

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093) and
IEEE Std 1528-2013**

Product Name: Tablet

Model No.: MegaPad

Serial Model: TAB KINGKONG S3, TAB KINGKONG 4,
TAB KINGKONG 5, MegaPad 2, MegaPad 3

Brand Name: CUBOT

Report No.: AiTSZ-260609078FW1

FCC ID: 2AHZ5MPAD

Prepared for

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TEST RESULT CERTIFICATION

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Product description

Product name : Tablet
Trademark : CUBOT
Model and/or type reference : MegaPad
Serial Model..... : TAB KINGKONG S3, TAB KINGKONG 4, TAB KINGKONG 5,
MegaPad 2, MegaPad 3
FCC 47 CFR Part 2(2.1093)

Standards : IEEE Std 1528-2013

Published RF exposure KDB procedures

This device described above has been tested by Guangdong Asia Hongke Test Technology Limited. In accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 and KDB 865664 D01. Testing has shown that this device is capable of compliance with localized specific absorption rate (SAR) specified in FCC 47 CFR Part 2(2.1093). The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

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Test Sample Number..... : AiTSZ-260609078-1

Date of Test

Date (s) of performance of tests..... : Jun. 09, 2026 ~ Jun. 20, 2026

Date of Issue..... : Jun. 30, 2026

Test Result..... : **Pass**

Reviewed by: Ken Zou
Ken Zou

Approved by: Jack Li
Jack Li

※ ※ Revision History ※ ※

REV.	DESCRIPTION	ISSUED DATE	REMARK
Rev.1.0	Initial Test Report Release	Jun. 30, 2026	Jack Li

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1. General Information

1.1. RF exposure limits

(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.

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).

General Population/Uncontrolled Environments:

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

NOTE
TRUNK LIMIT
1.6 W/kg
APPLIED TO THIS EUT

1.2. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing as follows.

Band	Max SAR Value Reported(W/kg)	
	1-g Body (Separation distance of 0mm)	Max SAR Summation
GSM850	0.360	Body&Hotspot: 1.109
GSM1900	0.528	
WCDMA Band II	0.463	
WCDMA Band IV	0.484	
WCDMA Band V	0.292	
LTE band 2	0.549	
LTE band 4	0.493	
LTE band 5	0.193	
LTE band 7	0.398	
LTE band 12	0.190	
LTE band 17	0.133	
2.4GHz WLAN	0.289	
5.2GHz WLAN	0.560	
5.8GHz WLAN	0.469	

NOTE: The Max SAR Summation is calculated based on the same configuration and test position.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2(2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

This product supports Voice but does not have a handset.

The EUT has one SIM card slot.

1.3. EUT Description

Device Information			
Product Name	Tablet		
Model Name	MegaPad		
Family Model	TAB KINGKONG S3, TAB KINGKONG 4, TAB KINGKONG 5, MegaPad 2, MegaPad 3		
Model Difference	All the model are the same circuit and RF module, except the model names.		
Device Phase	Identical Prototype		
Exposure Category	General population / Uncontrolled environment		
Antenna Type	FPC Antenna		
Battery Information	DC 3.87V, 14600mAh from Rechargeable Li-ion battery		
Hardware version	WT_S102_6769_BED_MB		
Software version	CUBOT_MEGAPAD_P151C_V01		
Device Operating Configurations			
Supporting Mode(s)	GSM 850/1900, WCDMA Band 2/4/5, FDD-LTE: Band 2/4/5/7/12/17, WLAN 2.4G/5G, Bluetooth		
Test Modulation	GSM(GMSK/8PSK), WCDMA(QPSK), LTE(QPSK/16-QAM), WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ DQPSK, 8DPSK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	GSM 1900	1850-1910	1930-1990
	WCDMA Band 2	1850-1910	1930-1990
	WCDMA Band 4	1710-1755	2110-2155
	WCDMA Band 5	824-849	869-894
	LTE Band 2	1850-1910	1930-1990
	LTE Band 4	1710-1755	2110-2155
	LTE Band 5	824-849	869-894
	LTE Band 7	2500-2570	2620-2690
	LTE Band 12	699-716	729-746
	LTE Band 17	704-716	734-746
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
GPRS Multislot Class(12)	Max Number of Timeslots in Uplink		4
	Max Number of Timeslots in Downlink		4
	Max Total Timeslot		5

EGPRS Multislot Class(12)	Max Number of Timeslots in Uplink	4
	Max Number of Timeslots in Downlink	4
	Max Total Timeslot	5
Power Class	4, tested with power level 5(GSM 850)	
	1, tested with power level 0(GSM 1900)	
	3, tested with power control "all 1"(WCDMA Band 2)	
	3, tested with power control "all 1"(WCDMA Band 4)	
	3, tested with power control "all 1"(WCDMA Band 5)	
	3, tested with power control all Max.(LTE Band 2)	
	3, tested with power control all Max.(LTE Band 4)	
	3, tested with power control all Max.(LTE Band 5)	
	3, tested with power control all Max.(LTE Band 7)	
	3, tested with power control all Max.(LTE Band 12)	
	3, tested with power control all Max.(LTE Band 17)	

1.4. Test specification(s)

FCC 47 CFR Part 2(2.1093)
IEEE Std 1528-2013
KDB 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02 RF Exposure Reporting v01r02
KDB 447498 D01 General RF Exposure Guidance v06
KDB 248227 D01 802.11 Wi-Fi SAR v02r02
KDB 941225 D01 3G SAR Procedures v03r01
KDB 941225 D05 SAR for LTE Devices v02r05
KDB 616217 D04 SAR for laptop and tablets v01r02

1.5. Ambient Condition

Ambient temperature	20°C – 24°C
Relative Humidity	30% – 70%

1.6. Test Facility

Test Laboratory:

Guangdong Asia Hongke Test Technology Limited

B1/F, Building 11, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified or accredited by the following organizations:

FCC-Registration No.: 251906 Designation Number: CN1376

Guangdong Asia Hongke Test Technology Limited has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC —Registration No.: 31737 CAB identifier: CN0165

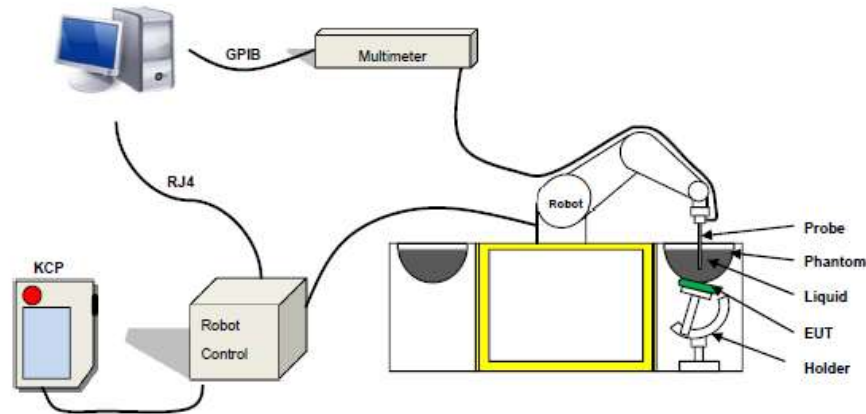
The 3m Semi-anechoic chamber of Guangdong Asia Hongke Test Technology Limited has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 31737

A2LA-Lab Cert. No.: 7133.01

Guangdong Asia Hongke Test Technology Limited has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

2. SAR Measurement System

2.1. SATIMO SAR Measurement Set-up Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 901 mm), which positions the probes with a positional repeatability of better than ± 0.03 mm. The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation.

The first step of the field measurement is the evaluation of the voltages induced on the probe by the device under test. Probe diode detectors are nonlinear. Below the diode compression point, the output voltage is proportional to the square of the applied E-field; above the diode compression point, it is linear to the applied E-field. The compression point depends on the diode, and a calibration procedure is necessary for each sensor of the probe.

The Keithley multimeter reads the voltage of each sensor and send these three values to the PC. The corresponding E field value is calculated using the probe calibration factors, which are stored in the working directory. This evaluation includes linearization of the diode characteristics. The field calculation is done separately for each sensor. Each component of the E field is displayed on the "Dipole Area Scan Interface" and the total E field is displayed on the "3D Interface"

2.2. Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.03 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

2.3. Probe

This E-field detection probe is composed of three orthogonal dipoles linked to special Schottky diodes with low detection thresholds. The probe allows the measurement of electric fields in liquids such as the one defined in the IEEE and CENELEC standards.

For the measurements the Specific Dosimetric E-Field Probe 0523-EPGO-403 with following specifications is used.



- Probe Length: 330 mm
- Length of Individual Dipoles: 2 mm
- 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: 150 MHz to 7.5 GHz for head & body simulating liquid.
- Angle between probe axis (evaluation axis) and surface normal line: less than 30°

2.3.1. E-Field Probe Calibration

Each probe needs to be calibrated according to a dosimetric assessment procedure with accuracy better than $\pm 10\%$. The spherical isotropy shall be evaluated and within $\pm 0.25\text{dB}$. The sensitivity parameters (Norm X, Norm Y, and Norm Z), the diode compression parameter (DCP) and the conversion factor (Conv F) of the probe are tested. The calibration data can be referred to appendix D of this report.

2.4. Phantoms

For the measurements the Elliptical 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. The Elliptical phantom has elliptic shape. The Elliptical phantom provide one reference point on its top part to position the probe tip correctly. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



Elliptical

2.5. Technical Data

Overall thickness	2±0.2mm
Internal Dimensions (Bottom part)	600 mm (L) x 400 mm (W) 170 mm (H)
External Dimensions	1000 mm (L) x 500 mm (W) x 280 mm (H)
Maximum volume	35 L
Material	Fiberglass based
Relative permittivity	3.4
Loss tangent	0.02

The test, based on ultrasonic system, allows measuring the thickness with an accuracy of 10 µm.

2.6. Device Holder



The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface.

Material properties: the positioning system is made of PETP. This material offers a low permittivity of 3.2 and low loss, with a loss tangent of 0.005 to minimize the influence of the DUT on measurement results.

Mechanical properties: 2 rows of rail to cover easily the surface of the phantom. The fixing plate is perfectly adapted to larger devices, such as a PC which can be positioned in all configurations.

Accuracy and precision: graduated scale available on each axis. The DUT is fixed with a specific adaptable grip.

2.7. Test Equipment List

This table gives a complete overview of the SAR measurement equipment.

