SAR TEST REPORT

Product Name: Pet GPS Tracker

Model Number: G761, G762, G763, G765, G766

FCC ID: 2BTT8TZG761

Issued For	:	Shenzhen TIZE Technology Co.,ltd 205.Building 18, jiatiangang Industrial Zone, Huangtian Community Hangcheng Street, Bao'an District, Shenzhen, China
Issued By	:	Shenzhen LGT Test Service Co., Ltd. Room 205, Building 13, Zone B, Zhenxiong Industrial Park, No.177, Renmin West Road, Jinsha, Kengzi Street, Pingshan District, Shenzhen, Guangdong, China

Report Number:	LGT25L331HA01
Sample Received Date:	Dec.17, 2025
Date of Test	Dec.17, 2025 ~ Jan. 07, 2026
Date of Issue	Jan. 07, 2026
Max. SAR (1g)	Body: 0.0851 W/kg

The test report is effective only with both signature and specialized stamp. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report only apply to the tested sample.

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Revision History

Rev.	Issue Date	Contents
00	Jan. 07, 2026	Initial Issue

TEST REPORT CERTIFICATION

Applicant	Shenzhen TIZE Technology Co.,ltd
Address	205.Building 18, jiatiangang Industrial Zone, Huangtian Community Hangcheng Street, Bao'an District, Shenzhen, China
Manufacture	Shenzhen TIZE Technology Co.,ltd
Address	205.Building 18, jiatiangang Industrial Zone, Huangtian Community Hangcheng Street, Bao'an District, Shenzhen, China
Product Name	Pet GPS Tracker
Trademark	N/A
Model Number	G761
Sample number	LGT2512345

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

Prepared by:

Deng Deng

Engineer

Approved by:

Vita Li

Manager

1. General Information

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

1.1 EUT Description

<table>
<tr><td>Product Name</td><td colspan="2">Pet GPS Tracker</td></tr>
<tr><td>Test Model Number</td><td colspan="2">G761</td></tr>
<tr><td>Series Number</td><td colspan="2">G762, G763, G765, G766</td></tr>
<tr><td>Model Difference</td><td colspan="2">The circuit principles and structure are the same; they only differ in appearance.</td></tr>
<tr><td>Device Category</td><td colspan="2">Portable</td></tr>
<tr><td>Product stage</td><td colspan="2">Production unit</td></tr>
<tr><td>RF Exposure Environment</td><td colspan="2">General Population / Uncontrolled</td></tr>
<tr><td>Hardware Version</td><td colspan="2">A06_MB_V1.3_20250409</td></tr>
<tr><td>Software Version</td><td colspan="2">A06_TZ_US_V1.3.2_20251106_1421</td></tr>
<tr><td>Frequency Range</td><td colspan="2">LTE Band 2:1850 ~1910MHz
LTE Band 4:1710 ~1755MHz
LTE Band 5:824 ~ 849MHz
LTE Band 12:699~716MHz
LTE Band 13:777~787MHz
LTE Band 17:704 ~ 716MHz
LTE Band 25:1850~1915MHz
LTE Band 38:2570~2620MHz
LTE Band 41:2555~2655MHz</td></tr>
<tr><td rowspan="11">Max. Reported SAR(1g):
(Limit:1.6W/kg)
Test distance:
Body:0mm</td><td>Mode</td><td>Body Worn (W/ kg)</td></tr>
<tr><td>LTE Band 2</td><td>0.0704</td></tr>
<tr><td>LTE Band 4</td><td>0.0432</td></tr>
<tr><td>LTE Band 5</td><td>0.0050</td></tr>
<tr><td>LTE Band 12</td><td>0.0851</td></tr>
<tr><td>LTE Band 13</td><td>0.0074</td></tr>
<tr><td>LTE Band 17</td><td>0.0388</td></tr>
<tr><td>LTE Band 25</td><td>0.0847</td></tr>
<tr><td>LTE Band 38</td><td>0.0157</td></tr>
<tr><td>LTE Band 41</td><td>0.0140</td></tr>
<tr><td>Battery</td><td colspan="2">Rated Voltage:3.8V
Capacity:820mAh</td></tr>
<tr><td>Description test modes</td><td colspan="2">Only support single SIM Card.</td></tr>
<tr><td>Operating Mode:</td><td colspan="2">LTE: QPSK, 16QAM</td></tr>
<tr><td>Antenna Specification</td><td colspan="2">LTE: FPC Antenna</td></tr>
<tr><td>Operating Mode</td><td colspan="2">Maximum continuous output</td></tr>
<tr><td>Hotspot Mode</td><td colspan="2">Not Support</td></tr>
<tr><td>DTM Mode</td><td colspan="2">Not Support</td></tr>
</table>

1.2 Test Environment

Ambient conditions in the SAR laboratory:

Items	Required
Temperature (℃)	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
	CAB ID: CN0136

2. Test Standards and Limits

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

(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:

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

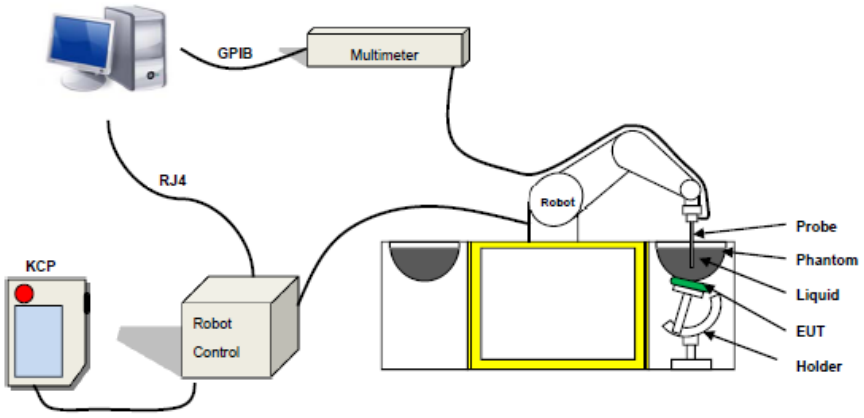
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue;
ρ is the mass density of the tissue and E is the RMS electrical field strength.

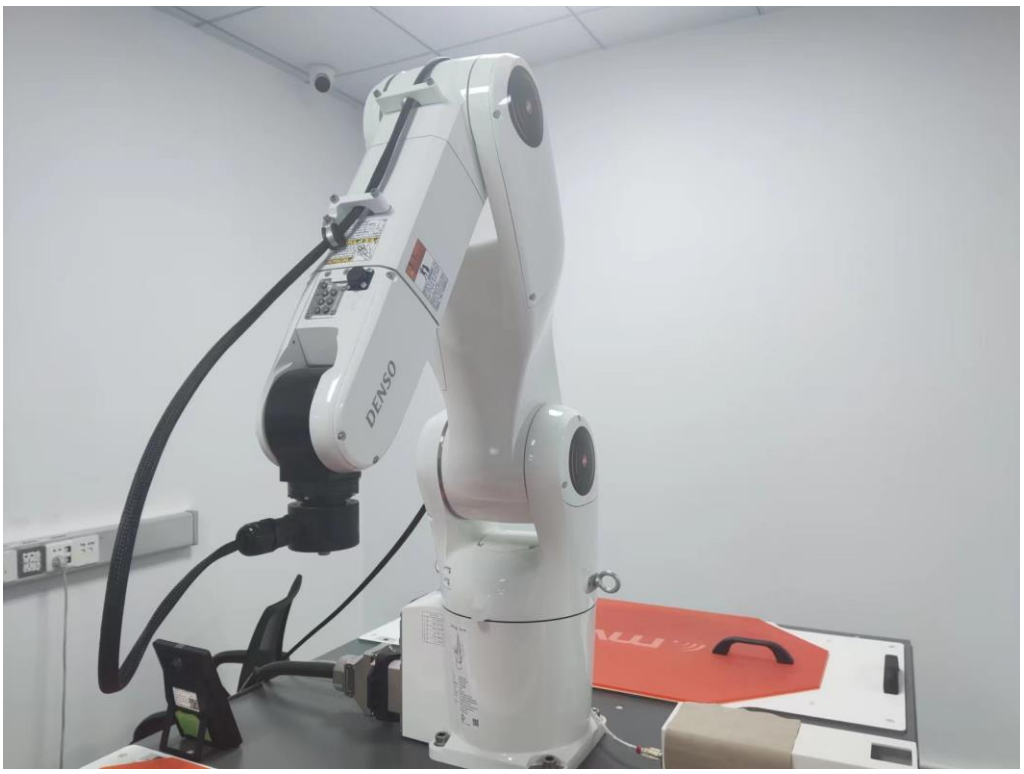
3.2 SAR System

MVG SAR System Diagram:



COMOSAR is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The COMOSAR system consists of the following items:
- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.



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

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe 2225-EPGO-450 with following specifications is used
- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Axial Isotropy: < 0.10 dB
- Spherical Isotropy: < 0.10 dB
- Calibration range: 0.15 GHz to 7.5 GHz for head simulating liquid.
-Angle between probe axis (evaluation axis) and surface normal line: less than 30°

Figure 1-MVG COMOSAR Dosimetric E field Probe

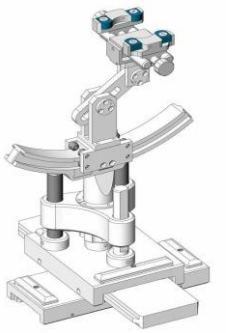
3.2.2 Phantom

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

Figure-SN 06/22 SAM 148

Figure-SN 06/22 ELLI 51

3.2.3 Device Holder



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

4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of 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	εr	σ 10g S/m
300	45.3	0.87
450	43.5	0.87
750	41.9	0.89
835	41.5	0.90
900	41.5	0.97
1450	40.5	1.20
1800 to 2000	40.0	1.40
2100	39.8	1.49
2450	39.2	1.80
2600	39.0	1.96
3000	38.5	2.40
3500	37.9	2.91
4000	37.4	3.43
4500	36.8	3.94
5000	36.2	4.45
5200	36.0	4.66
5400	35.8	4.86
5600	35.5	5.07
5800	35.3	5.27

LIQUID MEASUREMENT RESULTS

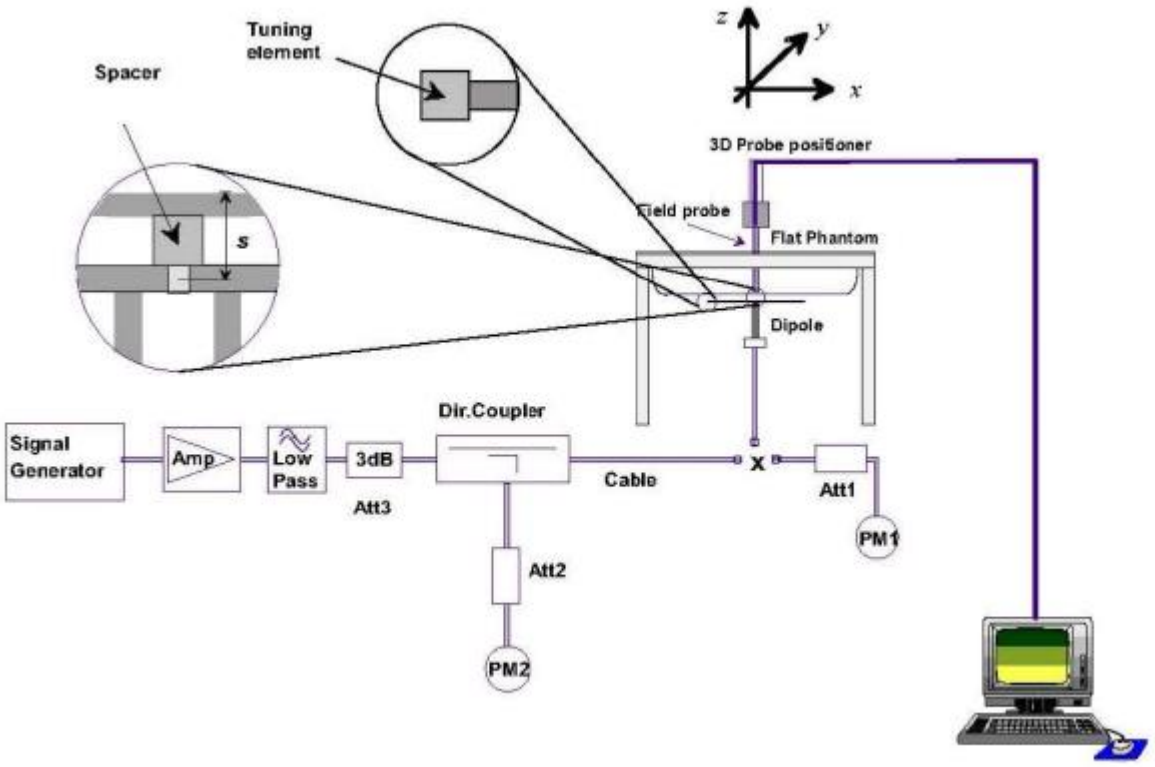
Date	Ambient		Simulating Liquid		Parameters	Target	Measured	Deviation %	Limited %
	Temp. [°C]	Humidity %	Frequency (MHz)	Temp. [°C]					
2025-12-26	22.9	57	750	22.7	Permittivity	41.90	42.36	1.10	±5
					Conductivity	0.89	0.86	-3.37	±5
2025-12-24	20.1	55	835	19.8	Permittivity	41.50	41.78	0.67	±5
					Conductivity	0.90	0.93	3.33	±5
2025-12-25	21.4	46	1800	21	Permittivity	40.00	40.52	1.30	±5
					Conductivity	1.40	1.38	-1.43	±5
2025-12-30	23.3	44	1900	22.9	Permittivity	40.00	41.01	2.53	±5
					Conductivity	1.40	1.42	1.43	±5
2025-12-27	20.1	55	2600	19.9	Permittivity	39.00	39.91	2.33	±5
					Conductivity	1.96	1.97	0.51	±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 ±10 %.

Date	Freq.	Power	Tested Value	Normalized SAR	Target SAR	Tolerance	Limit
	(MHz)	(mW)	(W/Kg)	(W/kg)	1g(W/kg)	(%)	(%)
2025-12-26	750	100	0.830	8.30	8.51	-2.47	10
2025-12-24	835	100	0.953	9.53	9.63	-1.04	10
2025-12-25	1800	100	3.675	36.75	36.60	0.41	10
2025-12-30	1900	100	4.143	41.43	40.20	3.06	10
2025-12-27	2600	100	5.715	57.15	56.15	1.78	10

Note:

1. The tolerance limit of System validation ±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 to16 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.

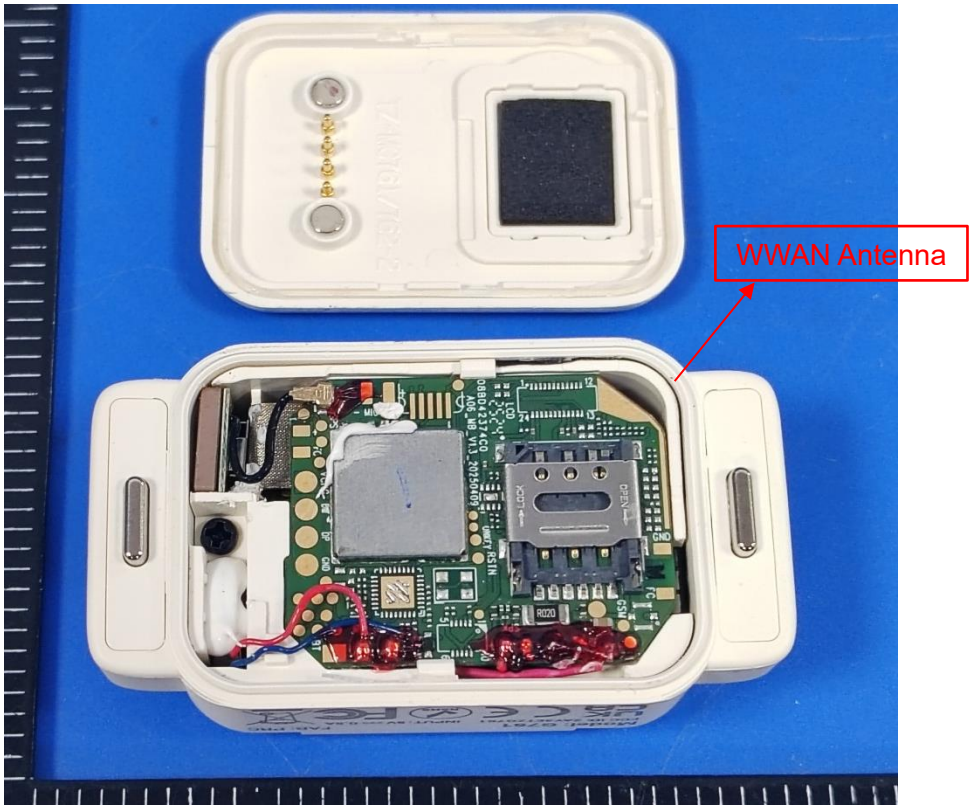
➢ Area Scan& Zoom Scan

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 Pet GPS Tracker, support LTE mode.



