20	0.50	±5
					Conductivity	1.40	1.43	2.14	±5
2024-04-20	22.3	43	1900	22.0	Permittivity	40.00	40.40	1.00	±5
					Conductivity	1.40	1.40	0.00	±5
2024-04-30	20.3	49	2450	20	Permittivity	39.20	39.34	0.36	±5
					Conductivity	1.80	1.77	-1.67	±5
2024-04-28	24	48	2600	23.7	Permittivity	39.00	39.36	0.92	±5
					Conductivity	1.96	1.97	0.51	±5
2024-04-29	20.2	43	5200	19.9	Permittivity	36.00	37.13	3.14	±5
					Conductivity	4.66	4.64	-0.43	±5
2024-05-02	20.6	53	5400	20.2	Permittivity	35.80	36.21	1.15	±5
					Conductivity	4.86	4.90	0.82	±5
2024-05-02	20.7	53	5600	20.4	Permittivity	35.55	35.94	1.10	±5
					Conductivity	5.07	5.13	1.18	±5
2024-05-03	23.5	49	5800	23.1	Permittivity	35.30	36.09	2.24	±5
					Conductivity	5.27	5.23	-0.76	±5

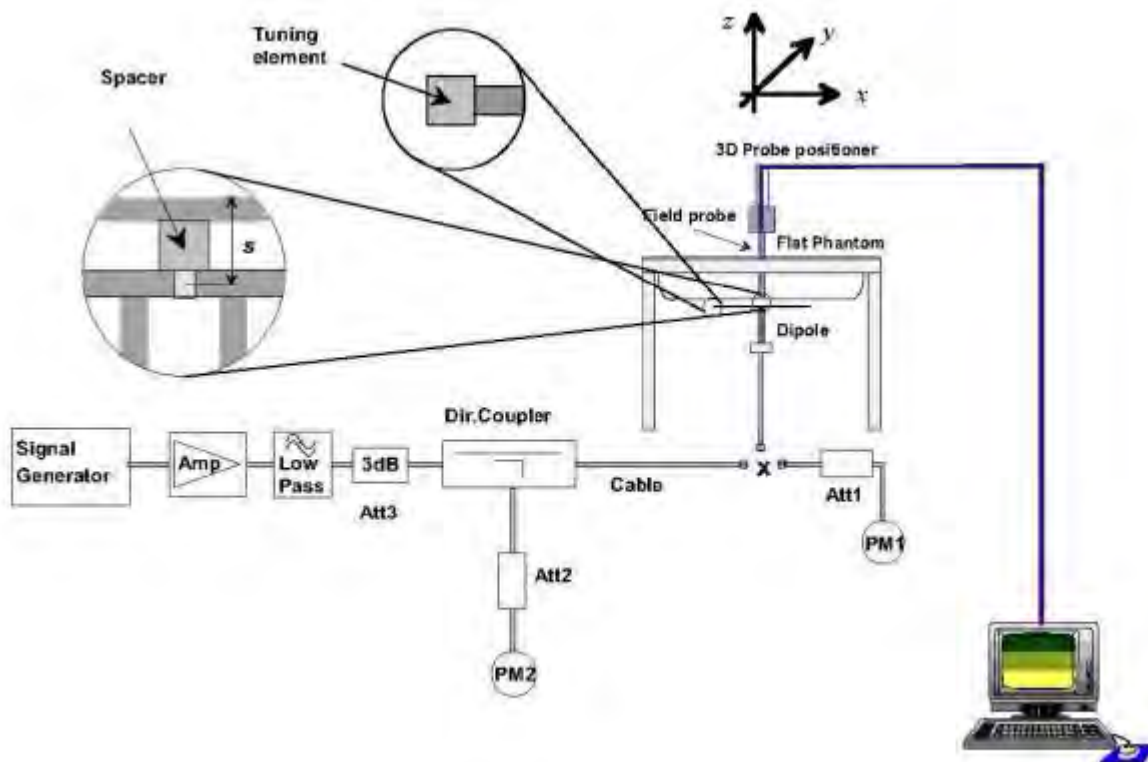


5. SAR System Validation

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	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2024-05-05	750	100	0.818	8.18	8.27	-1.09	10
2024-05-04	835	100	0.971	9.71	9.75	-0.41	10
2024-04-27	1800	100	3.940	39.40	39.06	0.87	10
2024-04-20	1900	100	4.109	41.09	40.85	0.59	10
2024-04-30	2450	100	5.397	53.97	54.28	-0.57	10
2024-04-28	2600	100	5.676	56.76	56.58	0.32	10
2024-04-29	5200	100	7.741	77.41	77.64	-0.30	10
2024-05-02	5300	100	8.059	80.59	80.27	0.40	10
2024-05-02	5600	100	7.815	78.15	78.35	-0.26	10
2024-05-03	5800	100	7.513	75.13	74.92	0.28	10

Note:

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



6. SAR Evaluation Procedures

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

The following steps are used for each test position

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

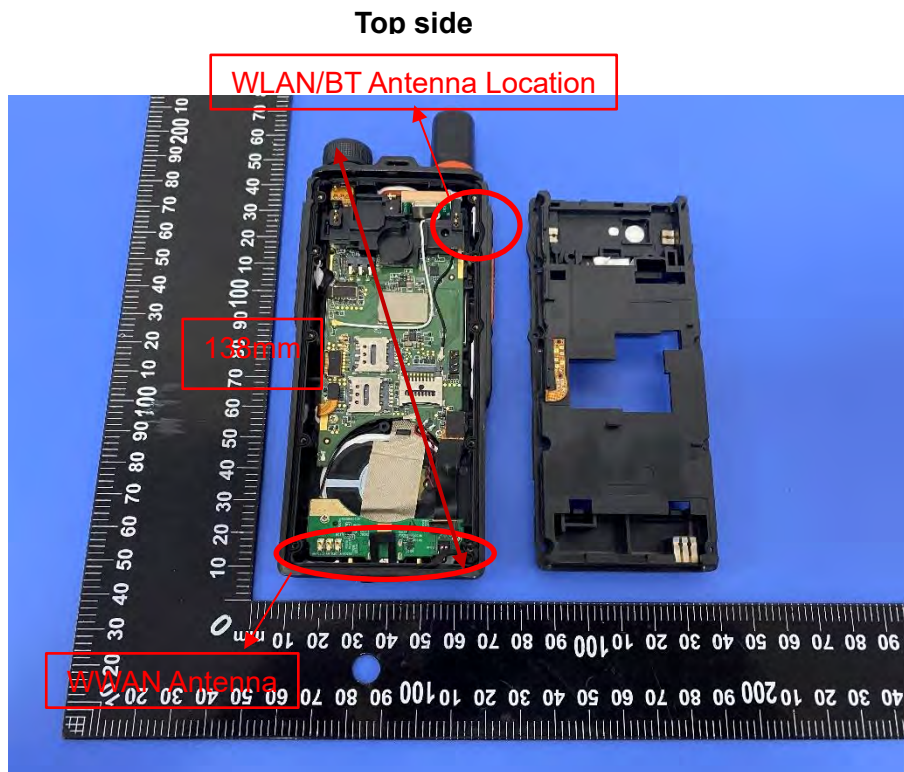
➤ Area Scan & Zoom Scan

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

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

7. EUT Antenna Location Sketch

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



Antenna Separation Distance(mm)						
ANT	Back Side	Front of face	Left Side	Right Side	Top Side	Bottom Side
WLAN/BT	5	5	5	58	5	104
WWAN	5	5	5	5	118	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	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12
	Calculated Frequency (MHz)	1880	1732.5	836.5	2535	711
	Maximum Turn-up power (dBm)	24	23	24	23	24
	Maximum rated power(mW)	251.19	199.53	251.19	199.53	251.19
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.40	16.40	9.42	17.79
	Testing required?	YES	YES	YES	YES	YES
Front of face	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.40	16.40	9.42	17.79
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.40	16.40	9.42	17.79
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.40	16.40	9.42	17.79
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	118	118	118	118	118
	exclusion threshold(mW)	789.40	793.96	543.22	774.21	500.21
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	10.94	11.40	16.40	9.42	17.79
	Testing required?	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 7	LTE Band 12



Exposure Position	Wireless Interface	LTE Band 13	LTE Band 14	LTE Band 17	LTE Band 25	LTE Band 26
	Calculated Frequency (MHz)	782	793	711	1905	819
	Maximum Turn-up power (dBm)	23.5	23.5	24	24	24
	Maximum rated power(mW)	223.87	223.87	251.19	251.19	251.19
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	17.79	10.87	16.57
	Testing required?	YES	YES	YES	YES	YES
Front of face	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	17.79	10.87	16.57
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	17.79	10.87	16.57
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	17.79	10.87	16.57
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	118	118	118	118	118
	exclusion threshold(mW)	524.13	527.94	500.21	788.68	537.03
	Testing required?	NO	NO	NO	NO	NO
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	16.96	16.84	17.79	10.87	16.57
	Testing required?	YES	YES	YES	YES	YES



Exposure Position	Wireless Interface	LTE Band 41	LTE Band 66	LTE Band 71	BT	2.4G WLAN
	Calculated Frequency (MHz)	2506	1770	680.5	2441	2462
	Maximum Turn-up power (dBm)	22.5	24.5	24	8.5	16.5
	Maximum rated power(mW)	177.83	281.84	251.19	7.08	44.67
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.48	11.27	18.18	9.60	9.56
	Testing required?	YES	YES	YES	NO	YES
Front of face	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.48	11.27	18.18	9.60	9.56
	Testing required?	YES	YES	YES	NO	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	9.48	11.27	18.18	9.60	9.56
	Testing required?	YES	YES	YES	NO	YES
Right Edge	Separation distance (mm)	5	5	5	52	52
	exclusion threshold(mW)	9.48	11.27	18.18	116.01	115.60
	Testing required?	YES	YES	YES	NO	NO
Top Edge	Separation distance (mm)	118	118	118	5	5
	exclusion threshold(mW)	774.75	792.75	490.33	9.60	9.56
	Testing required?	NO	NO	NO	NO	YES
Bottom Edge	Separation distance (mm)	5	5	5	104	104
	exclusion threshold(mW)	9.48	11.27	18.18	636.01	635.60
	Testing required?	YES	YES	YES	NO	NO



Exposure Position	Wireless Interface	5.2G WLAN	5.3G WLAN	5.6G WLAN	5.8G WLAN
	Calculated Frequency (MHz)	5180	5300	5700	5745
	Maximum Turn-up power (dBm)	16	17	13	13.5
	Maximum rated power(mW)	39.81	50.12	19.95	22.39
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.52	6.28	6.26
	Testing required?	YES	YES	YES	YES
Front of face	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.52	6.28	6.26
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.52	6.28	6.26
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	52	52	52	52
	exclusion threshold(mW)	85.91	85.16	82.83	82.58
	Testing required?	NO	NO	NO	NO
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	6.59	6.52	6.28	6.26
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	104	104	104	104
	exclusion threshold(mW)	605.91	605.16	602.83	602.58
	Testing required?	NO	NO	NO	NO



Note:

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

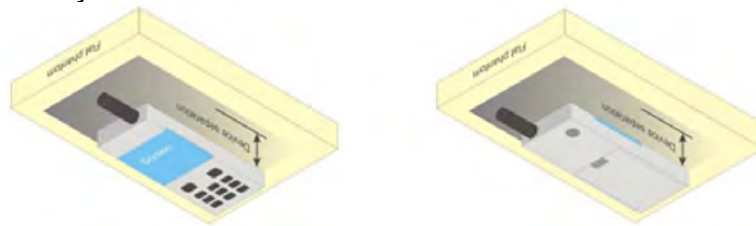


8. EUT Test Position

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

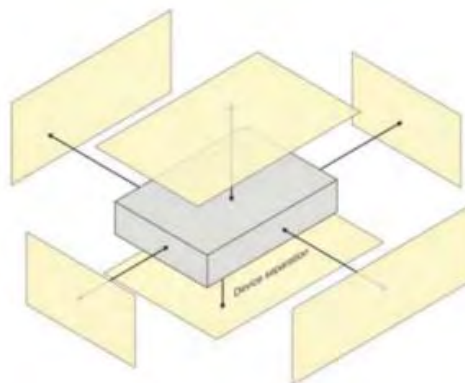
8.1 Body-worn Position Conditions

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 $k=2$.

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



10. Conducted Power Measurement

10.1 Test Result

2.4G WLAN

2.4GWIFI				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11b	1	2412	15.58	36.14
	6	2437	15.52	35.65
	11	2462	16.17	41.40
802.11g	1	2412	14.66	29.24
	6	2437	14.47	27.99
	11	2462	14.94	31.19
802.11 n-HT20	1	2412	13.58	22.80
	6	2437	13.40	21.88
	11	2462	13.89	24.49
802.11 n-HT40	3	2422	13.20	20.89
	6	2437	13.54	22.59
	9	2452	13.61	22.96

Bluetooth

BT				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	7.03	5.05
	39	2441	7.19	5.24
	78	2480	6.92	4.92
$\pi/4$ -QPSK(2Mbps)	0	2402	7.71	5.90
	39	2441	7.96	6.25
	78	2480	7.61	5.77
8DPSK(3Mbps)	0	2402	7.81	6.04
	39	2441	8.10	6.46
	78	2480	7.71	5.90

BLE

BLE				
Mode	Channel Number	Frequency (MHz)	Average Power (dBm)	Output Power (mW)
GFSK(1Mbps)	0	2402	-1.22	0.76
	19	2440	-0.67	0.86
	39	2480	-1.59	0.69



WLAN (5.2Gband)

5.2G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	36	5180	15.57	36.06
	40	5200	15.42	34.83
	48	5240	14.82	30.34
802.11 n-HT20	36	5180	14.59	28.77
	40	5200	13.47	22.23
	48	5240	12.88	19.41
802.11 n-HT40	38	5190	15.37	34.43
	46	5230	14.13	25.88
802.11ac-VHT20	36	5180	13.60	22.91
	40	5200	12.50	17.78
	48	5240	11.87	15.38
802.11ac-VHT40	38	5190	14.58	28.71
	46	5230	14.10	25.70
802.11ac-VHT80	42	5210	13.80	23.99

WLAN (5.3G band)

5.3G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	52	5260	15.04	31.92
	60	5300	16.52	44.87
	64	5320	15.76	37.67
802.11 n-HT20	52	5260	14.00	25.12
	60	5300	13.84	24.21
	64	5320	12.37	17.26
802.11 n-HT40	54	5270	13.79	23.93
	62	5310	13.78	23.88
802.11ac-VHT20	52	5260	13.06	20.23
	60	5300	11.92	15.56
	64	5320	11.48	14.06
802.11ac-VHT40	54	5270	12.76	18.88
	62	5310	12.78	18.97
802.11ac-VHT80	58	5290	13.26	21.18



WLAN (5.6G band)

5.6G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	100	5500	12.21	16.63
	116	5580	12.82	19.14
	140	5700	12.83	19.19
802.11 n-HT20	100	5500	9.01	7.96
	116	5580	9.26	8.43
	140	5700	9.77	9.48
802.11 n-HT40	102	5510	10.32	10.76
	110	5550	9.54	8.99
	134	5670	10.76	11.91
802.11ac-VHT20	100	5500	9.88	9.73
	116	5580	9.16	8.24
	140	5700	10.50	11.22
802.11ac-VHT40	102	5510	10.14	10.33
	110	5550	10.36	10.86
	134	5670	12.42	17.46
802.11ac-VHT80	106	5530	9.78	9.51
	122	5610	10.63	11.56

WLAN (5.8G band)

5.8G WLAN				
Mode	Channel Number	Frequency (MHz)	Output Power (dBm)	Output Power (mW)
802.11a20	149	5745	13.19	20.84
	157	5785	12.44	17.54
	165	5825	12.41	17.42
802.11 n-HT20	149	5745	10.08	10.19
	157	5785	11.12	12.94
	165	5825	11.05	12.74
802.11 n-HT40	151	5755	11.64	14.59
	159	5795	11.86	15.35
802.11ac-VHT20	149	5745	10.87	12.22
	157	5785	11.66	14.66
	165	5825	10.84	12.13
802.11ac-VHT40	151	5755	11.58	14.39
	159	5795	11.73	14.89
802.11ac-VHT80	155	5775	12.23	16.71

NFC

Field strength(dBuV/m)	ERP(dBm)
65.14	-30.06

Note: The power of this EUT NFC is -30.06dBm (0.00098mW), 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	22.88	23.01	23.01
1.4	1	2		23.00	23.05	23.08
1.4	1	5		22.92	22.93	23.00
1.4	3	0		22.95	22.93	23.00
1.4	3	1		22.96	22.98	23.05
1.4	3	2		22.92	22.91	22.99
1.4	6	0		21.88	21.93	21.97
1.4	1	0		16-QAM	21.90	22.28
1.4	1	2	21.95		22.41	22.19
1.4	1	5	21.85		22.17	22.17
1.4	3	0	22.15		22.11	22.23
1.4	3	1	22.19		22.20	22.25
1.4	3	2	22.14		22.11	22.23
1.4	6	0	21.07		21.21	21.17
3	1	0	QPSK	22.89	23.07	23.05
3	1	7		23.13	23.12	23.11
3	1	14		22.82	23.01	23.07
3	8	0		21.93	22.06	22.04
3	8	4		21.93	22.02	22.02
3	8	7		21.87	21.96	22.01
3	15	0		21.97	21.97	22.00
3	1	0	16-QAM	22.46	22.30	22.07
3	1	7		22.31	22.21	22.03
3	1	14		22.28	22.28	21.94
3	8	0		20.93	21.02	21.05
3	8	4		20.97	21.05	21.07
3	8	7		20.90	20.96	21.05
3	15	0		20.91	20.93	21.10



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.05	23.08	23.22
5	1	12		22.87	22.94	23.04
5	1	24		22.93	22.94	23.03
5	12	0		21.94	22.04	22.13
5	12	6		21.87	21.98	22.05
5	12	11		21.97	22.00	22.04
5	25	0		21.95	22.01	22.04
5	1	0	16-QAM	22.54	22.54	22.55
5	1	12		22.41	22.37	22.36
5	1	24		22.44	22.42	22.38
5	12	0		20.96	21.02	21.20
5	12	6		20.93	20.92	21.12
5	12	11		20.96	20.97	21.07
5	25	0		20.88	21.01	21.04
10	1	0	QPSK	22.94	23.10	23.17
10	1	24		22.94	23.25	23.02
10	1	49		23.04	23.13	23.20
10	25	0		21.86	21.90	21.99
10	25	12		21.86	21.94	21.96
10	25	24		21.91	21.90	21.98
10	50	0		21.91	21.96	22.06
10	1	0	16-QAM	22.38	22.35	21.98
10	1	24		22.38	22.15	21.89
10	1	49		22.43	22.22	21.97
10	25	0		20.84	20.97	21.05
10	25	12		20.92	20.94	20.97
10	25	24		20.99	20.96	21.00
10	50	0		20.90	20.98	21.03



LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.95	23.17	23.27
15	1	37		23.03	22.99	23.22
15	1	74		23.06	23.11	23.31
15	36	0		21.90	22.05	22.08
15	36	18		21.93	22.04	22.14
15	36	39		21.88	21.93	22.09
15	75	0		21.86	21.97	22.10
15	1	0	16-QAM	22.40	22.25	22.35
15	1	38		22.19	22.17	22.21
15	1	75		22.55	22.23	22.40
15	36	0		20.91	21.07	21.05
15	36	18		20.90	21.09	21.15
15	36	39		20.88	21.00	21.08
15	75	0		20.91	20.99	21.17
20	1	0	QPSK	23.38	23.63	23.50
20	1	49		23.34	23.59	23.63
20	1	99		23.24	23.25	23.37
20	50	0		22.37	22.51	22.53
20	50	24		22.47	22.53	22.58
20	50	49		22.42	22.30	22.41
20	100	0		22.40	22.29	22.48
20	1	0	16-QAM	22.72	22.86	22.76
20	1	49		22.64	22.88	22.79
20	1	99		22.66	22.50	22.57
20	50	0		21.35	21.44	21.62
20	50	24		21.54	21.47	21.65
20	50	49		21.45	21.29	21.46
20	100	0		21.46	21.35	21.55



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.38	22.59	22.43
1.4	1	2		22.50	22.68	22.49
1.4	1	5		22.34	22.59	22.38
1.4	3	0		22.26	22.60	22.37
1.4	3	1		22.33	22.64	22.41
1.4	3	2		22.26	22.59	22.38
1.4	6	0		21.32	21.56	21.39
1.4	1	0	16-QAM	21.42	21.72	21.24
1.4	1	2		21.46	21.76	21.34
1.4	1	5		21.46	21.76	21.30
1.4	3	0		21.48	21.84	21.54
1.4	3	1		21.52	21.88	21.58
1.4	3	2		21.46	21.84	21.53
1.4	6	0		20.46	20.71	20.52
3	1	0	QPSK	22.29	22.61	22.41
3	1	7		22.54	22.66	22.56
3	1	14		22.23	22.64	22.42
3	8	0		21.32	21.63	21.39
3	8	4		21.35	21.64	21.41
3	8	7		21.31	21.63	21.40
3	15	0		21.37	21.63	21.40
3	1	0	16-QAM	21.70	21.81	21.27
3	1	7		21.64	21.70	21.22
3	1	14		21.67	21.81	21.23
3	8	0		20.38	20.63	20.39
3	8	4		20.38	20.64	20.42
3	8	7		20.31	20.63	20.38
3	15	0		20.40	20.57	20.43



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.41	22.57	22.45
5	1	12		22.26	22.49	22.30
5	1	24		22.32	22.45	22.28
5	12	0		21.34	21.51	21.39
5	12	6		21.35	21.50	21.25
5	12	11		21.36	21.51	21.30
5	25	0		21.37	21.52	21.28
5	1	0	16-QAM	21.95	21.94	21.77
5	1	12		21.83	21.80	21.60
5	1	24		21.95	21.84	21.62
5	12	0		20.41	20.46	20.45
5	12	6		20.36	20.50	20.27
5	12	11		20.32	20.48	20.31
5	25	0		20.32	20.56	20.22
10	1	0	QPSK	22.53	22.68	22.66
10	1	24		22.29	22.45	22.32
10	1	49		22.79	22.94	22.84
10	25	0		21.36	21.47	21.35
10	25	12		21.43	21.51	21.33
10	25	24		21.42	21.58	21.38
10	50	0		21.43	21.59	21.41
10	1	0	16-QAM	21.91	21.83	21.59
10	1	24		21.73	21.61	21.15
10	1	49		22.26	22.08	21.66
10	25	0		20.38	20.47	20.33
10	25	12		20.42	20.48	20.32
10	25	24		20.49	20.58	20.37
10	50	0		20.49	20.59	20.37



LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.08	22.24	22.38
15	1	37		21.95	22.49	22.23
15	1	74		22.21	22.34	22.25
15	36	0		21.18	21.33	21.25
15	36	18		21.16	21.45	21.32
15	36	39		21.20	21.33	21.24
15	75	0		21.13	21.37	21.28
15	1	0	16-QAM	21.52	21.44	21.48
15	1	38		21.43	21.46	21.41
15	1	75		21.66	21.52	21.37
15	36	0		20.18	20.38	20.19
15	36	18		20.16	20.49	20.26
15	36	39		20.23	20.36	20.18
15	75	0		20.09	20.33	20.31
20	1	0	QPSK	22.31	22.59	22.58
20	1	49		22.66	22.97	22.81
20	1	99		22.69	22.91	22.68
20	50	0		21.53	21.71	21.77
20	50	24		21.68	21.90	21.73
20	50	49		21.71	21.77	21.72
20	100	0		21.60	21.78	21.67
20	1	0	16-QAM	21.71	21.80	21.81
20	1	49		22.00	22.14	22.02
20	1	99		22.07	22.09	21.85
20	50	0		20.55	20.67	20.78
20	50	24		20.74	20.87	20.76
20	50	49		20.75	20.77	20.75
20	100	0		20.58	20.79	20.72



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.14	23.02	23.28
1.4	1	2		23.23	23.05	23.33
1.4	1	5		23.16	23.04	23.13
1.4	3	0		23.14	23.01	23.17
1.4	3	1		23.10	23.17	23.18
1.4	3	2		23.06	23.08	23.16
1.4	6	0		22.05	21.96	22.10
1.4	1	0	16-QAM	22.29	22.12	22.02
1.4	1	2		22.36	22.25	22.09
1.4	1	5		22.24	22.22	22.00
1.4	3	0		22.27	22.26	22.35
1.4	3	1		22.31	22.29	22.36
1.4	3	2		22.27	22.32	22.35
1.4	6	0		21.28	21.12	21.29
3	1	0	QPSK	23.07	22.95	23.24
3	1	7		23.19	23.02	23.34
3	1	14		23.10	23.11	23.19
3	8	0		22.09	22.02	22.17
3	8	4		22.07	22.01	22.23
3	8	7		22.01	22.03	22.22
3	15	0		22.05	21.99	22.27
3	1	0	16-QAM	22.54	22.22	22.09
3	1	7		22.52	22.16	22.08
3	1	14		22.53	22.35	22.01
3	8	0		21.11	21.03	21.14
3	8	4		21.07	21.04	21.20
3	8	7		21.01	21.04	21.28
3	15	0		21.09	20.96	21.28



LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.15	23.04	23.25
5	1	12		23.14	22.95	23.14
5	1	24		23.09	23.16	23.09
5	12	0		22.07	22.01	22.25
5	12	6		22.03	22.01	22.23
5	12	11		22.11	22.13	22.20
5	25	0		22.16	22.03	22.33
5	1	0	16-QAM	22.69	22.33	22.60
5	1	12		22.70	22.34	22.46
5	1	24		22.65	22.50	22.55
5	12	0		21.09	20.99	21.26
5	12	6		21.04	21.00	21.23
5	12	11		21.13	21.12	21.20
5	25	0		21.07	21.04	21.15
10	1	0	QPSK	23.28	23.11	23.36
10	1	24		23.03	23.02	23.20
10	1	49		23.40	23.54	23.05
10	25	0		22.14	22.06	22.24
10	25	12		22.12	22.07	22.25
10	25	24		22.17	22.25	22.34
10	50	0		22.11	22.06	22.33
10	1	0	16-QAM	22.70	22.37	22.30
10	1	24		22.41	22.17	22.11
10	1	49		22.73	22.70	22.02
10	25	0		21.13	21.03	21.20
10	25	12		21.07	21.06	21.22
10	25	24		21.23	21.25	21.38
10	50	0		21.08	21.13	21.35



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.10	21.95	21.76
5	1	12		21.97	21.91	21.65
5	1	24		21.90	21.88	21.71
5	12	0		21.07	20.99	20.74
5	12	6		21.12	20.97	20.68
5	12	11		20.99	20.94	20.69
5	25	0		21.06	20.92	20.70
5	1	0	16-QAM	21.45	21.27	21.21
5	1	12		21.27	21.17	21.12
5	1	24		21.25	21.21	21.19
5	12	0		20.03	20.00	19.71
5	12	6		20.06	20.01	19.71
5	12	11		19.94	19.91	19.72
5	25	0		20.06	19.89	19.67
10	1	0	QPSK	22.22	22.21	21.88
10	1	24		21.89	21.91	21.68
10	1	49		22.10	22.13	21.85
10	25	0		21.12	20.92	20.77
10	25	12		20.98	20.90	20.68
10	25	24		20.98	20.90	20.70
10	50	0		21.00	20.97	20.72
10	1	0	16-QAM	21.67	21.43	20.83
10	1	24		21.26	21.11	20.56
10	1	49		21.43	21.29	20.70
10	25	0		20.14	19.92	19.76
10	25	12		20.04	19.91	19.69
10	25	24		20.04	19.90	19.68
10	50	0		19.99	19.97	19.67