Devices used during the test described are marked ☒

	Manufacturer	Name of Equipment	Type/Model	Serial Number	Calibration	
					Last Cal.	Due Date
☒	MVG	E FIELD PROBE	SSE2	0523-EPGO-403	Mar. 03, 2026	Mar. 02, 2027
☒	MVG	750 MHz Dipole	SID750	SN 2614 DIP0G750-325	Mar. 31, 2026	Mar. 30, 2029
☒	MVG	900 MHz Dipole	SID900	SN 1811-DIP0G900-151	Mar. 31, 2026	Mar. 30, 2029
☒	MVG	1800 MHz Dipole	SID1800	1811-DIP1G800-152	Mar. 31, 2026	Mar. 30, 2029
☒	MVG	1900 MHz Dipole	SID1900	1811-DIP1G900-153	Mar. 31, 2026	Mar. 30, 2029
☐	MVG	2000 MHz Dipole	SID2000	SN 1811-DIP2G000-154	Mar. 31, 2026	Mar. 30, 2029
☐	MVG	2300 MHz Dipole	SID2300	SN 1811-DIP2G300-157	Mar. 31, 2026	Mar. 30, 2029
☒	MVG	2450 MHz Dipole	SID2450	SN 1811-DIP2G450-155	Mar. 31, 2026	Mar. 30, 2029
☒	MVG	2600 MHz Dipole	SID2600	SN 2614-DIP2G600-326	Mar. 31, 2026	Mar. 30, 2029
☐	MVG	3500 MHz Dipole	SWG3500	SN 1811-DIP3G500-156	Apr. 01, 2026	Mar. 31, 2029
☒	MVG	5000 MHz Dipole	SWG5500	SN 2923-DIP5G000-730	Apr. 01, 2026	Mar. 31, 2029
☒	MVG	Liquid measurement Kit	SCLMP	SN 21/15 OCPG 72	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	MVG	Power Amplifier	N.A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026

					2025	2026
☒	R&S	Wideband radio communication tester	CMW500	116581	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	HP	Network Analyzer	8753D	3410J01136	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	HP	Network Analyzer - calibration kit	N.A	3400J01116 3401J01110	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	PSG Analog Signal Generator	E8257D	MY51110112	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102538	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102140	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power meter	E4419B	MY45102215	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025

					2024	2025
					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-494-4	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-492-1	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	JFW	attenuator	50FPE-006	4360846-490-6	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power sensor	E9301A	MY41495644	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	Agilent	Power sensor	E9301A	US39212148	Jul. 02, 2023	Jul. 01, 2024
					Jul. 01, 2024	Jun. 30, 2025
					Jun. 30, 2025	Jun. 29, 2026
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Jul. 18, 2021	Jul. 17, 2024
					Jul. 17, 2024	Jul. 16, 2027
☒	N/A	Thermometer	N/A	LES-085	Sep. 23, 2024	Sep. 22, 2027
☒	MVG	Elliptical Phantom	SSM2	SN 20/11 ELLI20	NCR	NCR



☒	MVG	Device Holder	SMPPD	SN 24/11 LSH15	NCR	NCR
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3. SAR Measurement Procedures

The measurement procedures are as follows:

<Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For Wi-Fi/BT power measurement, use engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
- (d) Connect EUT RF port through RF cable to the power meter, and measure Wi-Fi/BT output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT Wi-Fi/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix A demonstrates.
- (c) Set scan area, grid size and other setting on the OPENSAR software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band.
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

3.1. Power Reference

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

3.2. Area scan & Zoom scan

The area scan is a 2D scan to find the hot spot location on the DUT. The zoom scan is a 3D scan

above the hot spot to calculate the 1g and 10g SAR value.

Measurement of the SAR distribution with a grid of 8 to 16 mm * 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.

From the scanned SAR distribution, identify the position of the maximum SAR value, in addition identify the positions of any local maxima with SAR values within 2 dB of the maximum value that will not be within the zoom scan of other peaks; additional peaks shall be measured only when the primary peak is within 2 dB of the SAR compliance limit (e.g., 1 W/kg for 1,6 W/kg 1 g limit, or 1,26 W/kg for 2 W/kg, 10 g limit).

Area scan & Zoom scan scan parameters extracted from FCC KDB 865664 D01 SAR measurement 100 MHz to 6 GHz.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^\circ \pm 1^\circ$	$20^\circ \pm 1^\circ$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.				
* When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

3.3. Description of interpolation/extrapolation scheme

The local SAR inside the phantom is measured using small dipole sensing elements inside a probe body. The probe tip must not be in contact with the phantom surface in order to minimise measurements errors, but the highest local SAR will occur at the surface of the phantom.

An extrapolation is used to determine this highest local SAR values. The extrapolation is based on a fourth-order least-square polynomial fit of measured data. The local SAR value is then extrapolated from the liquid surface with a 1 mm step.

The measurements have to be performed over a limited time (due to the duration of the battery) so the step of measurement is high. It could vary between 5 and 8 mm. To obtain an accurate assessment of the maximum SAR averaged over 10 grams and 1 gram requires a very fine resolution in the three dimensional scanned data array.

3.4. Volumetric Scan

The volumetric scan consists to a full 3D scan over a specific area. This 3D scan is useful for multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scans to calculate the SAR value of the combined measurement as it is defined in the standard IEEE1528 and IEC62209.

3.5. Power Drift

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In OpenSAR measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in V/m. If the power drifts more than $\pm 5\%$, the SAR will be retested.

4. System Verification Procedure

4.1. Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

Ingredients (% of weight)	Head Tissue									
	750	835	900	1800	1900	2000	2450	2600	5200	5800
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5200	5800
Water	34.40	34.40	34.40	55.36	55.36	57.87	57.87	57.87	65.53	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00	0.00
1,2-Propanediol	64.81	64.81	64.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Triton X-100	0.00	0.00	0.00	30.45	30.45	19.97	19.97	19.97	24.24	24.24
DGBE	0.00	0.00	0.00	13.84	13.84	22.00	22.00	22.00	10.23	10.23

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid depth from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm.



4.1.1. Tissue Dielectric Parameter Check Results

The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

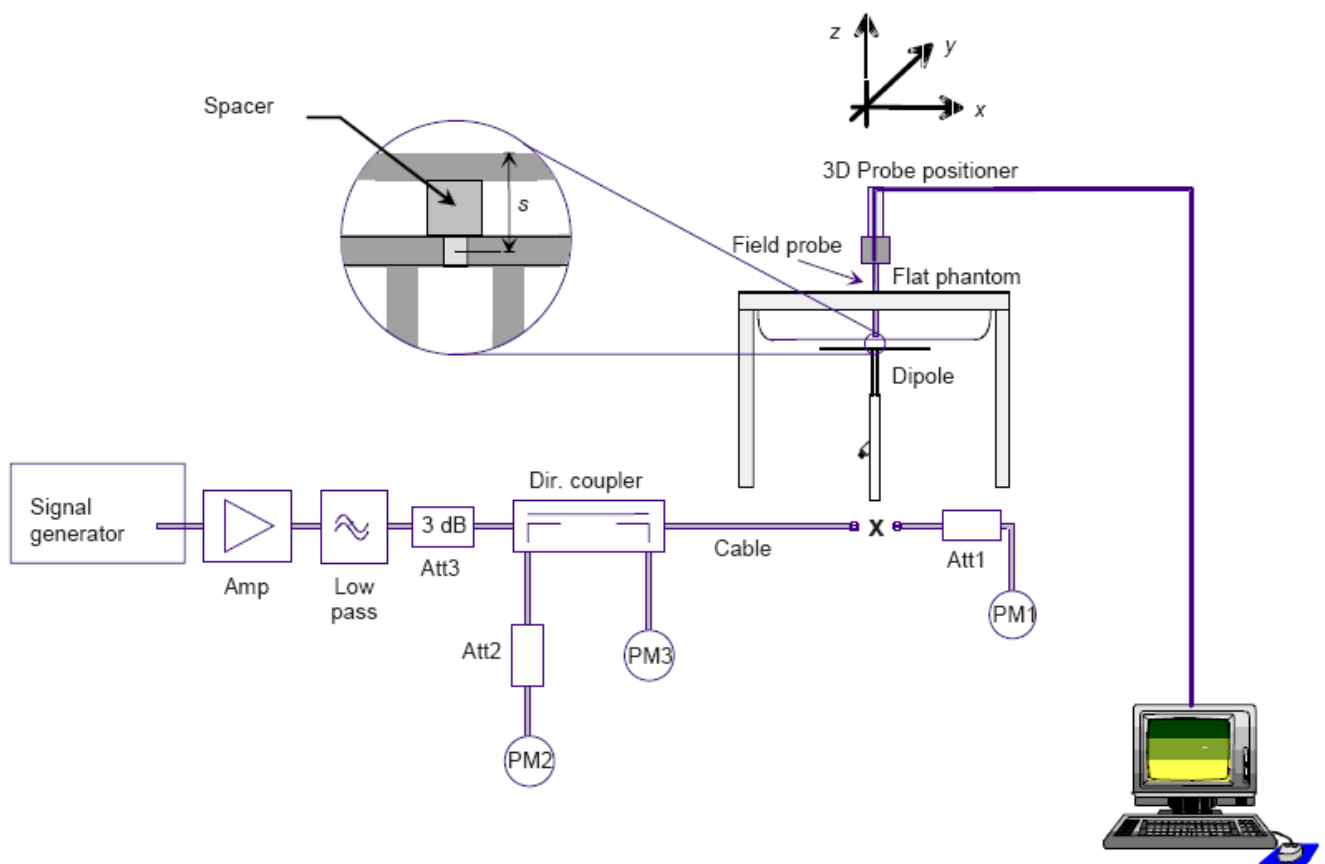
Tissue Type	Measured Frequency (MHz)	Target Tissue		Measured Tissue		Liquid Temp.	Test Date
		$\epsilon_r (\pm 5\%)$	σ (S/m) ($\pm 5\%$)	ϵ_r	σ (S/m)		
Head 750	750	41.96 (39.86~44.06)	0.89 (0.85~0.93)	41.90	0.89	21.6 °C	Jun. 09, 2026
Head 900	900	41.50 (39.43~43.58)	0.97 (0.92~1.02)	40.94	0.96	21.4 °C	Jun. 10, 2026
Head 1800	1800	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.52	1.40	21.1 °C	Jun. 11, 2026
Head 1900	1900	40.00 (38.00~42.00)	1.40 (1.33~1.47)	41.27	1.34	21.9 °C	Jun. 12, 2026
Head 2450	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	41.04	1.80	21.7 °C	Jun. 15, 2026
Head 2600	2600	39.01 (37.06~40.96)	1.96 (1.86~2.06)	39.00	1.96	21.2 °C	Jun. 16, 2026
Head 5200	5200	36.00 (34.20~37.80)	4.66 (4.43~4.89)	36.00	4.66	21.0 °C	Jun. 17, 2026
Head 5800	5800	35.30 (33.54~37.07)	5.27 (5.01~5.53)	35.30	5.27	21.8 °C	Jun. 20, 2026

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

4.2. System Verification Procedure

The system verification is performed for verifying the accuracy of the complete measurement system and performance of the software. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 100mW (below 5GHz) or 50mW (above 5GHz). To adjust this power a power meter is used. The power sensor is connected to the cable before the system verification to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the system verification to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

The system verification is shown as below picture:



4.2.1. System Verification Results

Comparing to the original SAR value provided by SATIMO, the verification data should be within its specification of $\pm 10\%$. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance verification can meet the variation criterion and the plots can be referred to Appendix B of this report.

System Verification	Power fed to reference dipole (mW)	Measured SAR Value		Measured SAR (Normalized to 1W)		Target SAR Value (1W)		Deviation (%)		Test Date
		1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	
750MHz	100	0.930	0.621	9.30	6.21	8.58	5.68	8.39%	9.33%	Jun. 09, 2026
900MHz	100	1.011	0.642	10.11	6.42	10.76	6.96	-6.04%	-7.76%	Jun. 10, 2026
1800MHz	100	3.832	2.025	38.32	20.25	38.19	20.03	0.34%	1.10%	Jun. 11, 2026
1900MHz	100	4.154	2.153	41.54	21.53	41.96	21.63	-1.00%	-0.46%	Jun. 12, 2026
2450MHz	100	5.184	2.359	51.84	23.59	53.17	24.48	-2.50%	-3.64%	Jun. 15, 2026
2600MHz	100	5.433	2.523	54.33	25.23	56.99	25.63	-4.67%	-1.56%	Jun. 16, 2026
5200MHz	50	3.678	1.203	73.56	24.06	77.82	22.53	-5.47%	6.79%	Jun. 17, 2026
5800MHz	50	4.106	1.206	82.11	24.12	78.72	22.83	4.31%	5.65%	Jun. 20, 2026

5. SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz, SAR measurement variability must be assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. The additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.

2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.

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 (~ 10% from the 1-g SAR limit).

4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

6. SAR Measurement Uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.

7. RF Exposure Positions

7.1. Generic device

The SAR evaluation shall be performed for surface of the DUT that are accessible during intended use, as indicated in Figure 7.1. Adjust the distance between the device surface and the flat phantom to 0mm.