(Front view)

Antenna Separation Distance(mm)						
ANT	Back Side	Front Side	Left Side	Right Side	Top Side	Bottom Side
WWAN	≤5	≤5	≤5	≤5	≤5	≤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 SAR evaluation of Maximum power (dBm) summing tolerance.

Exposure Position	Wireless Interface	LTE Band 2	LTE Band 4	LTE Band 5	LTE Band 12	LTE Band 13
	Calculated Frequency (MHz)	1860	1732.5	829	707.5	782
	Maximum Turn-up power (dBm)	24.3	24.8	25	23.3	23.5
	Maximum rated power(mW)	269.15	302.00	316.23	213.80	223.87
Back Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	5	5	5	5	5
	exclusion threshold(mW)	11.00	11.40	16.47	17.83	16.96
	Testing required?	YES	YES	YES	YES	YES

Exposure Position	Wireless Interface	LTE Band 17	LTE Band 25	LTE Band 38	LTE Band 41
	Calculated Frequency (MHz)	709	1860	2610	2593
	Maximum Turn-up power (dBm)	23	24	25.2	24.53
	Maximum rated power(mW)	199.53	251.19	331.13	283.79
Back Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES
Front Side	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES
Left Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES
Right Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES
Top Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES
Bottom Edge	Separation distance (mm)	5	5	5	5
	exclusion threshold(mW)	17.81	11.00	9.28	9.32
	Testing required?	YES	YES	YES	YES

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 ≤50mm are determined by:
   [(max.power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)]*[√f(GHz）)≤3.0 for 1-g SAR and≤7.5 for10-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

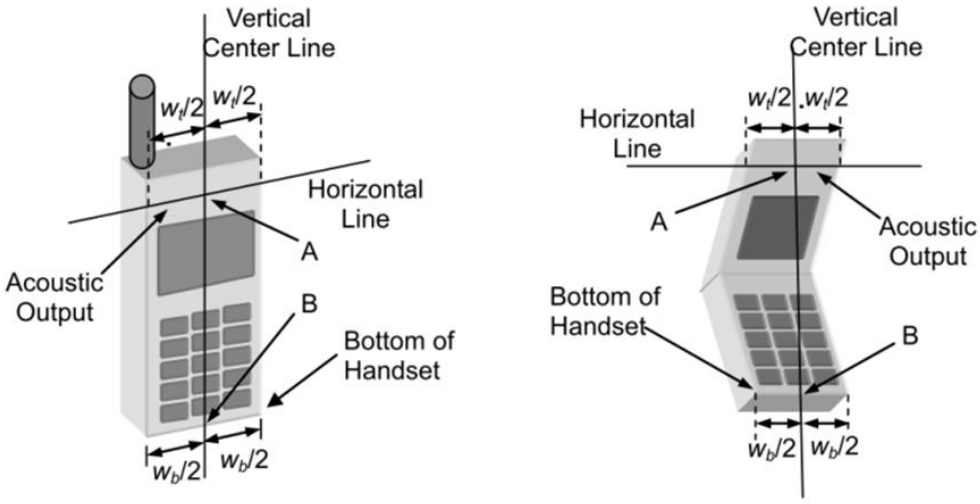
b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at＞1500MHz and≤ 6GHz

8. EUT Test Position

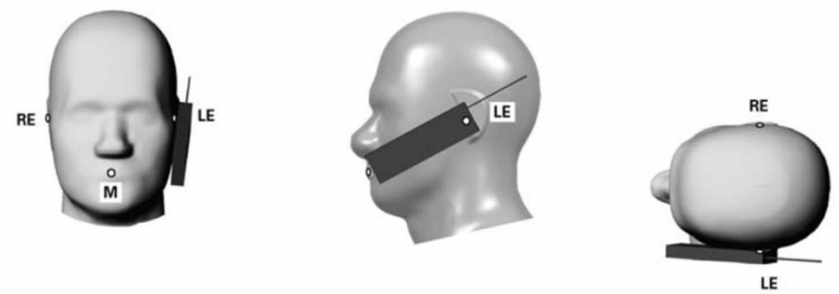
This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

8.1 Define Two Imaginary Lines on the Handset

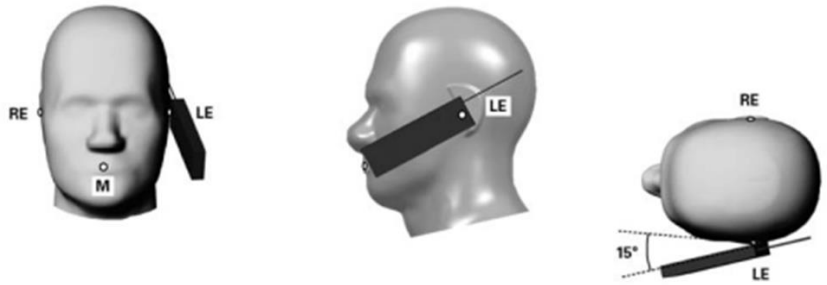
(1) The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
(2) The horizontal line is perpendicular to the vertical centerline and passes through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



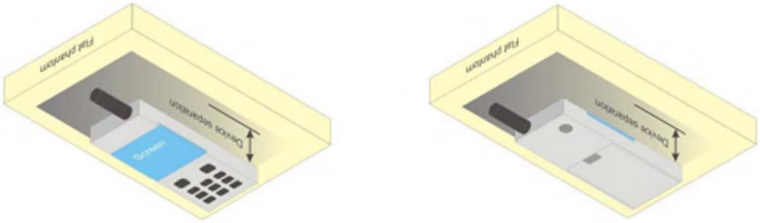
Cheek Position
1) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane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



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

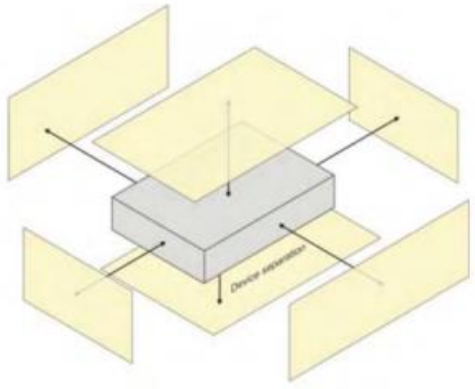


Body-worn Position Conditions:
Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB Publication 447498 D01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. When the same wireless transmission configuration is used for testing body-worn accessory and hotspot mode SAR, respectively, in voice and data mode, SAR results for the most conservative *test separation distance* configuration may be used to support both SAR conditions. When the *reported* SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 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 form that surface or edge. When form factor of a handset is smaller than 9cm x 5cm, a test separation distance of 5mm (instead of 10mm) is required for testing hotspot mode. When the separate distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



9. Uncertainty

9.1 Measurement Uncertainty

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

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

9.2 System validation Uncertainty

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

10. Conducted Power Measurement

10.1 Test Result

LTE Conducted Power

General Note:

1. CMW500 base station simulator was used to setup the connection with EUT; the frequency band, channel bandwidth, RB allocation configuration, modulation type are set in the base station simulator to configure EUT transmitting at maximum power and at different configurations which are requested to be reported to FCC, for conducted power measurement and SAR testing.
2. Per KDB 941225 D05, when a properly configured base station simulator is used for the SAR and power measurements, spectrum plots for each RB allocation and offset configuration is not required.
3. Per KDB 941225 D05, start with the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
4. Per KDB 941225 D05, 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure.
5. Per KDB 941225 D05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation are $\leqslant$ 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 ½ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leqslant$ 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 ½ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is $\leqslant$ 1.45 W/kg; Per KDB 941225 D05, smaller bandwidth SAR testing is not required.

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.52	22.99	23.29
1.4	1	2		23.5	22.97	23.27
1.4	1	5		23.46	22.93	23.22
1.4	3	0		23.25	22.93	23.2
1.4	3	1		23.23	22.89	23.18
1.4	3	2		23.33	22.86	23.18
1.4	6	0		22.24	21.82	22.25
1.4	1	0	16-QAM	22.48	22.12	22.14
1.4	1	2		22.48	22.07	22.13
1.4	1	5		22.52	22.08	22.14
1.4	3	0		22.47	22.19	22.4
1.4	3	1		22.46	22.19	22.4
1.4	3	2		22.45	22.17	22.42
1.4	6	0		21.48	21.12	21.5
3	1	0	QPSK	23.23	22.91	23.37
3	1	7		23.34	22.81	23.41
3	1	14		23.26	22.77	23.21
3	8	0		22.29	21.91	22.33
3	8	4		22.43	21.87	22.33
3	8	7		22.41	21.87	22.33
3	15	0		22.34	21.86	22.34
3	1	0	16-QAM	22.65	22.12	22.23
3	1	7		22.81	22.11	22.23
3	1	14		22.71	22.02	22.06
3	8	0		21.34	20.94	21.44
3	8	4		21.39	20.97	21.4
3	8	7		21.38	20.9	21.35
3	15	0		21.35	20.88	21.44

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.37	22.01	23.52
5	1	12		23.44	22.85	23.47
5	1	24		23.4	22.88	23.31
5	12	0		22.27	21.89	22.38
5	12	6		22.39	21.89	22.45
5	12	11		22.33	21.81	22.31
5	25	0		22.32	21.81	22.36
5	1	0	16-QAM	22.79	22.34	22.74
5	1	12		22.97	22.22	22.77
5	1	24		22.97	22.16	22.58
5	12	0		21.29	20.87	21.47
5	12	6		21.42	20.87	21.55
5	12	11		21.38	20.76	21.4
5	25	0		21.29	20.85	21.4
10	1	0	QPSK	23.35	22.2	23.94
10	1	24		23.43	22.75	23.49
10	1	49		23.82	22.85	23.36
10	25	0		22.14	21.74	22.35
10	25	12		22.33	21.76	22.43
10	25	24		22.3	21.58	22.22
10	50	0		22.19	21.61	22.22
10	1	0	16-QAM	22.65	21.29	22.52
10	1	24		22.76	21.96	22.21
10	1	49		23.11	21.98	22.05
10	25	0		21.19	20.81	21.3
10	25	12		21.4	20.75	21.42
10	25	24		21.38	20.67	21.21

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.13	22.58	22.59
15	1	37		23.69	22.62	23.61
15	1	74		23.84	22.7	23.13
15	36	0		22.15	21.76	21.74
15	36	18		22.64	21.51	22.5
15	36	39		22.79	21.45	22.12
15	75	0		23.05	22.68	22.65
15	1	0	16-QAM	22.65	21.46	22.09
15	1	38		22.87	21.83	22.51
15	1	75		23.49	21.98	22.2
15	36	0		21.24	21.01	21.17
15	36	18		21.56	20.77	21.38
15	36	39		21.92	20.64	21.21
20	1	0	QPSK	23.32	22.35	23.18
20	1	49		23.51	22.67	23.54
20	1	99		24.16	22.82	23.22
20	50	0		22.29	21.9	22.39
20	50	24		22.55	21.66	22.41
20	50	49		22.83	21.63	22.23
20	100	0		23.51	22.67	23.07
20	1	0	16-QAM	22.35	21.67	21.69
20	1	49		23.01	21.82	22.66
20	1	99		23.13	21.86	22.22
20	50	0		21.02	20.99	20.44
20	50	24		21.76	20.67	21.43
20	50	49		21.91	20.49	20.96

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.8	24.22	23.48
1.4	1	2		23.75	24.26	23.54
1.4	1	5		23.73	24.28	23.51
1.4	3	0		23.61	24.21	23.53
1.4	3	1		23.6	24.24	23.52
1.4	3	2		23.67	24.28	23.62
1.4	6	0		22.41	23.27	22.52
1.4	1	0	16-QAM	22.26	23.3	22.65
1.4	1	2		22.24	23.3	22.65
1.4	1	5		22.29	23.37	22.74
1.4	3	0		22.56	23.39	22.74
1.4	3	1		22.57	23.41	22.77
1.4	3	2		22.62	23.42	22.78
1.4	6	0		21.53	22.42	21.76
3	1	0	QPSK	23.62	24.1	23.48
3	1	7		23.78	24.22	23.57
3	1	14		23.7	24.16	23.59
3	8	0		22.58	23.27	22.51
3	8	4		22.61	23.3	22.59
3	8	7		22.68	23.32	22.59
3	15	0		22.58	23.3	22.58
3	1	0	16-QAM	22.78	23.33	22.31
3	1	7		22.95	23.42	22.42
3	1	14		22.95	23.4	22.37
3	8	0		21.43	22.24	21.5
3	8	4		21.52	22.34	21.54
3	8	7		21.6	22.33	21.63
3	15	0		21.51	22.28	21.6

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.98	24.43	23.5
5	1	12		24	24.42	23.53
5	1	24		24.19	24.34	23.61
5	12	0		22.65	23.28	22.47
5	12	6		22.85	23.42	22.57
5	12	11		22.87	23.31	22.62
5	25	0		22.79	23.36	22.5
5	1	0	16-QAM	23.11	23.58	22.73
5	1	12		23.2	23.63	22.81
5	1	24		23.38	23.58	22.97
5	12	0		21.48	22.22	21.52
5	12	6		21.7	22.37	21.63
5	12	11		21.72	22.31	21.62
5	25	0		21.61	22.34	21.53
10	1	0	QPSK	24.21	24.4	23.58
10	1	24		24.02	24.2	23.35
10	1	49		24.58	24.16	23.68
10	25	0		22.6	23.13	22.13
10	25	12		22.91	23.24	22.27
10	25	24		23.06	23.06	22.23
10	50	0		22.79	23.1	22.15
10	1	0	16-QAM	23.06	23.42	22.34
10	1	24		23.12	23.32	22.14
10	1	49		23.61	23.27	22.4
10	25	0		21.5	22.1	21.18
10	25	12		21.8	22.21	21.33
10	25	24		21.96	22.04	21.47

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.03	23.94	23.68
15	1	37		23.54	23.98	23.48
15	1	74		23.75	23.77	23.53
15	36	0		22.13	23.02	22.44
15	36	18		22.53	23.07	22.46
15	36	39		22.74	22.95	22.35
15	75	0		23.6	23.33	23.48
15	1	0	16-QAM	22.37	23.21	22.74
15	1	38		22.98	23.25	22.52
15	1	75		23.21	22.99	22.61
15	36	0		21.02	22.1	21.52
15	36	18		21.65	22.19	21.51
15	36	39		21.8	22.04	21.44
20	1	0	QPSK	23.99	24.58	24.01
20	1	49		24.49	24.48	23.48
20	1	99		24.44	23.8	23.38
20	50	0		22.93	23.28	22.52
20	50	24		23.39	23.33	22.42
20	50	49		23.4	22.98	22.13
20	100	0		22.21	23.12	22.88
20	1	0	16-QAM	22.92	23.44	23.1
20	1	49		23.67	23.5	22.66
20	1	99		23.63	22.82	22.58
20	50	0		21.58	22.14	21.45
20	50	24		22.47	22.32	21.46
20	50	49		22.32	21.59	21.05

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	24.34	22.97	23.11
1.4	1	2		24.55	23.02	23.07
1.4	1	5		24.69	22.98	22.95
1.4	3	0		24.28	22.96	23.03
1.4	3	1		24.39	22.96	23.00
1.4	3	2		24.53	23.01	22.98
1.4	6	0		23.49	21.98	22.09
1.4	1	0	16-QAM	23.34	22.11	22.02
1.4	1	2		23.57	22.13	22.00
1.4	1	5		23.78	22.18	21.93
1.4	3	0		23.44	22.17	22.28
1.4	3	1		23.60	22.20	22.25
1.4	3	2		23.73	22.22	22.25
1.4	6	0		22.66	21.20	21.31
3	1	0	QPSK	24.16	22.74	23.31
3	1	7		24.78	23.02	23.25
3	1	14		24.71	22.82	22.89
3	8	0		23.57	21.88	22.27
3	8	4		23.78	21.97	22.24
3	8	7		23.84	22.00	22.09
3	15	0		23.69	21.95	22.21
3	1	0	16-QAM	23.54	21.87	22.25
3	1	7		24.15	22.16	22.15
3	1	14		24.15	22.05	21.82
3	8	0		22.57	20.89	21.30
3	8	4		22.78	21.06	21.28
3	8	7		22.85	21.06	21.13
3	15	0		22.74	20.99	21.32