LTE Band 7 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.99	21.93	21.66
15	1	37		21.93	21.97	21.63
15	1	74		21.78	21.86	21.72
15	36	0		21.11	21.09	20.79
15	36	18		21.17	21.09	20.89
15	36	39		21.05	20.98	20.78
15	75	0		21.10	21.00	20.86
15	1	0	16-QAM	21.47	21.14	20.70
15	1	38		21.39	21.18	20.79
15	1	75		21.24	21.11	20.84
15	36	0		20.14	20.15	19.78
15	36	18		20.21	20.13	19.84
15	36	39		20.06	20.04	19.79
15	75	0		20.09	19.98	19.80
20	1	0	QPSK	22.62	22.58	22.17
20	1	49		22.60	22.65	22.10
20	1	99		22.41	22.56	22.20
20	50	0		21.62	21.57	21.37
20	50	24		21.69	21.53	21.29
20	50	49		21.54	21.45	21.28
20	100	0		21.61	21.52	21.27
20	1	0	16-QAM	22.01	21.70	21.52
20	1	49		21.91	21.77	21.44
20	1	99		21.77	21.63	21.50
20	50	0		20.68	20.55	20.35
20	50	24		20.71	20.52	20.34
20	50	49		20.59	20.44	20.33
20	100	0		20.63	20.44	20.27



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.99	23.25	23.00
1.4	1	2		23.11	23.28	23.08
1.4	1	5		23.00	23.23	22.94
1.4	3	0		22.92	23.26	22.88
1.4	3	1		23.00	23.30	23.00
1.4	3	2		22.87	23.24	22.91
1.4	6	0		21.83	22.18	22.00
1.4	1	0	16-QAM	22.09	22.39	21.79
1.4	1	2		22.21	22.38	21.87
1.4	1	5		22.08	22.41	21.75
1.4	3	0		22.12	22.51	22.05
1.4	3	1		22.15	22.50	22.18
1.4	3	2		22.07	22.50	22.15
1.4	6	0		21.05	21.36	21.12
3	1	0	QPSK	22.91	23.14	23.06
3	1	7		23.35	23.35	23.08
3	1	14		23.04	23.18	22.94
3	8	0		21.90	22.27	22.09
3	8	4		21.97	22.25	21.99
3	8	7		21.93	22.28	22.04
3	15	0		21.95	22.26	22.01
3	1	0	16-QAM	22.33	22.35	21.89
3	1	7		22.40	22.35	21.89
3	1	14		22.48	22.37	21.76
3	8	0		20.94	21.29	21.02
3	8	4		21.03	21.23	21.01
3	8	7		20.99	21.26	21.00
3	15	0		21.04	21.18	21.07



LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.96	23.25	23.19
5	1	12		22.96	23.22	22.99
5	1	24		23.06	23.25	22.88
5	12	0		21.93	22.21	22.16
5	12	6		22.01	22.27	22.07
5	12	11		22.06	22.29	21.99
5	25	0		22.02	22.30	22.11
5	1	0	16-QAM	22.47	22.52	22.46
5	1	12		22.57	22.57	22.29
5	1	24		22.68	22.60	22.25
5	12	0		20.98	21.16	21.18
5	12	6		21.00	21.20	21.07
5	12	11		21.10	21.19	21.03
5	25	0		20.97	21.29	21.08
10	1	0	QPSK	23.24	23.41	23.58
10	1	24		23.11	23.23	23.26
10	1	49		23.48	23.30	23.30
10	25	0		22.16	22.27	22.31
10	25	12		22.21	22.29	22.29
10	25	24		22.26	22.32	22.20
10	50	0		22.27	22.37	22.28
10	1	0	16-QAM	22.65	22.58	22.42
10	1	24		22.54	22.44	22.11
10	1	49		22.81	22.48	22.10
10	25	0		21.15	21.25	21.31
10	25	12		21.18	21.28	21.24
10	25	24		21.28	21.28	21.18
10	50	0		21.19	21.34	21.27



LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.89	23.10	22.90
5	1	12		22.96	22.96	22.99
5	1	24		23.02	22.90	22.93
5	12	0		22.05	22.10	21.90
5	12	6		22.08	22.05	21.95
5	12	11		21.94	21.99	21.93
5	25	0		22.01	22.08	21.92
5	1	0	16-QAM	22.26	22.46	22.45
5	1	12		22.43	22.36	22.42
5	1	24		22.36	22.27	22.46
5	12	0		20.93	21.14	20.91
5	12	6		21.00	21.04	20.95
5	12	11		20.88	21.03	20.89
5	25	0		21.08	21.02	20.92
10	1	0	QPSK	/	23.25	/
10	1	24		/	22.99	/
10	1	49		/	23.16	/
10	25	0		/	22.19	/
10	25	12		/	22.08	/
10	25	24		/	22.13	/
10	50	0		/	22.26	/
10	1	0	16-QAM	/	22.63	/
10	1	24		/	22.49	/
10	1	49		/	22.56	/
10	25	0		/	21.19	/
10	25	12		/	21.06	/
10	25	24		/	21.11	/
10	50	0		/	21.19	/



LTE Band 14 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.67	22.71	22.88
5	1	12		22.83	22.78	22.95
5	1	24		22.81	22.80	23.04
5	12	0		21.69	21.66	21.82
5	12	6		21.67	21.74	21.88
5	12	11		21.69	21.73	21.92
5	25	0		21.77	21.74	21.91
5	1	0	16-QAM	21.93	22.05	22.46
5	1	12		21.99	22.04	22.45
5	1	24		22.14	22.15	22.57
5	12	0		20.61	20.67	20.84
5	12	6		20.61	20.70	20.88
5	12	11		20.60	20.74	20.94
5	25	0		20.74	20.71	20.83
10	1	0	QPSK	/	22.97	/
10	1	24		/	22.72	/
10	1	49		/	23.06	/
10	25	0		/	21.85	/
10	25	12		/	21.78	/
10	25	24		/	21.80	/
10	50	0		/	21.85	/
10	1	0	16-QAM	/	22.48	/
10	1	24		/	22.24	/
10	1	49		/	22.60	/
10	25	0		/	20.85	/
10	25	12		/	20.85	/
10	25	24		/	20.91	/
10	50	0		/	20.86	/



LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.60	23.26	23.23
5	1	12		23.56	23.14	23.12
5	1	24		23.34	23.12	23.12
5	12	0		22.55	22.21	22.26
5	12	6		22.51	22.16	22.19
5	12	11		22.51	22.06	22.10
5	25	0		22.53	22.19	22.24
5	1	0	16-QAM	22.92	22.60	22.81
5	1	12		22.76	22.49	22.72
5	1	24		22.66	22.47	22.64
5	12	0		21.51	21.22	21.29
5	12	6		21.45	21.18	21.22
5	12	11		21.42	21.08	21.11
5	25	0		21.52	21.11	21.15
10	1	0	QPSK	23.71	23.73	23.74
10	1	24		23.18	23.14	23.24
10	1	49		23.21	23.19	23.26
10	25	0		22.38	22.33	22.25
10	25	12		22.26	22.23	22.27
10	25	24		22.18	22.17	22.16
10	50	0		22.35	22.24	22.26
10	1	0	16-QAM	23.15	22.93	22.56
10	1	24		22.61	22.30	22.11
10	1	49		22.68	22.36	22.06
10	25	0		21.38	21.28	21.23
10	25	12		21.30	21.19	21.23
10	25	24		21.21	21.11	21.16
10	50	0		21.36	21.27	21.25



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.97	22.95	22.82
1.4	1	2		23.02	22.91	22.83
1.4	1	5		22.97	22.95	22.69
1.4	3	0		22.93	22.87	22.69
1.4	3	1		22.95	22.91	22.63
1.4	3	2		22.92	22.83	22.66
1.4	6	0		21.97	21.87	21.68
1.4	1	0	16-QAM	22.17	22.06	21.63
1.4	1	2		22.28	22.03	21.64
1.4	1	5		22.14	22.10	21.64
1.4	3	0		22.18	22.11	21.84
1.4	3	1		22.23	22.14	21.83
1.4	3	2		22.14	22.08	21.88
1.4	6	0		21.14	21.01	20.81
3	1	0	QPSK	22.94	22.91	22.90
3	1	7		22.96	22.88	22.87
3	1	14		22.85	22.89	22.75
3	8	0		21.99	21.97	21.81
3	8	4		22.02	21.94	21.86
3	8	7		21.96	21.96	21.71
3	15	0		22.01	21.88	21.84
3	1	0	16-QAM	22.45	22.18	21.78
3	1	7		22.35	22.15	21.72
3	1	14		22.34	22.10	21.62
3	8	0		21.04	20.97	20.75
3	8	4		21.04	20.95	20.77
3	8	7		20.96	20.92	20.73
3	15	0		21.00	20.87	20.84



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.08	23.06	22.93
5	1	12		23.01	22.88	22.71
5	1	24		22.99	22.94	22.65
5	12	0		22.00	21.92	21.87
5	12	6		22.01	21.94	21.81
5	12	11		22.04	21.94	21.78
5	25	0		22.02	21.96	21.89
5	1	0	16-QAM	22.62	22.37	22.30
5	1	12		22.40	22.21	22.13
5	1	24		22.49	22.27	22.04
5	12	0		21.02	20.84	20.87
5	12	6		21.01	20.85	20.79
5	12	11		21.00	20.85	20.71
5	25	0		20.99	20.97	20.76
10	1	0	QPSK	23.07	23.08	23.06
10	1	24		22.93	22.87	22.95
10	1	49		23.15	23.20	22.94
10	25	0		22.02	21.89	21.92
10	25	12		22.07	21.94	21.90
10	25	24		22.10	21.98	21.87
10	50	0		22.04	22.01	21.91
10	1	0	16-QAM	22.55	22.18	22.08
10	1	24		22.36	22.07	21.78
10	1	49		22.57	22.37	21.66
10	25	0		21.03	20.89	20.91
10	25	12		21.10	20.95	20.89
10	25	24		21.20	20.96	20.86
10	50	0		21.09	20.94	20.87



LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.85	22.96	23.14
15	1	37		22.65	22.95	22.97
15	1	74		22.94	22.98	22.98
15	36	0		21.91	21.96	22.12
15	36	18		22.06	22.03	22.11
15	36	39		22.06	22.10	22.13
15	75	0		21.93	22.02	22.17
15	1	0	16-QAM	22.30	22.11	22.13
15	1	38		22.07	22.06	22.22
15	1	75		22.40	22.23	22.06
15	36	0		21.00	21.01	21.07
15	36	18		21.02	21.06	21.06
15	36	39		21.07	21.13	21.15
15	75	0		20.91	20.97	21.25
20	1	0	QPSK	23.25	23.54	23.58
20	1	49		23.30	23.52	23.58
20	1	99		23.15	23.29	23.19
20	50	0		22.39	22.42	22.66
20	50	24		22.41	22.44	22.62
20	50	49		22.40	22.46	22.57
20	100	0		22.35	22.47	22.80
20	1	0	16-QAM	22.58	22.82	22.82
20	1	49		22.65	22.80	22.92
20	1	99		22.50	22.54	22.40
20	50	0		21.43	21.36	21.72
20	50	24		21.42	21.41	21.64
20	50	49		21.46	21.44	21.53
20	100	0		21.34	21.39	21.77



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.06	22.97	22.92
1.4	1	2		23.15	23.12	23.07
1.4	1	5		23.03	23.00	22.95
1.4	3	0		23.00	22.97	22.92
1.4	3	1		23.04	23.06	22.92
1.4	3	2		22.97	23.03	22.90
1.4	6	0		22.05	22.04	21.90
1.4	1	0	16-QAM	22.27	22.17	21.76
1.4	1	2		22.31	22.26	21.77
1.4	1	5		22.26	22.21	21.82
1.4	3	0		22.26	22.20	22.10
1.4	3	1		22.25	22.31	22.09
1.4	3	2		22.18	22.29	22.09
1.4	6	0		21.18	21.22	21.03
3	1	0	QPSK	22.98	22.97	23.02
3	1	7		23.08	23.07	23.17
3	1	14		22.86	22.98	23.06
3	8	0		22.01	22.01	22.00
3	8	4		22.03	22.06	22.01
3	8	7		22.01	22.07	21.98
3	15	0		22.01	22.01	22.02
3	1	0	16-QAM	22.48	22.20	21.80
3	1	7		22.53	22.19	21.79
3	1	14		22.37	22.23	21.79
3	8	0		21.01	20.97	20.98
3	8	4		21.05	21.05	20.97
3	8	7		21.04	21.08	20.96
3	15	0		21.02	20.96	21.03



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.07	22.96	22.99
5	1	12		22.94	23.00	22.91
5	1	24		22.95	23.05	22.94
5	12	0		22.02	22.04	22.04
5	12	6		21.94	22.02	22.03
5	12	11		21.94	22.05	21.99
5	25	0		21.97	22.02	22.06
5	1	0	16-QAM	22.64	22.29	22.36
5	1	12		22.65	22.42	22.19
5	1	24		22.55	22.44	22.26
5	12	0		21.06	21.03	21.05
5	12	6		20.93	20.96	21.01
5	12	11		20.97	21.00	20.98
5	25	0		20.90	21.00	20.98
10	1	0	QPSK	23.28	23.19	23.19
10	1	24		22.91	23.03	23.03
10	1	49		23.27	23.39	23.31
10	25	0		21.96	22.04	22.11
10	25	12		22.00	22.07	22.12
10	25	24		22.10	22.22	22.08
10	50	0		22.02	22.07	22.08
10	1	0	16-QAM	22.76	22.41	22.13
10	1	24		22.38	22.26	21.92
10	1	49		22.65	22.54	22.24
10	25	0		21.00	21.00	21.14
10	25	12		21.01	21.00	21.05
10	25	24		21.12	21.16	21.10
10	50	0		20.98	21.08	21.07



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.16	23.08	23.11
15	1	37		22.68	22.77	22.91
15	1	74		23.37	23.49	23.39
15	36	0		22.10	22.11	22.21
15	36	18		21.88	21.97	22.08
15	36	39		21.86	21.94	21.94
15	75	0		21.96	22.02	22.04
15	1	0	16-QAM	22.68	22.33	22.25
15	1	38		22.11	22.27	22.08
15	1	75		22.84	22.68	22.50
15	36	0		21.11	21.18	21.18
15	36	18		20.95	21.06	21.03
15	36	39		20.88	20.97	21.01
15	75	0		20.92	21.02	21.08



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.47	23.24	23.06
1.4	1	2		23.62	23.25	23.10
1.4	1	5		23.46	23.17	23.00
1.4	3	0		23.43	23.18	23.00
1.4	3	1		23.46	23.19	23.04
1.4	3	2		23.44	23.16	23.04
1.4	6	0		22.42	22.19	22.01
1.4	1	0	16-QAM	22.66	22.38	21.96
1.4	1	2		22.70	22.43	22.02
1.4	1	5		22.62	22.40	21.98
1.4	3	0		22.65	22.58	22.21
1.4	3	1		22.64	22.59	22.21
1.4	3	2		22.61	22.58	22.23
1.4	6	0		21.59	21.45	21.21
3	1	0	QPSK	23.47	23.29	23.13
3	1	7		23.49	23.35	23.24
3	1	14		23.31	23.26	23.00
3	8	0		22.53	22.27	22.04
3	8	4		22.56	22.29	22.01
3	8	7		22.51	22.31	21.98
3	15	0		22.53	22.31	22.01
3	1	0	16-QAM	22.99	22.51	22.07
3	1	7		22.94	22.41	21.95
3	1	14		22.75	22.46	21.96
3	8	0		21.56	21.27	21.07
3	8	4		21.52	21.30	21.03
3	8	7		21.47	21.25	21.00
3	15	0		21.57	21.25	21.11



LTE Band 26 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.55	23.39	23.30
5	1	12		23.31	23.22	23.07
5	1	24		23.34	23.26	23.09
5	12	0		22.49	22.30	22.25
5	12	6		22.47	22.29	22.11
5	12	11		22.38	22.24	22.14
5	25	0		22.39	22.29	22.16
5	1	0	16-QAM	23.13	22.71	22.63
5	1	12		22.93	22.71	22.39
5	1	24		22.88	22.61	22.47
5	12	0		21.51	21.26	21.31
5	12	6		21.50	21.23	21.19
5	12	11		21.34	21.22	21.14
5	25	0		21.36	21.29	21.11
10	1	0	QPSK	N/A	23.73	N/A
10	1	24		N/A	23.21	N/A
10	1	49		N/A	23.34	N/A
10	25	0		N/A	22.41	N/A
10	25	12		N/A	22.31	N/A
10	25	24		N/A	22.35	N/A
10	50	0		N/A	22.38	N/A
10	1	0	16-QAM	N/A	23.18	N/A
10	1	24		N/A	22.65	N/A
10	1	49		N/A	22.87	N/A
10	25	0		N/A	21.41	N/A
10	25	12		N/A	21.33	N/A
10	25	24		N/A	21.36	N/A
10	50	0		N/A	21.38	N/A



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.09	21.71	21.39
5	1	12		22.02	21.65	21.24
5	1	24		22.00	21.52	21.22
5	12	0		21.05	20.59	20.41
5	12	6		21.05	20.58	20.39
5	12	11		21.03	20.54	20.36
5	25	0		21.03	20.53	20.40
5	1	0	16-QAM	21.62	21.03	20.68
5	1	12		21.58	20.87	20.64
5	1	24		21.60	20.89	20.62
5	12	0		20.05	19.59	19.46
5	12	6		20.05	19.53	19.43
5	12	11		20.01	19.50	19.36
5	25	0		20.00	19.53	19.33
10	1	0	QPSK	22.18	21.88	21.59
10	1	24		21.99	21.60	21.38
10	1	49		22.00	21.56	21.46
10	25	0		21.06	20.62	20.39
10	25	12		21.04	20.52	20.41
10	25	24		21.02	20.50	20.37
10	50	0		21.05	20.55	20.41
10	1	0	16-QAM	21.70	20.98	20.68
10	1	24		21.48	20.64	20.48
10	1	49		21.54	20.68	20.52
10	25	0		20.05	19.62	19.37
10	25	12		20.04	19.53	19.38
10	25	24		20.04	19.54	19.37
10	50	0		20.02	19.58	19.40



LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	21.84	21.68	21.63
15	1	37		21.88	21.28	22.17
15	1	74		21.69	21.34	21.87
15	36	0		21.00	20.60	20.46
15	36	18		21.02	20.56	20.42
15	36	39		20.87	20.49	20.44
15	75	0		20.97	20.51	20.42
15	1	0	16-QAM	21.46	20.78	20.75
15	1	38		21.67	20.86	20.95
15	1	75		21.26	20.52	20.64
15	36	0		20.03	19.68	19.47
15	36	18		20.05	19.63	19.38
15	36	39		19.92	19.52	19.39
15	75	0		19.96	19.47	19.43
20	1	0	QPSK	21.98	21.82	21.69
20	1	49		22.20	21.64	21.51
20	1	99		21.80	21.54	21.44
20	50	0		21.00	20.61	20.57
20	50	24		20.98	20.52	20.46
20	50	49		20.82	20.42	20.45
20	100	0		20.95	20.48	20.49
20	1	0	16-QAM	21.28	21.20	20.84
20	1	49		21.25	20.97	20.56
20	1	99		21.11	20.87	20.55
20	50	0		20.03	19.60	19.59
20	50	24		20.05	19.53	19.51
20	50	49		19.89	19.43	19.49
20	100	0		19.95	19.50	19.47



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.71	22.81	23.42
1.4	1	2		22.68	22.89	23.54
1.4	1	5		22.56	22.77	23.46
1.4	3	0		22.61	22.73	23.44
1.4	3	1		22.57	22.78	23.47
1.4	3	2		22.59	22.69	23.44
1.4	6	0		21.58	21.73	22.49
1.4	1	0		16-QAM	21.45	21.93
1.4	1	2	21.57		22.04	22.74
1.4	1	5	21.55		21.96	22.74
1.4	3	0	21.74		21.97	22.76
1.4	3	1	21.82		21.98	22.76
1.4	3	2	21.79		21.95	22.74
1.4	6	0	20.70		20.90	21.64
3	1	0	QPSK		22.55	22.81
3	1	7		22.63	22.80	23.68
3	1	14		22.50	22.72	23.52
3	8	0		21.63	21.79	22.53
3	8	4		21.60	21.78	22.55
3	8	7		21.61	21.77	22.48
3	15	0		21.61	21.76	22.53
3	1	0		16-QAM	21.96	22.00
3	1	7	21.91		22.03	22.43
3	1	14	21.89		21.96	22.36
3	8	0	20.64		20.77	21.48
3	8	4	20.61		20.83	21.50
3	8	7	20.57		20.77	21.47
3	15	0	20.66		20.69	21.54



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.71	22.88	23.51
5	1	12		22.77	22.71	23.50
5	1	24		22.53	22.77	23.42
5	12	0		21.62	21.80	22.56
5	12	6		21.58	21.80	22.54
5	12	11		21.58	21.79	22.51
5	25	0		21.57	21.80	22.52
5	1	0	16-QAM	22.17	22.22	22.92
5	1	12		22.03	22.05	22.78
5	1	24		22.06	22.12	22.83
5	12	0		20.66	20.74	21.62
5	12	6		20.59	20.75	21.56
5	12	11		20.59	20.75	21.53
5	25	0		20.60	20.78	21.50
10	1	0	QPSK	21.98	22.18	22.79
10	1	24		22.53	22.77	23.47
10	1	49		23.12	23.26	24.00
10	25	0		21.54	21.71	22.39
10	25	12		21.63	21.81	22.52
10	25	24		21.79	21.85	22.63
10	50	0		21.61	21.84	22.51
10	1	0	16-QAM	21.37	21.30	21.72
10	1	24		21.93	21.89	22.38
10	1	49		22.51	22.41	22.85
10	25	0		20.57	20.70	21.35
10	25	12		20.62	20.78	21.52
10	25	24		20.78	20.89	21.61
10	50	0		20.59	20.81	21.45



LTE Band 66 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.64	22.91	23.37
15	1	37		22.32	22.78	23.20
15	1	74		22.79	22.83	23.49
15	36	0		21.41	21.71	22.24
15	36	18		21.50	21.66	22.27
15	36	39		21.46	21.64	22.28
15	75	0		21.48	21.70	22.27
15	1	0	16-QAM	22.03	22.09	22.45
15	1	38		21.83	21.66	22.22
15	1	75		22.19	22.00	22.63
15	36	0		20.46	20.72	21.19
15	36	18		20.51	20.70	21.22
15	36	39		20.50	20.66	21.26
15	75	0		20.49	20.63	21.26
20	1	0	QPSK	22.76	23.04	23.25
20	1	49		22.97	23.26	23.66
20	1	99		23.53	23.70	24.20
20	50	0		21.94	22.05	22.51
20	50	24		22.04	22.18	22.72
20	50	49		22.18	22.25	22.81
20	100	0		22.02	22.14	22.64
20	1	0	16-QAM	21.95	22.24	22.54
20	1	49		22.29	22.45	23.01
20	1	99		22.89	22.93	23.51
20	50	0		20.99	21.02	21.54
20	50	24		21.05	21.13	21.73
20	50	49		21.22	21.19	21.87
20	100	0		20.98	21.16	21.62



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.45	23.44	23.31
5	1	12		23.49	23.48	23.15
5	1	24		23.45	23.48	23.17
5	12	0		22.39	22.59	22.31
5	12	6		22.39	22.53	22.24
5	12	11		22.41	22.59	22.26
5	25	0		22.39	22.60	22.27
5	1	0	16-QAM	22.72	22.80	22.84
5	1	12		22.75	22.72	22.83
5	1	24		22.74	22.87	22.78
5	12	0		21.36	21.59	21.27
5	12	6		21.38	21.56	21.19
5	12	11		21.38	21.52	21.23
5	25	0		21.44	21.48	21.21
10	1	0	QPSK	23.65	23.81	23.66
10	1	24		23.33	23.53	23.31
10	1	49		23.58	23.67	23.25
10	25	0		22.50	22.59	22.40
10	25	12		22.43	22.62	22.39
10	25	24		22.47	22.57	22.30
10	50	0		22.46	22.60	22.40
10	1	0	16-QAM	23.04	23.03	22.54
10	1	24		22.91	22.76	22.24
10	1	49		23.00	22.86	21.90
10	25	0		21.52	21.59	21.40
10	25	12		21.42	21.54	21.34
10	25	24		21.49	21.55	21.29
10	50	0		21.43	21.65	21.37



LTE Band 71 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.76	23.74	23.71
15	1	37		23.43	23.24	23.28
15	1	74		23.49	23.48	22.68
15	36	0		22.68	22.65	22.52
15	36	18		22.49	22.49	22.26
15	36	39		22.50	22.41	22.21
15	75	0		22.63	22.55	22.34
15	1	0	16-QAM	23.16	22.96	22.82
15	1	38		22.71	22.63	22.49
15	1	75		22.77	22.63	21.94
15	36	0		21.74	21.72	21.43
15	36	18		21.58	21.52	21.23
15	36	39		21.56	21.45	21.20
15	75	0		21.62	21.54	21.39
20	1	0	QPSK	23.75	23.89	23.76
20	1	49		23.87	23.99	23.77
20	1	99		23.67	23.81	23.07
20	50	0		23.19	23.05	22.98
20	50	24		22.95	23.01	22.80
20	50	49		22.96	22.92	22.75
20	100	0		23.10	23.02	22.91
20	1	0	16-QAM	23.12	23.09	22.99
20	1	49		23.12	23.15	22.96
20	1	99		23.04	23.04	22.34
20	50	0		22.21	22.06	22.04
20	50	24		21.89	21.97	21.80
20	50	49		22.00	21.87	21.79
20	100	0		22.12	22.03	21.90