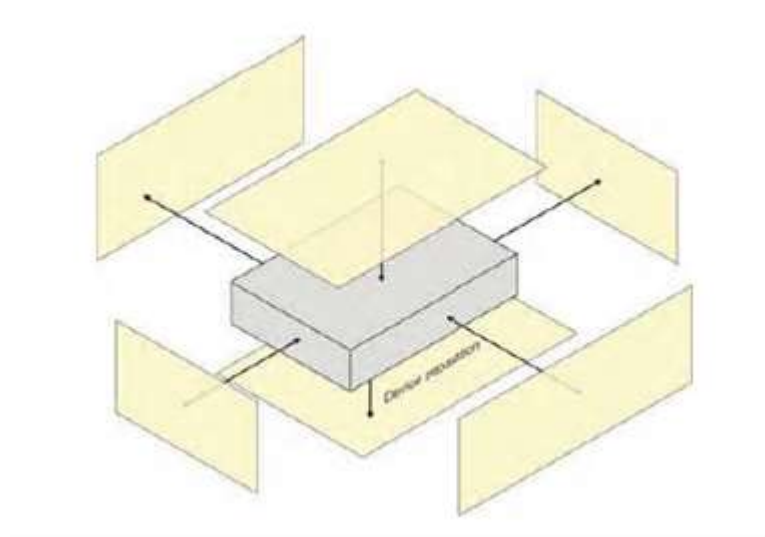


Figure 7.1 – Test positions for generic device

8. RF Output Power

8.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				Factor	Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	128	189	251		Tune-up	128	189	251
Frequency (MHz)		824.2	836.4	848.8			824.2	836.4	848.8
GSM (GMSK)	33.00	32.69	32.65	32.67	-9.03	23.97	23.66	23.62	23.64
GPRS(GMSK,1 Tx slot)	33.00	32.52	32.49	32.51	-9.03	23.97	23.49	23.46	23.48
GPRS(GMSK,2 Tx slot)	31.00	30.96	30.92	30.96	-6.02	24.98	24.94	24.90	24.94
GPRS(GMSK,3 Tx slot)	29.50	29.45	29.45	29.45	-4.26	25.24	25.19	25.19	25.19
GPRS(GMSK,4 Tx slot)	28.00	27.96	27.98	27.99	-3.01	24.99	24.95	24.97	24.98
EGPRS(8PSK,1 Tx slot)	26.50	25.97	25.99	26.01	-9.03	17.47	16.94	16.96	16.98
EGPRS(8PSK,2 Tx slot)	24.50	24.49	24.48	24.48	-6.02	18.48	18.47	18.46	18.46
EGPRS(8PSK,3 Tx slot)	23.00	23.00	22.95	22.99	-4.26	18.74	18.74	18.69	18.73
EGPRS(8PSK,4 Tx slot)	22.00	21.51	21.49	21.47	-3.01	18.99	18.50	18.48	18.46

Band GSM1900	Burst-Averaged output Power (dBm)				Factor	Frame-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	512	661	810		Tune-up	512	661	810
Frequency (MHz)		1850.2	1880	1909.8			1850.2	1880	1909.8
GSM (GMSK)	30.00	29.70	29.70	29.71	-9.03	20.97	20.67	20.67	20.68
GPRS(GMSK,1 Tx slot)	30.00	29.50	29.50	29.49	-9.03	20.97	20.47	20.47	20.46
GPRS(GMSK,2 Tx slot)	28.00	27.96	27.94	27.94	-6.02	21.98	21.94	21.92	21.92
GPRS(GMSK,3 Tx slot)	27.00	26.51	26.52	26.50	-4.26	22.74	22.25	22.26	22.24
GPRS(GMSK,4 Tx slot)	25.00	24.96	24.99	24.94	-3.01	21.99	21.95	21.98	21.93
EGPRS(8PSK,1 Tx slot)	25.50	25.44	25.47	25.47	-9.03	16.47	16.41	16.44	16.44
EGPRS(8PSK,2 Tx slot)	24.00	23.98	23.97	24.00	-6.02	17.98	17.96	17.95	17.98
EGPRS(8PSK,3 Tx slot)	22.50	22.45	22.46	22.48	-4.26	18.24	18.19	18.20	18.22
EGPRS(8PSK,4 Tx slot)	21.00	20.97	20.96	20.95	-3.01	17.99	17.96	17.95	17.94

Note:

Remark: GPRS, CS4 coding scheme. EGPRS, MCS5 coding scheme.

Multi-Slot Class 8, Support Max 4 downlink, 1 uplink, 5 working link

Multi-Slot Class 10, Support Max 4 downlink, 2 uplink, 5 working link

Multi-Slot Class 12, Support Max 4 downlink, 4 uplink, 5 working link

SAR testing was performed on the maximum frame-averaged power mode.

The frame-averaged power is linearly proportion to the slot number configured and it is linearly scaled the maximum

Burst-averaged power based on time slots. The calculated method is shown as below:

Frame-averaged power = Burst averaged power (1 TX Slot) – 9.03 dB

Frame-averaged power = Burst averaged power (2 TX Slots) – 6.02 dB

Frame-averaged power = Burst averaged power (3 TX Slots) - 4.26 dB

Frame-averaged power = Burst averaged power (4 TX Slots) – 3.01 dB

8.2. WCDMA Conducted Power

The following tests were conducted according to the test requirements outlines in 3GPP TS 34.121 specification. A summary of these settings are illustrated below:

1. Release99 Setup Configuration

Mode	Subtest	Rel99
WCDMA General Settings	Loopback Mode	Test Mode 1
	Rel99 RMC	12.2kbps RMC
	Power Control Algorithm	Algorithm1
	β_c/β_d	8/15

2. HSDPA Setup Configuration

	Mode	HSDPA	HSDPA	HSDPA	HSDPA
	Subtest	1	2	3	4
WCDMA General Settings	Loopback Mode	Test Mode 1			
	Rel99 RMC	12.2kbps RMC			
	HSDPA FRC	H-Set1			
	Power Control Algorithm	Algorithm 1			
	β_c	2/15	12/15	15/15	15/15
	β_d	15/15	15/15	8/15	4/15
	Bd (SF)	64			
	β_c/β_d	2/15	12/15	15/8	15/4
	β_{hs}	4/15	24/15	30/15	30/15
HSDPA Specific Settings	D_{ACK}	8			
	D_{NAK}	8			
	DCQI	8			
	Ack-Nack repetition factor	3			
	CQI Feedback (Table 5.2B.4)	4ms			
	CQI Repetition Factor (Table 5.2B.4)	2			
	$A_{hs} = \beta_{hs}/\beta_c$	30/15			

3. HSUPA Setup Configuration

	Mode	HSUPA	HSUPA	HSUPA	HSUPA	HSUPA
	Subtest	1	2	3	4	5
WCDMA General Settings	Loopback Mode	Test Mode 1				
	Rel99 RMC	12.2kbps RMC				
	HSDPA FRC	H-Set1				
	HSUPA Test	HSUPA Loopback				
	Power Control Algorithm	Algorithm1				
	β_c	11/15	6/15	15/15	2/15	15/15
	β_d	15/15	15/15	9/15	15/15	15/15
	β_{ec}	209/225	12/15	30/15	2/15	24/15
	β_c/β_d	11/15	6/15	15/9	2/15	15/15
	β_{hs}	22/15	12/15	30/15	4/15	30/15
	β_{ed}	1309/225	94/75	47/15 47/15	56/75	134/15
	CM (dB)	1.0	3.0	2.0	3.0	1.0
HSDPA Specific Settings	D_{ACK}	8				
	D_{NAK}	8				
	DCQI	8				
	Ack-Nack repetition factor	3				
	CQI Feedback (Table 5.2B.4)	4ms				

HSUPA Specific Settings	CQI Repetition Factor (Table 5.2B.4)	2				
	Ahs = β_{hs}/β_c	30/15				
	D E-DPCCH	6	8	8	5	7
	DHARQ	0	0	0	0	0
	AG Index	20	12	15	17	21
	ETFCI (from 34.121 Table C.11.1.3)	75	67	92	71	81
	Associated Max UL Data Rate kbps	242.1	174.9	482.8	205.8	308.9

4. WCDMA Conducted Power Results

Choose the highest output power mode RMC 12.2Kbps for Band V/II at middle channel to test SAR and determine the worst configuration for further high/low channel test.

WCDMA Band II	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
RMC12.2K	23.50	23.31	23.40	23.22
HSDPA Sub 1	23.00	22.73	22.72	22.59
HSDPA Sub 2	23.00	22.60	22.74	22.65
HSDPA Sub 3	23.00	22.49	22.43	22.50
HSDPA Sub 4	23.00	22.51	22.45	22.48
HSUPA Sub 1	23.00	22.68	22.71	22.45
HSUPA Sub 2	23.00	22.47	22.64	22.36
HSUPA Sub 3	23.00	22.65	22.67	22.53
HSUPA Sub 4	22.50	22.46	22.36	22.35
HSUPA Sub 5	22.00	21.45	21.60	21.73

WCDMA Band IV	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
RMC12.2K	23.50	23.24	23.27	23.22
HSDPA Sub 1	23.00	22.50	22.75	22.48
HSDPA Sub 2	23.00	22.46	22.73	22.60
HSDPA Sub 3	23.00	22.64	22.66	22.53
HSDPA Sub 4	23.00	22.50	22.51	22.71
HSUPA Sub 1	23.00	22.52	22.72	22.57
HSUPA Sub 2	23.00	22.40	22.63	22.49
HSUPA Sub 3	23.00	22.58	22.61	22.50
HSUPA Sub 4	23.00	22.55	22.46	22.46
HSUPA Sub 5	22.00	21.16	21.62	21.41

WCDMA Band V	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	23.00	22.69	22.94	22.61
HSDPA Sub 1	23.00	22.55	22.81	22.78
HSDPA Sub 2	23.00	22.70	22.71	22.58
HSDPA Sub 3	23.00	22.62	22.77	22.45
HSDPA Sub 4	23.00	22.51	22.73	22.60
HSUPA Sub 1	23.00	22.46	22.60	22.55
HSUPA Sub 2	23.00	22.46	22.59	22.51
HSUPA Sub 3	23.00	22.37	22.59	22.57
HSUPA Sub 4	22.00	21.43	21.60	21.52
HSUPA Sub 5	22.00	21.81	21.00	21.74

8.3. LTE Conducted Power

- The following tests were conducted according to the test requirements outlines in 3GPP TS 36.521-1 specification. A summary of these configurations are illustrated below:

Test Parameters for Channel Bandwidths				
Ch BW	Downlink Configuration	Mod'n	Uplink Configuration	
	N/A for Max UE output power testing		RB allocation	
			FDD	TDD
1.4MHz		QPSK	1	1
1.4MHz		QPSK	5	5
3MHz		QPSK	1	1
3MHz		QPSK	4	4
5MHz		QPSK	1	1
5MHz		QPSK	8	8
10MHz		QPSK	1	1
10MHz		QPSK	12	12
15MHz		QPSK	1	1
15MHz		QPSK	16	16
20MHz		QPSK	1	1
20MHz		QPSK	18	18

Note 1: Test Channel Bandwidths are checked separately for each E-UTRA band, the applicable channel bandwidths are specified in Table 5.4.2.1-1.

Note 2: For E-UTRA bands not applied with Note 2 in Table 6.2.2.3-1:

- The 1 RB allocation shall be tested at RB#0 for low and mid range, RB #max for high range test frequency.
- The RBstart of non-1RB allocation shall be RB #0 for low and mid range, RB# (max +1 - RB allocation) for high range test frequency.