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	24.38	22.81	23.26
5	1	12		24.35	22.97	23.79
5	1	24		22.95	23.61	23.06
5	12	0		23.53	21.61	22.52
5	12	6		23.3	21.97	22.66
5	12	11		22.35	21.99	22.28
5	25	0		22.97	21.96	22.36
5	1	0	16-QAM	23.8	22.13	23.06
5	1	12		24.41	22.29	22.76
5	1	24		23.96	22.4	22.34
5	12	0		22.61	20.76	21.61
5	12	6		22.92	21.03	21.54
5	12	11		22.68	20.96	21.25
5	25	0		22.67	21.04	21.4
10	1	0	QPSK	24.33	22.92	23.67
10	1	24		24.91	23.07	23.34
10	1	49		24.41	23.1	23
10	25	0		23.64	21.78	22.53
10	25	12		23.92	21.99	22.46
10	25	24		23.66	21.96	22.18
10	50	0		23.68	21.96	22.38
10	1	0	16-QAM	23.71	21.83	22.06
10	1	24		23.72	22.1	22.61
10	1	49		22.25	22.69	21.87
10	25	0		22.51	20.64	21.53
10	25	12		22.31	21.05	21.7
10	25	24		21.37	21.03	21.33

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.74	22.51	22.29
1.4	1	2		22.84	22.59	22.31
1.4	1	5		22.78	22.69	22.06
1.4	3	0		22.55	22.50	22.22
1.4	3	1		22.55	22.55	22.20
1.4	3	2		22.65	22.62	22.10
1.4	6	0		21.64	21.59	21.20
1.4	1	0	16-QAM	21.83	21.76	21.22
1.4	1	2		21.88	21.80	21.21
1.4	1	5		21.89	21.99	21.04
1.4	3	0		21.85	21.80	21.47
1.4	3	1		21.85	21.85	21.47
1.4	3	2		21.87	21.96	21.39
1.4	6	0		20.88	20.85	20.52
3	1	0	QPSK	22.57	22.23	22.15
3	1	7		22.68	22.61	22.27
3	1	14		22.40	22.80	21.95
3	8	0		21.59	21.38	21.21
3	8	4		21.59	21.58	21.26
3	8	7		21.54	21.71	21.22
3	15	0		21.55	21.58	21.21
3	1	0	16-QAM	21.95	21.47	21.09
3	1	7		22.17	21.87	21.20
3	1	14		21.93	22.06	20.83
3	8	0		20.69	20.45	20.23
3	8	4		20.79	20.63	20.28
3	8	7		20.69	20.79	20.24
3	15	0		20.74	20.59	20.30

LTE Band 12 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.5	22.27	22.34
5	1	12		22.22	22.5	22.71
5	1	24		22.87	22.5	22.16
5	12	0		21.14	21.01	21.58
5	12	6		21.26	21.5	21.56
5	12	11		21.16	21.56	21.09
5	25	0		21.22	21.36	21.32
5	1	0	16-QAM	22.22	21.68	21.95
5	1	12		22.21	21.97	21.66
5	1	24		22	22.45	21.45
5	12	0		20.62	20.3	20.37
5	12	6		20.64	20.57	20.36
5	12	11		20.44	20.76	20.24
5	25	0		20.5	20.59	20.27
10	1	0	QPSK	22.67	22.38	22.62
10	1	24		22.67	22.59	22.19
10	1	49		22.4	23.06	22
10	25	0		21.49	21.25	21.29
10	25	12		21.55	21.56	21.28
10	25	24		21.4	21.81	21.17
10	50	0		21.47	21.54	21.25
10	1	0	16-QAM	21.96	21.41	21.25
10	1	24		21.73	21.72	21.57
10	1	49		22.32	21.67	21.08
10	25	0		20.23	20.05	20.61
10	25	12		20.32	20.55	20.65
10	25	24		20.28	20.66	20.15

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.08	22.75	22.14
5	1	12		22.81	22.00	21.89
5	1	24		22.26	21.89	22.34
5	12	0		21.59	21.21	20.59
5	12	6		21.55	20.91	20.62
5	12	11		21.30	20.67	20.64
5	25	0		21.45	20.76	20.61
5	1	0	16-QAM	22.07	21.85	21.49
5	1	12		21.93	21.23	21.21
5	1	24		21.43	20.99	21.61
5	12	0		20.47	20.16	19.51
5	12	6		20.44	19.85	19.54
5	12	11		20.24	19.60	19.54
5	25	0		20.37	19.64	19.49
10	1	0	QPSK	/	23.23	/
10	1	24		/	22.07	/
10	1	49		/	22.47	/
10	25	0		/	21.34	/
10	25	12		/	20.9	/
10	25	24		/	20.5	/
10	50	0		/	20.6	/
10	1	0	16-QAM	/	22.26	/
10	1	24		/	21.35	/
10	1	49		/	21.48	/
10	25	0		/	20.25	/
10	25	12		/	19.86	/
10	25	24		/	19.46	/

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.75	21.7	21.87
5	1	12		22.65	22.4	22.16
5	1	24		21.93	22.02	21.77
5	12	0		20.87	21.02	21.16
5	12	6		21.43	21.25	21.11
5	12	11		21.06	20.86	20.71
5	25	0		21.1	20.92	20.88
5	1	0	16-QAM	21.26	21.72	21.80
5	1	12		21.44	21.85	21.59
5	1	24		22.12	21.44	21.28
5	12	0		19.84	20.65	19.97
5	12	6		20.04	20.60	19.97
5	12	11		20.31	20.31	19.95
5	25	0		20.10	20.29	19.90
10	1	0	QPSK	21.89	22.44	22.21
10	1	24		22.08	22.49	21.94
10	1	49		22.75	22.51	22.68
10	25	0		20.81	21.53	20.92
10	25	12		21.06	21.53	20.92
10	25	24		21.01	21.24	20.88
10	50	0		21.06	21.24	20.92
10	1	0	16-QAM	21.16	20.86	20.69
10	1	24		22.07	21.65	21.13
10	1	49		21.36	21.13	20.61
10	25	0		19.95	20.04	20.24
10	25	12		20.51	20.28	20.17
10	25	24		20.11	19.89	19.77

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.21	22.5	21.16
1.4	1	2		23.2	22.55	20.75
1.4	1	5		23.17	22.48	19.98
1.4	3	0		23	22.51	20.83
1.4	3	1		23	22.49	20.61
1.4	3	2		23.01	22.47	20.15
1.4	6	0		22.02	21.47	19.49
1.4	1	0	16-QAM	22.18	21.68	19.87
1.4	1	2		22.18	21.65	19.51
1.4	1	5		22.23	21.67	18.8
1.4	3	0		22.18	21.73	19.97
1.4	3	1		22.19	21.73	19.76
1.4	3	2		22.18	21.72	19.33
1.4	6	0		21.15	20.65	18.74
3	1	0	QPSK	22.88	22.38	22.35
3	1	7		22.98	22.42	21.44
3	1	14		22.93	22.4	19.89
3	8	0		21.93	21.43	20.89
3	8	4		21.99	21.42	20.46
3	8	7		22.02	21.44	19.69
3	15	0		21.93	21.4	20.32
3	1	0	16-QAM	22.21	21.51	21.14
3	1	7		22.38	21.62	20.25
3	1	14		22.34	21.54	18.67
3	8	0		20.9	20.41	19.93
3	8	4		20.96	20.48	19.51
3	8	7		21	20.43	18.75
3	15	0		20.95	20.42	19.44

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	23.04	22.47	23.01
5	1	12		23.03	22.39	22.17
5	1	24		23.15	22.47	20.05
5	12	0		21.87	21.24	21.62
5	12	6		22	21.38	21.23
5	12	11		21.98	21.33	20.19
5	25	0		21.91	21.32	20.95
5	1	0	16-QAM	22.42	21.74	22.27
5	1	12		22.53	21.7	21.48
5	1	24		22.63	21.83	19.37
5	12	0		20.81	20.32	20.7
5	12	6		20.97	20.42	20.31
5	12	11		20.95	20.32	19.26
5	25	0		20.85	20.41	20.01
10	1	0	QPSK	22.94	22.56	23.37
10	1	24		22.94	22.29	22.96
10	1	49		23.4	22.53	20.45
10	25	0		21.71	21.09	21.86
10	25	12		21.93	21.25	21.76
10	25	24		21.91	21.18	20.91
10	50	0		21.79	21.13	21.34
10	1	0	16-QAM	22.21	21.68	22.04
10	1	24		22.35	21.44	21.74
10	1	49		22.74	21.64	19.2
10	25	0		20.69	20.1	20.89
10	25	12		20.91	20.32	20.81
10	25	24		20.9	20.21	20

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.84	22.89	22.85
15	1	37		23.34	22.27	23.13
15	1	74		23.67	22.51	20.78
15	36	0		21.83	21.24	22.02
15	36	18		22.1	21.29	22.06
15	36	39		22.38	21.35	21.38
15	75	0		23	22.5	22.43
15	1	0	16-QAM	22.16	21.85	22.31
15	1	38		22.42	21.52	22.18
15	1	75		23.11	21.71	19.63
15	36	0		20.74	20.36	21.01
15	36	18		21.07	20.37	21.06
15	36	39		21.45	20.37	20.22
20	1	0	QPSK	22.84	22.66	23.37
20	1	49		22.98	22.27	23.09
20	1	99		23.72	22.43	23.62
20	50	0		21.8	21.27	22.13
20	50	24		22.28	21.25	22.07
20	50	49		22.5	21.2	22.33
20	100	0		22.85	22.26	21.51
20	1	0	16-QAM	21.9	22.04	21.93
20	1	49		22.55	21.5	22.34
20	1	99		22.8	21.52	22.02
20	50	0		20.6	20.16	20.75
20	50	24		21.32	20.25	21.16
20	50	49		21.51	20.18	21.22

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.2	23.64	24.39
5	1	12		22.16	23.67	24.22
5	1	24		22.35	23.73	24.21
5	12	0		21.27	22.67	23.23
5	12	6		21.53	22.81	23.27
5	12	11		21.47	22.76	23.17
5	25	0		21.48	22.79	23.25
5	1	0	16-QAM	21.7	23.09	23.51
5	1	12		21.83	23.21	23.41
5	1	24		21.93	23.32	23.34
5	12	0		20.58	21.73	22.22
5	12	6		20.75	21.9	22.26
5	12	11		20.77	21.89	22.21
5	25	0		20.67	21.84	22.3
10	1	0	QPSK	23.18	23.97	24.65
10	1	24		23.62	24.35	24.83
10	1	49		23.86	24.65	24.54
10	25	0		22.33	23.05	23.57
10	25	12		22.62	23.33	23.79
10	25	24		22.61	23.34	23.58
10	50	0		23.76	24.17	23.84
10	1	0	16-QAM	22.38	23.13	23.73
10	1	24		22.51	23.21	23.49
10	1	49		22.79	23.44	23.39
10	25	0		21.12	21.97	22.59
10	25	12		21.3	22.24	22.68
10	25	24		21.32	22.19	22.45

LTE Band 38 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.09	24.02	24.9
15	1	37		23.35	24.24	24.83
15	1	74		23.54	24.5	24.63
15	36	0		22.26	23.1	23.71
15	36	18		22.47	23.31	23.7
15	36	39		22.54	23.31	23.59
15	75	0		22.74	24.08	24.64
15	1	0	16-QAM	22.52	23	23.84
15	1	38		22.83	23.29	23.85
15	1	75		22.92	23.5	23.64
15	36	0		21.28	22.05	22.71
15	36	18		21.58	22.3	22.78
15	36	39		21.63	22.37	22.54
20	1	0	QPSK	22.93	24.15	25
20	1	49		23.16	24.17	24.66
20	1	99		23.37	24.44	24.64
20	50	0		21.92	23.01	23.59
20	50	24		22.18	23.21	23.66
20	50	49		22.23	23.12	23.41
20	100	0		22.02	23.14	23.55
20	1	0	16-QAM	22.22	22.93	23.6
20	1	49		22.68	23.35	23.8
20	1	99		22.88	23.58	23.48
20	50	0		21.21	21.86	22.4
20	50	24		21.75	22.34	22.83
20	50	49		21.62	22.32	22.33

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	21.63	23.53	23.1
5	1	12		21.74	23.52	23.05
5	1	24		21.78	23.57	23.16
5	12	0		20.67	22.5	22.06
5	12	6		20.75	22.6	22.14
5	12	11		20.72	22.55	22.17
5	25	0		20.63	22.59	22.16
5	1	0	16-QAM	21.41	22.71	22.31
5	1	12		21.47	22.74	22.37
5	1	24		21.53	22.82	22.47
5	12	0		19.83	21.58	21.12
5	12	6		20.06	21.69	21.29
5	12	11		19.99	21.66	21.14
5	25	0		19.96	21.68	21.16
10	1	0	QPSK	22.25	23.87	22.97
10	1	24		22.53	24.06	23.18
10	1	49		22.85	24.04	23.58
10	25	0		21.11	22.73	21.87
10	25	12		21.25	22.92	22.17
10	25	24		21.16	22.86	22.23
10	50	0		21.08	22.78	22.13
10	1	0	16-QAM	21.56	22.9	21.99
10	1	24		21.75	23	22.13
10	1	49		21.85	23.12	22.41
10	25	0		20.21	21.85	21.01
10	25	12		20.36	22.06	21.3
10	25	24		20.27	21.96	21.2

LTE Band 41 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.22	23.91	23.28
15	1	37		22.34	24.02	23.33
15	1	74		22.69	24.02	23.71
15	36	0		21.32	22.88	22.06
15	36	18		21.45	23.04	22.25
15	36	39		21.54	22.95	22.4
15	75	0		21.5	23.52	21.98
15	1	0	16-QAM	21.66	22.86	22.27
15	1	38		21.87	23.05	22.47
15	1	75		22.17	23.09	22.68
15	36	0		20.35	21.89	21.14
15	36	18		20.56	22.14	21.35
15	36	39		20.58	22.08	21.38
20	1	0	QPSK	22.14	23.97	23.21
20	1	49		22.37	23.92	23.26
20	1	99		22.33	24.13	23.66
20	50	0		21.2	22.81	21.95
20	50	24		21.56	23.05	22.1
20	50	49		21.76	23	22.24
20	100	0		23.08	23.46	23.74
20	1	0	16-QAM	21.36	22.9	22.02
20	1	49		21.76	23.18	22.22
20	1	99		22.14	23.13	22.57
20	50	0		20.19	21.81	20.94
20	50	24		20.7	22.25	21.21
20	50	49		20.83	21.99	21.13