11. EUT and Test Setup Photo

11.1 EUT Photos

Front of face



Back side



Right Edge



Left Edge



Top Edge



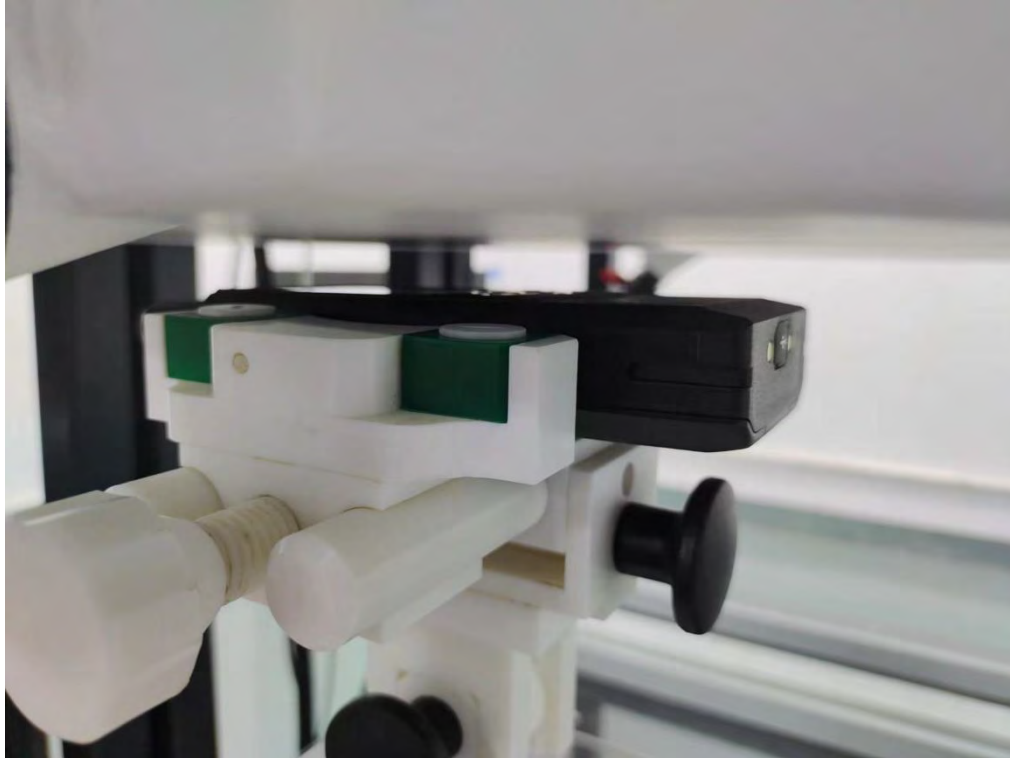
Bottom Edge



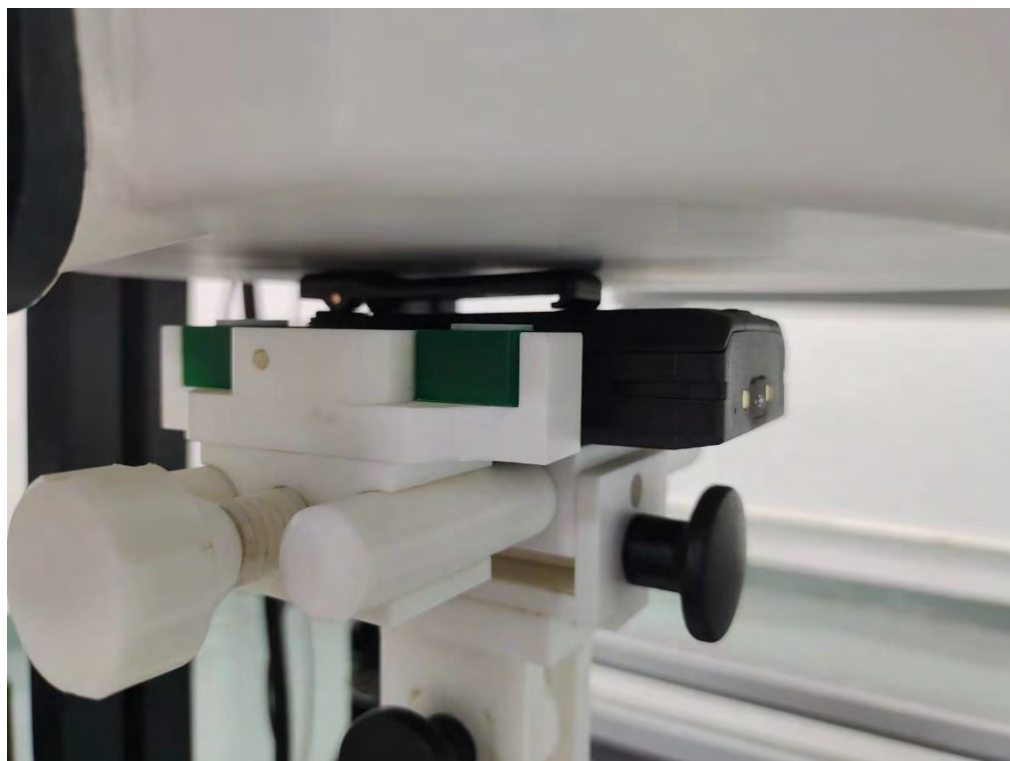


11.2 Setup Photos

Front of face (separation distance is 10mm)



Body Back side (separation distance 0mm)

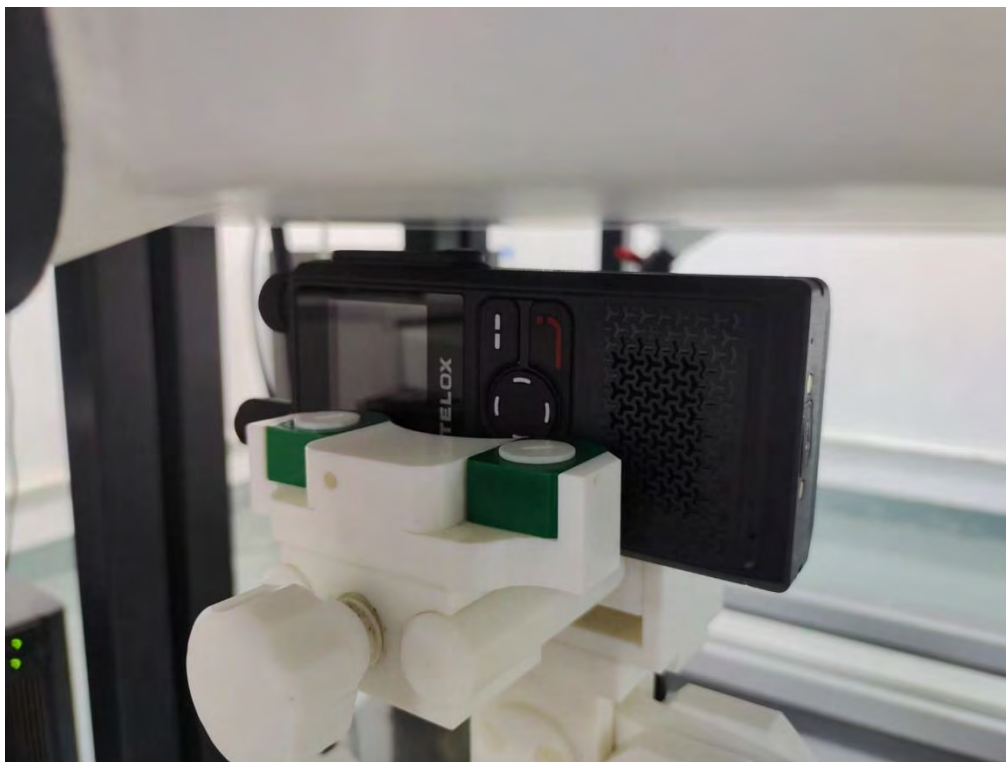




Body Left side (separation distance is 10mm)



Body Right side (separation distance is 10mm)





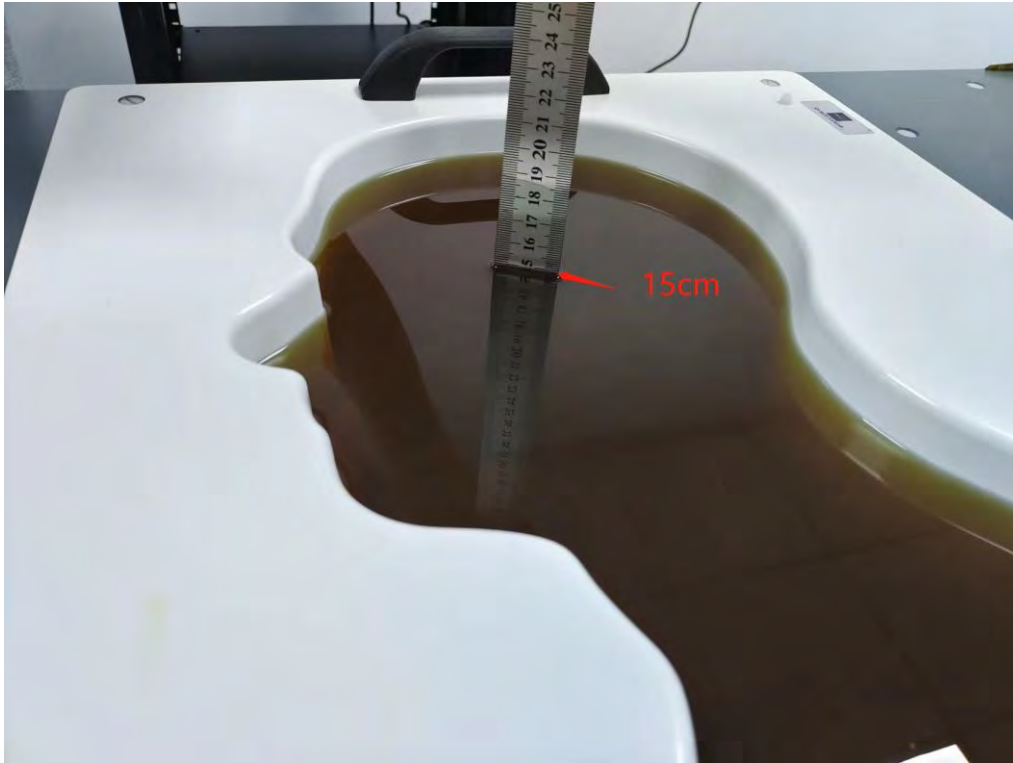
Body Top side (separation distance is 10mm)



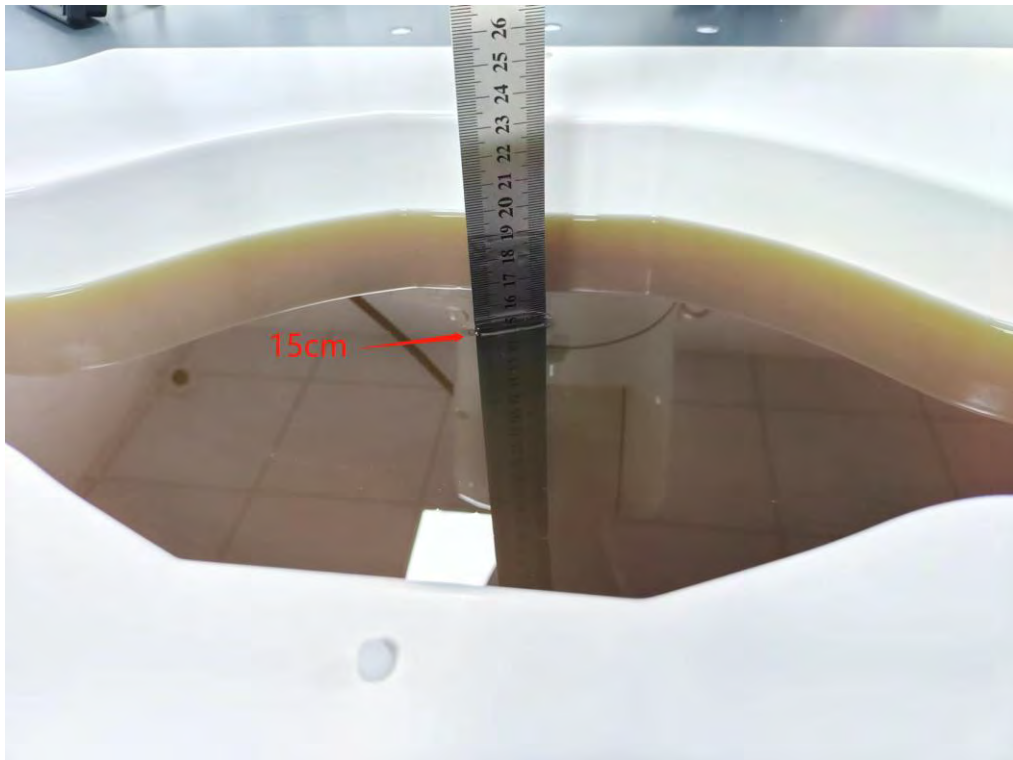
Body Bottom side (separation distance is 10mm)



Liquid depth (15 cm)



Liquid depth (15 cm)





12. SAR Result Summary

12.1 Body-worn and Hotspot SAR

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 of face	1880	0.457	-3.50	24.00	23.63	0.498	/
			50	24	Front of face	1900	0.336	-1.76	23.00	22.58	0.370	/
			1	0	Back Side	1880	0.583	0.84	24.00	23.63	0.635	/
			50	24	Back Side	1900	0.441	-1.37	23.00	22.58	0.486	/
			1	0	Left Side	1880	0.229	3.40	24.00	23.63	0.249	/
			50	24	Left Side	1900	0.173	-2.34	23.00	22.58	0.191	/
			1	0	Right Side	1880	0.258	3.15	24.00	23.63	0.281	/
			50	24	Right Side	1900	0.216	2.40	23.00	22.58	0.238	/
			1	0	Bottom Side	1860	0.693	-0.73	24.00	23.38	0.799	/
			1	0	Bottom Side	1880	0.806	-2.36	24.00	23.63	0.878	1
			1	0	Bottom Side	1900	0.780	-2.78	24.00	23.50	0.875	/
			50	24	Bottom Side	1900	0.701	3.01	23.00	22.58	0.772	/
LTE Band 4	20M	QPSK	1	49	Front of face	1732.5	0.458	-3.66	23.00	22.97	0.461	/
			50	24	Front of face	1732.5	0.356	1.29	22.00	21.90	0.364	/
			1	49	Back Side	1732.5	0.444	0.98	23.00	22.97	0.447	/
			50	24	Back Side	1732.5	0.338	2.07	22.00	21.90	0.346	/
			1	49	Left Side	1732.5	0.207	1.80	23.00	22.97	0.208	/
			50	24	Left Side	1732.5	0.157	-3.90	22.00	21.90	0.161	/
			1	49	Right Side	1732.5	0.263	-0.09	23.00	22.97	0.265	/
			50	24	Right Side	1732.5	0.215	-1.50	22.00	21.90	0.220	/
			1	49	Bottom Side	1732.5	0.638	-2.35	23.00	22.97	0.642	2
			50	24	Bottom Side	1732.5	0.506	0.27	22.00	21.90	0.518	/
LTE Band 5	10M	QPSK	1	49	Front of face	836.5	0.537	3.08	24.00	23.54	0.597	/
			25	24	Front of face	844	0.403	3.17	22.50	22.34	0.418	/
			1	49	Back Side	836.5	0.691	-2.58	24.00	23.54	0.768	3
			25	24	Back Side	844	0.535	2.62	22.50	22.34	0.555	/
			1	49	Left Side	836.5	0.220	0.28	24.00	23.54	0.245	/
			25	24	Left Side	844	0.167	-0.88	22.50	22.34	0.173	/
			1	49	Right Side	836.5	0.131	1.93	24.00	23.54	0.146	/



			25	24	Right Side	844	0.098	-2.16	22.50	22.34	0.102	/
			1	49	Bottom Side	836.5	0.117	-3.50	24.00	23.54	0.130	/
			25	24	Bottom Side	844	0.069	0.34	22.50	22.34	0.072	/
LTE Band 7	20M	QPSK	1	49	Front of face	2535	0.737	-1.92	23.00	22.65	0.799	/
			50	24	Front of face	2510	0.583	3.15	22.00	21.69	0.626	/
			1	49	Back Side	2535	0.724	0.77	23.00	22.65	0.785	/
			50	24	Back Side	2510	0.546	2.69	22.00	21.69	0.586	/
			1	49	Left Side	2535	0.255	1.96	23.00	22.65	0.276	/
			50	24	Left Side	2510	0.194	2.83	22.00	21.69	0.208	/
			1	49	Right Side	2535	0.319	0.08	23.00	22.65	0.346	/
			50	24	Right Side	2510	0.261	-0.47	22.00	21.69	0.280	/
			1	49	Bottom Side	2510	0.903	3.29	23.00	22.60	0.990	/
			1	49	Bottom Side	2535	0.954	-2.47	23.00	22.65	1.034	4
			1	49	Bottom Side	2560	0.809	1.24	23.00	22.10	0.995	/
			50	24	Bottom Side	2510	0.721	0.14	22.00	21.69	0.774	/
LTE Band 12	10M	QPSK	1	0	Front of face	711	0.573	-1.74	24.00	23.58	0.631	/
			25	24	Front of face	707.5	0.443	-2.44	22.50	22.32	0.462	/
			1	0	Back Side	704	0.673	3.29	24.00	23.24	0.802	/
			1	0	Back Side	707.5	0.707	-0.24	24.00	23.41	0.810	/
			1	0	Back Side	711	0.739	-0.11	24.00	23.58	0.814	5
			25	24	Back Side	707.5	0.583	2.99	22.50	22.32	0.608	/
			1	0	Left Side	711	0.252	-3.32	24.00	23.58	0.278	/
			25	24	Left Side	707.5	0.208	-1.46	22.50	22.32	0.217	/
			1	0	Right Side	711	0.138	1.27	24.00	23.58	0.152	/
			25	24	Right Side	707.5	0.103	-1.80	22.50	22.32	0.107	/
			1	0	Bottom Side	711	0.144	-0.18	24.00	23.58	0.159	/
			25	24	Bottom Side	707.5	0.105	-2.68	22.50	22.32	0.109	/
LTE Band 13	10M	QPSK	1	0	Front of face	782	0.620	-0.81	23.50	23.25	0.657	/
			25	0	Front of face	782	0.483	2.54	22.50	22.19	0.519	/
			1	0	Back Side	782	0.800	-3.91	23.50	23.25	0.847	6
			25	0	Back Side	782	0.601	0.79	22.50	22.19	0.645	/
			1	0	Left Side	782	0.269	-3.61	23.50	23.25	0.285	/
			25	0	Left Side	782	0.197	-1.46	22.50	22.19	0.212	/



			1	0	Right Side	782	0.173	-1.45	23.50	23.25	0.183	/
			25	0	Right Side	782	0.133	-3.64	22.50	22.19	0.143	/
			1	0	Bottom Side	782	0.140	2.03	23.50	23.25	0.148	/
			25	0	Bottom Side	782	0.103	-0.28	22.50	22.19	0.111	/
LTE Band 14	10M	QPSK	1	49	Front of face	793	0.587	-3.87	23.50	23.06	0.650	/
			25	0	Front of face	793	0.450	3.38	22.00	21.85	0.466	/
			1	49	Back Side	793	0.735	-1.25	23.50	23.06	0.813	7
			25	0	Back Side	793	0.567	-2.80	22.00	21.85	0.587	/
			1	49	Left Side	793	0.237	2.65	23.50	23.06	0.262	/
			25	0	Left Side	793	0.174	0.54	22.00	21.85	0.180	/
			1	49	Right Side	793	0.133	1.18	23.50	23.06	0.147	/
			25	0	Right Side	793	0.090	-2.19	22.00	21.85	0.093	/
			1	49	Bottom Side	793	0.132	0.00	23.50	23.06	0.146	/
			25	0	Bottom Side	793	0.086	-1.58	22.00	21.85	0.089	/
LTE Band 17	10M	QPSK	1	0	Front of face	711	0.542	-2.21	24.00	23.74	0.575	/
			25	0	Front of face	709	0.401	-3.89	22.50	22.38	0.412	/
			1	0	Back Side	711	0.694	1.24	24.00	23.74	0.737	8
			25	0	Back Side	710	0.526	1.02	22.50	22.38	0.541	/
			1	0	Left Side	711	0.225	-2.51	24.00	23.74	0.239	/
			25	0	Left Side	710	0.163	0.00	22.50	22.38	0.168	/
			1	0	Right Side	711	0.133	0.50	24.00	23.74	0.141	/
			25	0	Right Side	710	0.092	1.22	22.50	22.38	0.095	/
			1	0	Bottom Side	711	0.116	1.46	24.00	23.74	0.123	/
			25	0	Bottom Side	710	0.093	-0.33	22.50	22.38	0.096	/
LTE Band 25	20M	QPSK	1	0	Front of face	1905	0.659	3.36	24.00	23.58	0.726	/
			50	0	Front of face	1905	0.503	-0.49	23.00	22.66	0.544	/
			1	0	Back Side	1905	0.591	-1.36	24.00	23.58	0.651	/
			50	0	Back Side	1882.5	0.443	-0.69	23.00	22.66	0.479	/
			1	0	Left Side	1905	0.205	-0.98	24.00	23.58	0.226	/
			50	0	Left Side	1882.5	0.162	0.27	23.00	22.66	0.175	/
			1	0	Right Side	1905	0.240	2.48	24.00	23.58	0.264	/
			50	0	Right Side	1882.5	0.179	-3.49	23.00	22.66	0.194	/
			1	0	Bottom Side	1860	0.721	-3.23	24.00	23.25	0.857	/



			1	0	Bottom Side	1882.5	0.761	3.13	24.00	23.54	0.846	/
			1	0	Bottom Side	1905	0.794	3.19	24.00	23.58	0.875	9
			50	0	Bottom Side	1905	0.587	-3.74	23.00	22.66	0.635	/
LTE Band 26	15M	QPSK	1	74	Front of face	841.5	0.546	1.91	24.00	23.49	0.614	/
			36	0	Front of face	841.5	0.433	-1.72	22.50	22.21	0.463	/
			1	74	Back Side	841.5	0.703	-3.54	24.00	23.49	0.791	10
			36	0	Back Side	841.5	0.528	-3.52	22.50	22.21	0.564	/
			1	74	Left Side	841.5	0.243	0.26	24.00	23.49	0.273	/
			36	0	Left Side	841.5	0.202	3.70	22.50	22.21	0.216	/
			1	74	Right Side	841.5	0.139	-3.67	24.00	23.49	0.156	/
			36	0	Right Side	841.5	0.102	3.05	22.50	22.21	0.109	/
			1	74	Bottom Side	841.5	0.138	1.11	24.00	23.49	0.155	/
			36	0	Bottom Side	841.5	0.105	1.41	22.50	22.21	0.112	/
LTE Band 41	20M	QPSK	1	49	Front of face	2680	0.664	2.22	22.50	22.20	0.711	/
			50	0	Front of face	2680	0.515	2.78	21.50	21.00	0.578	/
			1	49	Back Side	2506	0.876	1.24	22.50	22.20	0.939	11
			1	49	Back Side	2593	0.737	3.31	22.50	21.64	0.898	/
			1	49	Back Side	2680	0.712	-2.21	22.50	21.51	0.894	/
			50	0	Back Side	2506	0.674	0.85	21.50	21.00	0.756	/
			1	49	Left Side	2680	0.191	2.46	22.50	22.20	0.205	/
			50	0	Left Side	2680	0.141	2.39	21.50	21.00	0.158	/
			1	49	Right Side	2680	0.235	-2.44	22.50	22.20	0.252	/
			50	0	Right Side	2680	0.189	-3.59	21.50	21.00	0.212	/
			1	49	Bottom Side	2506	0.843	0.81	22.50	22.20	0.903	/
			1	49	Bottom Side	2593	0.716	0.68	22.50	21.64	0.873	/
			1	49	Bottom Side	2680	0.687	2.16	22.50	21.51	0.863	/
			50	0	Bottom Side	2680	0.654	-2.40	21.50	21.00	0.734	/
LTE Band 66	20M	QPSK	1	99	Front of face	1770	0.579	-0.19	24.50	24.20	0.620	/
			50	49	Front of face	1770	0.443	0.73	23.00	22.81	0.463	/
			1	99	Back Side	1770	0.557	0.87	24.50	24.20	0.597	/
			50	49	Back Side	1770	0.414	0.49	23.00	22.81	0.433	/
			1	99	Left Side	1770	0.183	0.84	24.50	24.20	0.196	/
			50	49	Left Side	1770	0.127	-0.93	23.00	22.81	0.133	/



			1	99	Right Side	1770	0.227	-3.38	24.50	24.20	0.243	/
			50	49	Right Side	1770	0.172	-1.40	23.00	22.81	0.180	/
			1	99	Bottom Side	1770	0.720	-2.47	24.50	24.20	0.771	12
			50	49	Bottom Side	1770	0.578	-0.50	23.00	22.81	0.604	/
LTE Band 71	20M	QPSK	1	49	Front of face	680.5	0.339	-0.57	24.00	23.99	0.340	/
			50	0	Front of face	673	0.245	0.57	23.50	23.19	0.263	/
			1	49	Back Side	680.5	0.450	0.28	24.00	23.99	0.451	13
			50	0	Back Side	673	0.344	-0.09	23.50	23.19	0.369	/
			1	49	Left Side	680.5	0.372	-1.24	24.00	23.99	0.373	/
			50	0	Left Side	673	0.266	-3.85	23.50	23.19	0.286	/
			1	49	Right Side	680.5	0.272	-1.93	24.00	23.99	0.273	/
			50	0	Right Side	673	0.207	-1.45	23.50	23.19	0.222	/
			1	49	Bottom Side	680.5	0.133	-0.87	24.00	23.99	0.133	/
			50	0	Bottom Side	673	0.108	-1.88	23.50	23.19	0.116	/



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.
2.4GHz WLAN	802.11b	Front of face	2462	0.069	-0.71	16.50	16.17	0.074	/
		Back Side	2462	0.073	-1.91	16.50	16.17	0.079	/
		Left Side	2462	0.087	-3.19	16.50	16.17	0.094	/
		Top Side	2462	0.104	3.75	16.50	16.17	0.112	14
5.2GHz WLAN	802.11a	Front of face	5180	0.246	3.85	16.00	15.57	0.272	/
		Back Side	5180	0.262	0.17	16.00	15.57	0.289	/
		Left Side	5180	0.308	-1.60	16.00	15.57	0.340	15
		Top Side	5180	0.283	1.78	16.00	15.57	0.312	/
5.3GHz WLAN	802.11a	Front of face	5300	0.259	2.40	17.00	16.52	0.289	/
		Back Side	5300	0.281	3.96	17.00	16.52	0.314	/
		Left Side	5300	0.301	-0.81	17.00	16.52	0.336	16
		Top Side	5300	0.284	2.54	17.00	16.52	0.317	/
5.6GHz WLAN	802.11a	Front of face	5700	0.274	3.83	13.00	12.83	0.285	/
		Back Side	5700	0.301	2.91	13.00	12.83	0.313	/
		Left Side	5700	0.385	2.70	13.00	12.83	0.400	17
		Top Side	5700	0.313	3.15	13.00	12.83	0.325	/
5.8GHz WLAN	802.11a	Front of face	5745	0.260	-0.24	13.50	13.19	0.279	/
		Back Side	5745	0.283	3.22	13.50	13.19	0.304	/
		Left Side	5745	0.281	2.47	13.50	13.19	0.302	/
		Top Side	5745	0.348	-3.89	13.50	13.19	0.374	18

Note:

- The test separation of all above table is 10mm, the back side 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.



12.2 Repeated SAR

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	Bottom Side	1880	0.785	-3.33	24	23.63	0.855	-
			1	0	Bottom Side	1900	0.771	3.06	24	23.50	0.865	-
LTE Band 7	10M	QPSK	1	49	Bottom Side	2510	0.887	-0.85	23	22.60	0.973	-
			1	49	Bottom Side	2535	0.911	-0.57	23	22.65	0.987	-
			1	49	Bottom Side	2560	0.786	2.78	23	22.10	0.967	-
			50	24	Bottom Side	2510	0.720	2.93	22	21.69	0.773	-
LTE Band 12	10M	QPSK	1	0	Back Side	704	0.666	-3.39	24	23.24	0.793	-
			1	0	Back Side	707.5	0.681	0.93	24	23.41	0.780	-
			1	0	Back Side	711	0.715	-2.49	24	23.58	0.788	-
LTE Band 13	10M	QPSK	1	0	Back Side	782	0.771	-0.53	23.5	23.25	0.817	-
LTE Band 14	10M	QPSK	1	49	Back Side	793	0.723	-2.56	23.5	23.06	0.800	-
LTE Band 25	20M	QPSK	1	0	Bottom Side	1860	0.689	-3.91	24	23.25	0.819	-
			1	0	Bottom Side	1882.5	0.728	2.40	24	23.54	0.809	-
			1	0	Bottom Side	1905	0.770	-1.97	24	23.58	0.848	-
LTE Band 41	20M	QPSK	1	49	Back Side	2506	0.874	-2.23	22.5	22.20	0.937	-
			1	49	Back Side	2593	0.727	1.79	22.5	21.64	0.886	-
			1	49	Back Side	2680	0.712	0.34	22.5	21.51	0.894	-
			1	49	Bottom Side	2506	0.838	-1.85	22.5	22.20	0.898	-
			1	49	Bottom Side	2593	0.681	-2.08	22.5	21.64	0.830	-
			1	49	Bottom Side	2680	0.685	3.56	22.5	21.51	0.860	-



12.3 Repeated SAR measurement

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	Bottom Side	1880	0.806	0.785	1.027
			1	0	Bottom Side	1900	0.780	0.771	1.012
LTE Band 7	10M	QPSK	1	49	Bottom Side	2510	0.903	0.887	1.018
			1	49	Bottom Side	2535	0.954	0.911	1.047
			1	49	Bottom Side	2560	0.809	0.786	1.029
			50	24	Bottom Side	2510	0.721	0.720	1.001
LTE Band 12	10M	QPSK	1	0	Back Side	704	0.673	0.666	1.011
			1	0	Back Side	707.5	0.707	0.681	1.038
			1	0	Back Side	711	0.739	0.715	1.034
LTE Band 13	10M	QPSK	1	0	Back Side	782	0.800	0.771	1.038
LTE Band 14	10M	QPSK	1	49	Back Side	793	0.735	0.723	1.017
LTE Band 25	20M	QPSK	1	0	Bottom Side	1860	0.721	0.689	1.046
			1	0	Bottom Side	1882.5	0.761	0.728	1.045
			1	0	Bottom Side	1905	0.794	0.770	1.031
LTE Band 41	20M	QPSK	1	49	Back Side	2506	0.876	0.874	1.002
			1	49	Back Side	2593	0.737	0.727	1.014
			1	49	Back Side	2680	0.712	0.712	1.000
			1	49	Bottom Side	2506	0.843	0.838	1.006
			1	49	Bottom Side	2593	0.716	0.681	1.051
			1	49	Bottom Side	2680	0.687	0.685	1.003

Note:

1. Per KDB 865664 D01, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥ 0.8 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 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 ≥ 1.45 W/Kg.
4. The ratio is the difference in percentage between original and repeated measured SAR.