Note 3: For E-UTRA bands applied with Note 2 in Table 6.2.2.3-1:

- If the test channel bandwidth is larger than 4MHz, then the 1 RB allocation shall be tested at both RB #0 and RB #max.
- If the test channel bandwidth is smaller or equal to 4MHz, then the 1 RB allocation shall be tested at RB #0.
- If the test channel bandwidth = (FUL_high - FUL_low) specified by the operating band, then only one frequency range shall be tested and the 1 RB allocation shall be tested at RB #0, RB # $\left\lceil N_{RB}^{UL} / 2 \right\rceil$ and RB #max.
- For non-1RB allocation, test frequency is middle range, and the RBstart shall be RB #0.

2. LTE Conducted Power Results

LTE output list

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18607/1850.7	18900/1880	19193/1909.3
LTE Band 2	1.4MHz	QPSK	1	0	22.50	21.84	21.99	20.90
			1	2	22.50	21.95	22.24	20.97
			1	5	22.50	21.88	22.09	20.83
			3	0	22.50	21.94	22.05	20.79
			3	1	22.50	22.00	22.19	20.81
			3	2	22.50	22.01	22.21	20.78
			6	0	21.50	20.92	21.13	20.01
		16QAM	1	0	21/22/20	20.96	21.02	19.74
			1	2	22/22/21	21.37	21.58	20.01
			1	5	22/22/20	21.00	21.01	19.74
			3	0	21.50	20.88	21.07	19.63
			3	1	21.50	20.96	21.20	19.85
			3	2	21.50	20.87	21.09	19.56
			6	0	20.50	19.82	20.16	18.88
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18615/1851.5	18900/1880	19185/1908.5
LTE Band 2	3MHz	QPSK	1	0	22/22/21	21.86	21.78	20.79
			1	7	22/23/21	21.91	22.05	20.46
			1	14	23/22/21	22.02	21.65	20.85
			8	0	21.50	20.89	20.67	19.93
			8	4	21.50	21.01	20.71	19.99
			8	7	21.50	21.05	20.63	19.97
			15	0	21.00	21.00	20.69	19.87
		16QAM	1	0	22/22/20	21.10	21.40	19.38
			1	7	22/22/20	21.16	21.38	19.59
			1	14	22/21/20	21.09	20.86	19.78
			8	0	20.50	19.96	19.86	18.88
			8	4	20.50	20.14	19.69	18.82
			8	7	20.50	20.07	19.72	18.86
			15	0	20.50	20.02	19.62	18.71
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18625/1852.5	18900/1880	19175/1907.5
LTE Band 2	5MHz	QPSK	1	0	22.50	21.90	21.84	21.06
			1	12	22.50	22.16	22.19	21.08
			1	24	22.50	22.12	22.16	20.83
			12	0	21.50	20.84	21.13	19.80
			12	6	21.50	21.13	21.21	20.03
			12	11	21.50	21.20	21.36	20.00
			25	0	21.50	21.08	21.29	19.99
		16QAM	1	0	22/22/21	21.09	21.23	20.27
			1	12	22/22/21	21.49	21.62	20.19
			1	24	22/22/20	21.24	21.18	19.94
			12	0	20.50	19.91	20.17	18.87

			12	6	20.50	20.18	20.32	19.07
			12	11	20.50	20.27	20.41	19.06
			25	0	20.50	20.10	20.32	18.98
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18650/1855	18900/1880	19150/1905
LTE Band 2	10MHz	QPSK	1	0	22.50	21.92	21.98	21.16
			1	24	22.50	22.27	22.22	21.29
			1	49	22.50	22.29	22.16	20.93
			25	0	22.00	20.85	21.23	20.26
			25	12	22.00	21.17	21.24	20.17
			25	24	22.00	21.39	21.51	20.49
			50	0	21.50	21.13	21.42	20.49
		16QAM	1	0	22/22/21	21.13	21.42	20.38
			1	24	22/22/21	21.47	21.78	20.55
			1	49	22/22/20	21.46	21.34	19.79
			25	0	21.00	19.76	20.29	19.42
			25	12	21.00	20.14	20.32	19.23
			25	24	21.00	20.36	20.62	19.58
			50	0	21.00	20.10	20.55	19.57
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18675/1857.5	18900/1880	19125/1902.5
LTE Band 2	15MHz	QPSK	1	0	22.50	21.88	22.18	21.71
			1	37	22.50	22.32	22.23	20.90
			1	74	22.50	22.27	21.99	20.87
			36	0	21.50	20.98	21.22	20.91
			36	18	21.50	21.39	21.27	20.45
			36	37	21.50	21.30	21.46	20.51
			75	0	21.50	21.13	21.35	20.66
		16QAM	1	0	22/22/21	21.06	21.50	20.60
			1	37	22/22/21	21.43	21.52	20.69
			1	74	22/22/20	21.47	21.25	19.73
			36	0	21.00	19.90	20.30	19.95
			36	18	21.00	20.27	20.31	19.44
			36	37	21.00	20.20	20.55	19.41
			75	0	20.50	20.05	20.44	19.69
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		18700/1860	18900/1880	19100/1900
LTE Band 2	20MHz	QPSK	1	0	22/23/22	21.85	22.09	21.70
			1	49	23/23/22	22.55	22.44	21.52
			1	99	23/22/21	22.17	21.81	20.60
			50	0	22.00	20.93	21.20	21.72
			50	24	22.00	21.34	21.31	20.74
			50	49	22.00	20.90	21.77	20.90
			100	0	22.00	20.91	21.59	21.38
		16QAM	1	0	21/22/21	20.89	21.33	20.77
			1	49	22/22/21	21.72	21.76	20.96
			1	99	22/21/20	21.30	20.88	19.64
			50	0	21.00	19.87	20.33	20.76

			50	24	21.00	20.34	20.42	19.80
			50	49	21.00	19.98	20.84	19.97
			100	0	21.00	19.88	20.68	20.41

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19957/1710.7	20175/1732.5	20393/1754.3
LTE Band 4	1.4MHz	QPSK	1	0	22.50	21.55	22.05	22.32
			1	2	22.50	21.65	22.22	22.47
			1	5	22.50	21.54	22.05	22.30
			3	0	22.50	21.68	22.16	22.41
			3	1	22.50	21.66	22.18	22.45
			3	2	22.50	21.70	22.22	22.45
			6	0	21.50	20.62	21.09	21.36
		16QAM	1	0	22.00	20.67	20.95	21.44
			1	2	22.00	21.06	21.52	21.77
			1	5	22.00	20.69	20.99	21.45
			3	0	22.00	20.55	21.02	21.33
			3	1	22.00	20.60	21.23	21.59
			3	2	22.00	20.58	20.94	21.30
			6	0	20.50	19.48	20.10	20.45
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19965/1711.5	20175/1732.5	20385/1753.5
LTE Band 4	3MHz	QPSK	1	0	22.50	21.53	22.03	22.40
			1	7	22.50	21.54	22.09	22.41
			1	14	22.50	21.55	22.12	22.39
			8	0	21.50	20.56	21.13	21.43
			8	4	21.50	20.66	21.13	21.43
			8	7	21.50	20.62	21.08	21.42
			15	0	21.50	20.57	21.07	21.40
		16QAM	1	0	22.00	20.76	21.30	21.33
			1	7	22.00	20.79	21.53	21.70
			1	14	22.00	20.65	21.27	21.32
			8	0	20.50	19.64	20.13	20.46
			8	4	20.50	19.74	20.13	20.44
			8	7	20.50	19.66	20.12	20.42
			15	0	20.50	19.62	20.04	20.38
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		19975/1712.5	20175/1732.5	20375/1752.5
LTE Band 4	5MHz	QPSK	1	0	23.00	21.55	21.98	22.33
			1	12	23.00	21.86	22.29	22.61
			1	24	23.00	21.59	22.05	22.36
			12	0	21.50	20.54	21.14	21.35
			12	6	21.50	20.66	21.19	21.43
			12	11	21.50	20.69	21.10	21.44
			25	0	21.50	20.61	21.16	21.42
		16QAM	1	0	22.00	20.56	21.24	21.37
			1	12	22.00	21.03	21.73	21.87
			1	24	22.00	20.54	21.29	21.33

			12	0	20.50	19.51	20.17	20.37
			12	6	20.50	19.71	20.32	20.46
			12	11	20.50	19.67	20.18	20.48
			25	0	20.50	19.65	20.12	20.46
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20000/1715	20175/1732.5	20350/1750
LTE Band 4	10MHz	QPSK	1	0	22.50	21.53	21.94	22.22
			1	24	22.50	21.73	22.21	22.48
			1	49	22.50	21.72	22.10	22.35
			25	0	22.00	20.57	21.19	21.26
			25	12	22.00	20.62	21.12	21.40
			25	24	22.00	20.74	21.17	21.52
			50	0	21.50	20.62	21.21	21.42
		16QAM	1	0	22.00	20.72	21.15	21.45
			1	24	22.00	21.04	21.51	21.91
			1	49	22.00	20.83	21.36	21.55
			25	0	21.00	19.58	20.25	20.33
			25	12	21.00	19.68	20.20	20.43
			25	24	21.00	19.75	20.21	20.58
			50	0	20.50	19.65	20.21	20.44
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20025/1717.5	20175/1732.5	20325/1747.5
LTE Band 4	15MHz	QPSK	1	0	22.50	21.49	21.81	22.00
			1	37	22.50	21.72	22.05	22.30
			1	74	22.50	21.87	22.12	22.27
			36	0	22.00	20.68	21.16	21.24
			36	18	22.00	20.83	21.21	21.32
			36	37	22.00	20.92	21.17	21.50
			75	0	21.50	20.80	21.19	21.37
		16QAM	1	0	22.00	20.81	21.01	21.37
			1	37	22.00	20.92	21.36	21.67
			1	74	22.00	21.07	21.34	21.58
			36	0	21.00	19.64	20.11	20.26
			36	18	21.00	19.78	20.11	20.36
			36	37	21.00	19.87	20.15	20.54
			75	0	20.50	19.73	20.15	20.40
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20050/1720	20175/1732.5	20300/1745
LTE Band 4	20MHz	QPSK	1	0	22.50	21.26	21.51	21.72
			1	49	22.50	21.76	22.08	22.38
			1	99	22.50	21.66	21.88	21.97
			50	0	21.50	20.43	21.01	20.94
			50	24	21.50	20.65	20.96	21.16
			50	49	21.50	20.63	20.99	21.31
			100	0	21.50	20.55	20.96	21.15
		16QAM	1	0	22.00	20.26	20.57	20.86
			1	49	22.00	20.95	21.33	21.67
			1	99	22.00	20.69	20.85	21.16

			50	0	20.50	19.42	19.98	20.06
			50	24	20.50	19.63	19.98	20.26
			50	49	20.50	19.61	20.03	20.37
			100	0	20.50	19.53	20.02	20.19