11. EUT and Test Setup Photo

11.1 EUT Photos

Front side

Back side

Right Edge

Left Edge

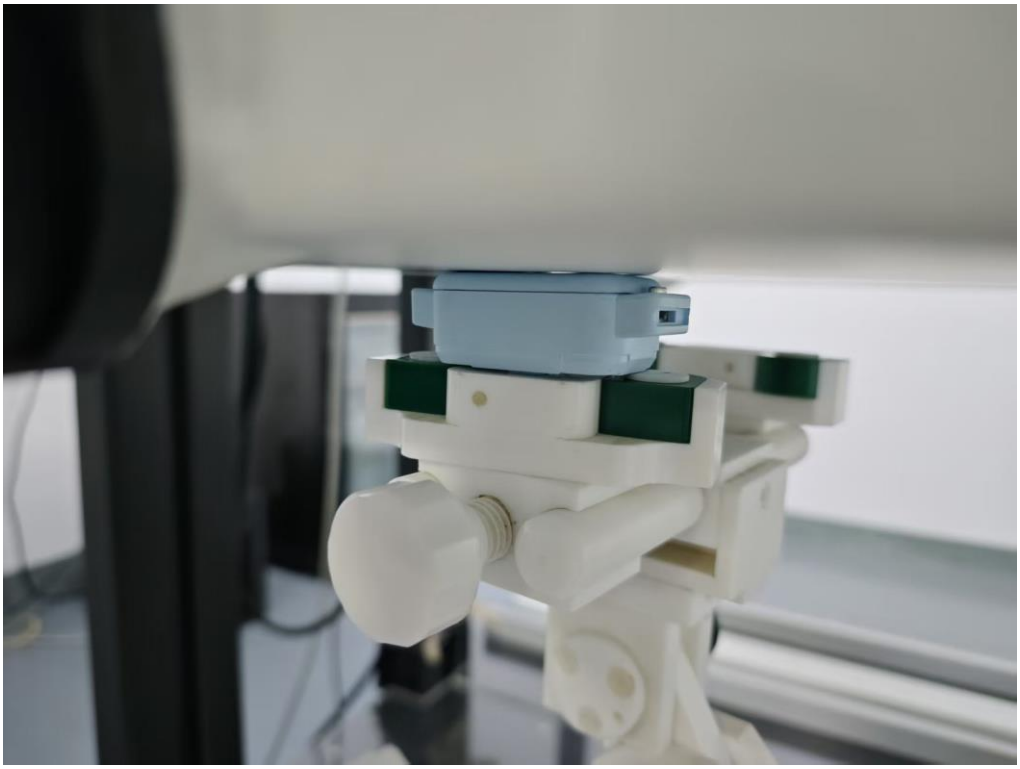
Top Edge

Bottom Edge

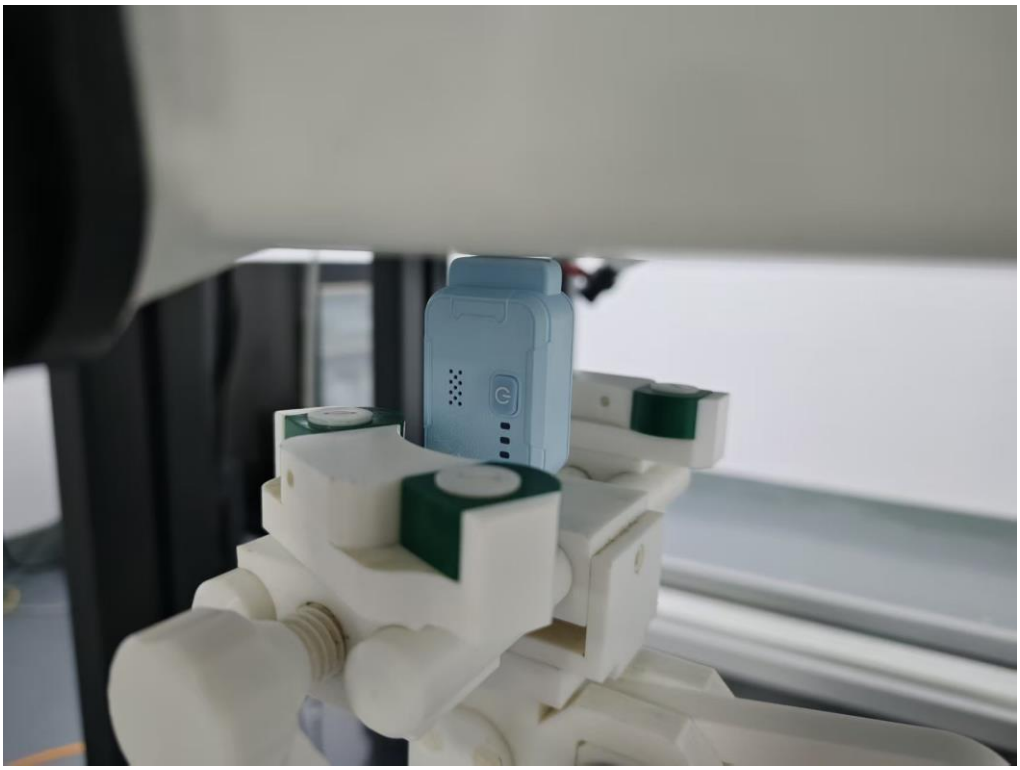
11.2 Setup Photos

Body Front side (separation distance is 0mm)

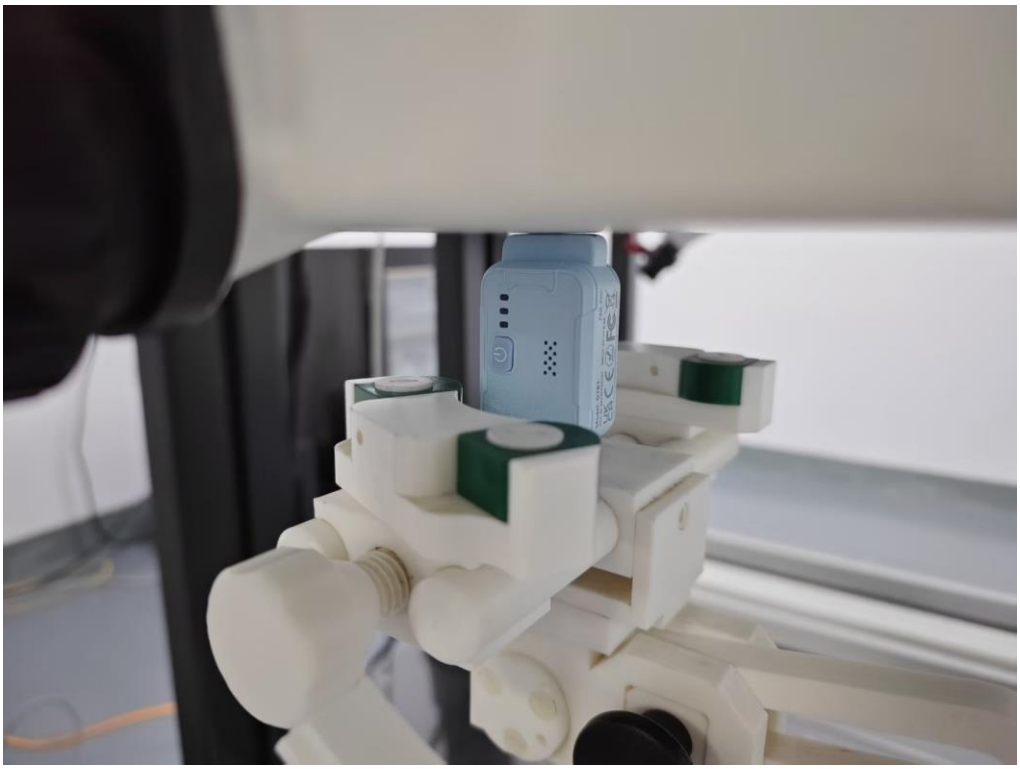
Body Back side (separation distance is 0mm)



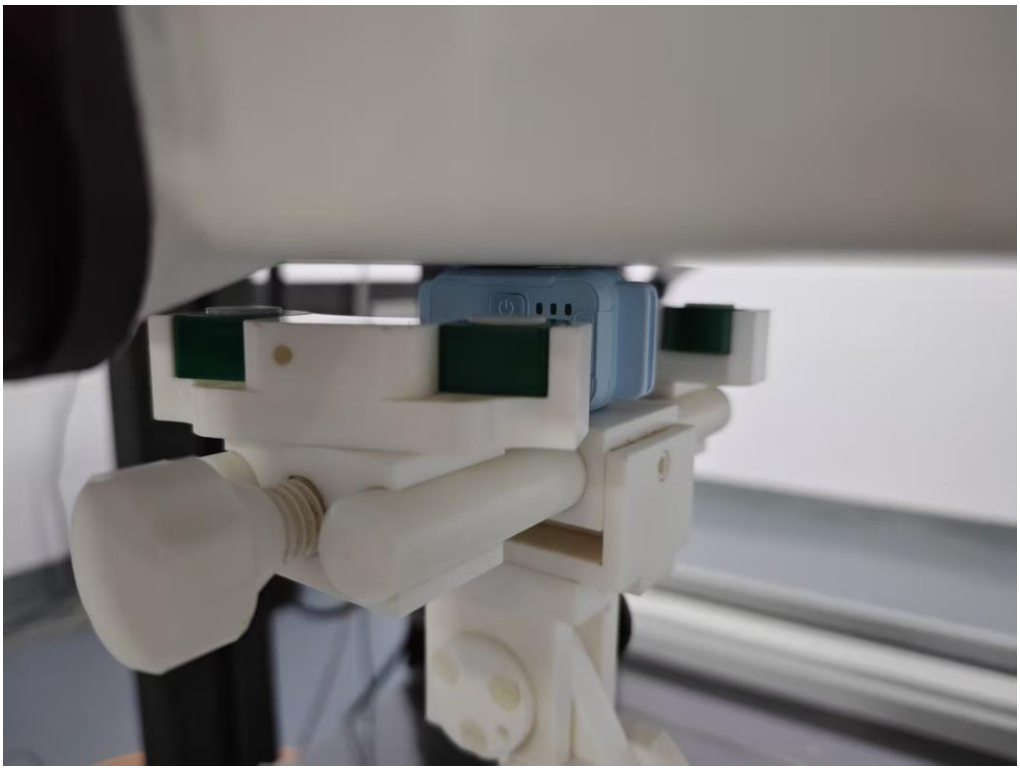
Body Left side (separation distance is 0mm)



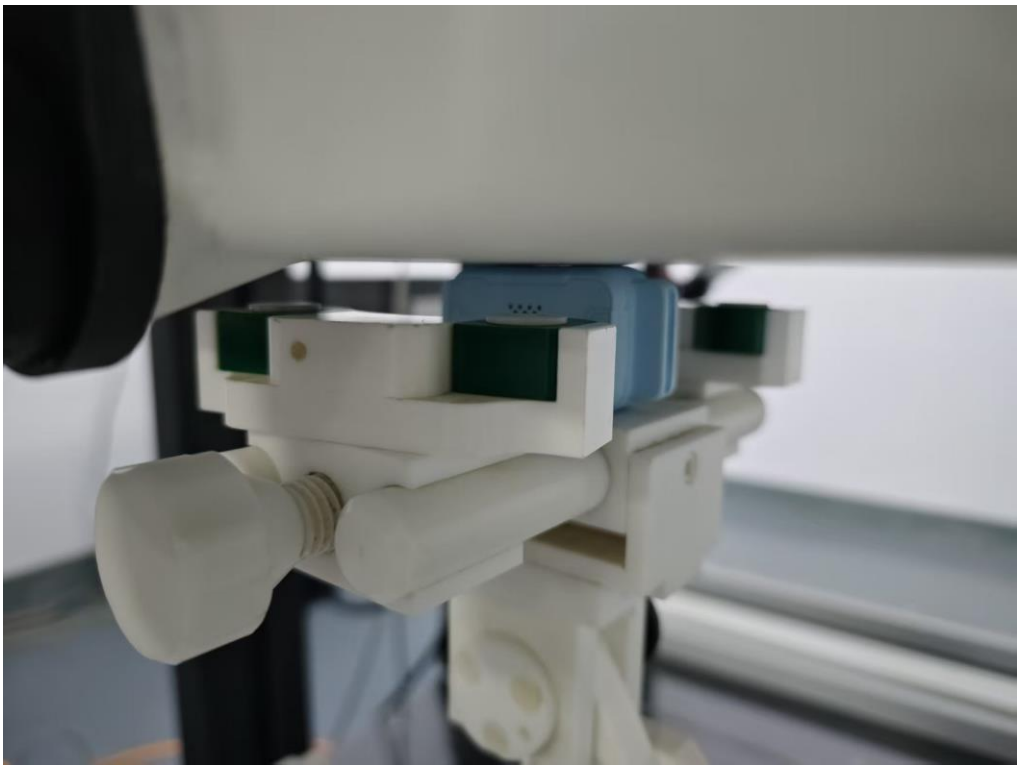
Body Right side (separation distance is 0mm)



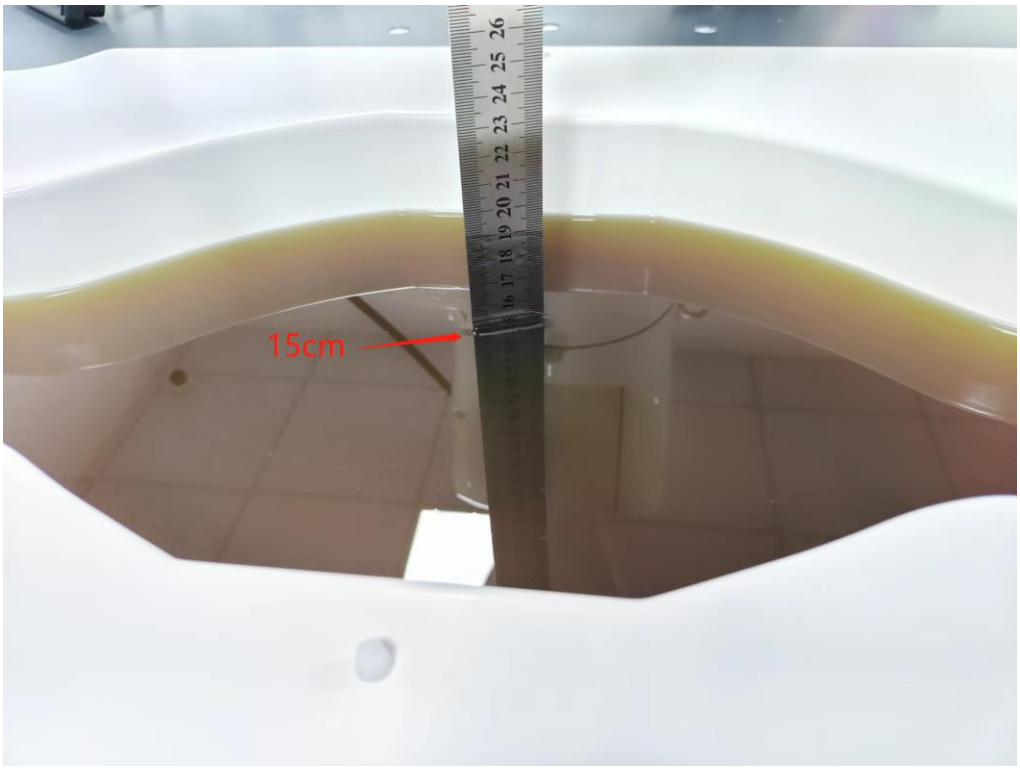
Body Top side (separation distance is 0mm)



Body Bottom side (separation distance is 0mm)



Liquid depth (15 cm)



12. SAR Result Summary

12.1 Body SAR

Band	BW (MHz)	Mod.	RB Size	RB offset	Test Position	Freq.	Result 1g (W/Kg)	SAR (1g) with 0.67% Duty cycle (W/kg)	Power Drift (%)	Max. Turn-up Power (dBm)	Meas. Output Power (dBm)	Scaling Factor	Scaled SAR (W/Kg)	Meas. No.
LTE Band 2	20M	QPSK	1	99	Front side	1860	4.425	0.0296	1.68	24.30	24.16	1.033	0.0306	/
			50	49	Front side	1860	4.206	0.0282	-3.72	23.00	22.83	1.040	0.0293	/
			1	99	Back Side	1860	8.941	0.0599	3.40	24.30	24.16	1.033	0.0619	/
			50	49	Back Side	1860	8.496	0.0569	1.53	23.00	22.83	1.040	0.0592	/
			1	99	Left Side	1860	0.136	0.0009	1.81	24.30	24.16	1.033	0.0009	/
			50	49	Left Side	1860	0.132	0.0009	0.14	23.00	22.83	1.040	0.0009	/
			1	99	Right Side	1860	0.092	0.0006	-1.67	24.30	24.16	1.033	0.0006	/
			50	49	Right Side	1860	0.088	0.0006	1.67	23.00	22.83	1.040	0.0006	/
			1	99	Top Side	1860	8.559	0.0573	1.39	24.30	24.16	1.033	0.0592	/
			50	49	Top Side	1860	8.132	0.0545	2.71	23.00	22.83	1.040	0.0567	/
			1	99	Bottom Side	1860	10.180	0.0682	3.50	24.30	24.16	1.033	**0.0704**	**1**
			50	49	Bottom Side	1860	9.672	0.0648	-0.75	23.00	22.83	1.040	0.0674	/
LTE Band 4	20M	QPSK	1	0	Front side	1732.5	2.759	0.0185	1.52	24.80	24.58	1.052	0.0194	/
			50	49	Front side	1720	2.537	0.0170	-0.47	23.50	23.40	1.023	0.0174	/
			1	0	Back Side	1732.5	5.490	0.0368	3.23	24.80	24.58	1.052	0.0387	/
			50	49	Back Side	1720	5.055	0.0339	3.72	23.50	23.40	1.023	0.0347	/
			1	0	Left Side	1732.5	0.086	0.0006	-1.42	24.80	24.58	1.052	0.0006	/
			50	49	Left Side	1720	0.079	0.0005	-1.21	23.50	23.40	1.023	0.0005	/
			1	0	Right Side	1732.5	0.062	0.0004	-2.46	24.80	24.58	1.052	0.0004	/
			50	49	Right Side	1720	0.058	0.0004	3.43	23.50	23.40	1.023	0.0004	/
			1	0	Top Side	1732.5	5.244	0.0351	-0.50	24.80	24.58	1.052	0.0370	/
			50	49	Top Side	1720	4.828	0.0323	2.78	23.50	23.40	1.023	0.0331	/
			1	0	Bottom Side	1732.5	6.130	0.0411	2.00	24.80	24.58	1.052	**0.0432**	**2**
			50	49	Bottom Side	1720	5.641	0.0378	0.35	23.50	23.40	1.023	0.0387	/
LTE Band 5	10M	QPSK	1	24	Front side	829	0.354	0.0024	-1.11	25.00	24.91	1.021	0.0024	/
			25	12	Front side	829	0.340	0.0023	-3.37	24.20	23.92	1.067	0.0024	/
			1	24	Back Side	829	0.287	0.0019	-0.09	25.00	24.91	1.021	0.0020	/
			25	12	Back Side	829	0.277	0.0019	1.68	24.20	23.92	1.067	0.0020	/