12.4 Simultaneous Multi-band Transmission Evaluation:

Application Simultaneous Transmission information:

Position	Simultaneous State
Body	1. LTE + 2.4GHz WLAN/5G WLAN+NFC
	2. LTE + Bluetooth+NFC

NOTE:

- Bluetooth and WLAN can't simultaneous transmission at the same time.
- For simultaneous transmission at head and body exposure position, 2 transmitters simultaneous transmission was the worst state.
- If the test separation distance is <5mm, 5mm is used for excluded SAR calculation.
- 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:
 - (max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm) \cdot [\sqrt{f} (GHz) /x] W/kg for test separation distances \leq 50 mm;
Where x = 7.5 for 1-g SAR, and x = 18.75 for 10-g SAR.
 - 0.4W/Kg for 1-g SAR and 1.0W/Kg for 10-g SAR, when the separation distance is >50mm.

Estimated SAR		Maximum Turn-up Power		Antenna to user(mm)	Frequency(GHz)	Stand Alone SAR(1g) [W/kg]
		dBm	mW			
BT	Body	8.5	7.079	5	2.441	0.295
NFC	Body	-29	0.001	5	0.01356	0.000004

Simultaneous Mode	Position	Mode	Max. 1-g SAR	1-g Sum SAR
			(W/kg)	(W/kg)
LTE + 2.4G WLAN+NFC	Body	LTE	1.034	1.146
		2.4G WLAN	0.112	
		NFC	0.000004	
LTE + Bluetooth+NFC	Body	LTE	1.034	1.329
		Bluetooth	0.295	
		NFC	0.000004	
LTE + 5G WLAN+NFC	Body	LTE	1.034	1.434
		5G WLAN	0.400	
		NFC	0.000004	

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
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2022.02.11	2025.02.10
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	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



Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)

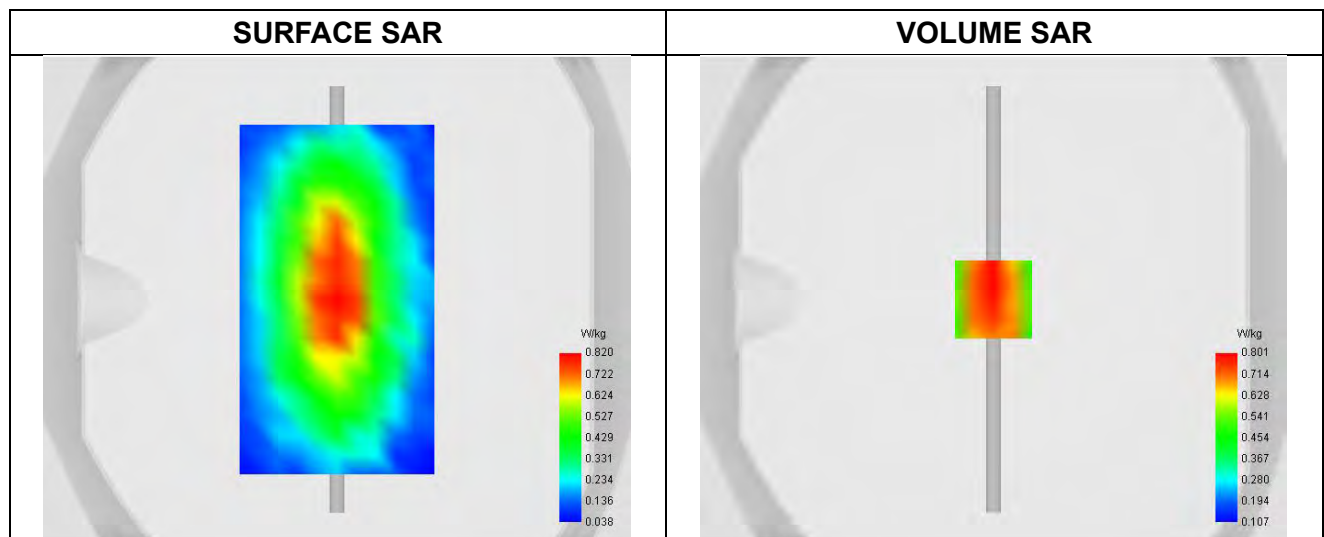
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-05-05

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.33
Conductivity (S/m)	0.86
Probe	SN 04/22 EPGO364
ConvF	1.68
Crest factor:	1:1

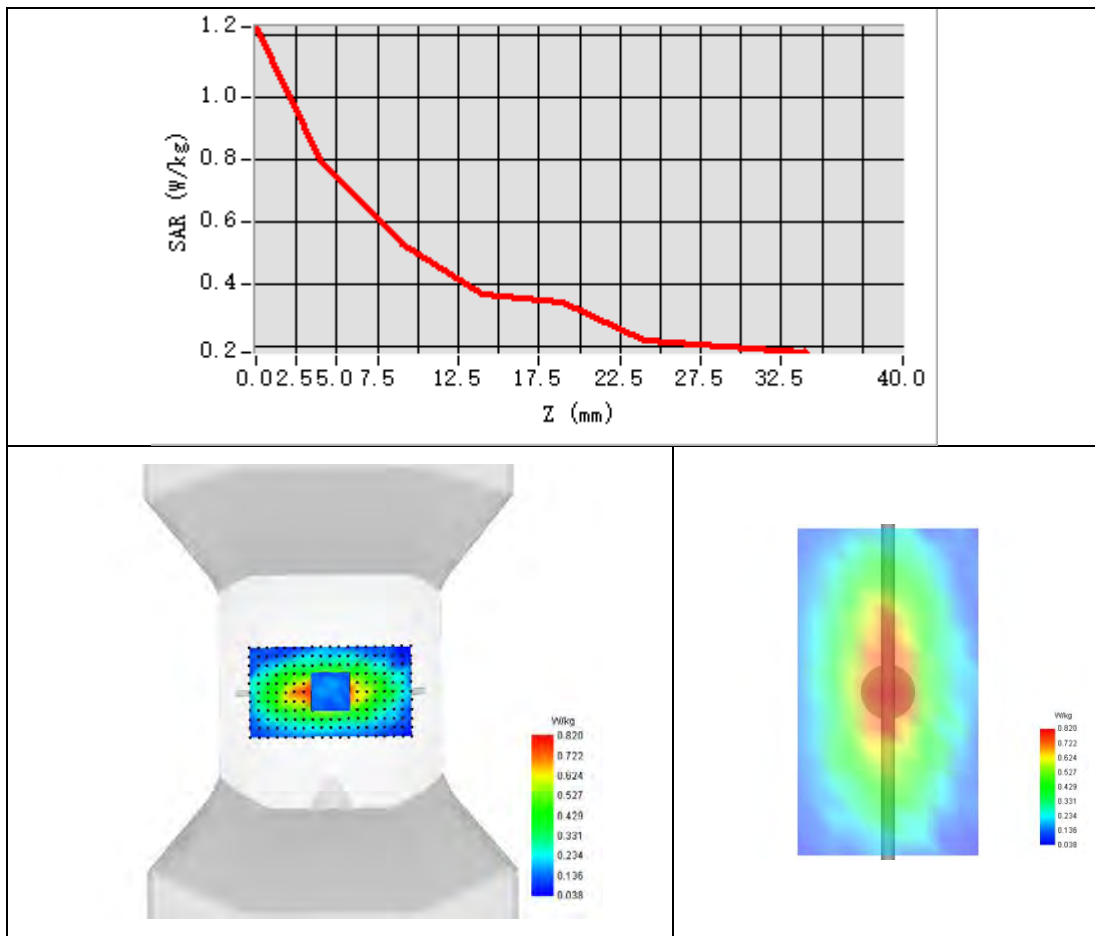


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.577
SAR 1g (W/Kg)	0.818



Z Axis Scan





System Performance Check Data (835MHz)

Type: Phone measurement (Complete)

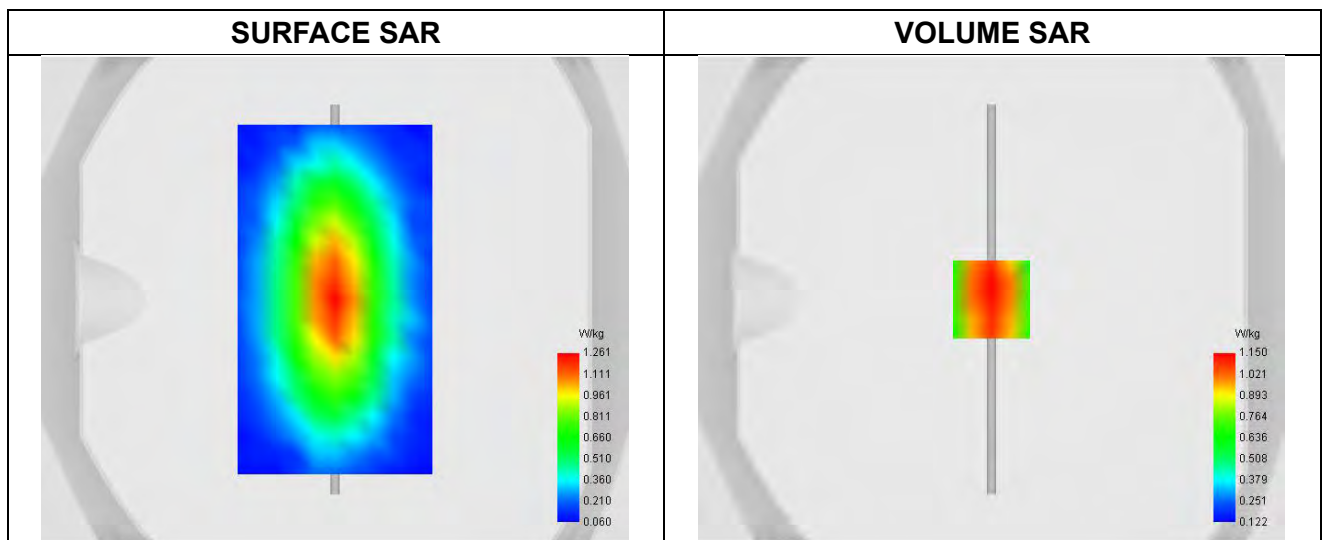
Area scan resolution: dx=8mm,dy=8mm

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

Date of measurement: 2024-05-04

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	40.73
Conductivity (S/m)	0.94
Probe	SN 04/22 EPGO364
ConvF	1.70
Crest factor:	1:1

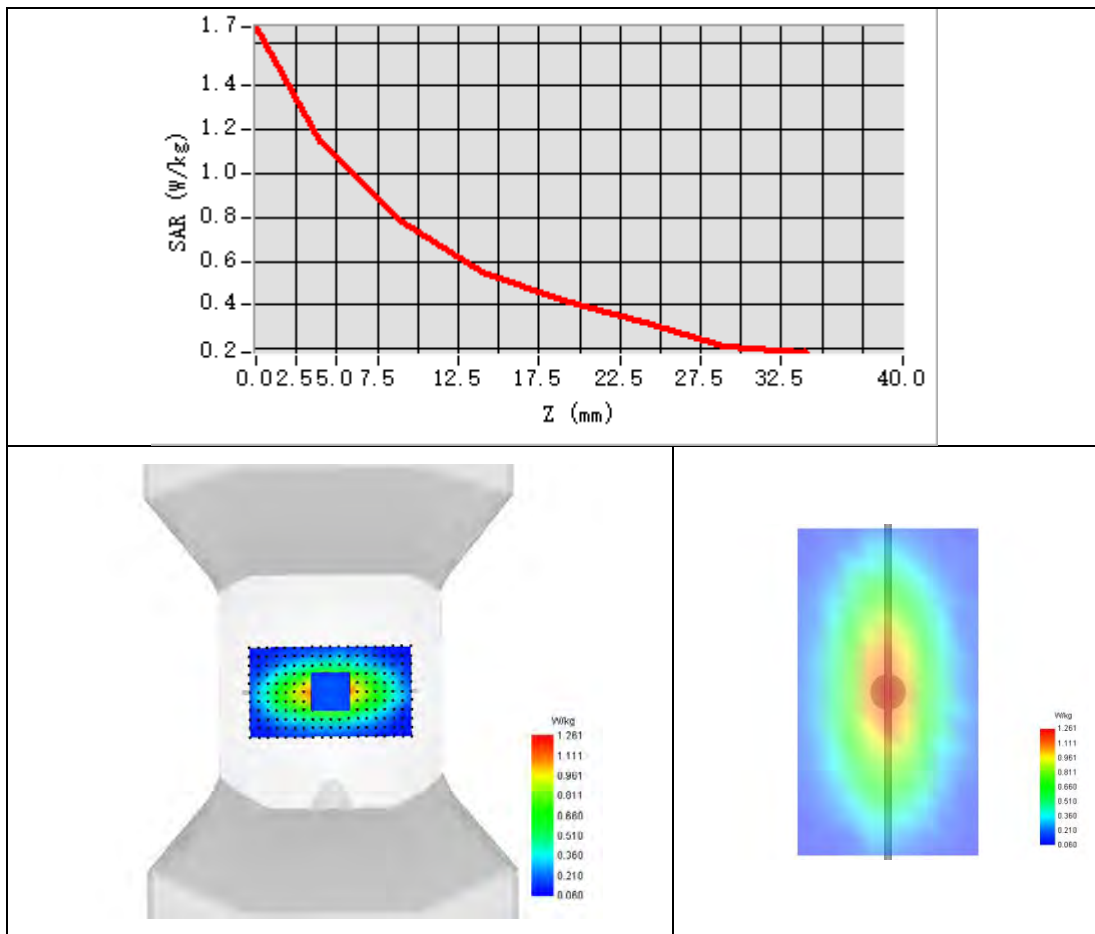


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.66 W/kg

SAR 10g (W/Kg)	0.638
SAR 1g (W/Kg)	0.970



Z Axis Scan





System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)

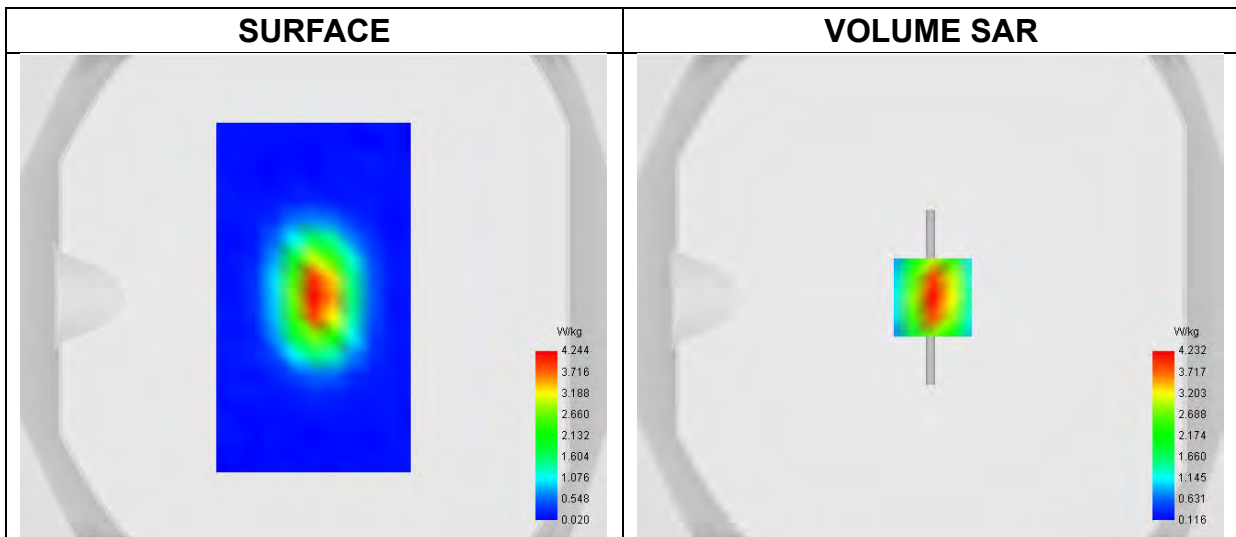
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-04-27

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.20
Conductivity (S/m)	1.43
Probe	SN 04/22 EPGO364
ConvF	1.91
Crest factor:	1:1

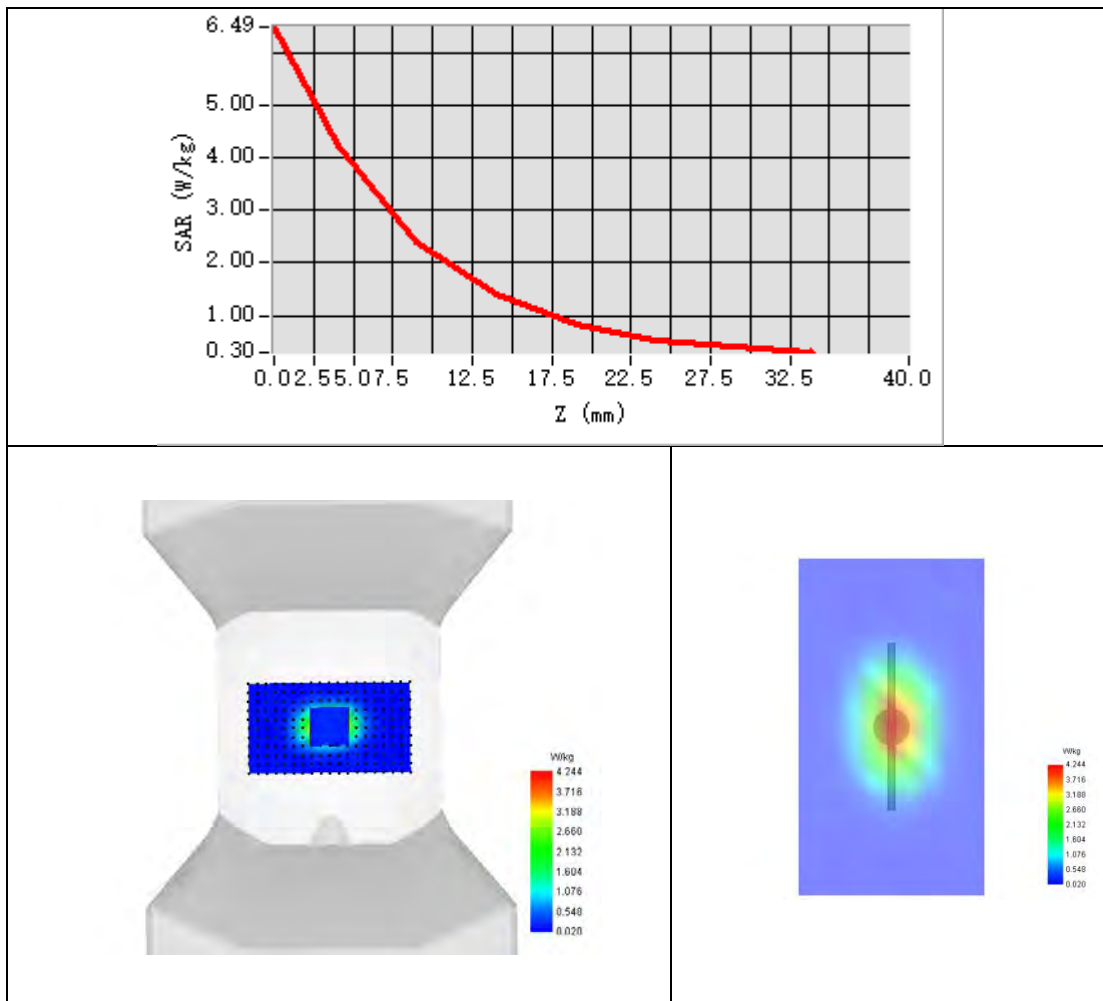


Maximum location: X=1.00, Y=2.00 ; SAR Peak: 6.28 W/kg

SAR 10g (W/Kg)	2.057
SAR 1g (W/Kg)	3.940



Z Axis Scan





System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)

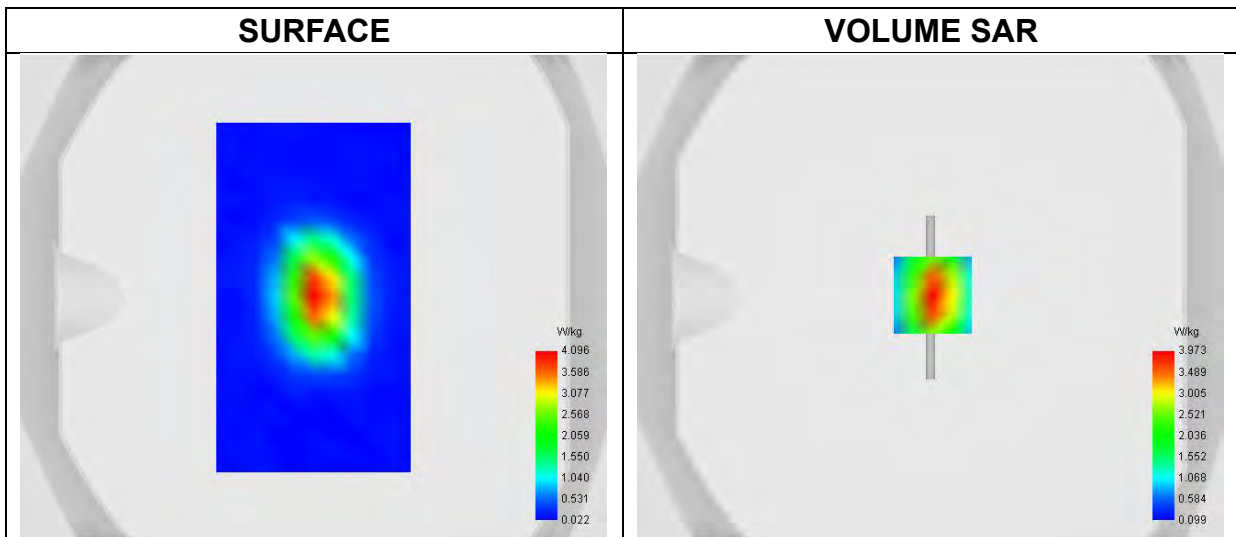
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-04-20

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	40.40
Conductivity (S/m)	1.40
Probe	SN 04/22 EPGO364
ConvF	2.24
Crest factor:	1:1

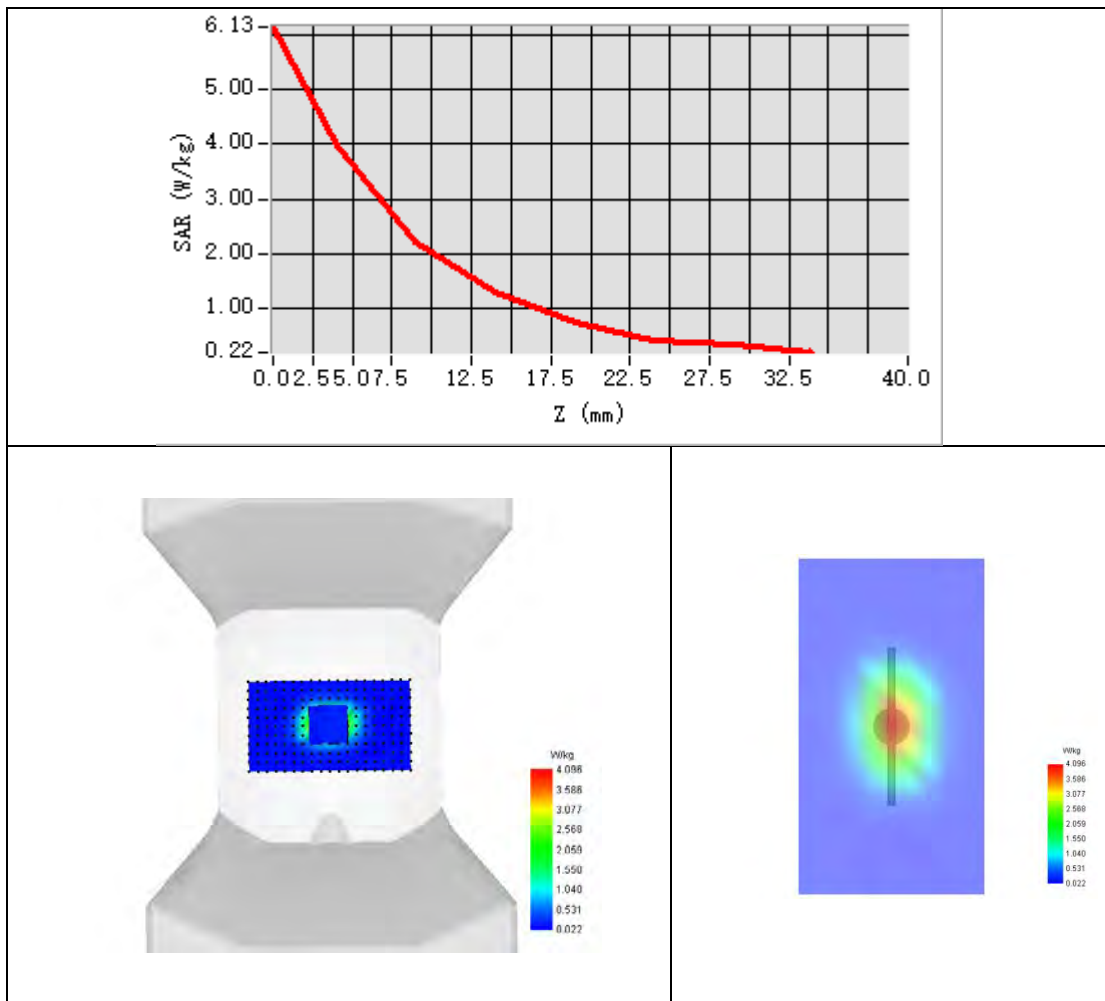


Maximum location: X=1.00, Y=1.00 ; SAR Peak: 6.10 W/kg

SAR 10g (W/Kg)	2.037
SAR 1g (W/Kg)	4.109



Z Axis Scan





System Performance Check Data (2450MHz)

Type: Phone measurement (Complete)