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20407/824.7	20525/836.5	20643/848.3
LTE Band 5	1.4MHz	QPSK	1	0	23.50	22.98	22.56	22.56
			1	2	23.50	23.12	22.72	22.69
			1	5	23.50	22.98	22.55	22.55
			3	0	23.50	23.07	22.70	22.66
			3	1	23.50	23.07	22.62	22.74
			3	2	23.50	23.09	22.67	22.69
			6	0	22.50	22.04	21.66	21.67
		16QAM	1	0	23.00	22.20	21.58	21.69
			1	2	23.00	22.61	22.13	22.10
			1	5	23.00	22.14	21.50	21.77
			3	0	22.50	22.00	21.60	21.58
			3	1	22.50	22.05	21.73	21.87
			3	2	22.50	21.99	21.47	21.61
			6	0	21.00	20.91	20.72	20.72
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20415/825.5	20525/836.5	20635/847.5
LTE Band 5	3MHz	QPSK	1	0	23.50	23.08	22.58	22.59
			1	7	23.50	23.02	22.56	22.53
			1	14	23.50	22.97	22.58	22.67
			8	0	22.50	22.03	21.68	21.68
			8	4	22.50	22.05	21.67	21.70
			8	7	22.50	22.01	21.64	21.60
			15	0	22.00	21.98	21.65	21.68
		16QAM	1	0	22.50	22.01	21.86	21.77
			1	7	22.50	22.31	21.97	22.05
			1	14	22.50	21.88	21.77	21.83
			8	0	21.50	21.10	20.70	20.67
			8	4	21.50	21.06	20.82	20.70
			8	7	21.50	21.04	20.72	20.68
			15	0	21.00	20.95	20.66	20.63
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20425/826.5	20525/836.5	20625/846.5
LTE Band 5	5MHz	QPSK	1	0	23.50	23.06	22.61	22.52
			1	12	23.50	23.23	22.86	22.82
			1	24	23.50	22.93	22.53	22.62
			12	0	22.50	22.01	21.73	21.77
			12	6	22.50	22.00	21.69	21.74
			12	11	22.50	21.93	21.64	21.63
			25	0	22.00	21.93	21.70	21.66
		16QAM	1	0	23.00	22.08	21.64	21.75
			1	12	23.00	22.57	22.26	22.12
			1	24	23.00	21.91	21.57	21.90

			12	0	21.50	21.01	20.70	20.77
			12	6	21.50	21.03	20.77	20.79
			12	11	21.50	20.96	20.64	20.65
			25	0	21.50	21.03	20.78	20.65
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20450/829	20525/836.5	20600/844
LTE Band 5	10MHz	QPSK	1	0	23.50	23.06	22.72	22.58
			1	24	23.50	22.99	22.72	22.73
			1	49	23.50	22.68	22.54	22.62
			25	0	22.00	21.95	21.95	21.51
			25	12	22.00	21.91	21.71	21.64
			25	24	22.00	21.75	21.83	21.48
			50	0	22.00	21.86	21.88	21.53
		16QAM	1	0	22.50	22.26	21.98	21.81
			1	24	22.50	22.44	22.13	22.21
			1	49	22.50	21.87	21.78	21.89
			25	0	21.50	21.02	20.95	20.50
			25	12	21.50	20.94	20.77	20.71
			25	24	21.50	20.75	20.85	20.52
			50	0	21.00	20.92	20.88	20.50

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20775/2502.5	21100/2535	21425/2567.5
LTE Band 7	5MHz	QPSK	1	0	22.00	21.63	21.02	21.11
			1	12	22.00	21.68	21.11	21.14
			1	24	22.00	21.50	21.17	20.97
			12	0	21.00	20.59	20.03	20.16
			12	6	21.00	20.70	20.15	20.15
			12	11	21.00	20.66	20.16	20.05
			25	0	21.00	20.65	20.15	20.15
		16QAM	1	0	21.50	20.80	20.03	20.13
			1	12	21.50	21.03	20.65	20.53
			1	24	21.50	20.65	20.10	19.96
			12	0	20.00	19.62	19.08	19.14
			12	6	20.00	19.79	19.16	19.20
			12	11	20.00	19.71	19.17	19.07
			25	0	20.00	19.66	19.21	19.15
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20800/2505	21100/2535	21400/2565
LTE Band 7	10MHz	QPSK	1	0	22.00	21.72	20.95	21.19
			1	24	22.00	21.78	21.14	21.31
			1	49	22.00	21.36	21.23	21.05
			25	0	21.00	20.53	20.11	20.45
			25	12	21.00	20.57	20.17	20.30
			25	24	21.00	20.63	20.37	20.14
			50	0	21.00	20.60	20.23	20.34
		16QAM	1	0	21.00	20.65	20.12	20.43
			1	24	21.00	20.97	20.54	20.74
			1	49	21.00	20.26	20.49	20.20

			25	0	20.00	19.58	19.11	19.52
			25	12	20.00	19.62	19.23	19.35
			25	24	20.00	19.64	19.43	19.23
			50	0	20.00	19.58	19.24	19.38
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20825/2507.5	21100/2535	21375/2562.5
LTE Band 7	15MHz	QPSK	1	0	22.00	21.69	20.85	21.25
			1	37	22.00	21.51	21.11	21.24
			1	74	22.00	21.15	21.20	20.98
			36	0	21.00	20.60	20.08	20.61
			36	18	21.00	20.70	20.26	20.37
			36	37	21.00	20.57	20.39	20.17
			75	0	21.00	20.55	20.25	20.48
		16QAM	1	0	21.00	20.58	20.06	20.45
			1	37	21.00	20.64	20.47	20.53
			1	74	21.00	19.99	20.41	20.27
			36	0	20.00	19.49	19.06	19.51
			36	18	20.00	19.55	19.20	19.36
			36	37	20.00	19.44	19.38	19.16
			75	0	19.50	19.45	19.24	19.48
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		20850/2510	21100/2535	21350/2560
LTE Band 7	20MHz	QPSK	1	0	22.00	21.57	20.77	21.07
			1	49	22.00	21.54	21.46	21.42
			1	99	22.00	20.75	21.17	20.79
			50	0	21.00	20.30	20.05	20.52
			50	24	21.00	20.35	20.26	20.42
			50	49	21.00	19.93	20.50	20.04
			100	0	20.50	20.08	20.25	20.34
		16QAM	1	0	21.00	20.58	19.88	20.17
			1	49	21.00	20.71	20.74	20.63
			1	99	21.00	19.88	20.34	19.88
			50	0	20.00	19.24	19.10	19.56
			50	24	20.00	19.32	19.28	19.44
			50	49	20.00	18.95	19.55	19.10
			100	0	19.50	19.08	19.28	19.36

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23017/699.7	23095/707.5	23173/715.3
LTE Band 12	1.4MHz	QPSK	1	0	24.00	23.67	23.43	23.29
			1	2	24.00	23.73	23.65	23.41
			1	5	24.00	23.67	23.41	23.28
			3	0	24.00	23.71	23.55	23.40
			3	1	24.00	23.70	23.55	23.47
			3	2	24.00	23.71	23.58	23.40
			6	0	23.00	22.76	22.47	22.38
		16QAM	1	0	23.50	22.68	22.37	22.29
			1	2	23.50	23.02	22.90	22.66
			1	5	23.50	22.63	22.35	22.37

			3	0	23.00	22.52	22.42	22.26
			3	1	23.00	22.57	22.61	22.47
			3	2	23.00	22.52	22.34	22.24
			6	0	22.00	21.55	21.50	21.39
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23025/700.5	23095/707.5	23165/714.5
LTE Band 12	3MHz	QPSK	1	0	24.00	23.57	23.42	23.28
			1	7	24.00	23.58	23.40	23.21
			1	14	24.00	23.51	23.32	23.24
			8	0	23.00	22.66	22.42	22.32
			8	4	23.00	22.66	22.45	22.26
			8	7	23.00	22.61	22.41	22.28
			15	0	23.00	22.53	22.42	22.27
		16QAM	1	0	23.00	22.68	22.66	22.16
			1	7	23.00	22.66	22.87	22.46
			1	14	23.00	22.64	22.51	22.19
			8	0	22.00	21.59	21.50	21.34
			8	4	22.00	21.70	21.48	21.34
			8	7	22.00	21.55	21.49	21.32
			15	0	22.00	21.55	21.39	21.20
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23035/701.5	23095/707.5	23155/713.5
LTE Band 12	5MHz	QPSK	1	0	24.00	23.58	23.51	23.28
			1	12	24.00	23.90	23.63	23.46
			1	24	24.00	23.49	23.31	23.29
			12	0	23.00	22.68	22.46	22.31
			12	6	23.00	22.64	22.49	22.33
			12	11	23.00	22.53	22.44	22.12
			25	0	23.00	22.53	22.42	22.25
		16QAM	1	0	23.00	22.44	22.68	22.29
			1	12	23.00	22.96	22.90	22.56
			1	24	23.00	22.50	22.57	22.30
			12	0	22.00	21.65	21.55	21.37
			12	6	22.00	21.65	21.65	21.38
			12	11	22.00	21.54	21.54	21.20
			25	0	22.00	21.58	21.51	21.33
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23060/704	23095/707.5	23130/711
LTE Band 12	10MHz	QPSK	1	0	24.00	23.68	23.50	23.49
			1	24	24.00	23.67	23.53	23.45
			1	49	24.00	23.41	23.27	23.31
			25	0	23.00	22.79	22.66	22.48
			25	12	23.00	22.54	22.50	22.38
			25	24	23.00	22.61	22.54	22.28
			50	0	23.00	22.66	22.55	22.36
		16QAM	1	0	23.00	22.52	22.72	22.71
			1	24	23.00	22.97	22.90	22.86
			1	49	23.00	22.37	22.45	22.49

			25	0	22.00	21.80	21.71	21.50
			25	12	22.00	21.60	21.55	21.43
			25	24	22.00	21.62	21.61	21.34
			50	0	22.00	21.70	21.59	21.40

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23755/706.5	23790/710	23825/713.5
LTE Band 17	5MHz	QPSK	1	0	24.00	23.55	23.42	23.29
			1	12	24.00	23.74	23.75	23.32
			1	24	24.00	23.40	23.23	23.25
			12	0	23.00	22.53	22.41	22.36
			12	6	23.00	22.59	22.42	22.34
			12	11	23.00	22.49	22.39	22.20
			25	0	23.00	22.54	22.38	22.28
		16QAM	1	0	23.00	22.56	22.46	22.51
			1	12	23.00	22.97	22.87	22.62
			1	24	23.00	22.44	22.25	22.42
			12	0	22.00	21.59	21.43	21.40
			12	6	22.00	21.64	21.51	21.45
			12	11	22.00	21.55	21.42	21.26
			25	0	22.00	21.59	21.47	21.28
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)		
			RB Size	RB Offset		23780/709	23790/710	23800/711
LTE Band 17	10MHz	QPSK	1	0	24.00	23.56	23.55	23.55
			1	24	24.00	23.62	23.64	23.49
			1	49	24.00	23.33	23.30	23.32
			25	0	23.00	22.61	22.56	22.51
			25	12	23.00	22.55	22.48	22.46
			25	24	23.00	22.50	22.41	22.33
			50	0	23.00	22.58	22.53	22.47
		16QAM	1	0	23.50	22.77	22.47	22.77
			1	24	23.50	23.03	22.76	22.82
			1	49	23.50	22.45	22.25	22.50
			25	0	22.00	21.67	21.66	21.60
			25	12	22.00	21.60	21.51	21.54
			25	24	22.00	21.63	21.48	21.36
			50	0	22.00	21.63	21.57	21.50

8.4. Wi-Fi & BT Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	14.50	14.29
	6	2437	14.50	13.97
	11	2462	14.50	14.49
802.11g	1	2412	15.00	14.74
	6	2437	15.00	14.45
	11	2462	15.00	14.73
802.11n HT20	1	2412	15.00	14.61
	6	2437	15.00	14.44
	11	2462	15.00	14.59
802.11n HT40	3	2422	15.00	14.83
	6	2437	15.00	14.92
	9	2452	15.00	14.57

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	17.00	16.50
	40	5200	17.00	16.18
	48	5240	17.00	16.20
802.11n HT20	36	5180	16.50	16.41
	40	5200	16.50	16.28
	48	5240	16.50	16.27
802.11n HT40	38	5190	17.00	16.70
	46	5230	17.00	16.59
802.11ac VHT20	36	5180	16.50	16.39
	40	5200	16.50	16.22
	48	5240	16.50	16.35
802.11ac VHT40	38	5190	17.00	16.67
	46	5230	17.00	16.60
802.11ac VHT80	42	5210	16.50	16.47