			1	24	Left Side	829	0.051	0.0003	-1.57	25.00	24.91	1.021	0.0003	/
			25	12	Left Side	829	0.050	0.0003	-3.71	24.20	23.92	1.067	0.0004	/
			1	24	Right Side	829	0.082	0.0005	2.61	25.00	24.91	1.021	0.0006	/
			25	12	Right Side	829	0.077	0.0005	1.52	24.20	23.92	1.067	0.0006	/
			1	24	Top Side	829	0.724	0.0049	0.78	25.00	24.91	1.021	**0.0050**	**3**
			25	12	Top Side	829	0.688	0.0046	0.38	24.20	23.92	1.067	0.0049	/
			1	24	Bottom Side	829	0.174	0.0012	-1.52	25.00	24.91	1.021	0.0012	/
			25	12	Bottom Side	829	0.169	0.0011	-1.42	24.20	23.92	1.067	0.0012	/
LTE Band 12	10M	QPSK	1	49	Front side	707.5	5.676	0.0380	0.04	23.30	23.06	1.057	0.0402	/
			25	24	Front side	707.5	5.167	0.0346	1.47	22.00	21.81	1.045	0.0362	/
			1	49	Back Side	707.5	4.461	0.0299	-1.69	23.30	23.06	1.057	0.0316	/
			25	24	Back Side	707.5	4.063	0.0272	-3.31	22.00	21.81	1.045	0.0284	/
			1	49	Left Side	707.5	0.841	0.0056	3.06	23.30	23.06	1.057	0.0060	/
			25	24	Left Side	707.5	0.765	0.0051	1.29	22.00	21.81	1.045	0.0054	/
			1	49	Right Side	707.5	1.323	0.0089	-2.64	23.30	23.06	1.057	0.0094	/
			25	24	Right Side	707.5	1.203	0.0081	-3.43	22.00	21.81	1.045	0.0084	/
			1	49	Top Side	704	11.244	0.0753	-1.70	22.70	22.40	1.072	0.0807	/
			1	49	Top Side	707.5	12.021	0.0805	3.93	23.30	23.06	1.057	**0.0851**	**4**
			1	49	Top Side	711	10.459	0.0701	-3.28	22.70	22.00	1.175	0.0823	/
			25	24	Top Side	707.5	10.939	0.0733	0.42	22.00	21.81	1.045	0.0766	/
			1	49	Bottom Side	707.5	0.913	0.0061	-0.10	23.30	23.06	1.057	0.0065	/
			25	24	Bottom Side	707.5	0.834	0.0056	3.90	22.00	21.81	1.045	0.0058	/
LTE Band 13	10M	QPSK	1	0	Front side	782	0.494	0.0033	-0.27	23.50	23.23	1.064	0.0035	/
			25	0	Front side	782	0.427	0.0029	2.74	21.50	21.34	1.038	0.0030	/
			1	0	Back Side	782	0.385	0.0026	3.11	23.50	23.23	1.064	0.0027	/
			25	0	Back Side	782	0.334	0.0022	2.33	21.50	21.34	1.038	0.0023	/
			1	0	Left Side	782	0.076	0.0005	-1.04	23.50	23.23	1.064	0.0005	/
			25	0	Left Side	782	0.065	0.0004	-0.91	21.50	21.34	1.038	0.0005	/
			1	0	Right Side	782	0.115	0.0008	-3.78	23.50	23.23	1.064	0.0008	/
			25	0	Right Side	782	0.100	0.0007	2.96	21.50	21.34	1.038	0.0007	/
			1	0	Top Side	782	1.037	0.0069	0.79	23.50	23.23	1.064	**0.0074**	**5**
			25	0	Top Side	782	0.894	0.0060	0.66	21.50	21.34	1.038	0.0062	/
			1	0	Bottom Side	782	0.199	0.0013	0.14	23.50	23.23	1.064	0.0014	/

			25	0	Bottom Side	782	0.174	0.0012	1.99	21.50	21.34	1.038	0.0012	/
LTE Band 17	10M	QPSK	1	49	Front side	709	2.585	0.0173	-0.25	23.00	22.75	1.059	0.0183	/
			25	12	Front side	710	2.224	0.0149	-1.23	21.70	21.53	1.040	0.0155	/
			1	49	Back Side	709	2.031	0.0136	-0.25	23.00	22.75	1.059	0.0144	/
			25	12	Back Side	710	1.749	0.0117	2.47	21.70	21.53	1.040	0.0122	/
			1	49	Left Side	709	0.383	0.0026	-2.13	23.00	22.75	1.059	0.0027	/
			25	12	Left Side	710	0.332	0.0022	-3.57	21.70	21.53	1.040	0.0023	/
			1	49	Right Side	709	0.605	0.0041	1.47	23.00	22.75	1.059	0.0043	/
			25	12	Right Side	710	0.522	0.0035	2.17	21.70	21.53	1.040	0.0036	/
			1	49	Top Side	709	5.471	0.0367	3.18	23.00	22.75	1.059	**0.0388**	**6**
			25	12	Top Side	710	4.706	0.0315	1.94	21.70	21.53	1.040	0.0328	/
			1	49	Bottom Side	709	1.221	0.0082	1.89	23.00	22.75	1.059	0.0087	/
			25	12	Bottom Side	710	1.051	0.0070	2.70	21.70	21.53	1.040	0.0073	/
LTE Band 25	20M	QPSK	1	99	Front side	1860	5.332	0.0357	-2.27	24.00	23.72	1.067	0.0381	/
			50	49	Front side	1860	5.069	0.0340	-0.28	22.70	22.50	1.047	0.0356	/
			1	99	Back Side	1860	10.605	0.0711	-3.94	24.00	23.72	1.067	0.0758	/
			50	49	Back Side	1860	10.077	0.0675	2.01	22.70	22.50	1.047	0.0707	/
			1	99	Left Side	1860	0.166	0.0011	-0.80	24.00	23.72	1.067	0.0012	/
			50	49	Left Side	1860	0.157	0.0011	-2.91	22.70	22.50	1.047	0.0011	/
			1	99	Right Side	1860	0.121	0.0008	3.55	24.00	23.72	1.067	0.0009	/
			50	49	Right Side	1860	0.119	0.0008	2.60	22.70	22.50	1.047	0.0008	/
			1	99	Top Side	1860	10.132	0.0679	-0.35	24.00	23.72	1.067	0.0724	/
			50	49	Top Side	1860	9.627	0.0645	-1.57	22.70	22.50	1.047	0.0675	/
			1	99	Bottom Side	1860	11.848	0.0794	0.06	24.00	23.72	1.067	**0.0847**	**7**
			50	49	Bottom Side	1860	11.255	0.0754	2.40	22.70	22.50	1.047	0.0790	/
LTE Band 38	20M	QPSK	1	0	Front side	2610	1.011	0.0068	-1.90	25.20	25.00	1.047	0.0071	/
			50	24	Front side	2610	0.862	0.0058	-0.04	24.00	23.66	1.081	0.0062	/
			1	0	Back Side	2610	2.010	0.0135	3.93	25.20	25.00	1.047	0.0141	/
			50	24	Back Side	2610	1.708	0.0114	-2.97	24.00	23.66	1.081	0.0124	/
			1	0	Left Side	2610	0.034	0.0002	1.01	25.20	25.00	1.047	0.0002	/
			50	24	Left Side	2610	0.029	0.0002	-3.57	24.00	23.66	1.081	0.0002	/
			1	0	Right Side	2610	0.022	0.0001	3.41	25.20	25.00	1.047	0.0002	/
			50	24	Right Side	2610	0.021	0.0001	-1.02	24.00	23.66	1.081	0.0002	/

			1	0	Top Side	2610	1.921	0.0129	-2.49	25.20	25.00	1.047	0.0135	/
			50	24	Top Side	2610	1.637	0.0110	-2.95	24.00	23.66	1.081	0.0119	/
			1	0	Bottom Side	2610	2.244	0.0150	-0.52	25.20	25.00	1.047	**0.0157**	**8**
			50	24	Bottom Side	2610	1.908	0.0128	1.52	24.00	23.66	1.081	0.0138	/
LTE Band 41	20M	QPSK	1	99	Front side	2605	0.907	0.0061	-1.34	24.30	24.13	1.040	0.0063	/
			50	24	Front side	2605	0.837	0.0056	2.72	23.30	23.05	1.059	0.0059	/
			1	99	Back Side	2605	1.800	0.0121	1.14	24.30	24.13	1.040	0.0125	/
			50	24	Back Side	2605	1.659	0.0111	-1.88	23.30	23.05	1.059	0.0118	/
			1	99	Left Side	2605	0.030	0.0002	-2.62	24.30	24.13	1.040	0.0002	/
			50	24	Left Side	2605	0.027	0.0002	-1.06	23.30	23.05	1.059	0.0002	/
			1	99	Right Side	2605	0.021	0.0001	2.32	24.30	24.13	1.040	0.0001	/
			50	24	Right Side	2605	0.021	0.0001	3.31	23.30	23.05	1.059	0.0001	/
			1	99	Top Side	2605	1.717	0.0115	3.72	24.30	24.13	1.040	0.0120	/
			50	24	Top Side	2605	1.583	0.0106	-0.77	23.30	23.05	1.059	0.0112	/
			1	99	Bottom Side	2605	2.010	0.0135	-0.94	24.30	24.13	1.040	**0.0140**	**9**
			50	24	Bottom Side	2605	1.850	0.0124	3.31	23.30	23.05	1.059	0.0131	/

Note:

1. The test separation of all above table is 0mm.
2. Per KDB 447498 D01, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
   a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
   b. Scaled SAR(W/kg) = Measured SAR(W/kg) *Tune-up Scaling Factor
3. As for 4G function: 1 transmission a maximum of every 30 seconds, an uplink average of 200 milliseconds connected to the 4G network for each transmission. Over a 1hour period the transmission is 24 seconds, so duty cycle is 0.67%.

13. Equipment List

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibration	Calibrated Until
750MHz Dipole	MVG	DIP0G750	SN 06/22 DIP0G750-638	2025.05.20	2028.05.19
835MHz Dipole	MVG	DIP0G835	SN 06/22 DIP0G835-639	2025.05.20	2028.05.19
1800MHz Dipole	MVG	DIP1G800	SN 06/22 DIP1G800-640	2025.05.20	2028.05.19
1900MHz Dipole	MVG	DIP1G900	SN 06/22 DIP1G900-641	2025.05.20	2028.05.19
2600MHz Dipole	MVG	DIP2G600	SN 06/22 DIP2G600-646	2025.05.20	2028.05.19
E-Field Probe	MVG	SSE2	2225-EPGO-450	2025.06.06	2026.06.05
Liquid Calibration Kit	MVG	OCPG 87	SN 06/22 OCPG87	2025.06.02	2026.06.01
Antenna	MVG	ANTA 73	SN 06/22 ANTA 73	N/A	N/A
Ellipsoid Phantom	MVG	ELLI 51	SN 06/22 ELLI 51	N/A	N/A
Phantom	MVG	SAM 148	SN 06/22 SAM148	N/A	N/A
Phone holder	MVG	MSH 117	SN 06/22 MSH 117	N/A	N/A
Laptop positioner	MVG	LSH 36	SN 06/22 LSH 38	N/A	N/A
Directional coupler	SHW	SHWDCP	202203280013	N/A	N/A
Network Analyzer	ZVL	R&S	116184	2025.03.05	2026.03.04
Multi Meter	DMM6500	Keithley	4527252	2025.03.06	2026.03.05
Signal Generator	Keysight	N5182B	MY59100717	2025.03.05	2026.03.04
Wireless Communication Test Set	R&S	CMW500	137737	2025.03.05	2026.03.04
Power Sensor	R&S	Z11	116184	2025.03.05	2026.03.04
Electronic Temperature hygrometer	N/A	ST-W2318	N/A	2025.03.05	2026.03.04
Temperature hygrometer	N/A	TP101	N/A	2025.03.05	2026.03.04

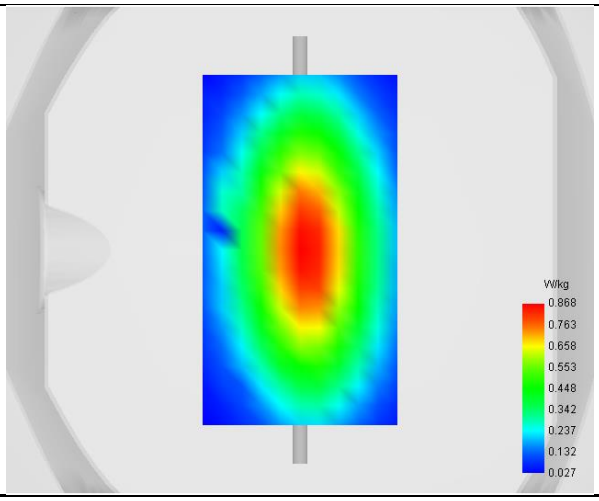
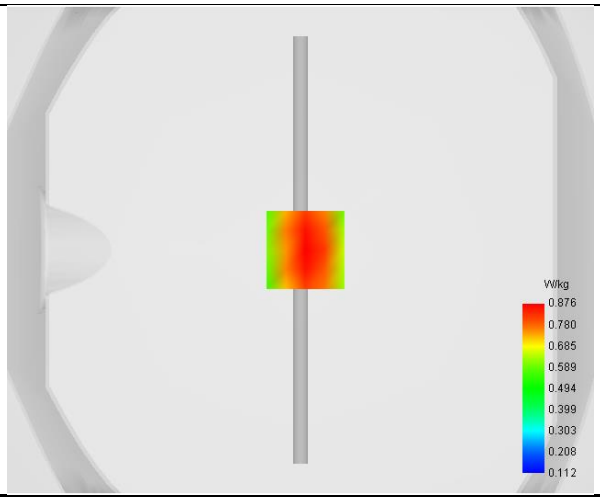
Appendix A. System Validation Plots

System Performance Check Data (750MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-12-26

Experimental conditions.