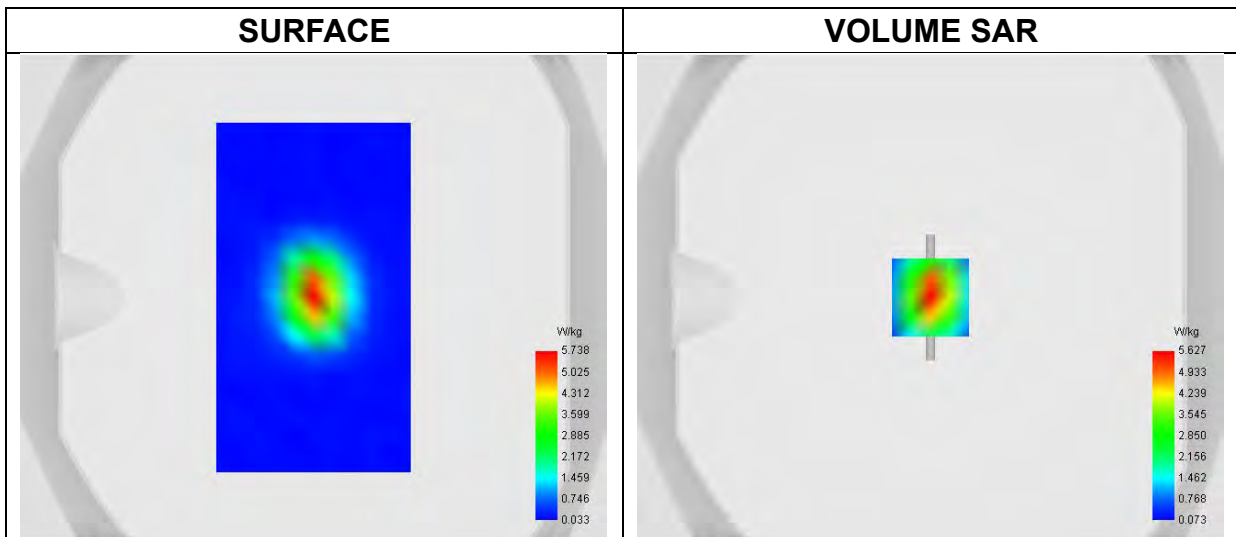
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-04-30

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW
Frequency (MHz)	2450.000
Relative permittivity	39.34
Conductivity (S/m)	1.77
Probe	SN 04/22 EPGO364
ConvF	2.30
Crest factor:	1:1

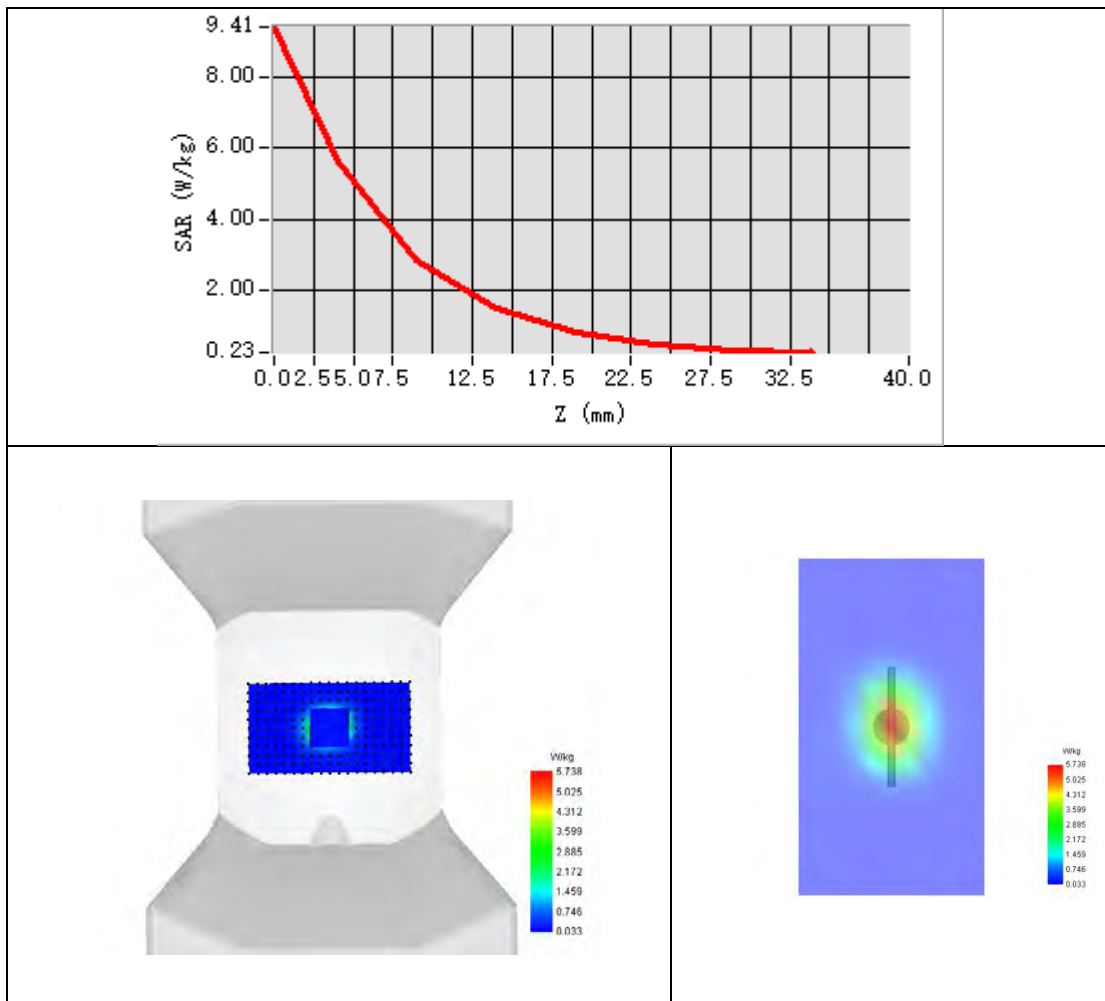


Maximum location: X=0.00, Y=0.00 ; SAR Peak: 9.42 W/kg

SAR 10g (W/Kg)	2.395
SAR 1g (W/Kg)	5.397



Z Axis Scan





System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)

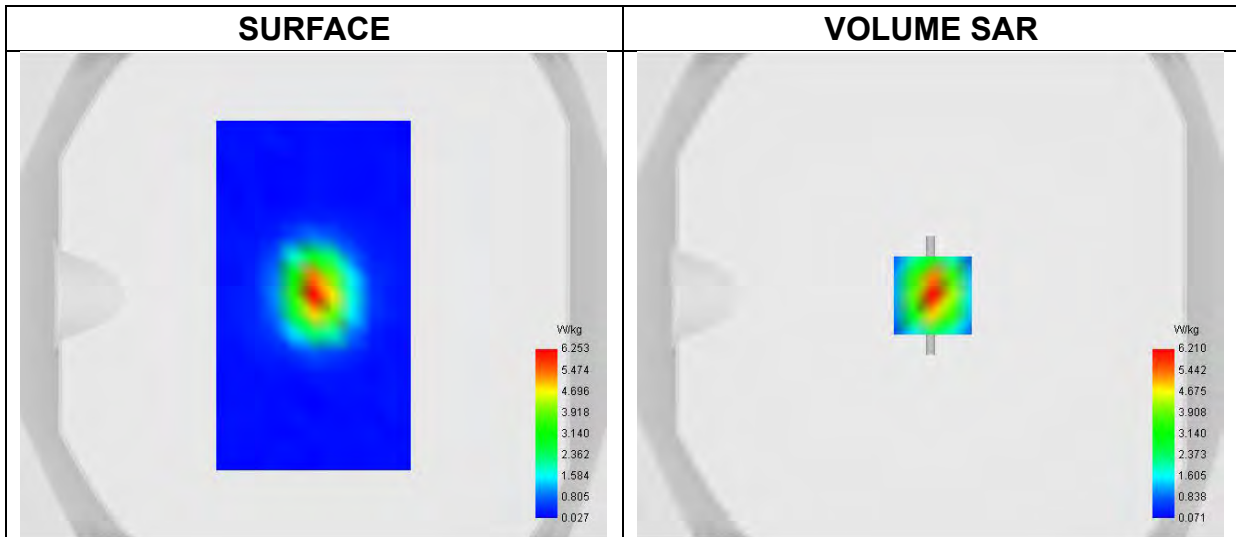
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-04-28

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.36
Conductivity (S/m)	1.97
Probe	SN 04/22 EPGO364
ConvF	2.35
Crest factor:	1:1

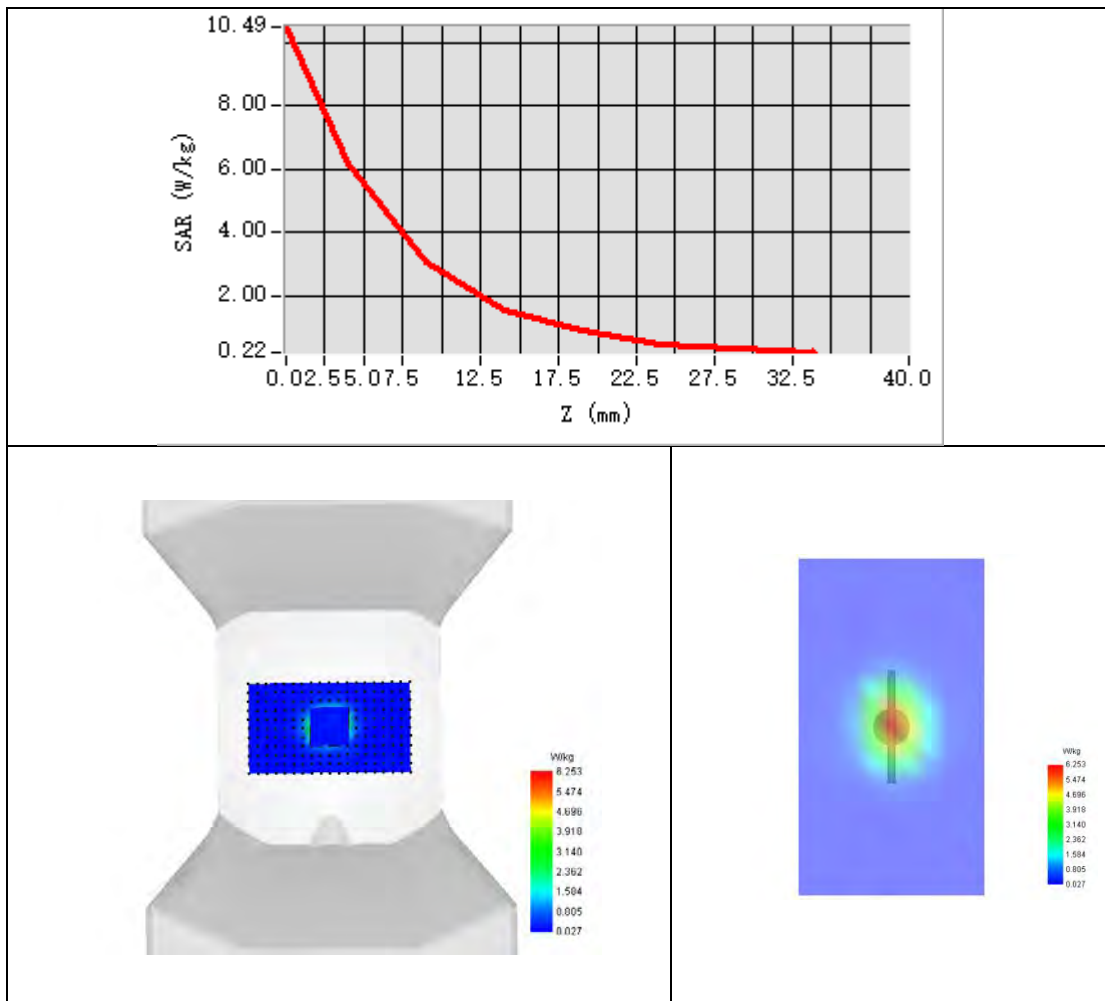


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 10.41 W/kg

SAR 10g (W/Kg)	2.425
SAR 1g (W/Kg)	5.676



Z Axis Scan





System Performance Check Data (5200MHz)

Type: Phone measurement (Complete)

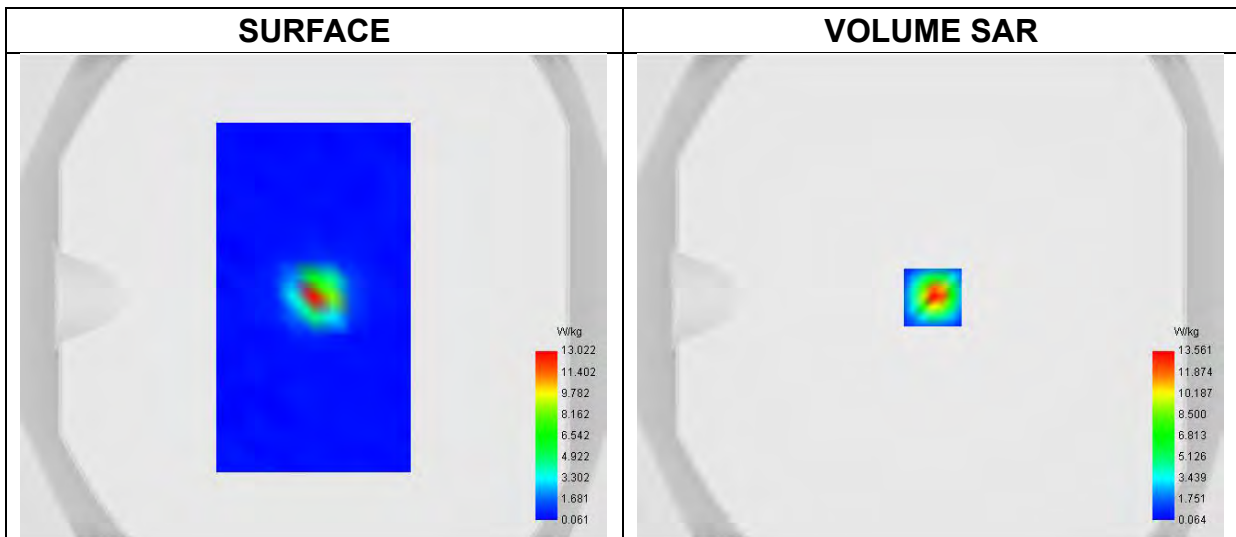
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-04-29

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW
Frequency (MHz)	5200.000
Relative permittivity	37.13
Conductivity (S/m)	4.64
Probe	SN 04/22 EPGO364
ConvF	1.98
Crest factor:	1:1

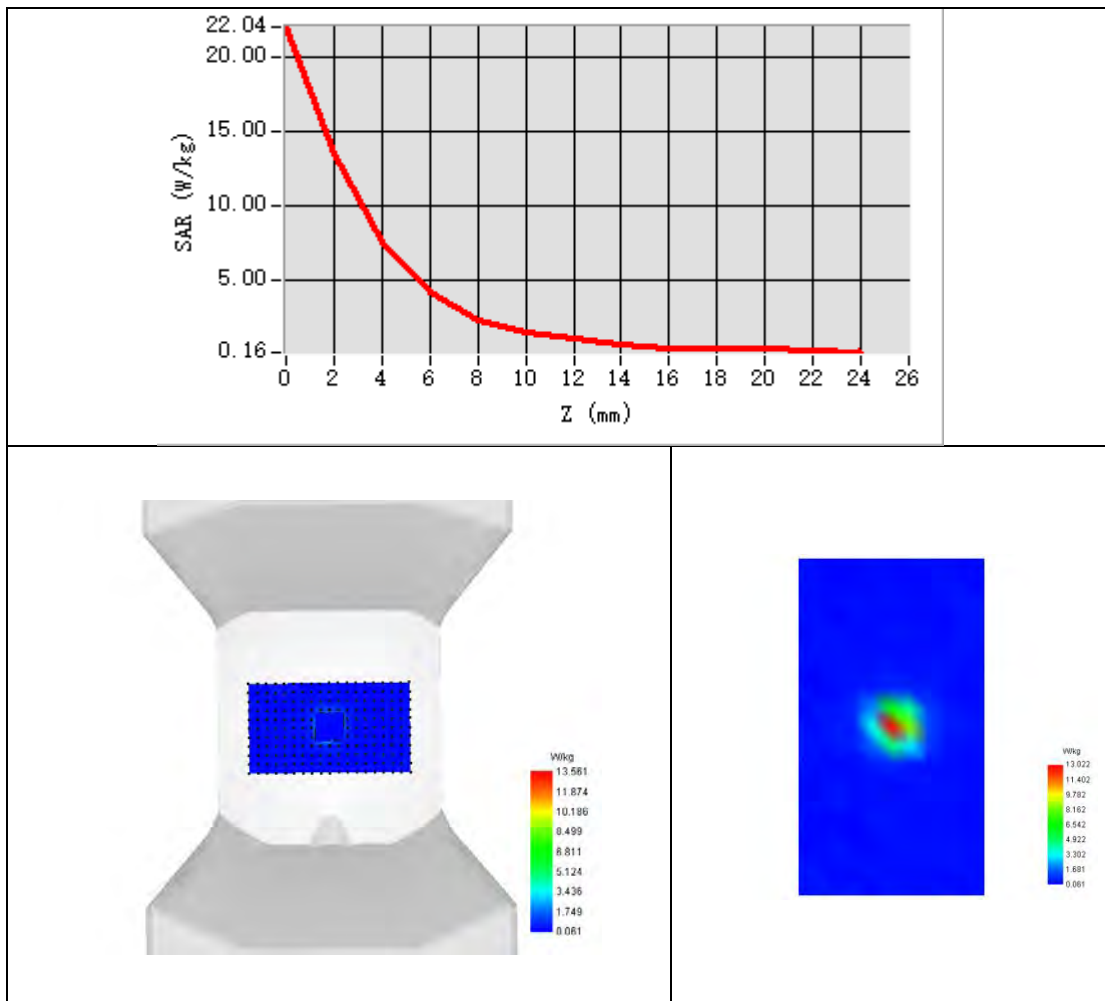


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 23.00 W/kg

SAR 10g (W/Kg)	2.206
SAR 1g (W/Kg)	7.741



Z Axis Scan





System Performance Check Data (5400MHz)

Type: Phone measurement (Complete)

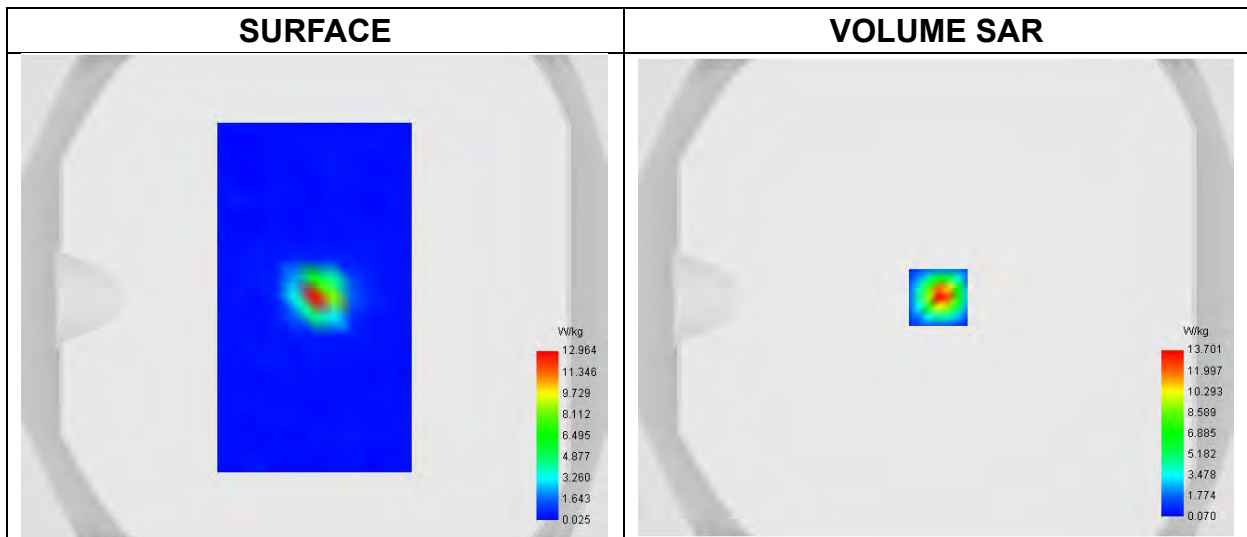
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-05-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Channels	Middle
Signal	CW
Frequency (MHz)	5400.000
Relative permittivity	36.21
Conductivity (S/m)	4.90
Probe	SN 04/22 EPGO364
ConvF	1.83
Crest factor:	1:1

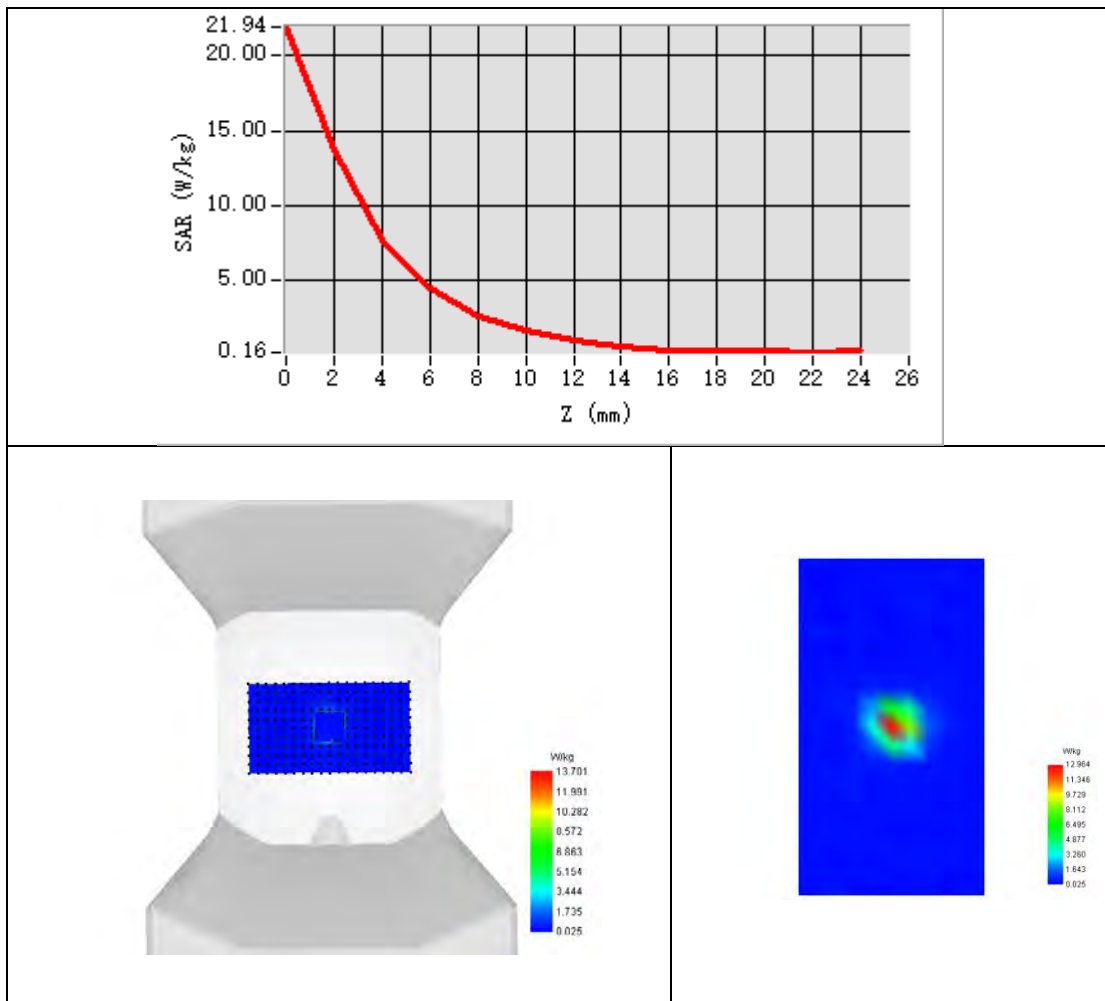


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 24.03 W/kg

SAR 10g (W/Kg)	2.250
SAR 1g (W/Kg)	8.059



Z Axis Scan





System Performance Check Data (5600MHz)

Type: Phone measurement (Complete)

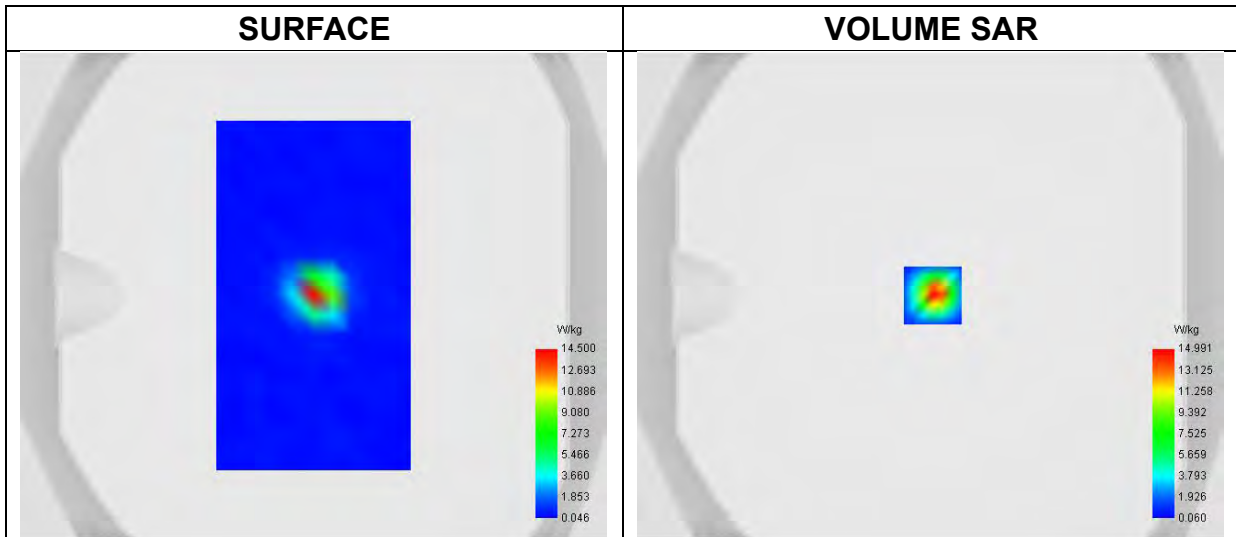
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-05-02

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Channels	Middle
Signal	CW
Frequency (MHz)	5600.000
Relative permittivity	35.94
Conductivity (S/m)	5.13
Probe	SN 04/22 EPGO364
ConvF	1.86
Crest factor:	1:1