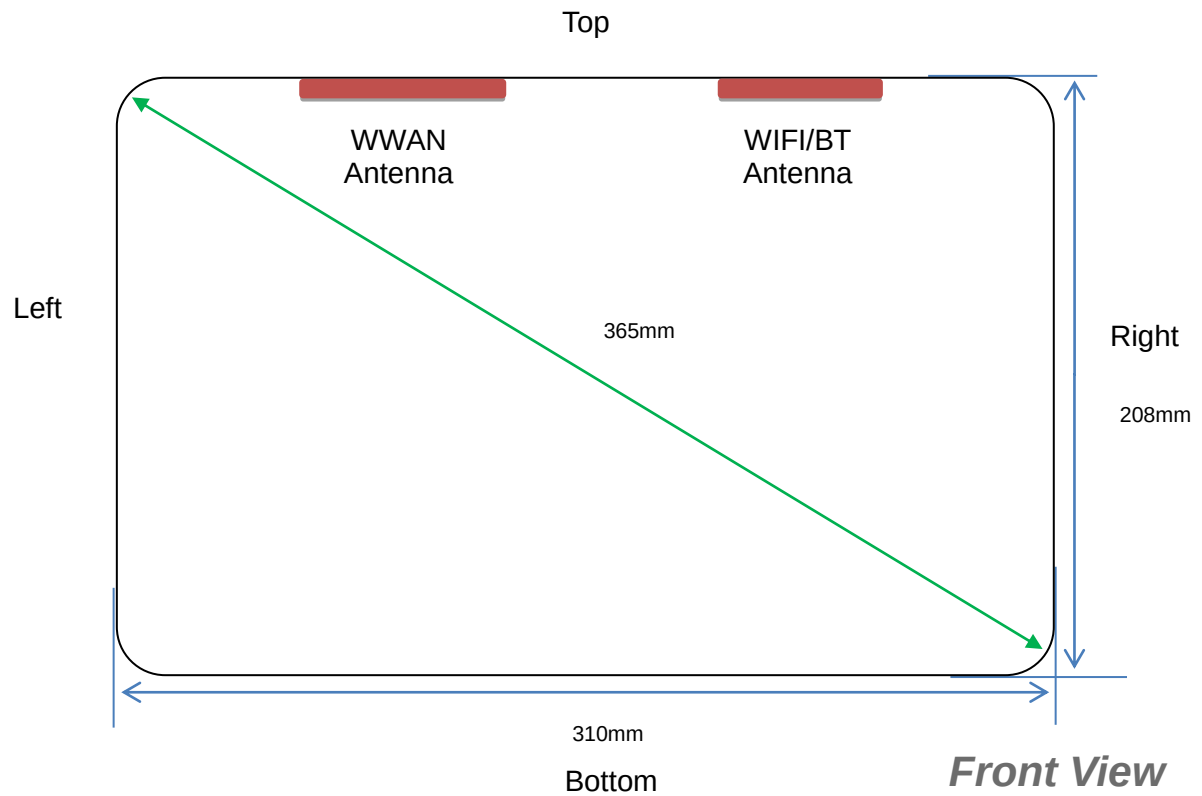
Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	18.50	18.36
	157	5785	18.50	18.31
	165	5825	18.50	17.13
802.11n HT20	149	5745	17.50	17.48
	157	5785	17.50	17.17
	165	5825	17.50	16.97
802.11n HT40	151	5755	18.00	17.84
	159	5795	18.00	17.66

802.11ac VHT20	149	5745	18.50	17.55
	157	5785	18.50	18.15
	165	5825	18.50	17.35
802.11ac VHT40	151	5755	17.50	17.24
	159	5795	17.50	17.35
802.11ac VHT80	155	5775	17.50	17.20

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	1.00	0.51	-0.43	-0.43
	39CH	2.00	1.65	0.75	0.70
	78CH	1.00	0.67	-0.35	-0.39

Mode	Channel	Tune-up (dBm)	Output Power (dBm)
BLE1M	CH00	-3.00	-3.06
	CH19	-1.00	-1.79
	CH39	-3.00	-3.24
BLE2M	CH00	-3.00	-3.22
	CH19	-1.00	-1.86
	CH39	-2.00	-2.88

9. Antenna Location



Antenna information:

Distance of The Antenna to the EUT surface and edge (mm)						
Antennas	Front Side	Back Side	Top Side	Bottom Side	Left Side	Right Side
BT/WLAN	5	5	5	200	192	72
WWAN	5	5	5	200	69	171

Note: When the minimum separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

10. Stand-alone SAR test exclusion

Refer to FCC KDB 447498D01, the 1-g SAR and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where:

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR Exclusion threshold	SAR test exclusion
Bluetooth	2.00	1.58	5	2.480	0.5	3	Yes

NOTE: Standalone SAR test exclusion for Bluetooth.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})/x}] \leq 18.75$ W/kg for test separation distances ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Mode	Position	Pmax (dBm)	Pmax (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/kg)
Bluetooth	Body	2.00	1.58	5	2.48	7.5	0.066

NOTE: Estimated SAR calculation for Bluetooth.

11. SAR Measurement Results

< GSM 850 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	189/836.4	GPRS(GMSK 3TS)	0.214	0.122	2.78	29.45	29.50	0.216	2026/6/10	
Back Side	189/836.4	GPRS(GMSK 3TS)	0.356	0.207	0.94	29.45	29.50	0.360	2026/6/10	#1
Left Side	189/836.4	GPRS(GMSK 3TS)	0.150	0.086	-2.42	29.45	29.50	0.152	2026/6/10	
Right Side	189/836.4	GPRS(GMSK 3TS)	0.039	0.022	-0.37	29.45	29.50	0.039	2026/6/10	
Top Side	189/836.4	GPRS(GMSK 3TS)	0.182	0.105	0.96	29.45	29.50	0.184	2026/6/10	
Bottom Side	189/836.4	GPRS(GMSK 3TS)	0.082	0.045	0.82	29.45	29.50	0.083	2026/6/10	

< GSM 1900 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side	661/1880	GPRS(GMSK 3TS)	0.293	0.194	0.04	26.52	27.00	0.327	2026/6/12	
Back Side	661/1880	GPRS(GMSK 3TS)	0.473	0.320	-2.69	26.52	27.00	0.528	2026/6/12	#2
Left Side	661/1880	GPRS(GMSK 3TS)	0.199	0.129	-2.17	26.52	27.00	0.222	2026/6/12	
Right Side	661/1880	GPRS(GMSK 3TS)	0.071	0.046	-3.97	26.52	27.00	0.079	2026/6/12	
Top Side	661/1880	GPRS(GMSK 3TS)	0.251	0.166	-2.73	26.52	27.00	0.280	2026/6/12	
Bottom Side	661/1880	GPRS(GMSK 3TS)	0.114	0.077	2.40	26.52	27.00	0.127	2026/6/12	

< WCDMA Band 2 >

Test Position of	Test channel /Freq.	Mode	SAR Value (W/kg)	Power Drift(%)	Conducted Power	Tune-up Power	Scaled SAR	Date	Plot
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< WCDMA Band 4 >

< WCDMA Band 5 >

< LTE Band2 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						

1RB										
Front Side	18900/1880	20M QPSK(1,49)	0.314	0.190	-2.71	22.44	23.00	0.357	2026/6/12	
Back Side	18900/1880	20M QPSK(1,49)	0.483	0.292	-0.18	22.44	23.00	0.549	2026/6/12	#9
Left Side	18900/1880	20M QPSK(1,49)	0.203	0.123	3.56	22.44	23.00	0.231	2026/6/12	
Right Side	18900/1880	20M QPSK(1,49)	0.063	0.037	1.01	22.44	23.00	0.072	2026/6/12	
Top Side	18900/1880	20M QPSK(1,49)	0.251	0.147	-0.35	22.44	23.00	0.286	2026/6/12	
Bottom Side	18900/1880	20M QPSK(1,49)	0.106	0.062	0.85	22.44	23.00	0.121	2026/6/12	
50%RB										
Front Side	18900/1880	20M QPSK(50,49)	0.176	0.089	-0.73	21.77	22.00	0.186	2026/6/12	
Back Side	18900/1880	20M QPSK(50,49)	0.280	0.148	-0.17	21.77	22.00	0.295	2026/6/12	
Left Side	18900/1880	20M QPSK(50,49)	0.115	0.058	3.25	21.77	22.00	0.121	2026/6/12	
Right Side	18900/1880	20M QPSK(50,49)	0.039	0.020	1.77	21.77	22.00	0.041	2026/6/12	
Top Side	18900/1880	20M QPSK(50,49)	0.140	0.074	-3.65	21.77	22.00	0.148	2026/6/12	
Bottom Side	18900/1880	20M QPSK(50,49)	0.056	0.030	-0.4	21.77	22.00	0.059	2026/6/12	

< LTE Band4 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20175/1732.5	20M QPSK(1,49)	0.278	0.180	-0.82	22.08	22.50	0.306	2026/6/11	
Back Side	20175/1732.5	20M QPSK(1,49)	0.448	0.302	4.70	22.08	22.50	0.493	2026/6/11	#10
Left Side	20175/1732.5	20M QPSK(1,49)	0.188	0.124	-1.64	22.08	22.50	0.207	2026/6/11	
Right Side	20175/1732.5	20M	0.058	0.039	2.61	22.08	22.50	0.064	2026/6/11	

		QPSK(1,49)								
Top Side	20175/1732.5	20M QPSK(1,49)	0.242	0.155	3.51	22.08	22.50	0.267	2026/6/11	
Bottom Side	20175/1732.5	20M QPSK(1,49)	0.094	0.063	-0.1	22.08	22.50	0.104	2026/6/11	
50%RB										
Front Side	20175/1732.5	20M QPSK(50,49)	0.162	0.101	-0.94	20.99	21.50	0.182	2026/6/11	
Back Side	20175/1732.5	20M QPSK(50,49)	0.266	0.169	-3.48	20.99	21.50	0.299	2026/6/11	
Left Side	20175/1732.5	20M QPSK(50,49)	0.109	0.068	2.29	20.99	21.50	0.123	2026/6/11	
Right Side	20175/1732.5	20M QPSK(50,49)	0.029	0.018	-1.87	20.99	21.50	0.033	2026/6/11	
Top Side	20175/1732.5	20M QPSK(50,49)	0.146	0.089	1.33	20.99	21.50	0.164	2026/6/11	
Bottom Side	20175/1732.5	20M QPSK(50,49)	0.056	0.034	0.23	20.99	21.50	0.063	2026/6/11	

< LTE Band5 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,0)	0.101	0.065	2.97	22.72	23.50	0.121	2026/6/10	
Back Side	20525/836.5	10M QPSK(1,0)	0.161	0.105	2.31	22.72	23.50	0.193	2026/6/10	#11
Left Side	20525/836.5	10M QPSK(1,0)	0.066	0.041	1.69	22.72	23.50	0.079	2026/6/10	
Right Side	20525/836.5	10M QPSK(1,0)	0.019	0.017	0.87	22.72	23.50	0.023	2026/6/10	
Top Side	20525/836.5	10M QPSK(1,0)	0.082	0.053	-2.53	22.72	23.50	0.098	2026/6/10	
Bottom Side	20525/836.5	10M QPSK(1,0)	0.034	0.021	1.98	22.72	23.50	0.041	2026/6/10	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.052	0.036	-1.23	21.95	22.00	0.053	2026/6/10	
Back Side	20525/836.5	10M QPSK(25,0)	0.084	0.061	-0.23	21.95	22.00	0.085	2026/6/10	
Left Side	20525/836.5	10M QPSK(25,0)	0.034	0.024	-0.25	21.95	22.00	0.034	2026/6/10	
Right Side	20525/836.5	10M	0.009	0.007	2.34	21.95	22.00	0.009	2026/6/10	