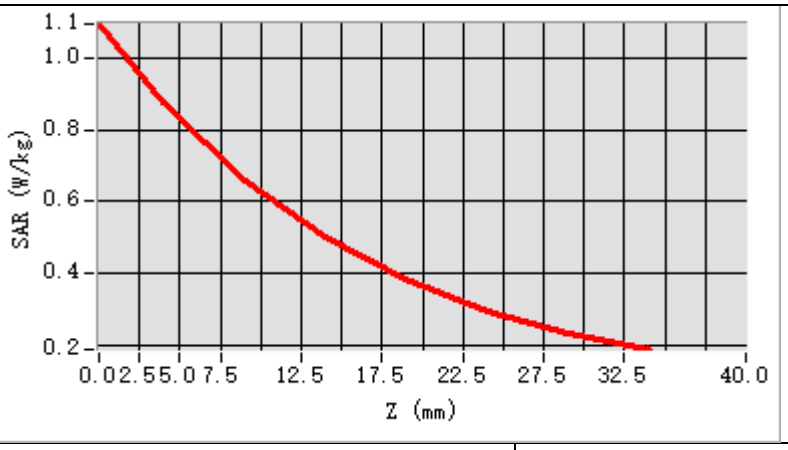
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW
Frequency (MHz)	750.000
Relative permittivity	42.36
Conductivity (S/m)	0.86
Probe	2225-EPGO-450
ConvF	1.08
Crest factor:	1:1

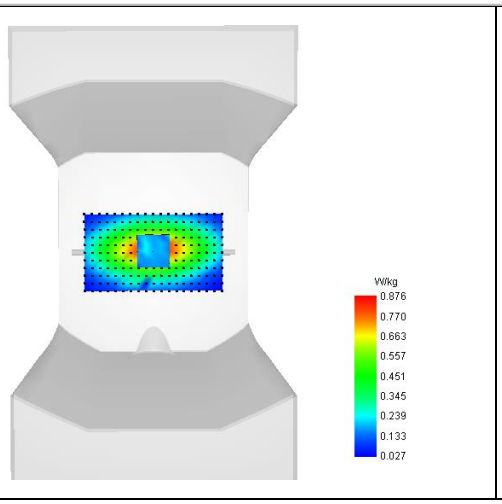
SURFACE SAR	VOLUME SAR
	

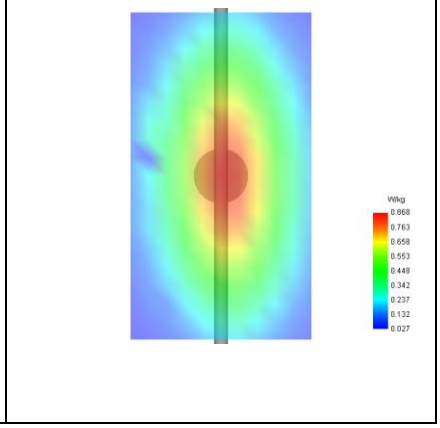
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 1.12 W/kg

SAR 10g (W/Kg)	0.571
SAR 1g (W/Kg)	0.830

Z Axis Scan


1.1
1.0
0.8
0.6
0.4
0.2
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)


W/kg
0.876
0.770
0.663
0.557
0.451
0.345
0.239
0.133
0.027

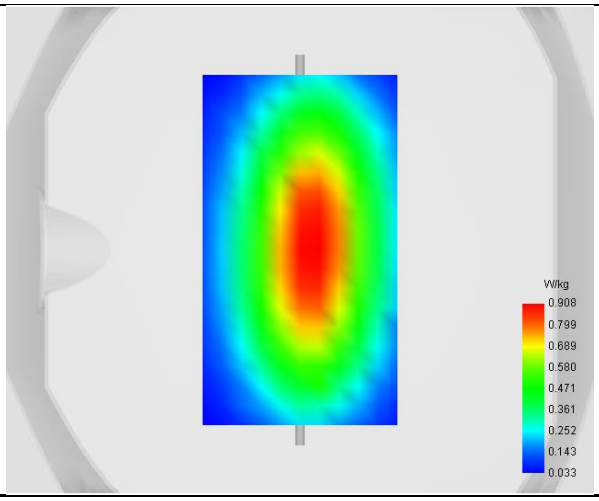
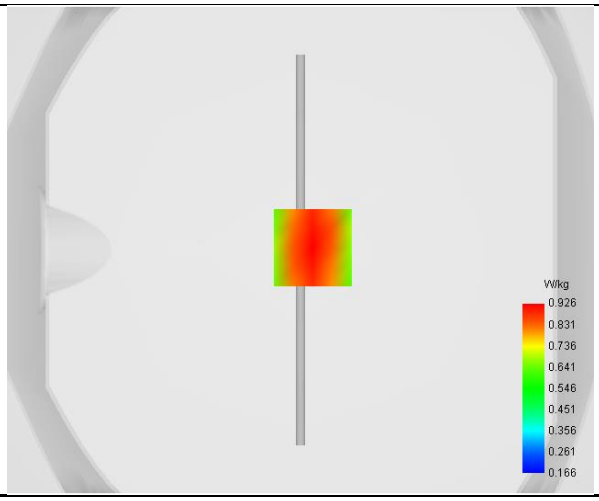

W/kg
0.868
0.763
0.658
0.553
0.448
0.342
0.237
0.132
0.027

System Performance Check Data (835MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-12-24

Experimental conditions.

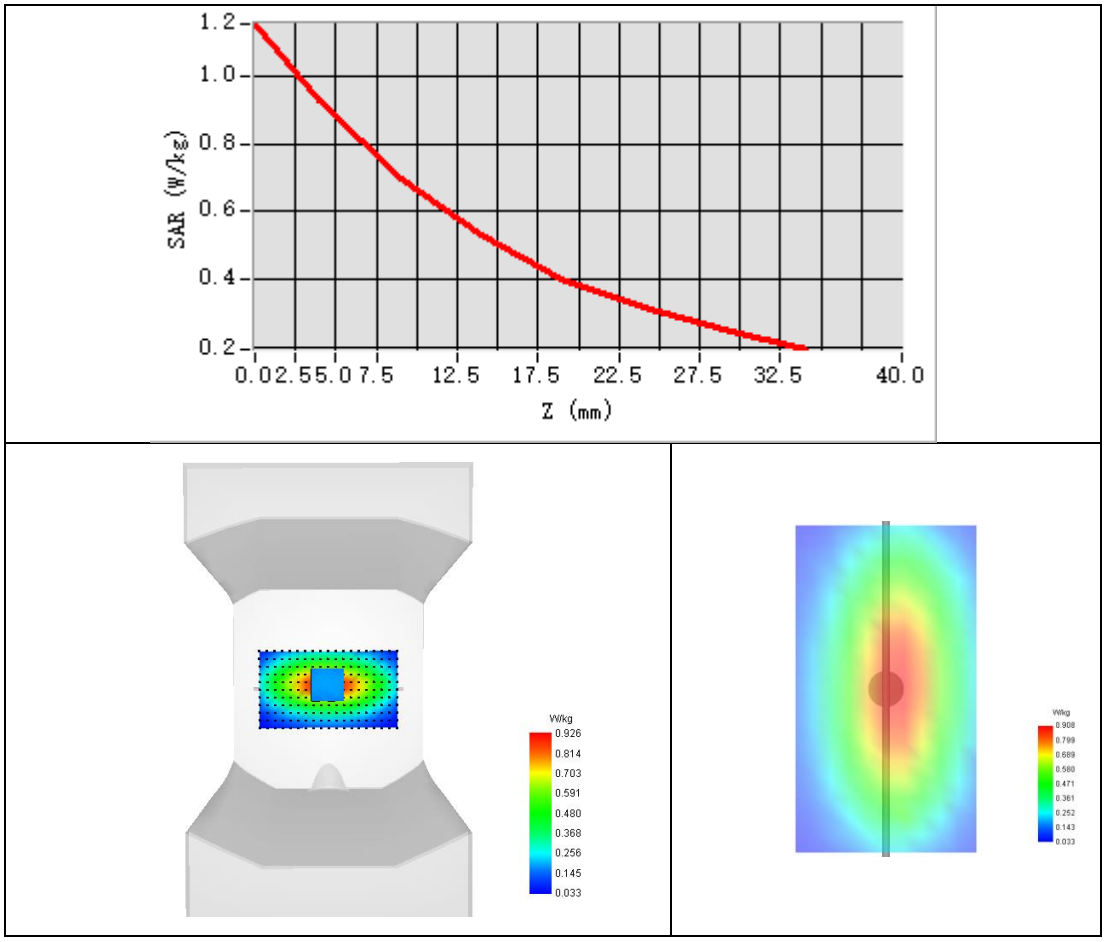
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW
Frequency (MHz)	835.000
Relative permittivity	41.78
Conductivity (S/m)	0.93
Probe	2225-EPGO-450
ConvF	1.02
Crest factor:	1:1

SURFACE SAR	VOLUME SAR
	

Maximum location: X=5.00, Y=1.00 ; SAR Peak: 1.15 W/kg

SAR 10g (W/Kg)	0.573
SAR 1g (W/Kg)	0.953

Z Axis Scan

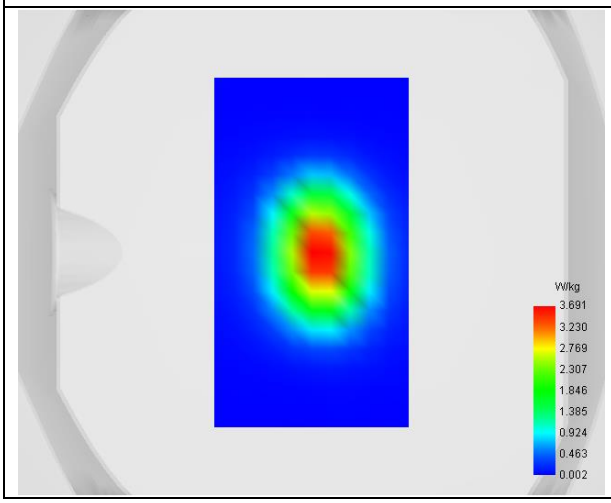
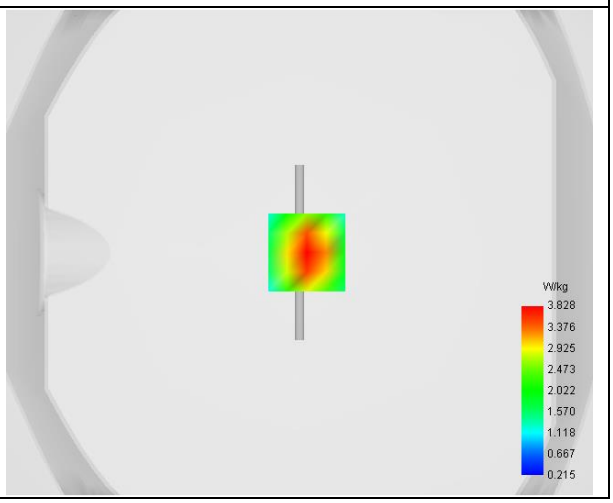

1.2
1.0
0.8
0.6
0.4
0.2
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
0.926
0.814
0.703
0.591
0.480
0.368
0.256
0.145
0.033

System Performance Check Data (1800MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-12-25

Experimental conditions.

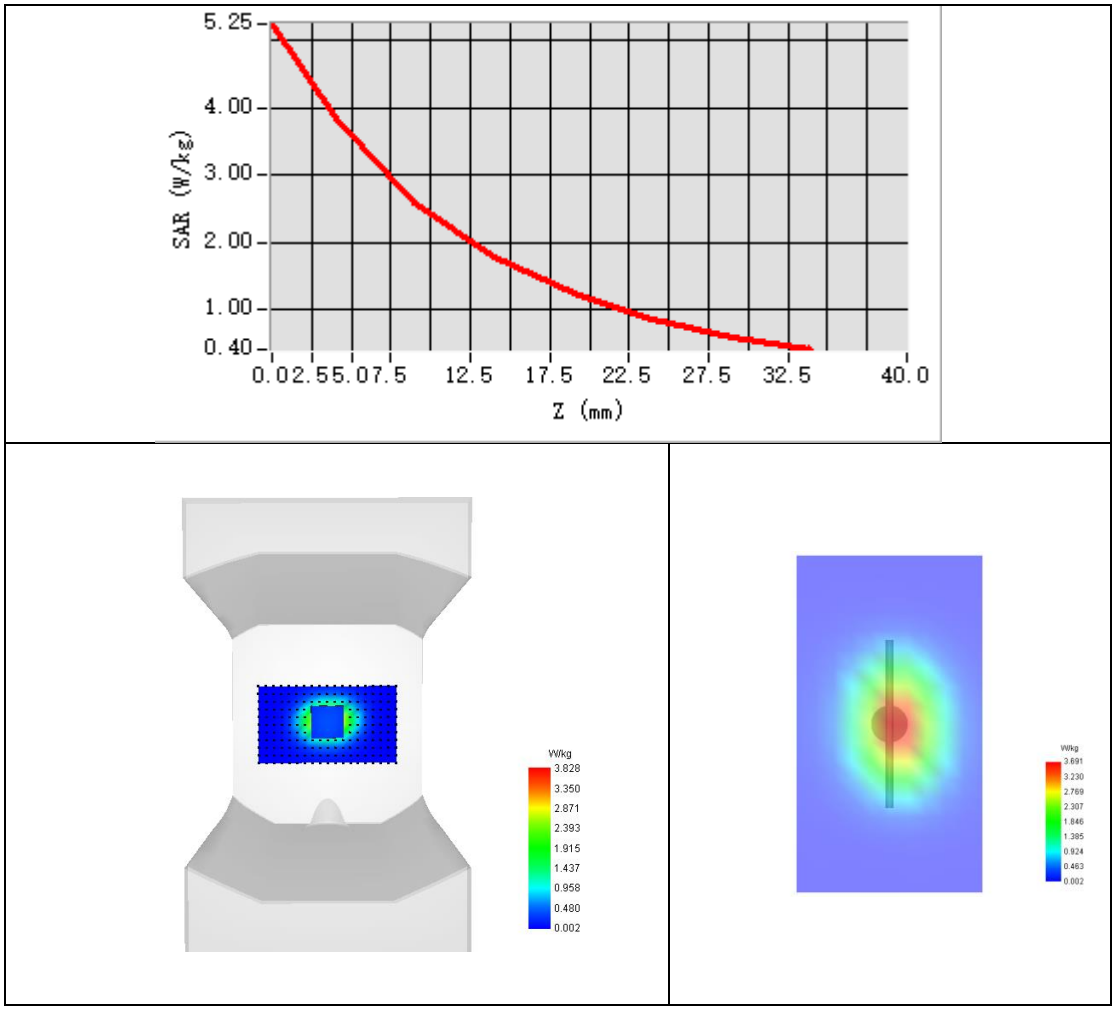
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW
Frequency (MHz)	1800.000
Relative permittivity	40.52
Conductivity (S/m)	1.38
Probe	2225-EPGO-450
ConvF	1.21
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=3.00, Y=0.00 ; SAR Peak: 4.60 W/kg

SAR 10g (W/Kg)	1.935
SAR 1g (W/Kg)	3.675

Z Axis Scan

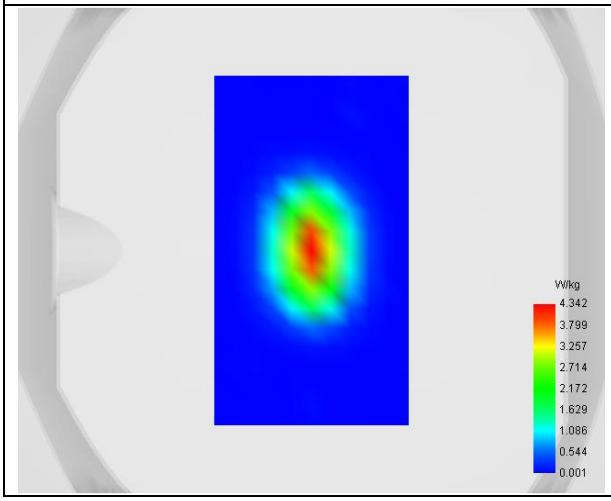
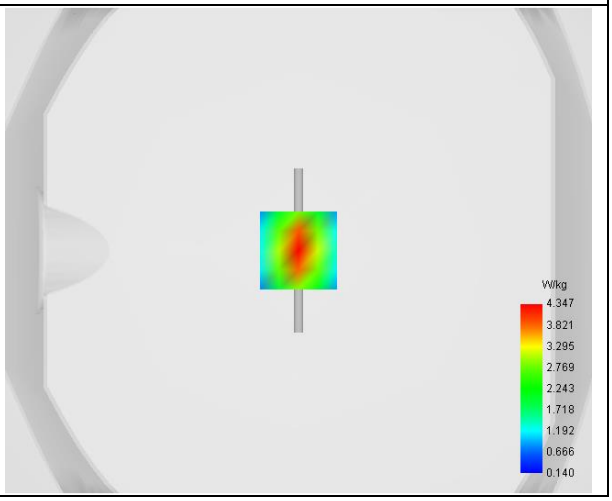

5.25
4.00
3.00
2.00
1.00
0.40
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
3.828
3.350
2.871
2.393
1.915
1.437
0.958
0.480
0.002
W/kg
3.691
3.230
2.769
2.307
1.846
1.385
0.924
0.463
0.002

System Performance Check Data (1900MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-12-30

Experimental conditions.