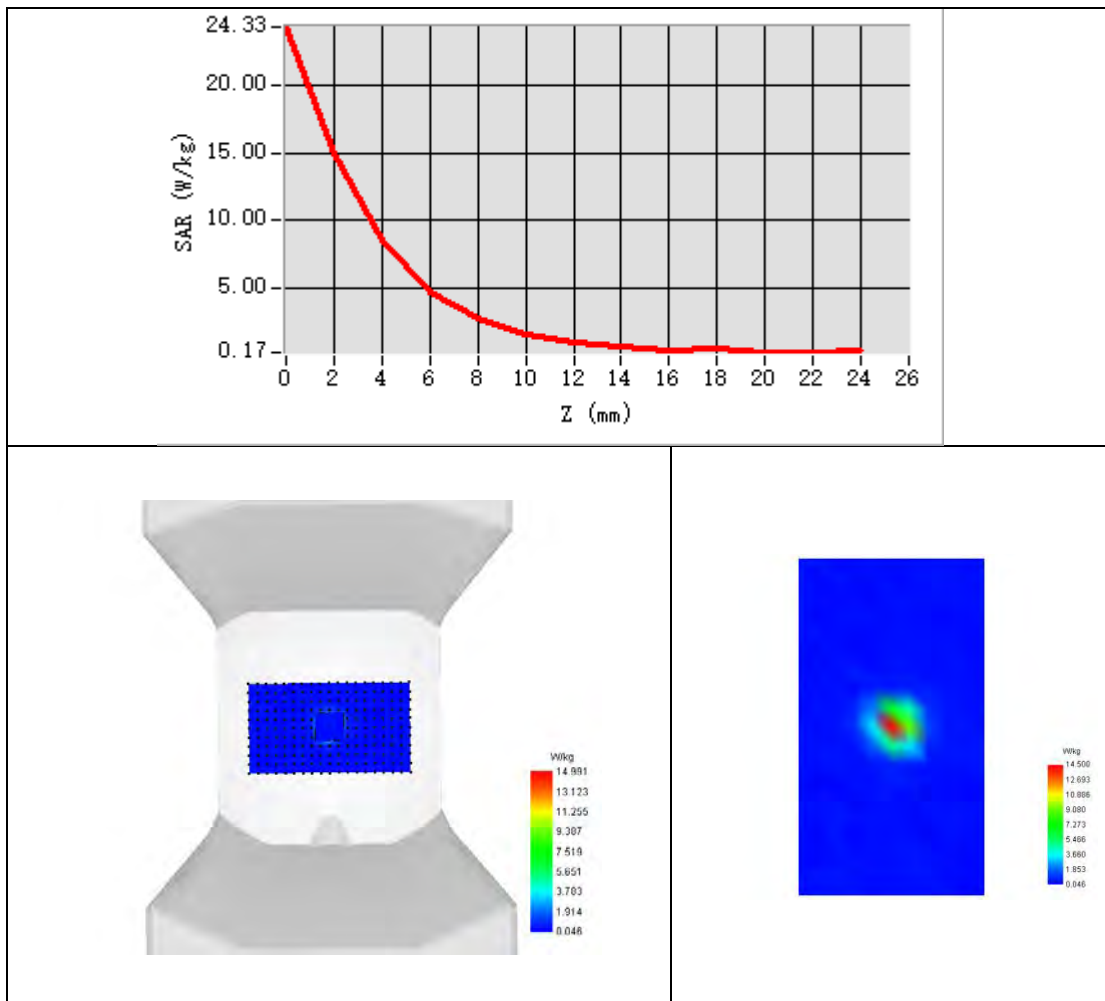


Maximum location: X=-5.00, Y=5.00 ; SAR Peak: 25.45 W/kg

SAR 10g (W/Kg)	2.224
SAR 1g (W/Kg)	7.815



Z Axis Scan





System Performance Check Data (5800MHz)

Type: Phone measurement (Complete)

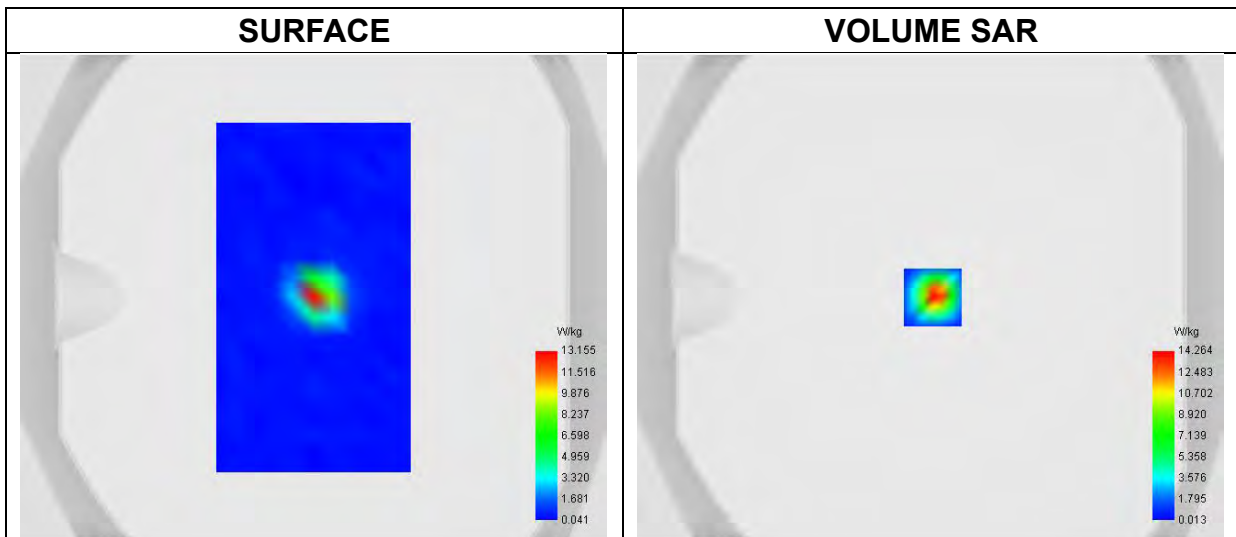
Area scan resolution: dx=8mm, dy=8mm

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

Date of measurement: 2024-05-03

Experimental conditions.

Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW
Frequency (MHz)	5800.000
Relative permittivity	36.09
Conductivity (S/m)	5.23
Probe	SN 04/22 EPGO364
ConvF	1.71
Crest factor:	1:1

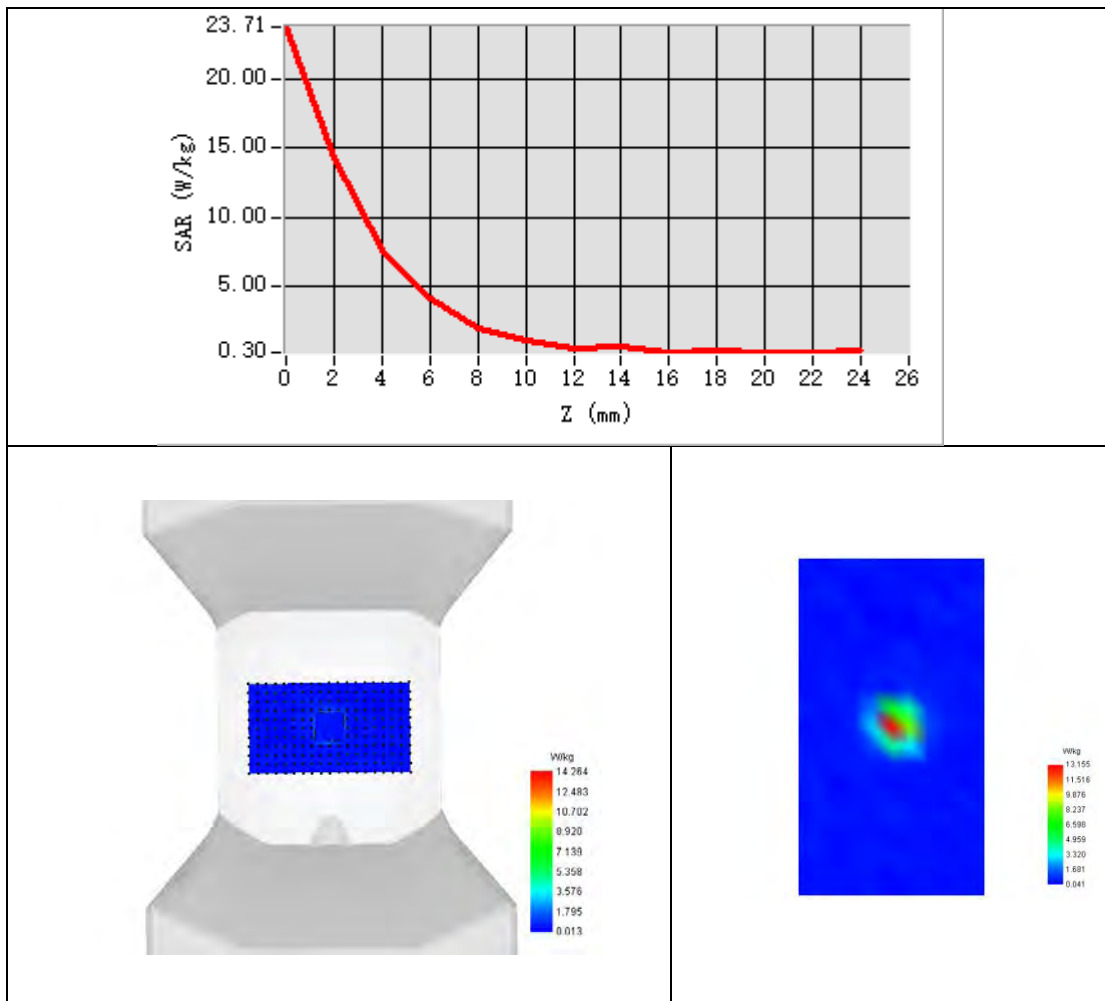


Maximum location: X=1.00, Y=0.00 ; SAR Peak: 24.72 W/kg

SAR 10g (W/Kg)	2.122
SAR 1g (W/Kg)	7.513



Z Axis Scan



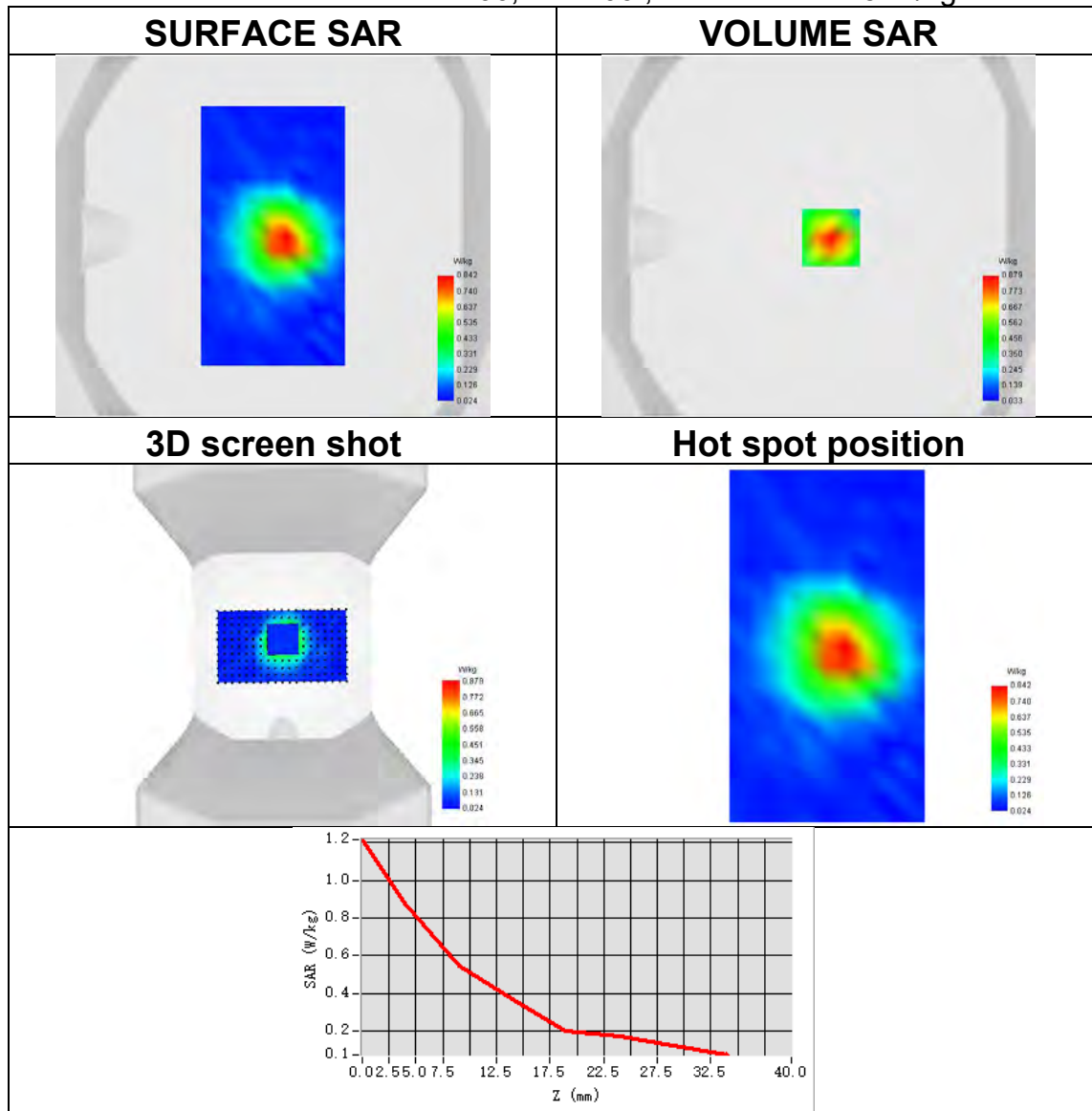


Appendix B. SAR Test Plots

Plot 1:

Test Date	2024-04-20
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	1880
SAR 10g (W/Kg)	0.459
SAR 1g (W/Kg)	0.806
ConvF	2.24
Relative permittivity	40.40
Conductivity (S/m)	1.40

Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 1.25 W/kg

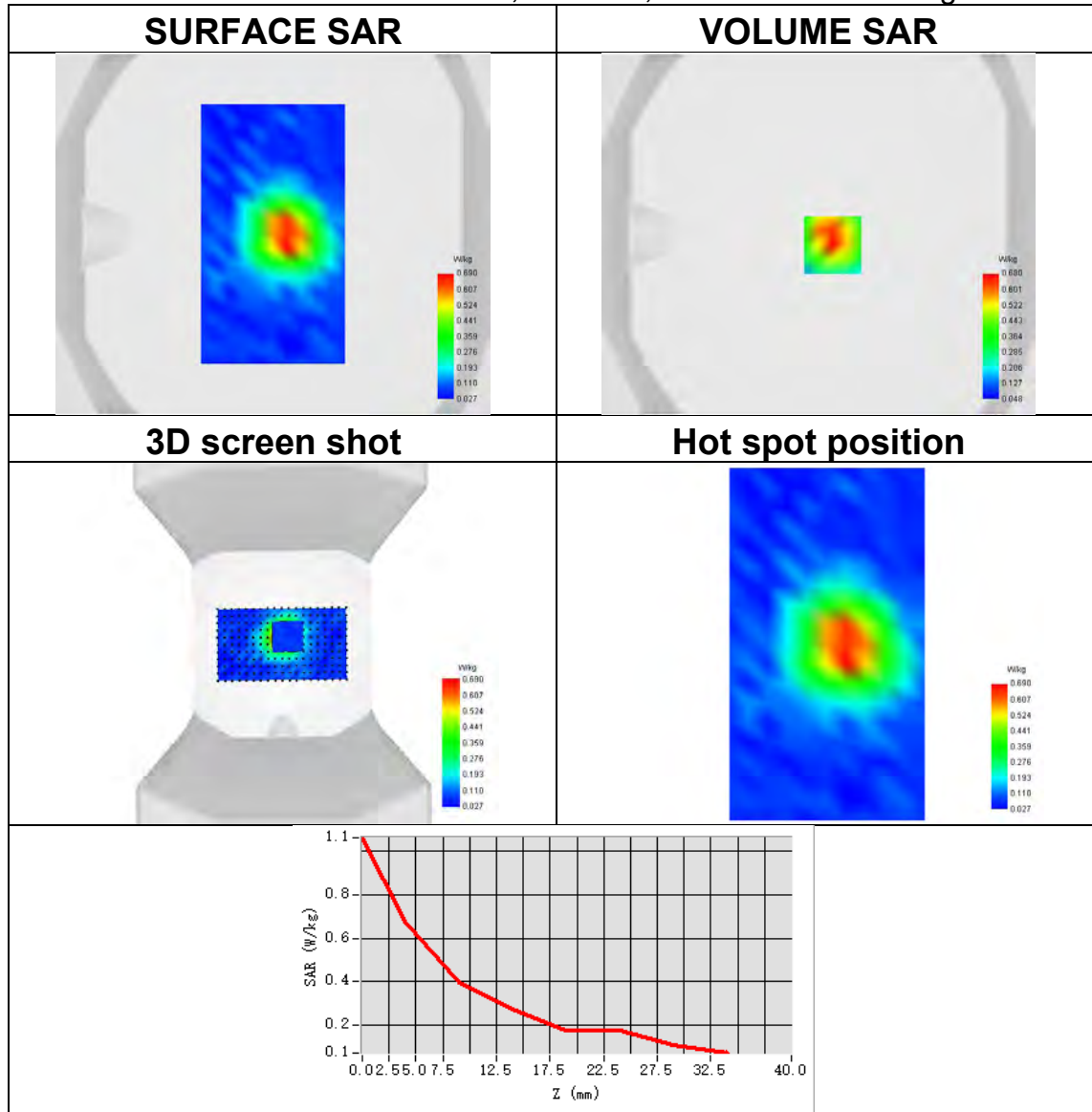




Plot 2:

Test Date	2024-04-27
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	1732.5
SAR 10g (W/Kg)	0.366
SAR 1g (W/Kg)	0.638
ConvF	1.91
Relative permittivity	40.20
Conductivity (S/m)	1.43

Maximum location: X=8.00, Y=-6.00 ; SAR Peak: 1.05 W/kg

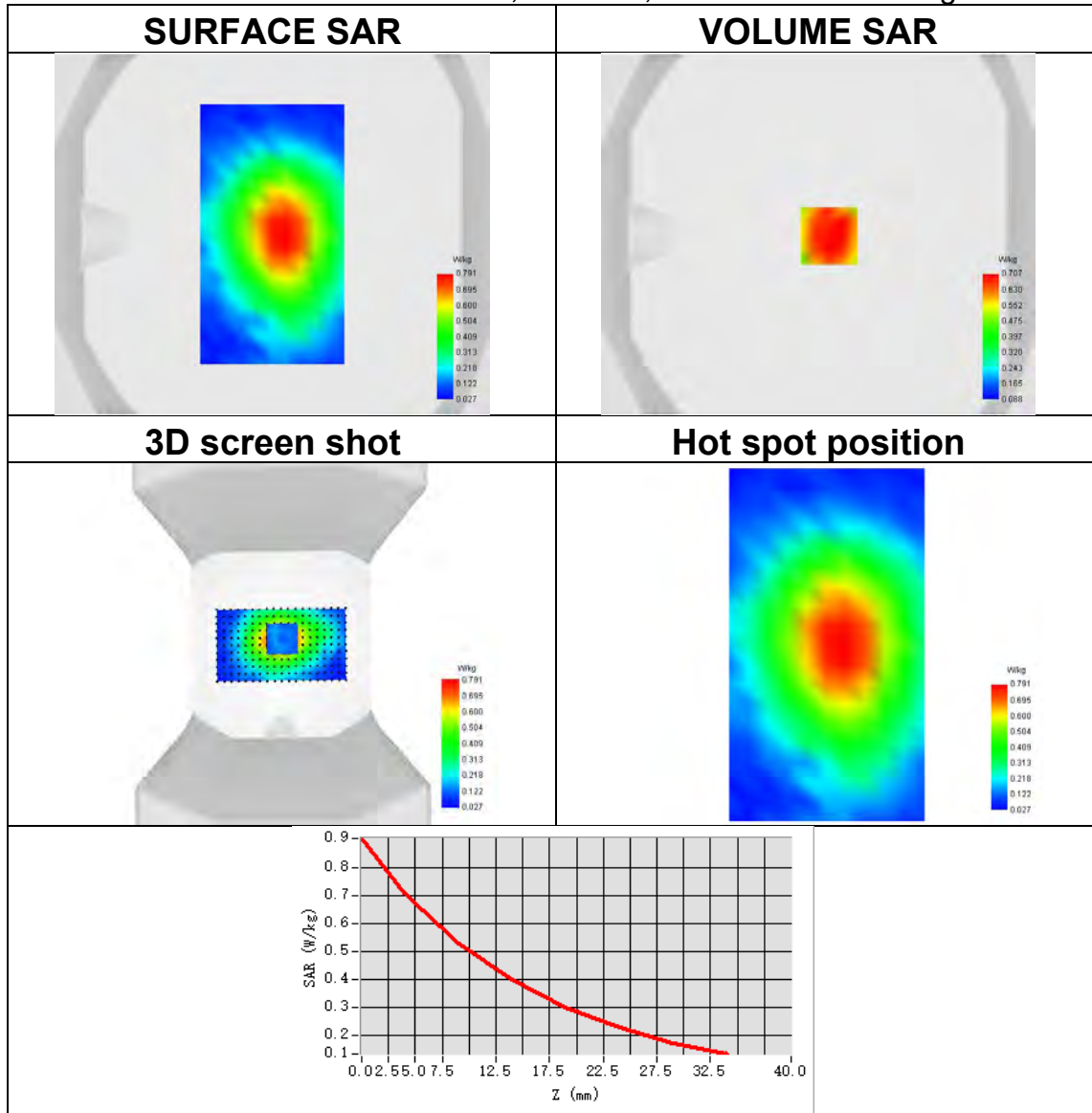




Plot 3:

Test Date	2024-05-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 5
Signal	LTE FDD
Frequency	836.5
SAR 10g (W/Kg)	0.475
SAR 1g (W/Kg)	0.691
ConvF	1.70
Relative permittivity	40.73
Conductivity (S/m)	0.94

Maximum location: X=6.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

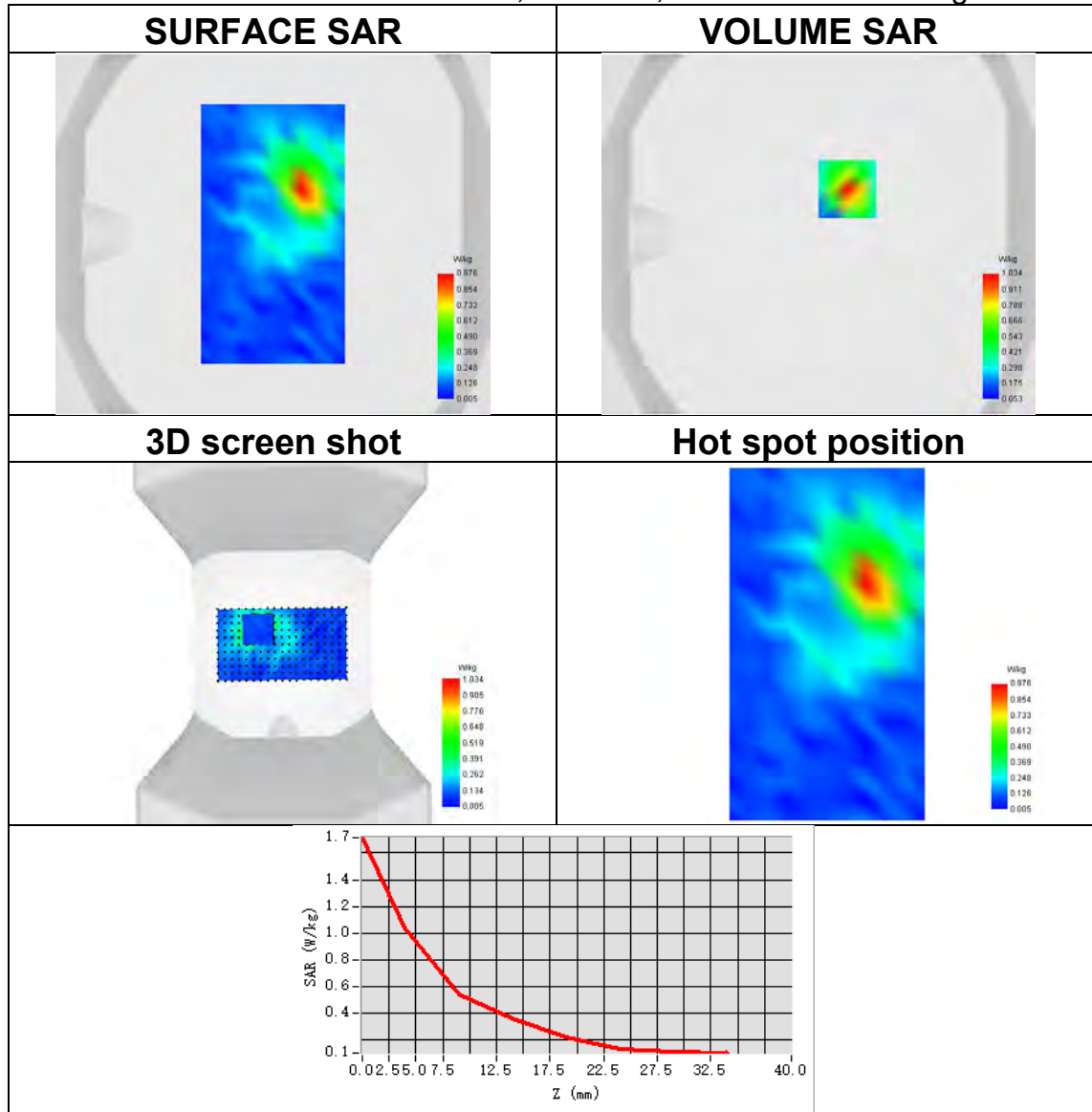




Plot 4:

Test Date	2024-04-28
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 TDD
Frequency	2535
SAR 10g (W/Kg)	0.451
SAR 1g (W/Kg)	0.954
ConvF	2.35
Relative permittivity	39.36
Conductivity (S/m)	1.97

Maximum location: X=16.00, Y=25.00 ; SAR Peak: 1.70 W/kg

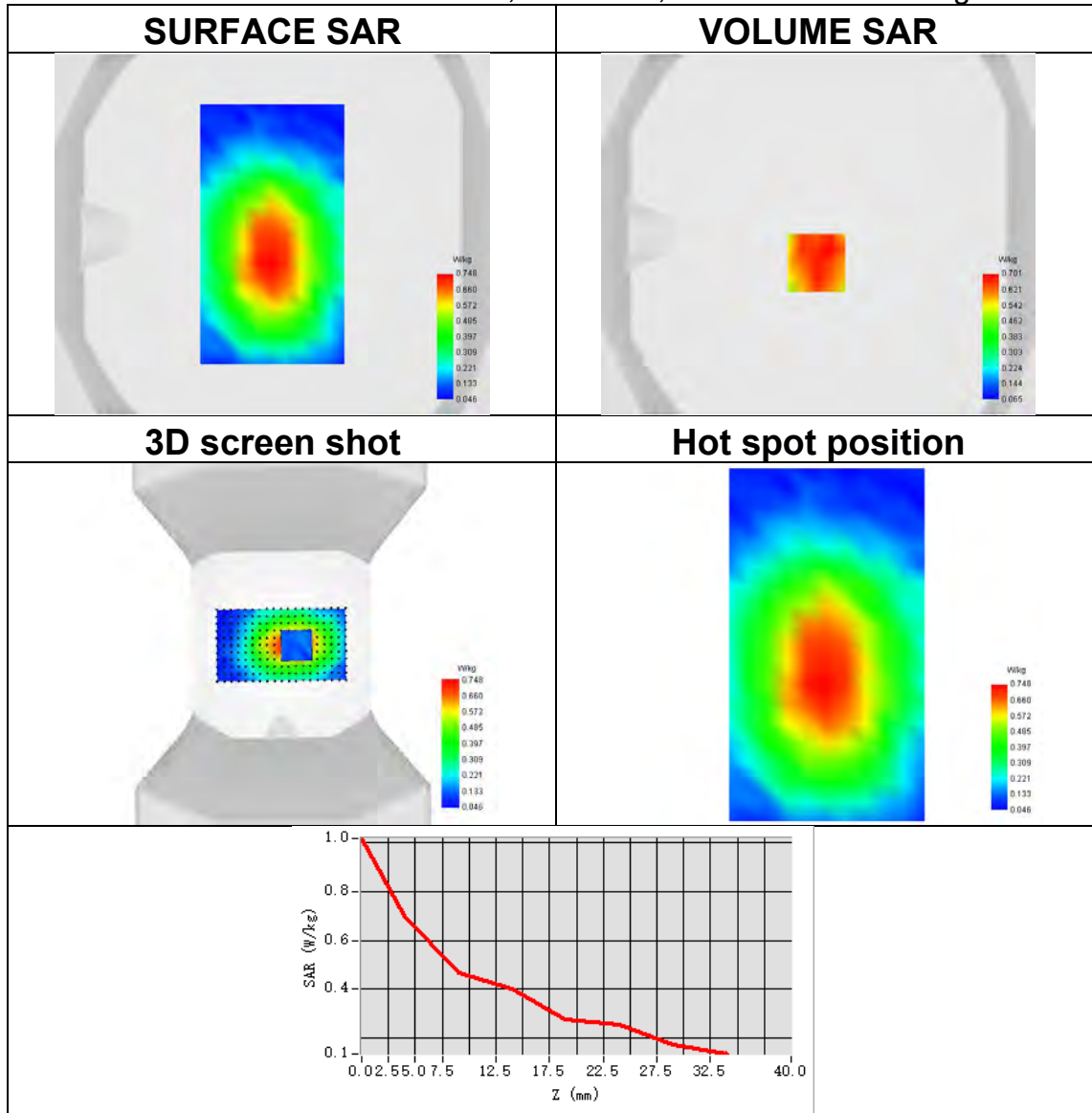




Plot 5:

Test Date	2024-05-05
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)	0.494
SAR 1g (W/Kg)	0.739
ConvF	1.68
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=-1.00, Y=-16.00 ; SAR Peak: 1.05 W/kg

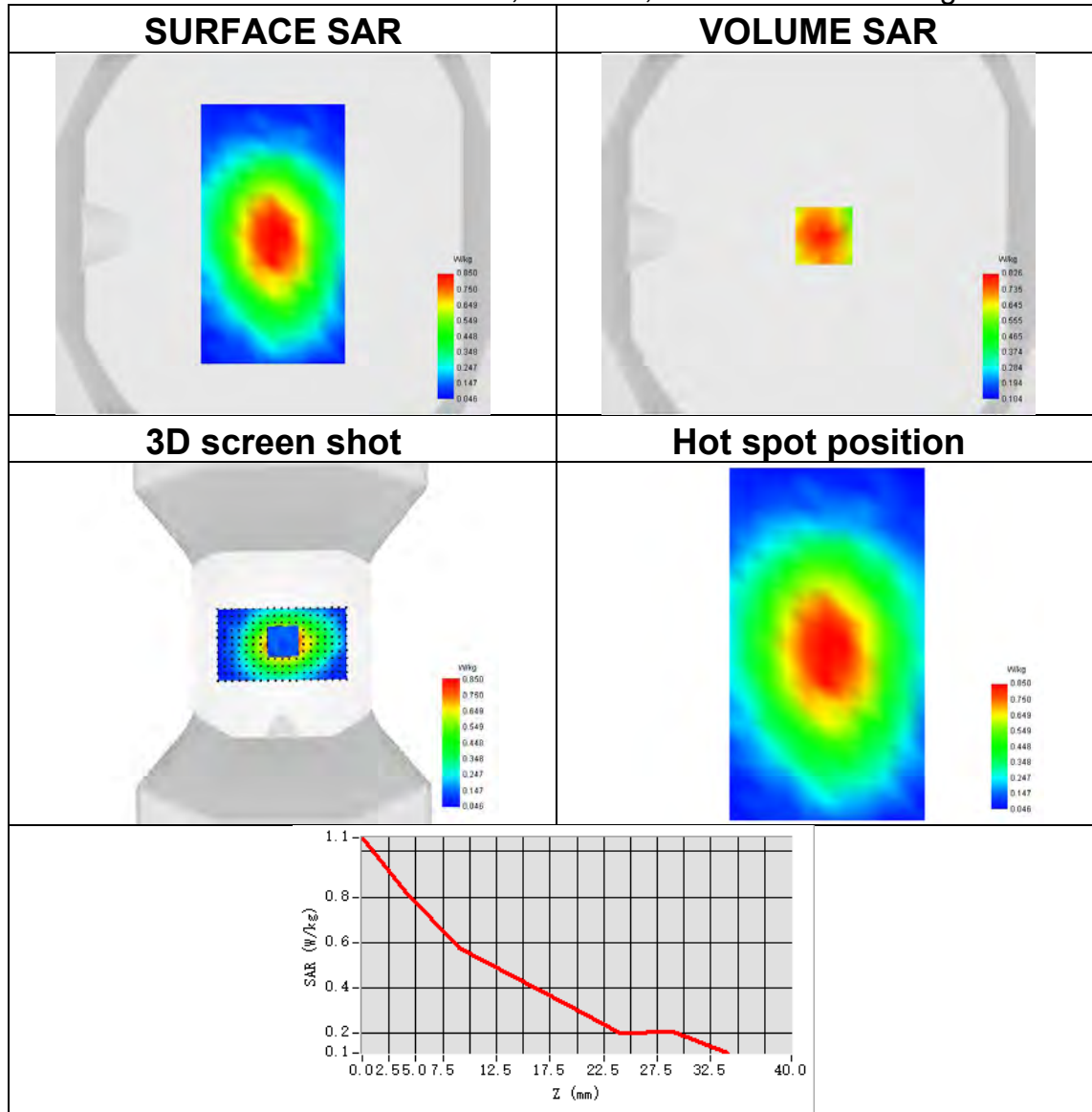




Plot 6:

Test Date	2024-05-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.552
SAR 1g (W/Kg)	0.800
ConvF	1.70
Relative permittivity	40.73
Conductivity (S/m)	0.94

Maximum location: X=3.00, Y=-1.00 ; SAR Peak: 1.08 W/kg

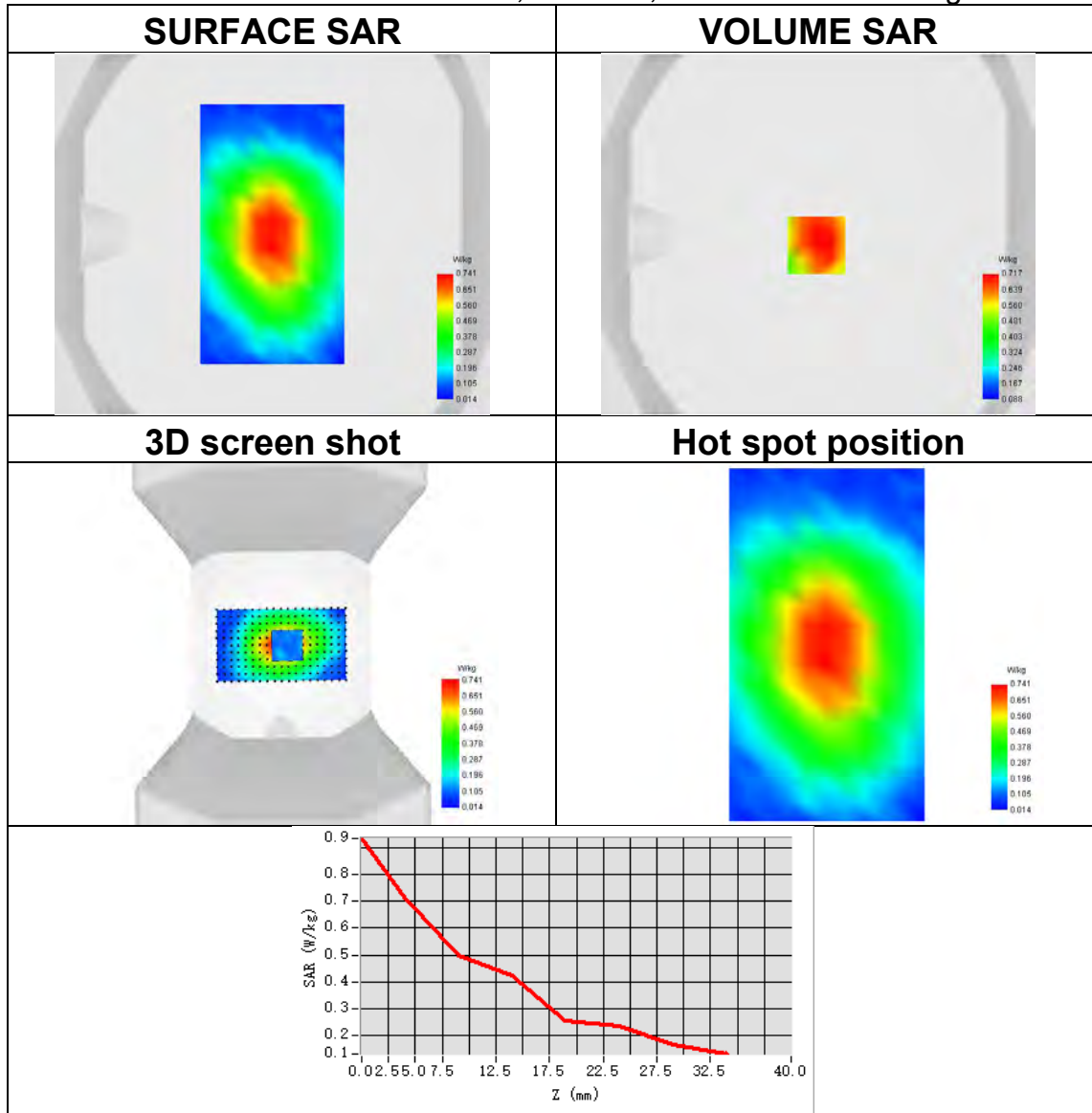




Plot 7:

Test Date	2024-05-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 14
Signal	LTE FDD
Frequency	793
SAR 10g (W/Kg)	0.502
SAR 1g (W/Kg)	0.735
ConvF	1.70
Relative permittivity	40.73
Conductivity (S/m)	0.94

Maximum location: X=-1.00, Y=-6.00 ; SAR Peak: 1.02 W/kg

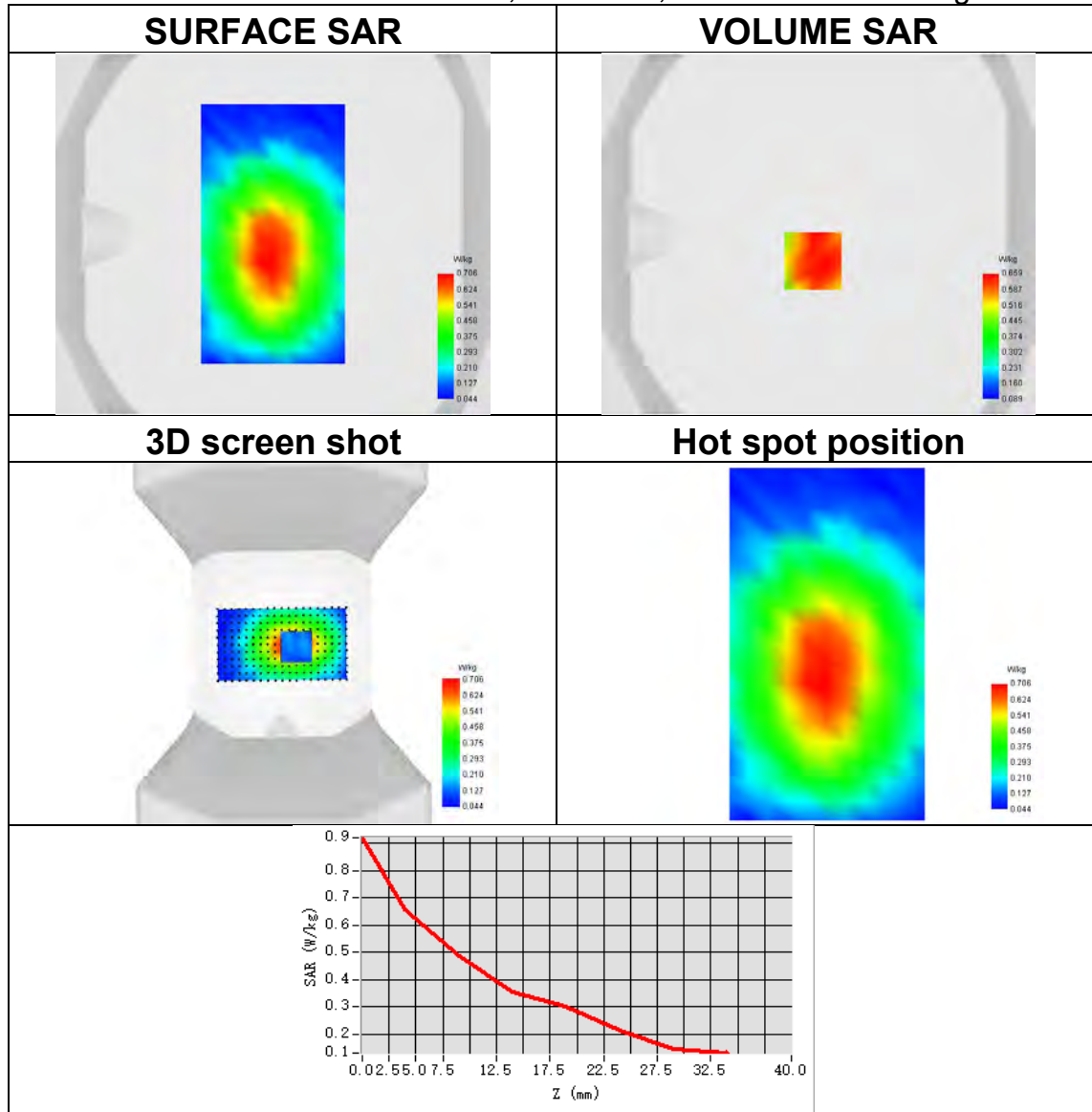




Plot 8:

Test Date	2024-05-05
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)	0.474
SAR 1g (W/Kg)	0.694
ConvF	1.68
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=-3.00, Y=-15.00 ; SAR Peak: 0.93 W/kg

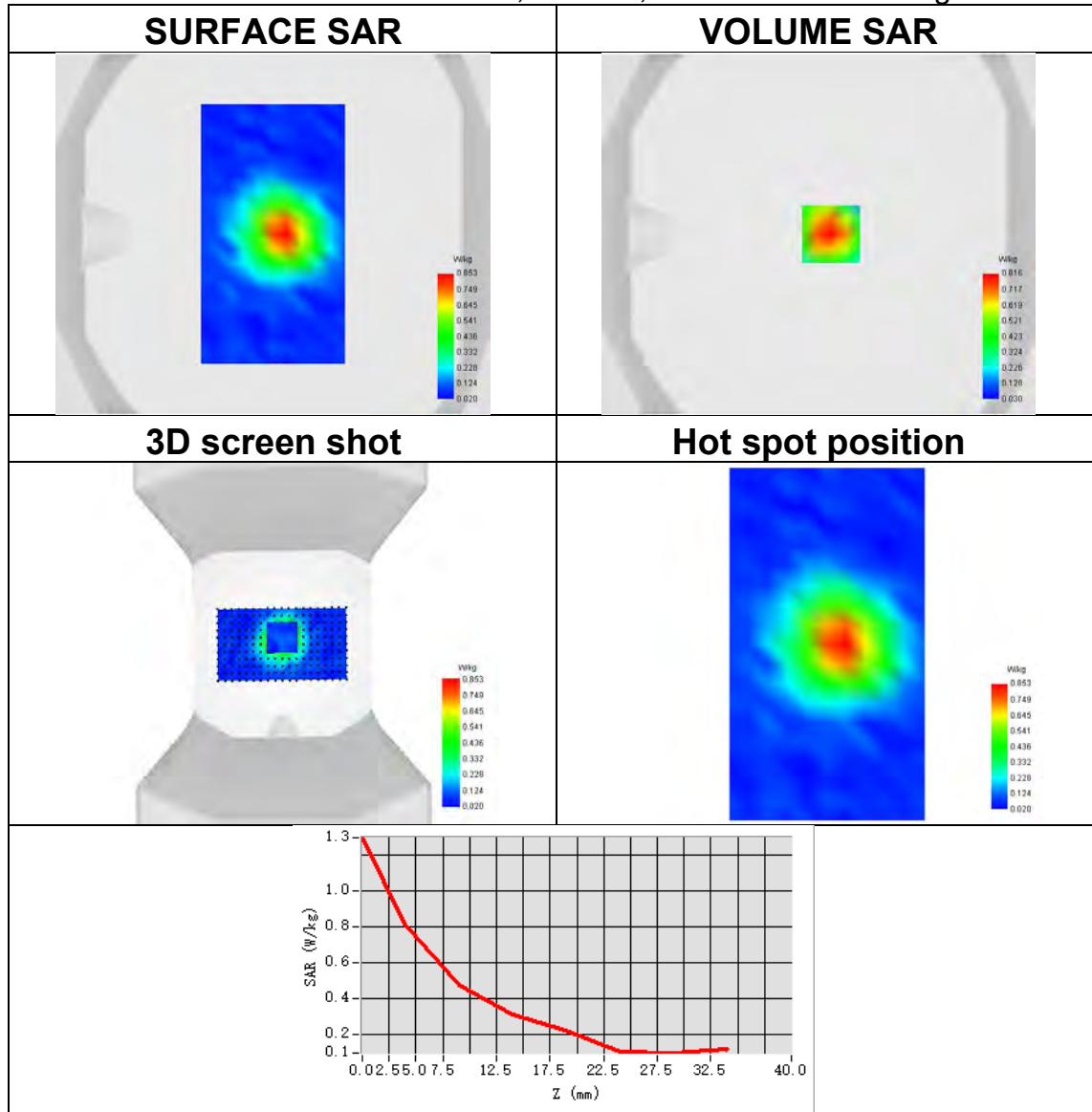




Plot 9:

Test Date	2024-04-20
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)	0.439
SAR 1g (W/Kg)	0.794
ConvF	2.24
Relative permittivity	40.40
Conductivity (S/m)	1.40

Maximum location: X=7.00, Y=0.00 ; SAR Peak: 1.29 W/kg

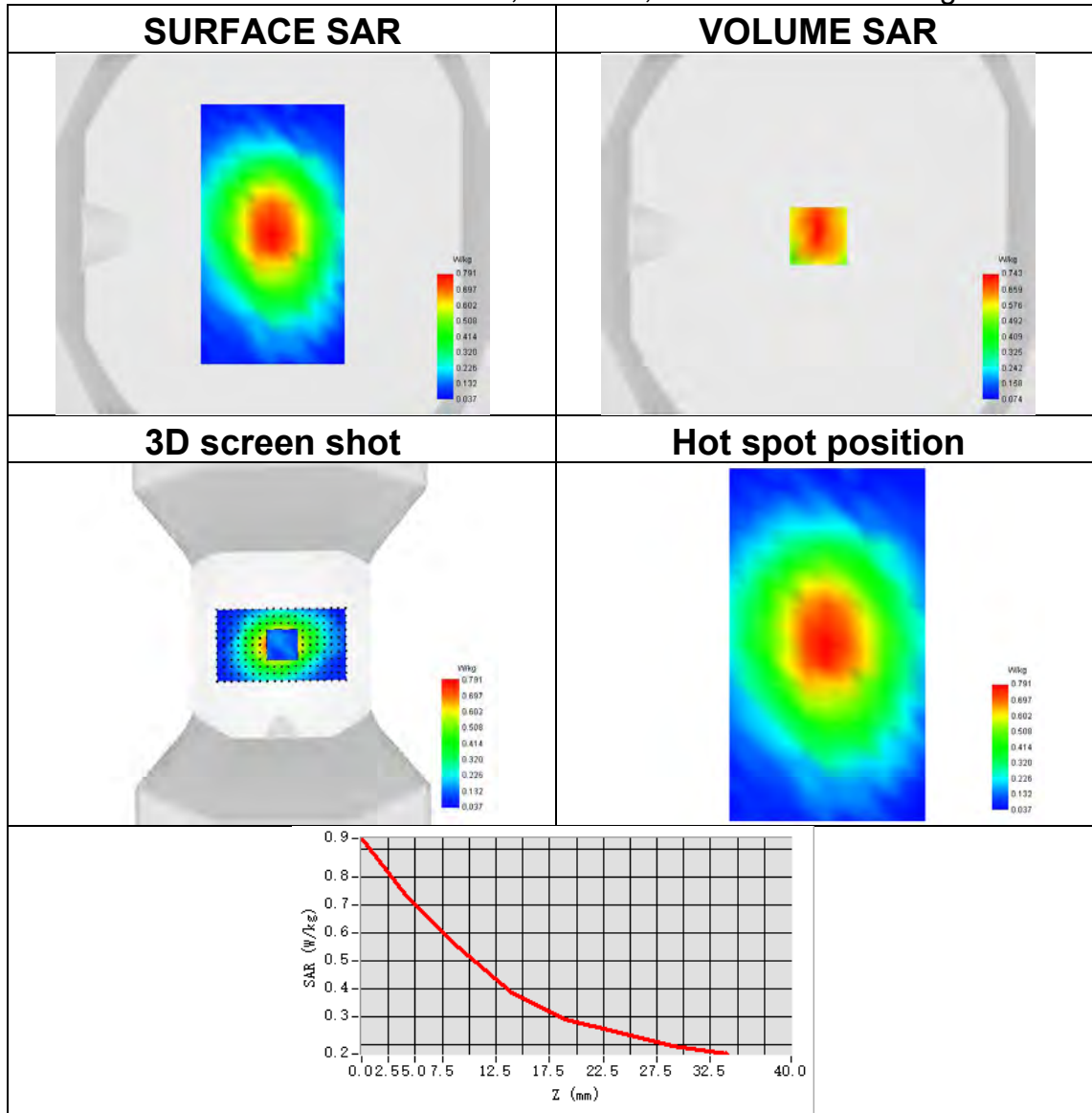




Plot 10:

Test Date	2024-05-04
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Back Side
Band	LTE band 26
Signal	LTE FDD
Frequency	841.5
SAR 10g (W/Kg)	0.481
SAR 1g (W/Kg)	0.703
ConvF	1.70
Relative permittivity	40.73
Conductivity (S/m)	0.94

Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

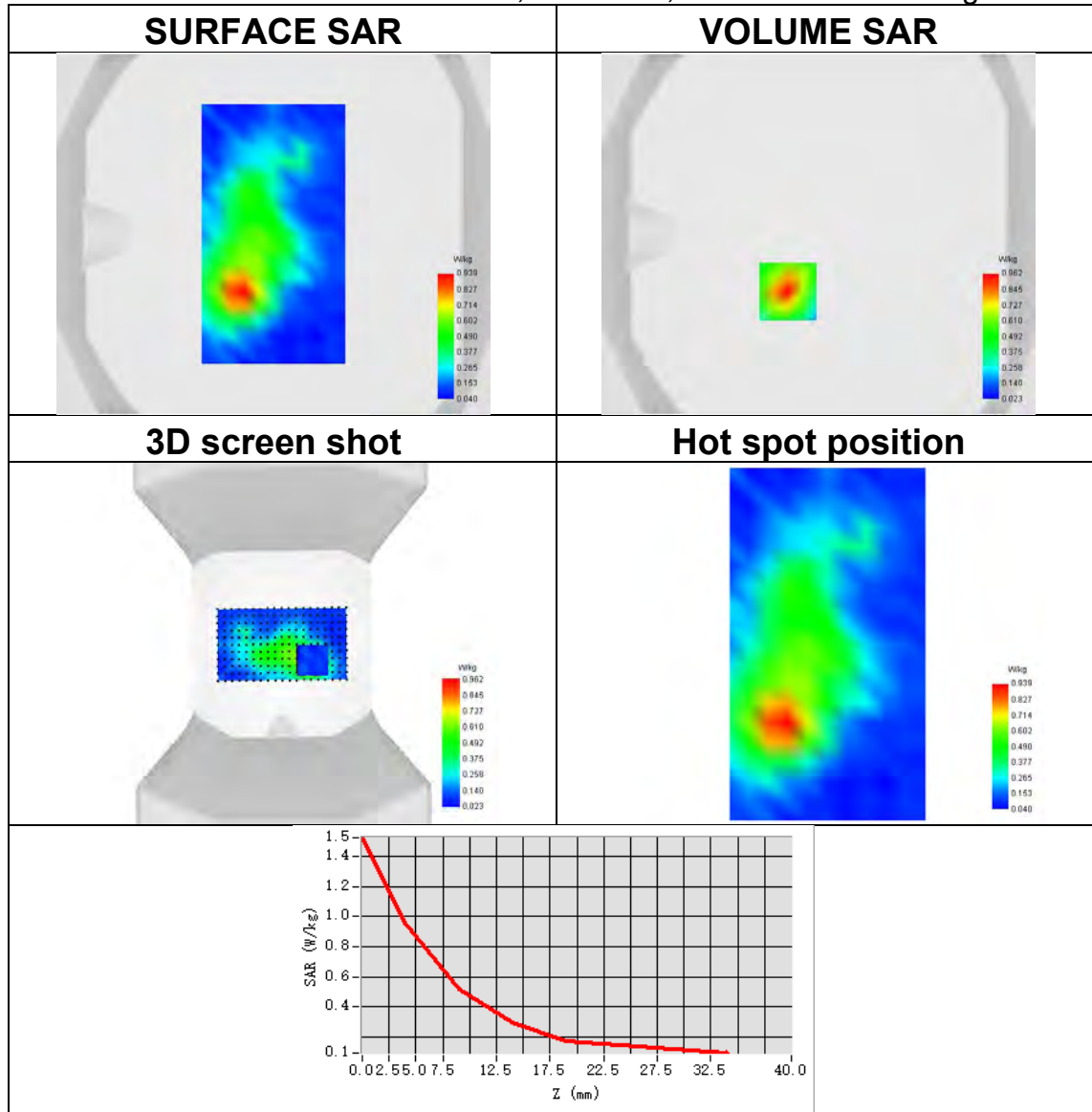




Plot 11:

Test Date	2024-04-28
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 41
Signal	LTE TDD
Frequency	2506
SAR 10g (W/Kg)	0.452
SAR 1g (W/Kg)	0.876
ConvF	2.35
Relative permittivity	39.36
Conductivity (S/m)	1.97