		QPSK(25,0)								
Top Side	20525/836.5	10M QPSK(25,0)	0.046	0.032	2.41	21.95	22.00	0.047	2026/6/10	
Bottom Side	20525/836.5	10M QPSK(25,0)	0.017	0.015	0.43	21.95	22.00	0.017	2026/6/10	

< LTE Band7 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	21100/2535	20M QPSK(1,0)	0.192	0.093	-2.2	20.77	22.00	0.255	2026/6/16	
Back Side	21100/2535	20M QPSK(1,0)	0.300	0.151	-1.73	20.77	22.00	0.398	2026/6/16	#12
Left Side	21100/2535	20M QPSK(1,0)	0.126	0.060	-0.64	20.77	22.00	0.167	2026/6/16	
Right Side	21100/2535	20M QPSK(1,0)	0.033	0.016	3.55	20.77	22.00	0.044	2026/6/16	
Top Side	21100/2535	20M QPSK(1,0)	0.165	0.080	-0.55	20.77	22.00	0.219	2026/6/16	
Bottom Side	21100/2535	20M QPSK(1,0)	0.060	0.029	0.56	20.77	22.00	0.080	2026/6/16	
50%RB										
Front Side	21100/2535	20M QPSK(50,0)	0.114	0.052	2.26	20.05	21.00	0.142	2026/6/16	
Back Side	21100/2535	20M QPSK(50,0)	0.175	0.083	2.93	20.05	21.00	0.218	2026/6/16	
Left Side	21100/2535	20M QPSK(50,0)	0.074	0.034	0.65	20.05	21.00	0.092	2026/6/16	
Right Side	21100/2535	20M QPSK(50,0)	0.025	0.011	2.76	20.05	21.00	0.031	2026/6/16	
Top Side	21100/2535	20M QPSK(50,0)	0.088	0.040	-2.94	20.05	21.00	0.110	2026/6/16	
Bottom Side	21100/2535	20M QPSK(50,0)	0.040	0.019	2.47	20.05	21.00	0.050	2026/6/16	

< LTE Band12 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Front Side	23095/707.5	10M QPSK(1,0)	0.105	0.065	-2.79	23.50	24.00	0.118	2026/6/9	

Back Side	23095/707.5	10M QPSK(1,0)	0.169	0.108	2.77	23.50	24.00	0.190	2026/6/9	#13
Left Side	23095/707.5	10M QPSK(1,0)	0.074	0.046	-2.2	23.50	24.00	0.083	2026/6/9	
Right Side	23095/707.5	10M QPSK(1,0)	0.017	0.015	-1.92	23.50	24.00	0.019	2026/6/9	
Top Side	23095/707.5	10M QPSK(1,0)	0.086	0.053	-0.85	23.50	24.00	0.096	2026/6/9	
Bottom Side	23095/707.5	10M QPSK(1,0)	0.042	0.026	-1.32	23.50	24.00	0.047	2026/6/9	
50%RB										
Front Side	23095/707.5	10M QPSK(25,0)	0.058	0.035	-3.06	22.66	23.00	0.063	2026/6/9	
Back Side	23095/707.5	10M QPSK(25,0)	0.095	0.058	2.16	22.66	23.00	0.103	2026/6/9	
Left Side	23095/707.5	10M QPSK(25,0)	0.040	0.023	-0.69	22.66	23.00	0.043	2026/6/9	
Right Side	23095/707.5	10M QPSK(25,0)	0.010	0.008	-0.45	22.66	23.00	0.011	2026/6/9	
Top Side	23095/707.5	10M QPSK(25,0)	0.048	0.028	-2.78	22.66	23.00	0.052	2026/6/9	
Bottom Side	23095/707.5	10M QPSK(25,0)	0.023	0.013	0.6	22.66	23.00	0.025	2026/6/9	

< LTE Band17 >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value		Power Drift(%)	Conducted Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			(W/kg)							
			1-g	10-g						
1RB										
Front Side	23790/710	10M QPSK(1,24)	0.076	0.042	-2.18	23.64	24.00	0.083	2026/6/9	
Back Side	23790/710	10M QPSK(1,24)	0.122	0.068	4.50	23.64	24.00	0.133	2026/6/9	#14
Left Side	23790/710	10M QPSK(1,24)	0.052	0.028	3.16	23.64	24.00	0.056	2026/6/9	
Right Side	23790/710	10M QPSK(1,24)	0.017	0.015	3.89	23.64	24.00	0.018	2026/6/9	
Top Side	23790/710	10M QPSK(1,24)	0.062	0.033	-3.66	23.64	24.00	0.067	2026/6/9	
Bottom Side	23790/710	10M QPSK(1,24)	0.027	0.015	2.62	23.64	24.00	0.029	2026/6/9	
50%RB										
Front Side	23790/710	10M	0.040	0.021	-0.77	22.56	23.00	0.044	2026/6/9	

		QPSK(25,0)								
Back Side	23790/710	10M QPSK(25,0)	0.065	0.036	4.69	22.56	23.00	0.072	2026/6/9	
Left Side	23790/710	10M QPSK(25,0)	0.026	0.014	3.31	22.56	23.00	0.029	2026/6/9	
Right Side	23790/710	10M QPSK(25,0)	0.008	0.006	0.24	22.56	23.00	0.009	2026/6/9	
Top Side	23790/710	10M QPSK(25,0)	0.035	0.019	3.88	22.56	23.00	0.039	2026/6/9	
Bottom Side	23790/710	10M QPSK(25,0)	0.014	0.012	-0.32	22.56	23.00	0.015	2026/6/9	

< WLAN 2.4G >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	11/2462	802.11b	0.181	0.097	-2.61	14.49	14.50	0.181	2026/6/15	
Back Side	11/2462	802.11b	0.288	0.157	-0.19	14.49	14.50	0.289	2026/6/15	#8
Back Side	6/2437	802.11n HT40	0.260	0.128	0.14	14.92	15.00	0.265	2026/6/15	
Left Side	11/2462	802.11b	0.035	0.019	-1.92	14.49	14.50	0.035	2026/6/15	
Right Side	11/2462	802.11b	0.124	0.065	2.02	14.49	14.50	0.124	2026/6/15	
Top Side	11/2462	802.11b	0.158	0.086	3.72	14.49	14.50	0.158	2026/6/15	
Bottom Side	11/2462	802.11b	0.066	0.035	-0.48	14.49	14.50	0.066	2026/6/15	

< WLAN 5.2G >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	38/5190	802.11n HT40	0.324	0.151	-3.61	16.70	17.00	0.347	2026/6/17	
Back Side	38/5190	802.11n HT40	0.523	0.244	-0.79	16.70	17.00	0.560	2026/6/17	#6
Left Side	38/5190	802.11n HT40	0.058	0.026	-0.16	16.70	17.00	0.062	2026/6/17	
Right Side	38/5190	802.11n HT40	0.225	0.101	-3.38	16.70	17.00	0.241	2026/6/17	
Top Side	38/5190	802.11n HT40	0.277	0.125	-1.66	16.70	17.00	0.297	2026/6/17	

Bottom Side	38/5190	802.11n HT40	0.105	0.047	2.95	16.70	17.00	0.113	2026/6/17	
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< WLAN 5.8G >

Test Position of Body with 0mm	Test channel /Freq.	Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1g	10g						
Front Side	149/5745	802.11a	0.277	0.150	3.45	18.36	18.50	0.286	2026/6/20	
Back Side	149/5745	802.11a	0.454	0.253	2.27	18.36	18.50	0.469	2026/6/20	#7
Left Side	149/5745	802.11a	0.059	0.032	0.66	18.36	18.50	0.061	2026/6/20	
Right Side	149/5745	802.11a	0.186	0.104	-0.59	18.36	18.50	0.192	2026/6/20	
Top Side	149/5745	802.11a	0.227	0.123	-0.48	18.36	18.50	0.234	2026/6/20	
Bottom Side	149/5745	802.11a	0.104	0.057	3.37	18.36	18.50	0.107	2026/6/20	

Note:

- 1) When the reported SAR of the highest measured maximum output power channel for the Initial test configuration is ≤ 0.8 W/kg, no further SAR testing is required for other channels.
- 2) SAR is not required for the following 2.4 GHz OFDM conditions.
 - a) When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
 - b) When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.

12. Simultaneous Transmission Analysis

Per KDB 447498 D01, simultaneous transmission SAR is compliant if,

1) Scalar SAR summation < 1.6W/kg.

2) SPLSR = $\frac{(SAR_1 + SAR_2)^{1.5}}{d}$ / (min. separation distance, mm), and the peak separation distance is

determined from the square root of $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$, where

(x_1, y_1, z_1) and (x_2, y_2, z_2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.

If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.

No.	Simultaneous Tx	Body-worn	Hotspot
1	WWAN+WLAN	Yes	Yes
2	WWAN+Bluetooth	Yes	Yes

Note : WiFi and Bluetooth use the same antenna and cannot be transmitted at the same time.

Exposure Position		WWAN Band	NII Band	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Front Side	0.357	0.347	0.704
	Back Side	0.549	0.560	1.109
	Left Side	0.231	0.062	0.293
	Right Side	0.079	0.241	0.320
	Top Side	0.286	0.297	0.583
	Bottom Side	0.127	0.113	0.240

Exposure Position		WWAN Band	DTS Band	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Front Side	0.357	0.181	0.538
	Back Side	0.549	0.289	0.838
	Left Side	0.231	0.035	0.266
	Right Side	0.079	0.124	0.203
	Top Side	0.286	0.158	0.444
	Bottom Side	0.127	0.066	0.193

Exposure Position		WWAN Band	DSS Band	Simultaneous Tx SAR(W/Kg)
		SAR(W/Kg)	SAR(W/Kg)	
Body&Hotspot	Front Side	0.357	0.066	0.423
	Back Side	0.549	0.066	0.615
	Left Side	0.231	0.066	0.297
	Right Side	0.079	0.066	0.145
	Top Side	0.286	0.066	0.352
	Bottom Side	0.127	0.066	0.193

Note : The Simultaneous Tx is calculated based on the same configuration and test position.