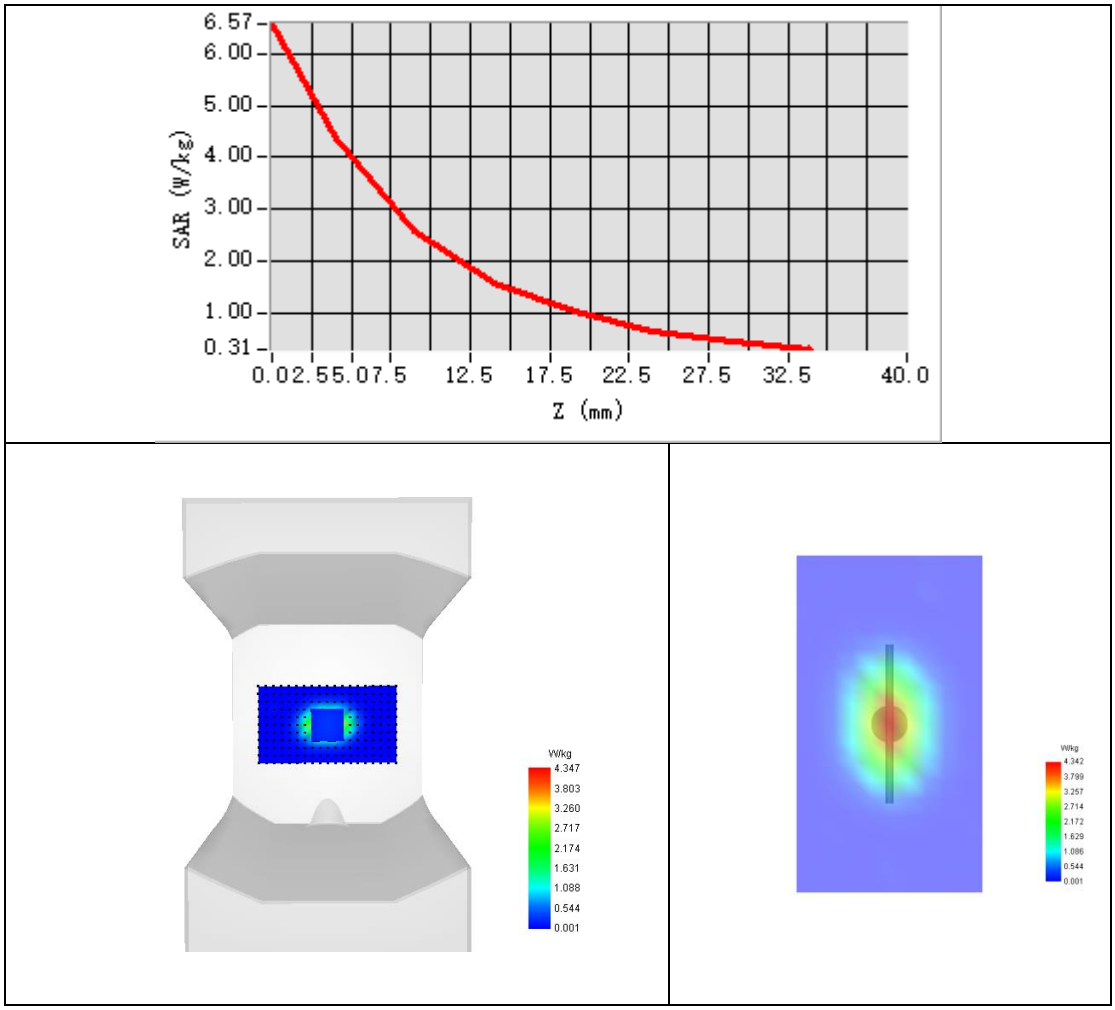
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW
Frequency (MHz)	1900.000
Relative permittivity	41.01
Conductivity (S/m)	1.42
Probe	2225-EPGO-450
ConvF	1.34
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=0.00, Y=0.00 ; SAR Peak: 6.51 W/kg

SAR 10g (W/Kg)	2.041
SAR 1g (W/Kg)	4.143

Z Axis Scan

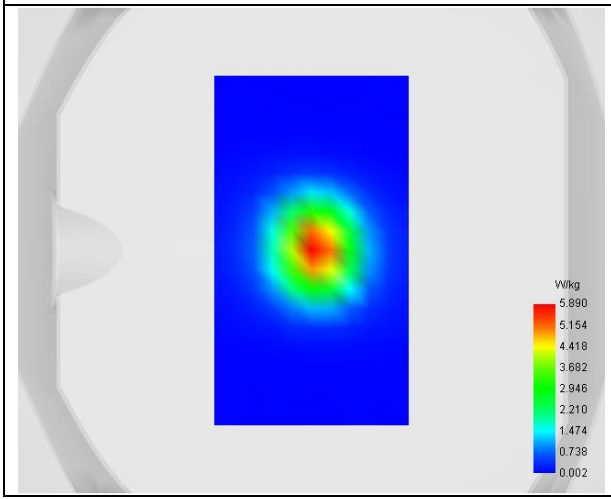
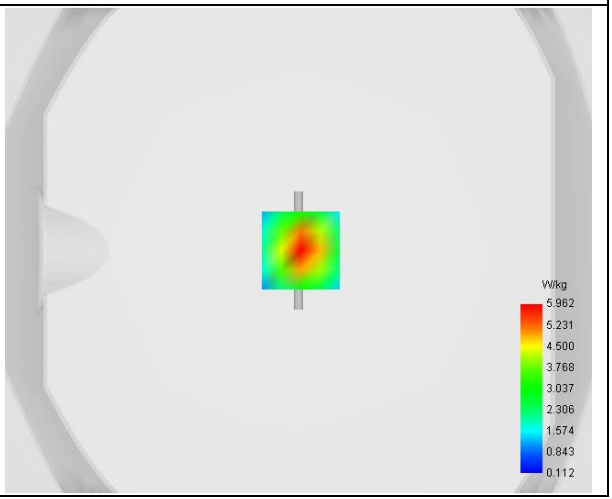

6.57
6.00
5.00
4.00
3.00
2.00
1.00
0.31
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
4.347
3.803
3.260
2.717
2.174
1.631
1.088
0.544
0.001
W/kg
4.342
3.799
3.257
2.714
2.172
1.629
1.086
0.544
0.001

System Performance Check Data (2600MHz)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm, dy=8mm
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm
Date of measurement: 2025-12-27

Experimental conditions.

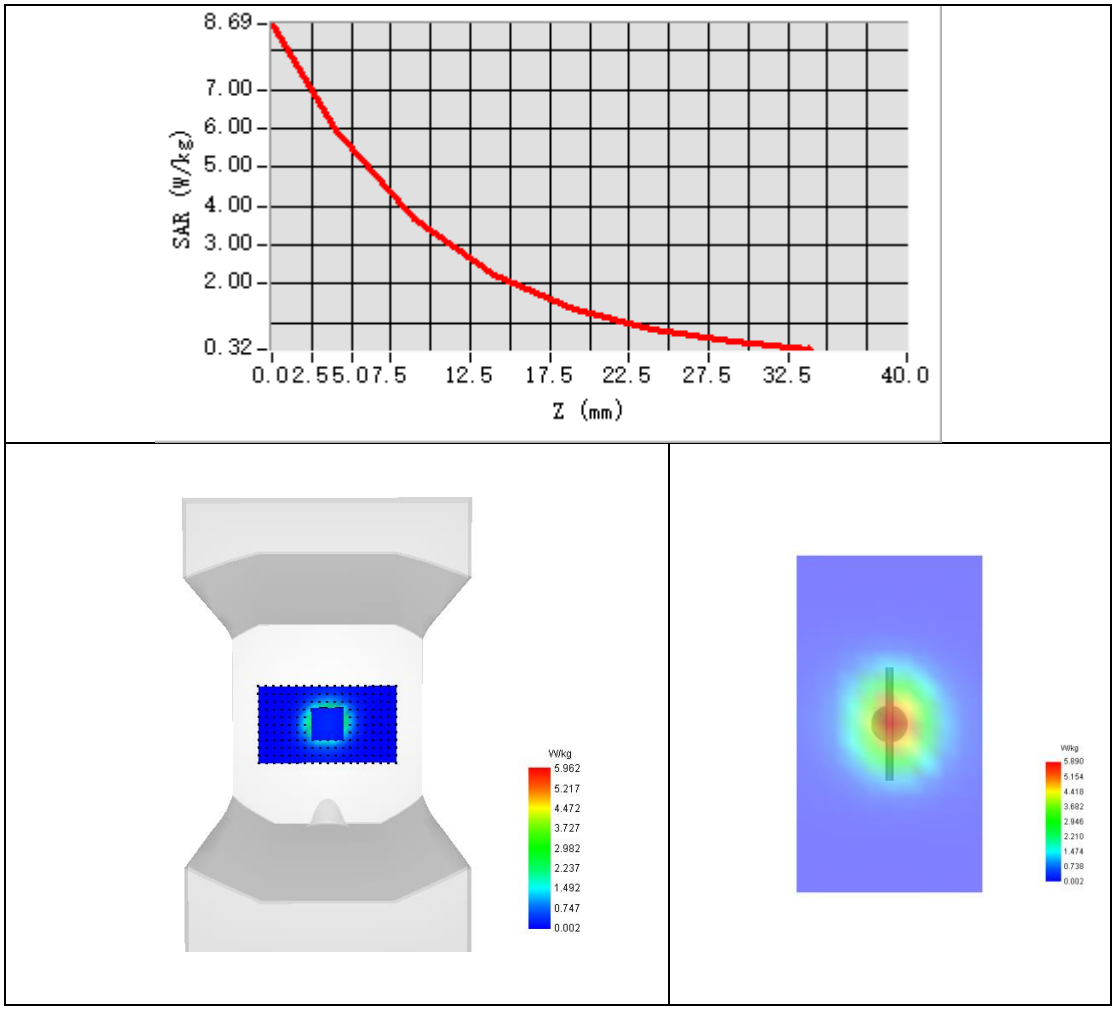
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW
Frequency (MHz)	2600.000
Relative permittivity	39.91
Conductivity (S/m)	1.97
Probe	2225-EPGO-450
ConvF	1.44
Crest factor:	1:1

SURFACE	VOLUME SAR
	

Maximum location: X=1.00, Y=0.00 ; SAR Peak: 8.67 W/kg

SAR 10g (W/Kg)	2.536
SAR 1g (W/Kg)	5.715

Z Axis Scan

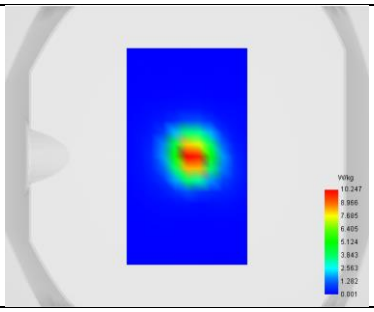
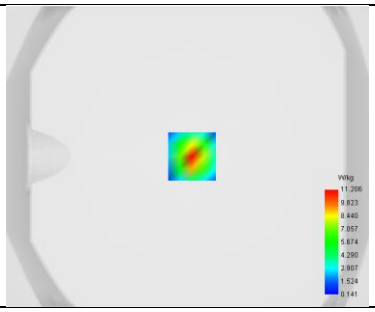
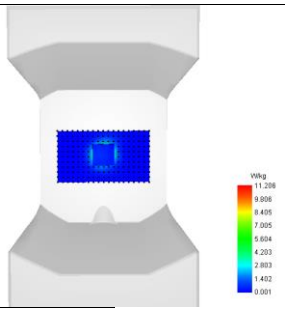
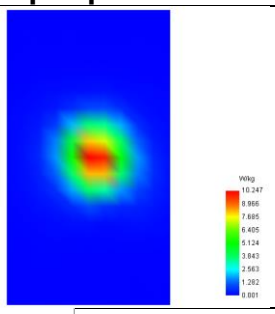
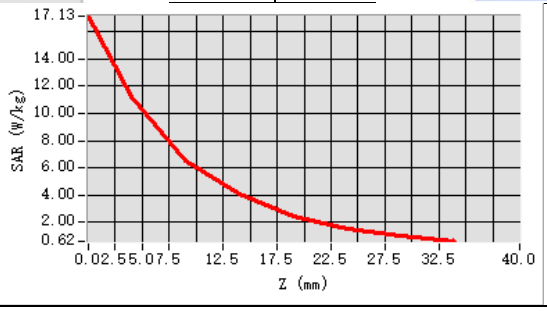

8.69
7.00
6.00
5.00
4.00
3.00
2.00
0.32
SAR (W/kg)
0.0 2.5 5.0 7.5 12.5 17.5 22.5 27.5 32.5 40.0
Z (mm)
W/kg
5.962
5.217
4.472
3.727
2.982
2.237
1.492
0.747
0.002

Appendix B. SAR Test Plots

Plot 1:

Test Date	2025-12-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 2
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	5.063
SAR 1g (W/Kg)	10.180
ConvF	1.72
Relative permittivity	41.01
Conductivity (S/m)	1.42

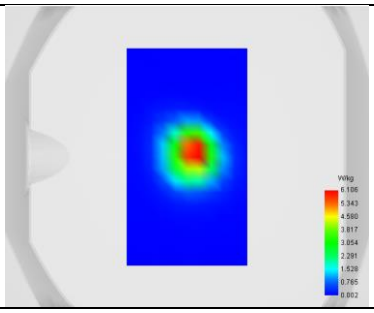
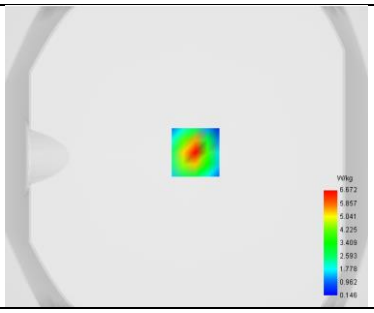
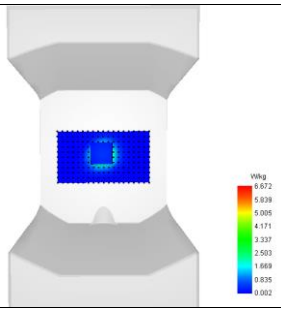
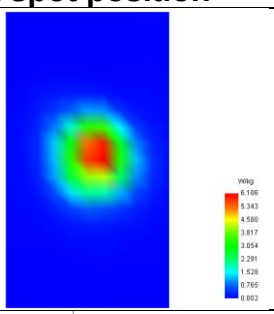
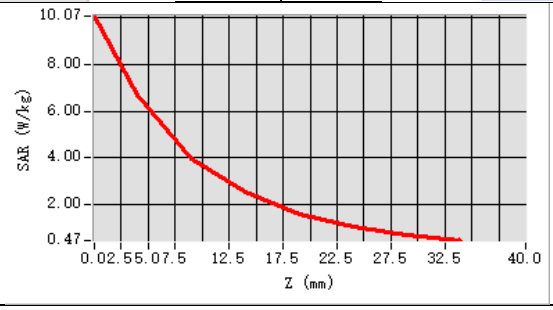
Maximum location: X=3.00, Y=0.00 ; SAR Peak: 17.22 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 2:

Test Date	2025-12-25
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)	3.164
SAR 1g (W/Kg)	6.130
ConvF	1.72
Relative permittivity	40.52
Conductivity (S/m)	1.38