Maximum location: X=-17.00, Y=-32.00 ; SAR Peak: 1.56 W/kg

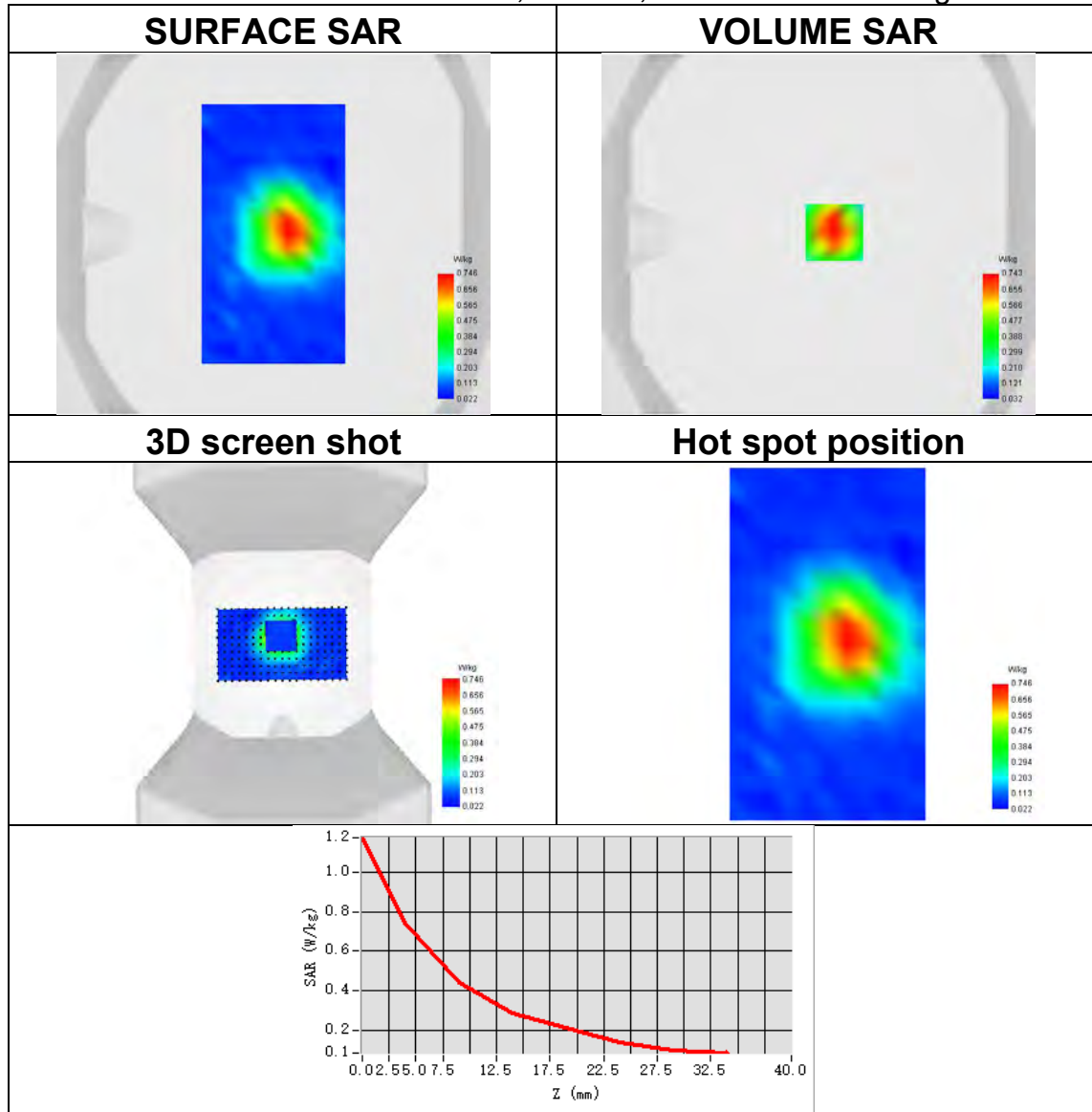




Plot 12:

Test Date	2024-04-27
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)	0.406
SAR 1g (W/Kg)	0.720
ConvF	1.91
Relative permittivity	40.20
Conductivity (S/m)	1.43

Maximum location: X=9.00, Y=1.00 ; SAR Peak: 1.16 W/kg

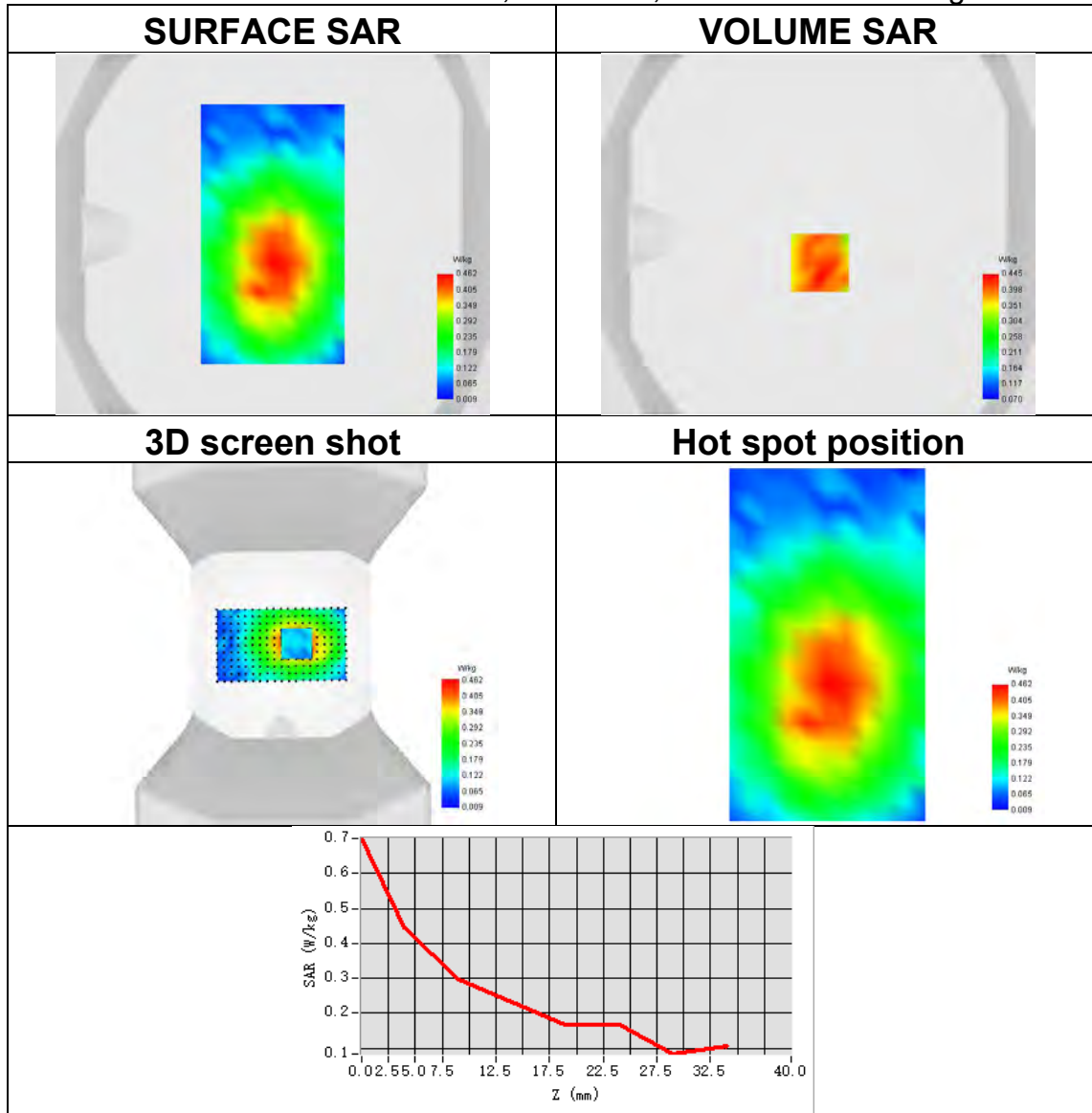




Plot 13:

Test Date	2024-05-05
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	680.5
SAR 10g (W/Kg)	0.291
SAR 1g (W/Kg)	0.450
ConvF	1.68
Relative permittivity	42.33
Conductivity (S/m)	0.86

Maximum location: X=1.00, Y=-16.00 ; SAR Peak: 0.62 W/kg

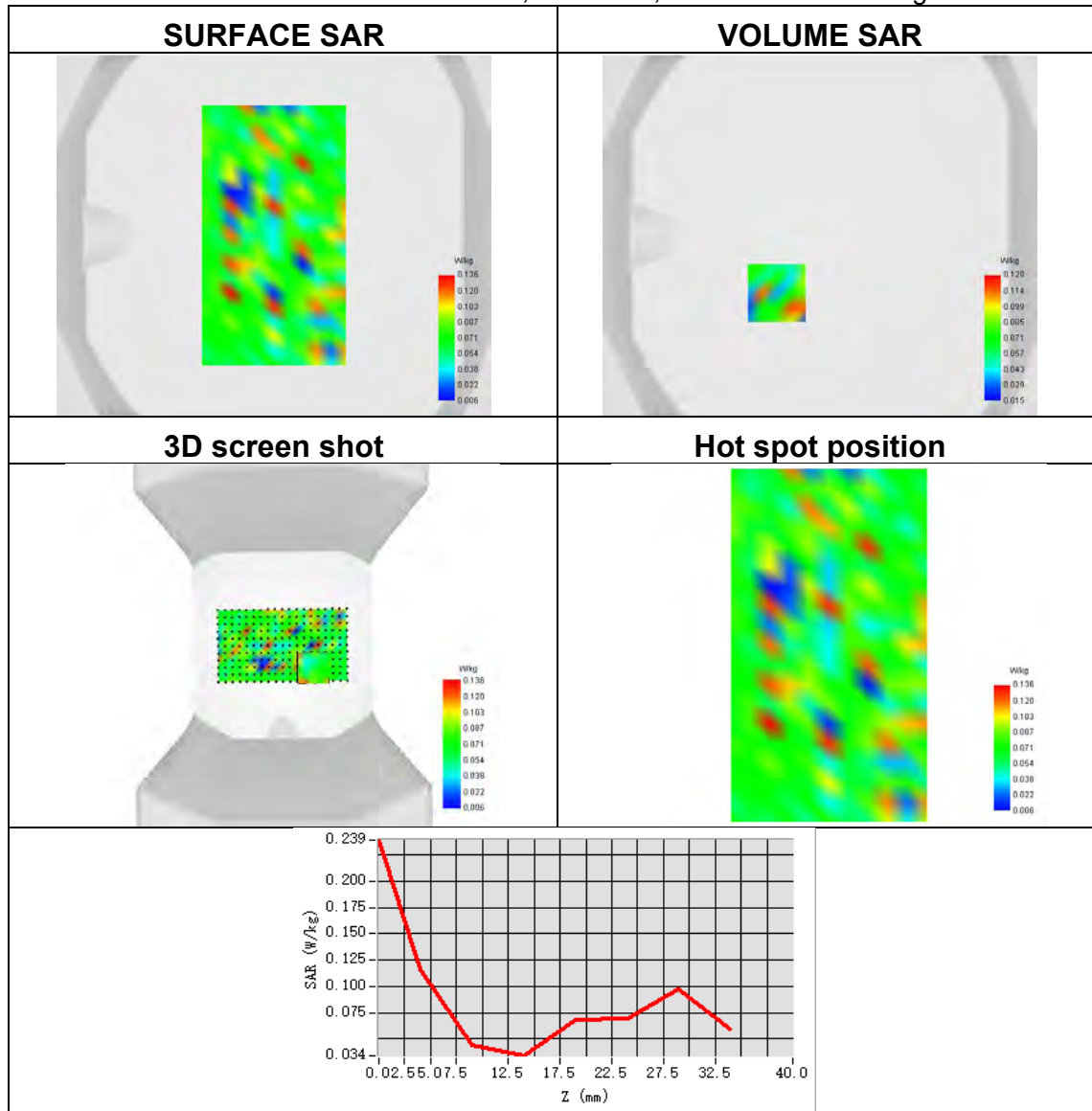




Plot 14:

Test Date	2024-04-30
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 802.11 b
Frequency	2462
SAR 10g (W/Kg)	0.057
SAR 1g (W/Kg)	0.104
ConvF	2.30
Relative permittivity	39.34
Conductivity (S/m)	1.77

Maximum location: X=-24.00, Y=-32.00 ; SAR Peak: 0.23 W/kg

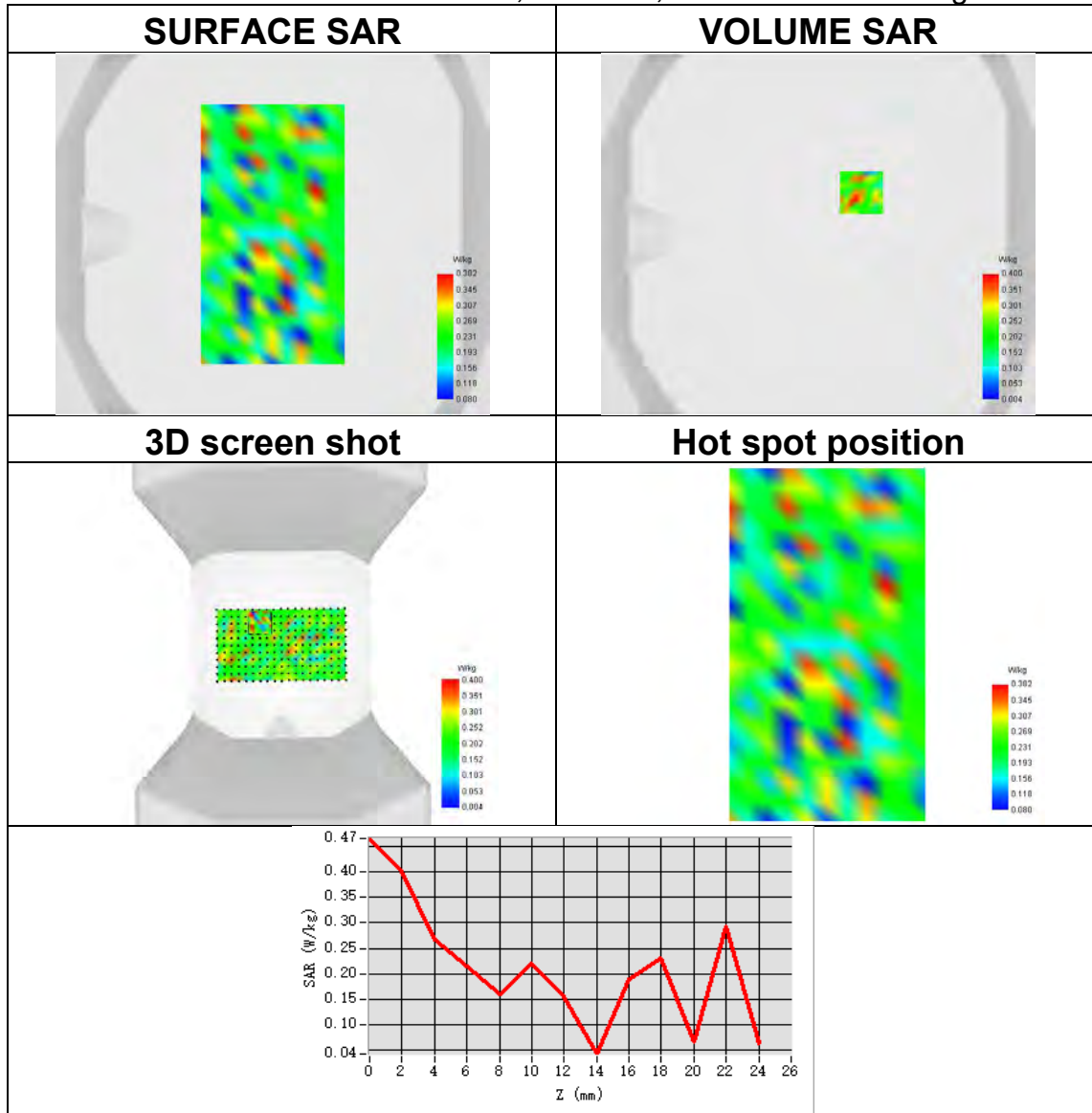




Plot 15:

Test Date	2024-04-29
Area Scan	dx=4mm dy=4mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-1
Signal	IEEE 802.11a
Frequency	5180
SAR 10g (W/Kg)	0.170
SAR 1g (W/Kg)	0.308
ConvF	1.98
Relative permittivity	37.13
Conductivity (S/m)	4.64

Maximum location: X=24.00, Y=23.00 ; SAR Peak: 1.05 W/kg

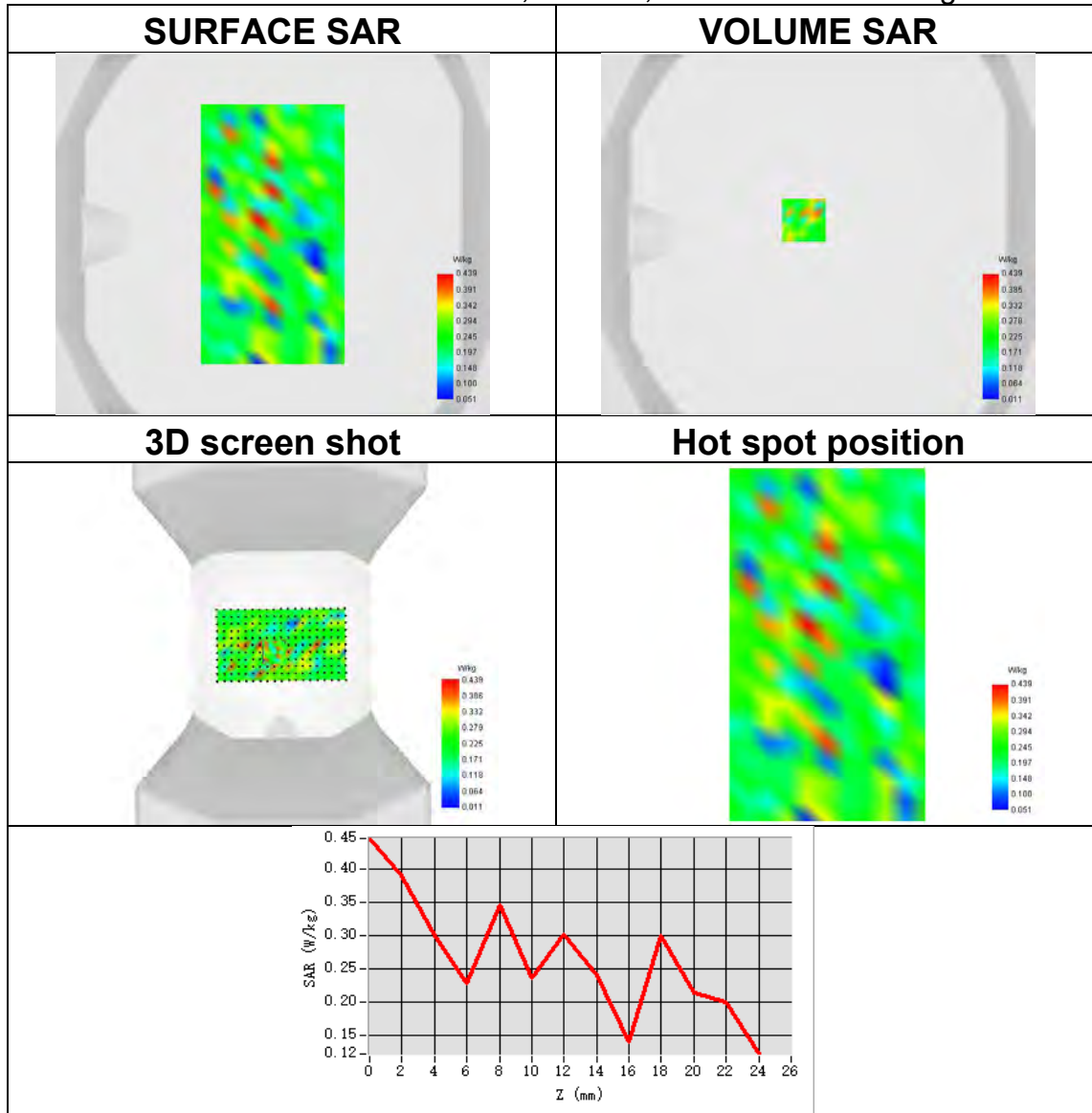




Plot 16:

Test Date	2024-05-02
Area Scan	dx=4mm dy=4mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-2
Signal	IEEE 802.11a
Frequency	5300
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.301
ConvF	1.83
Relative permittivity	36.21
Conductivity (S/m)	4.90

Maximum location: X=-8.00, Y=8.00 ; SAR Peak: 1.18 W/kg

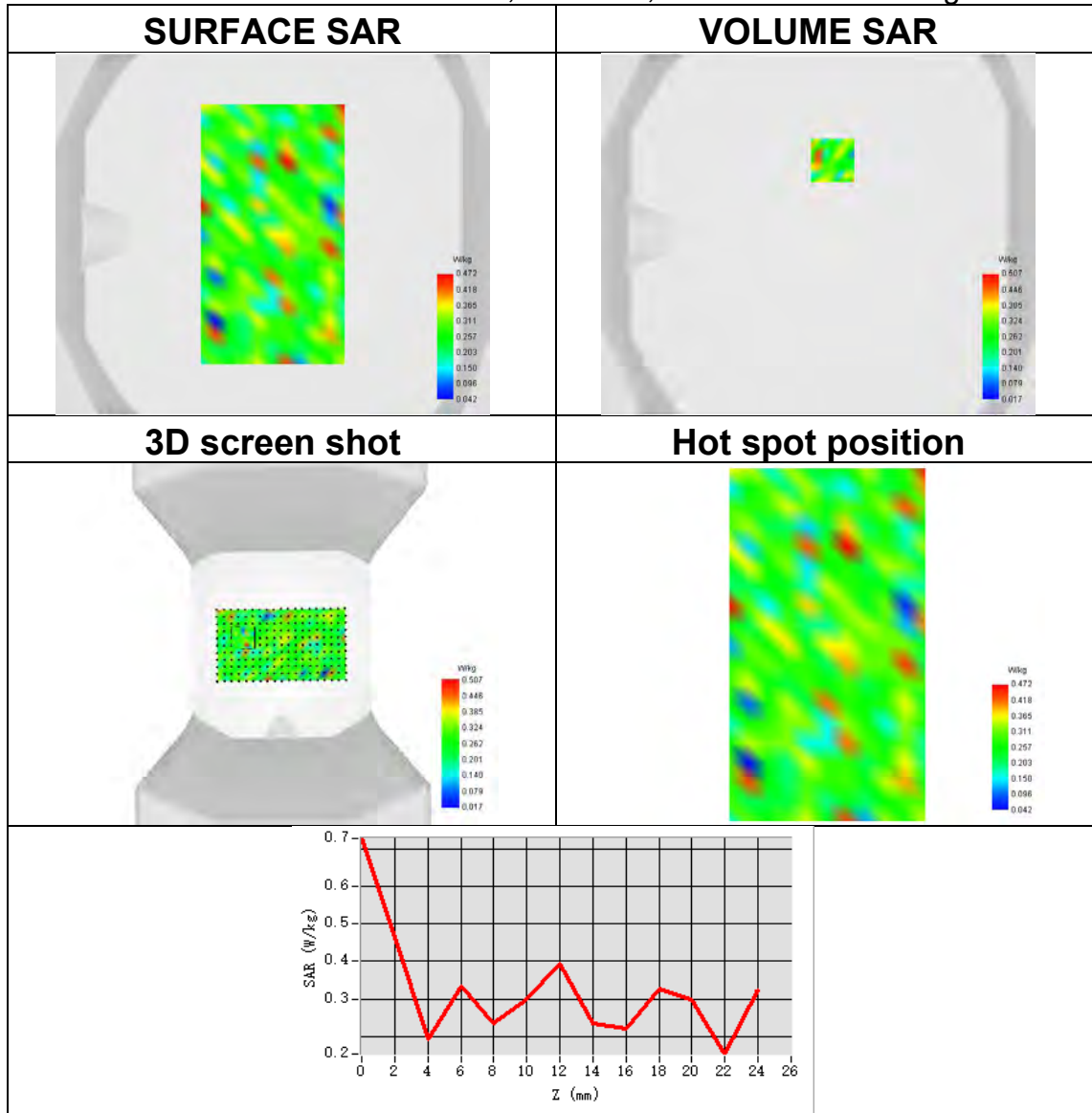




Plot 17:

Test Date	2024-05-02
Area Scan	dx=4mm dy=4mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Left Side
Band	U-NII-3
Signal	IEEE 802.11a
Frequency	5700
SAR 10g (W/Kg)	0.208
SAR 1g (W/Kg)	0.385
ConvF	1.86
Relative permittivity	35.94
Conductivity (S/m)	5.13

Maximum location: X=8.00, Y=41.00 ; SAR Peak: 1.42 W/kg

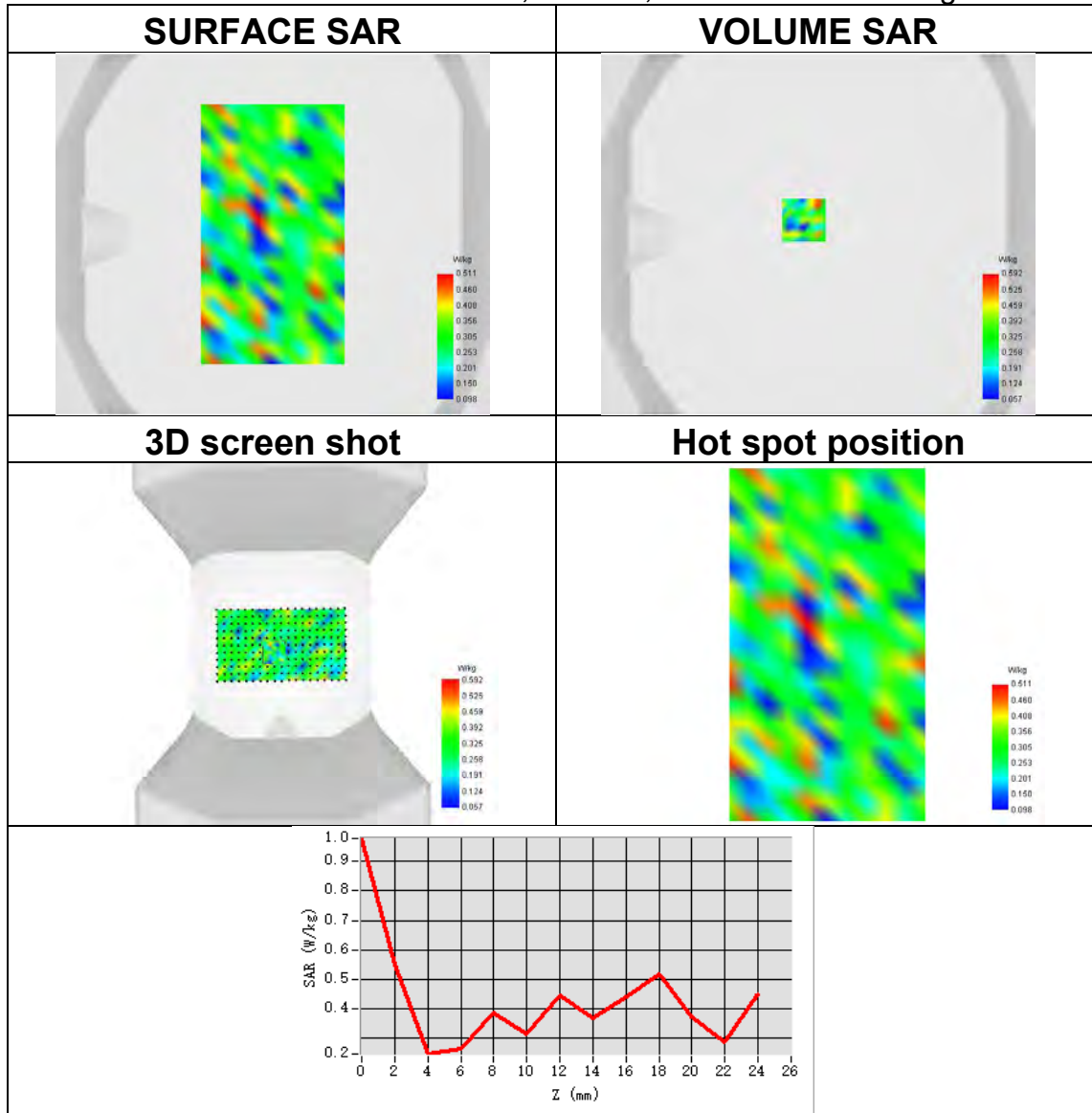




Plot 18:

Test Date	2024-05-03
Area Scan	dx=4mm dy=4mm
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Top Side
Band	U-NII-4
Signal	IEEE 802.11a
Frequency	5745
SAR 10g (W/Kg)	0.191
SAR 1g (W/Kg)	0.348
ConvF	1.71
Relative permittivity	36.09
Conductivity (S/m)	5.23

Maximum location: X=-8.00, Y=8.00 ; SAR Peak: 1.83 W/kg





Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※END OF THE REPORT※※※※