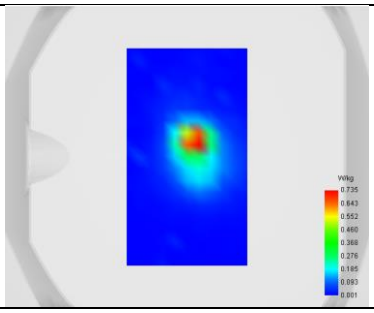
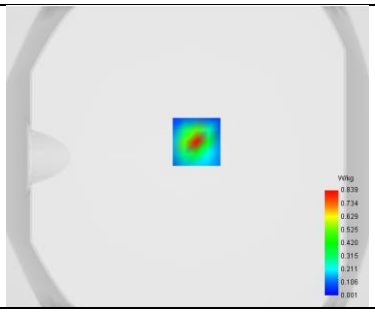
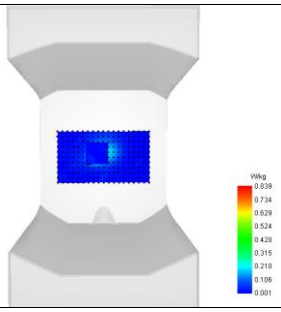
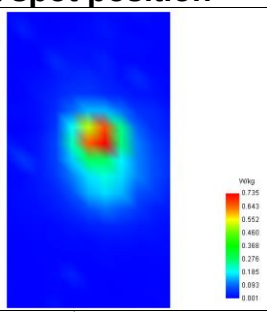
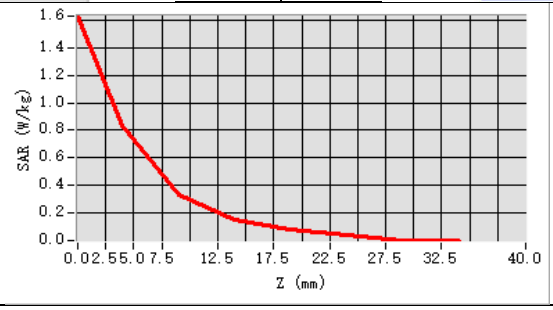
Maximum location: X=6.00, Y=3.00 ; SAR Peak: 10.17 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 3:

Test Date	2025-12-24
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 5
Signal	LTE FDD
Frequency	829
SAR 10g (W/Kg)	0.259
SAR 1g (W/Kg)	0.724
ConvF	2.25
Relative permittivity	41.78
Conductivity (S/m)	0.93

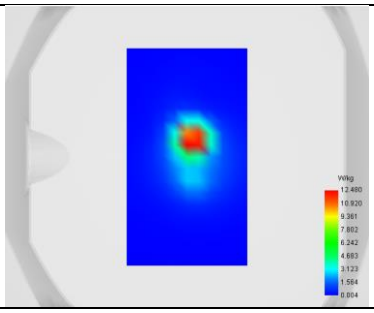
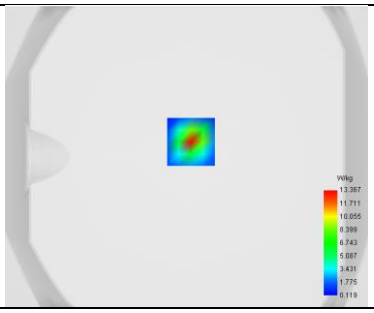
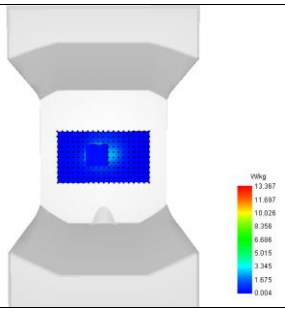
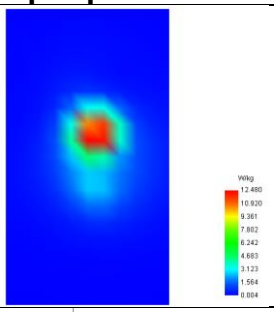
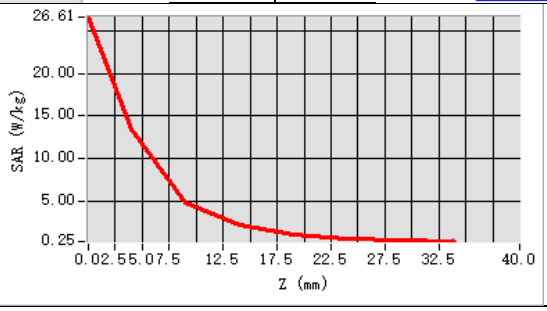
Maximum location: X=6.00, Y=10.00 ; SAR Peak: 1.60 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 4:

Test Date	2025-12-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 12
Signal	LTE FDD
Frequency	707.5
SAR 10g (W/Kg)	4.098
SAR 1g (W/Kg)	12.021
ConvF	2.25
Relative permittivity	42.36
Conductivity (S/m)	0.86

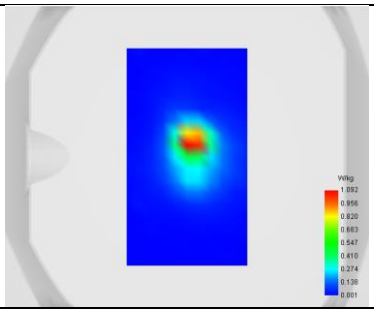
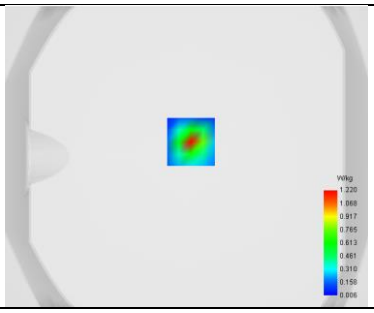
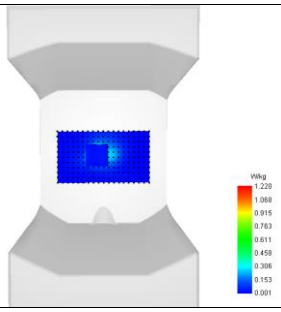
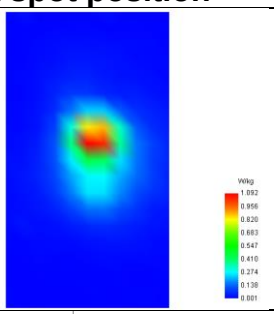
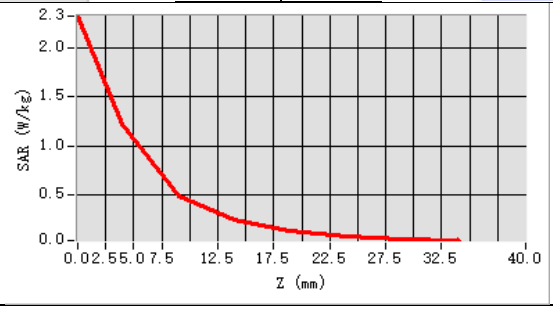
Maximum location: X=3.00, Y=10.00 ; SAR Peak: 26.43 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 5:

Test Date	2025-12-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 13
Signal	LTE FDD
Frequency	782
SAR 10g (W/Kg)	0.380
SAR 1g (W/Kg)	1.037
ConvF	2.25
Relative permittivity	42.36
Conductivity (S/m)	0.86

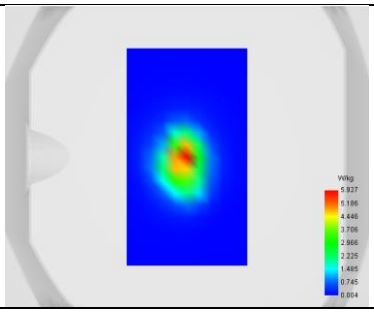
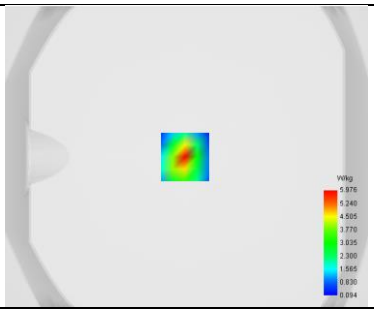
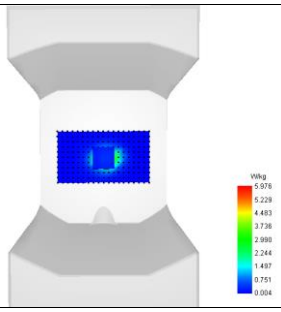
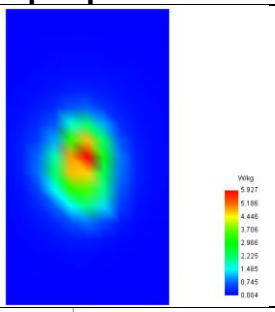
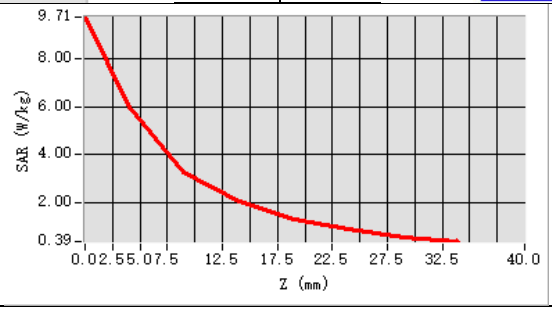
Maximum location: X=3.00, Y=10.00 ; SAR Peak: 2.28 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 6:

Test Date	2025-12-26
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Top Side
Band	LTE band 17
Signal	LTE FDD
Frequency	709
SAR 10g (W/Kg)	2.637
SAR 1g (W/Kg)	5.471
ConvF	2.25
Relative permittivity	42.36
Conductivity (S/m)	0.86

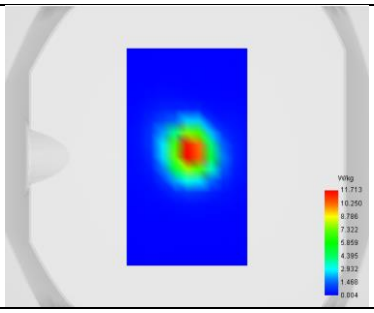
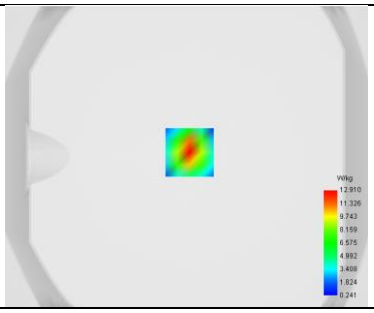
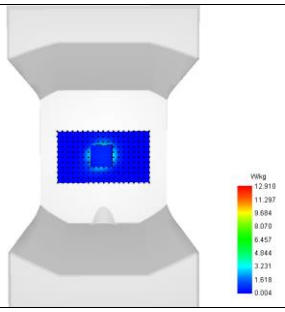
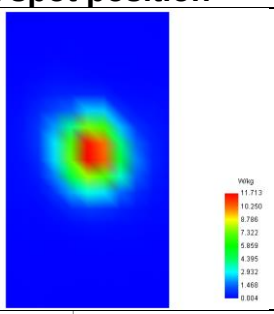
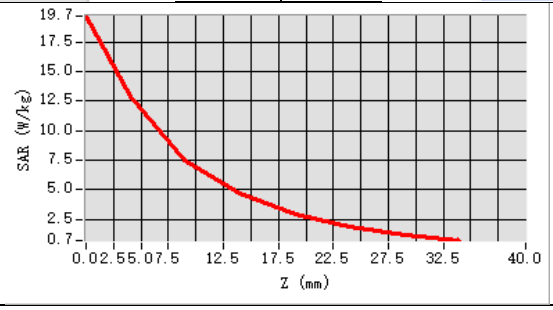
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 9.60 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 7:

Test Date	2025-12-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 25
Signal	LTE FDD
Frequency	1860
SAR 10g (W/Kg)	6.046
SAR 1g (W/Kg)	11.848
ConvF	1.95
Relative permittivity	41.01
Conductivity (S/m)	1.42

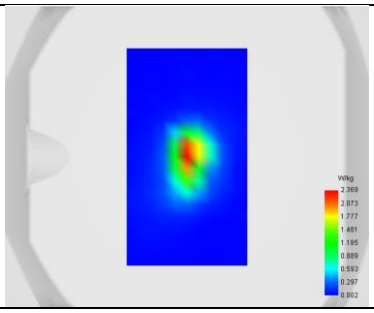
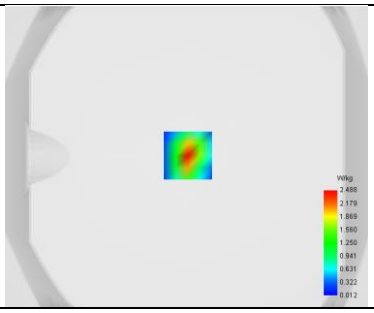
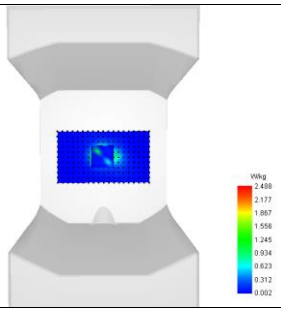
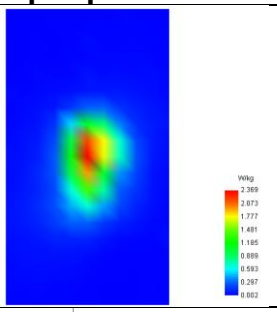
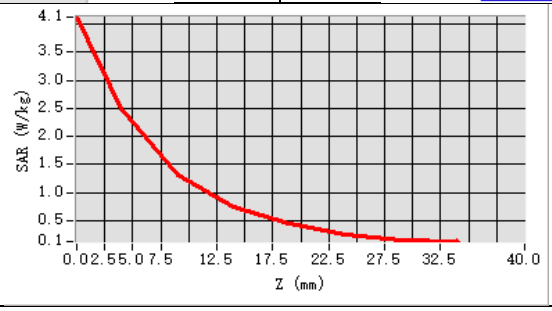
Maximum location: X=2.00, Y=3.00 ; SAR Peak: 19.68 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 8:

Test Date	2025-12-30
Area Scan	dx=8mm dy=8mm
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Bottom Side
Band	LTE band 38
Signal	LTE TDD
Frequency	1860
SAR 10g (W/Kg)	1.000
SAR 1g (W/Kg)	2.244
ConvF	1.95
Relative permittivity	41.01
Conductivity (S/m)	1.42

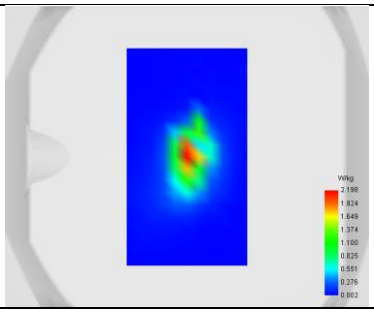
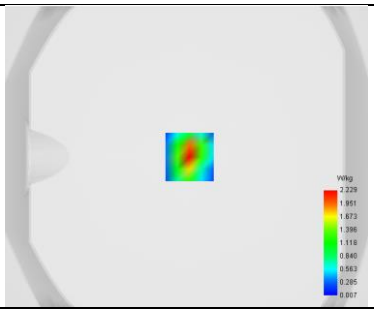
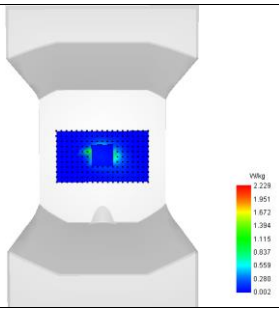
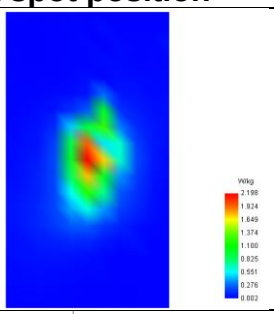
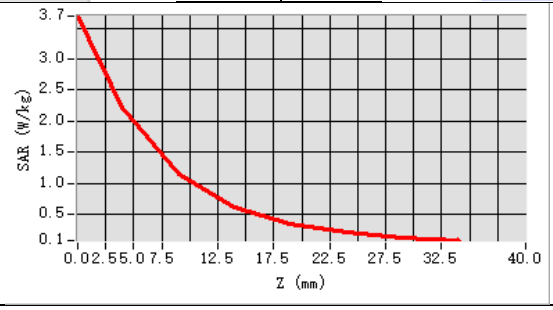
Maximum location: X=1.00, Y=1.00 ; SAR Peak: 4.10 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Plot 9:

Test Date	2025-12-27
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 41
Signal	LTE TDD
Frequency	2605
SAR 10g (W/Kg)	0.889
SAR 1g (W/Kg)	2.010
ConvF	1.72
Relative permittivity	39.91
Conductivity (S/m)	1.97

Maximum location: X=2.00, Y=0.00 ; SAR Peak: 3.70 W/kg

SURFACE SAR	VOLUME SAR
	
3D screen shot	**Hot spot position**
	
	

Appendix C. Probe Calibration and Dipole Calibration Report

Refer the appendix Calibration Report.

※※※※※END OF THE REPORT※※※※※