Appendix A. Photo documentation

Refer to appendix Test Setup photo-SAR

Appendix B. System Check Plots

Table of contents
#1 System Performance Check - 750MHz
#2 System Performance Check - 900MHz
#3 System Performance Check - 1800MHz
#4 System Performance Check - 1900MHz
#5 System Performance Check - 2450MHz
#6 System Performance Check - 2600MHz
#7 System Performance Check - 5200MHz
#8 System Performance Check - 5800MHz

#1

Date of measurement: 9/6/2026

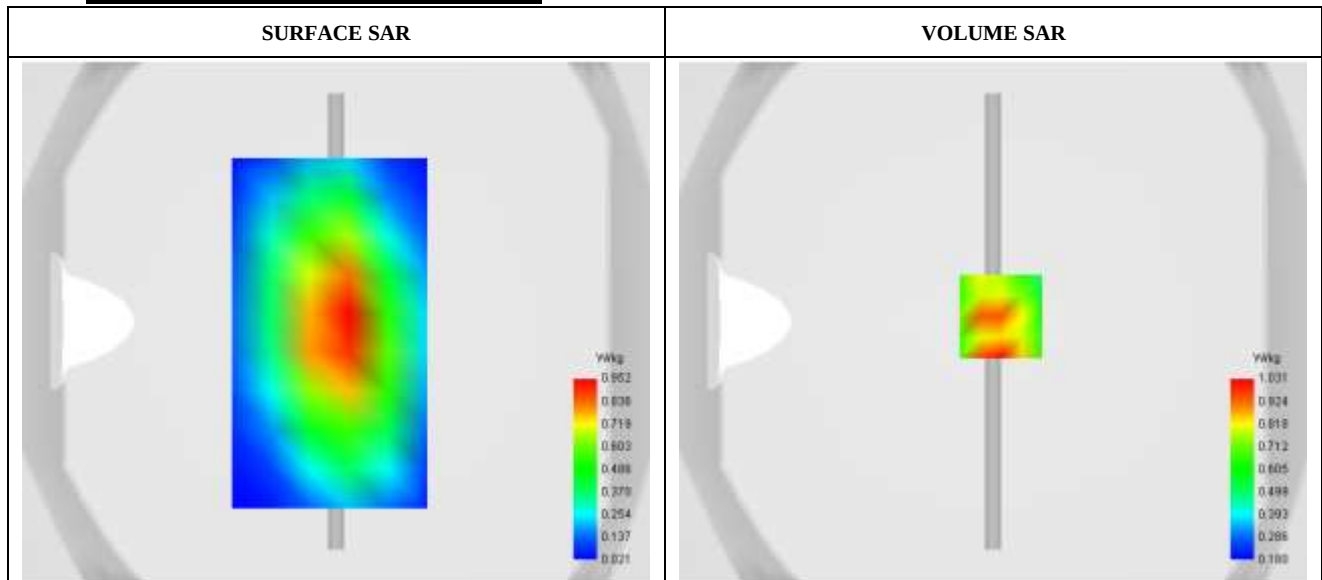
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.08
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	750.000
Relative permittivity (real part)	41.900
Relative permittivity (imaginary part)	21.360
Conductivity (S/m)	0.890

C. SAR Surface and Volume



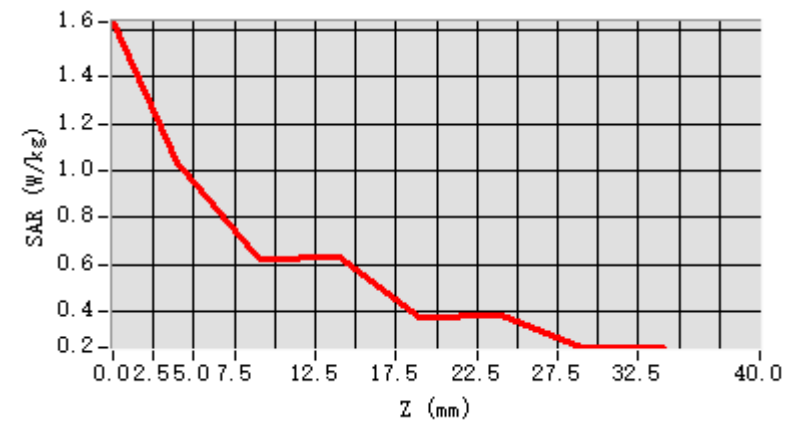
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 1.54 W/kg

D. SAR 1g & 10g

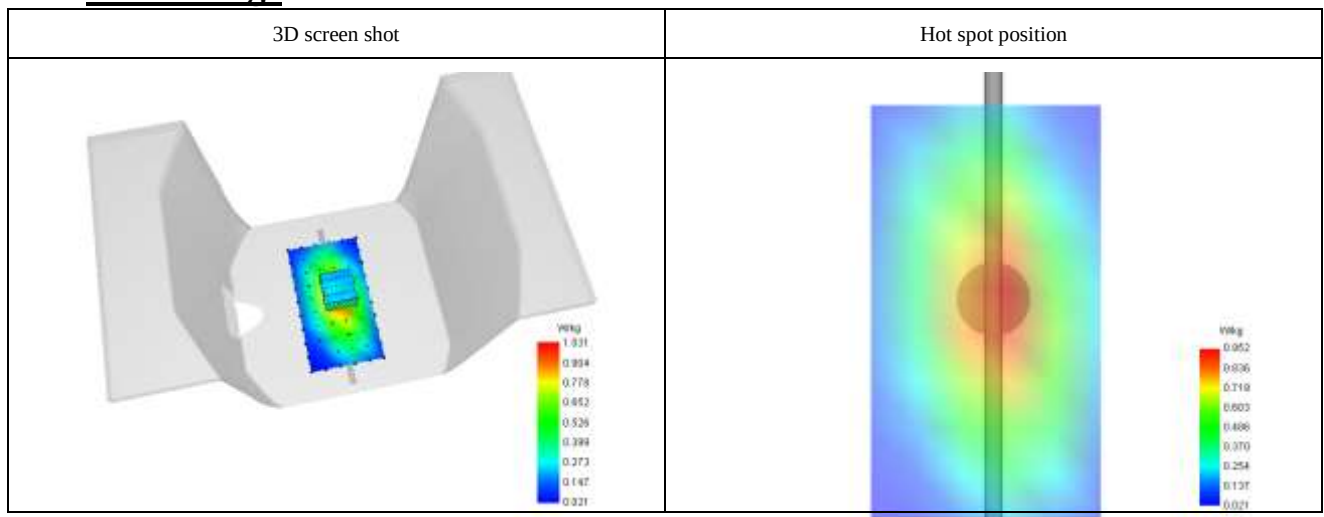
SAR 10g (W/Kg)	0.621
SAR 1g (W/Kg)	0.930
Variation (%)	0.380
Horizontal validation criteria: minimum distance (mm)	35.777088
Vertical validation criteria: SAR ratio M2/M1 (%)	60.135790

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.636	1.031	0.620	0.629	0.375	0.386	0.245



F. 3D Image



#2

Date of measurement: 10/6/2026

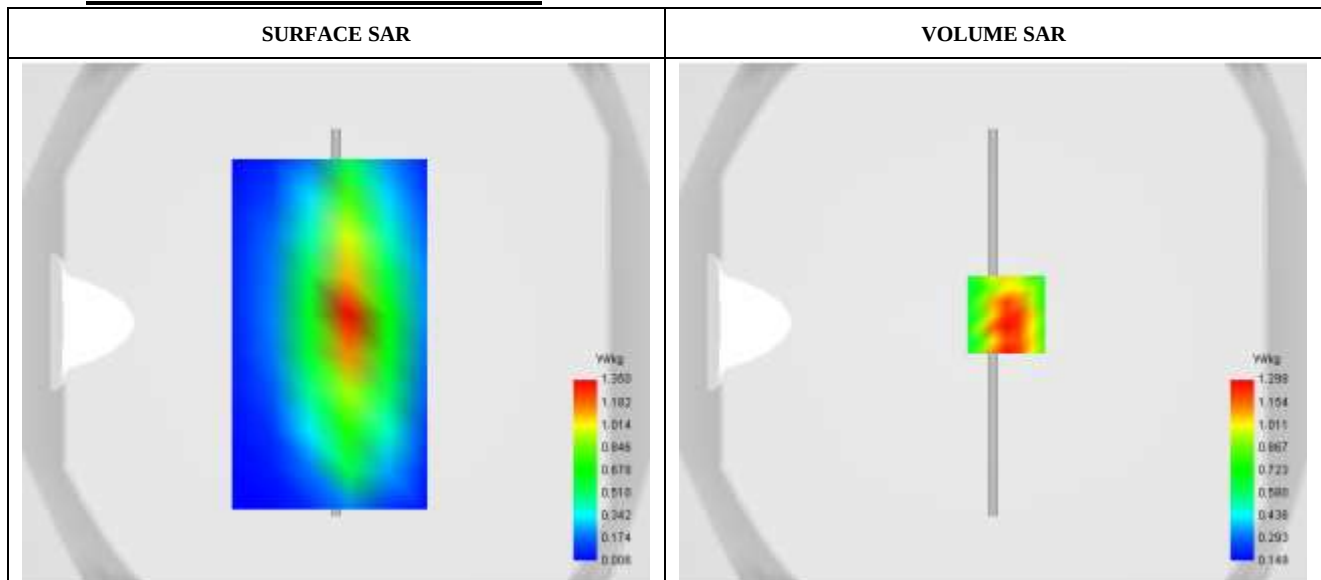
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW900
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	900.000
Relative permittivity (real part)	40.940
Relative permittivity (imaginary part)	19.200
Conductivity (S/m)	0.960

C. SAR Surface and Volume



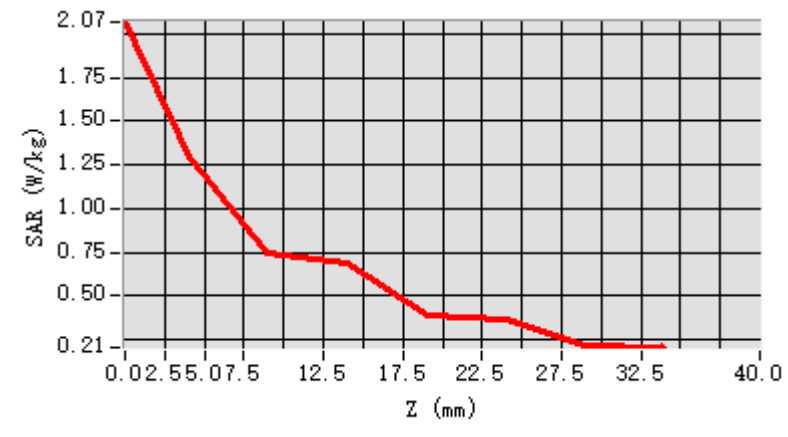
Maximum location: X=5.00, Y=3.00 ; SAR Peak: 1.90 W/kg

D. SAR 1g & 10g

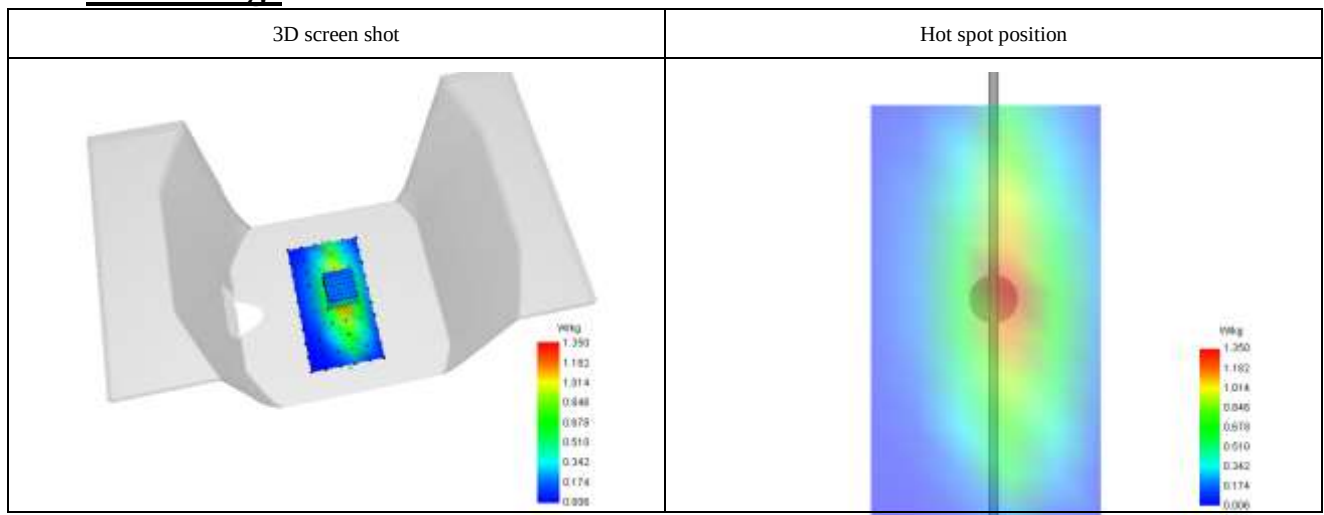
SAR 10g (W/Kg)	0.642
SAR 1g (W/Kg)	1.011
Variation (%)	2.200
Horizontal validation criteria: minimum distance (mm)	15.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.716049

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	2.064	1.296	0.748	0.687	0.392	0.367	0.223



F. 3D Image



#3

Date of measurement: 11/6/2026

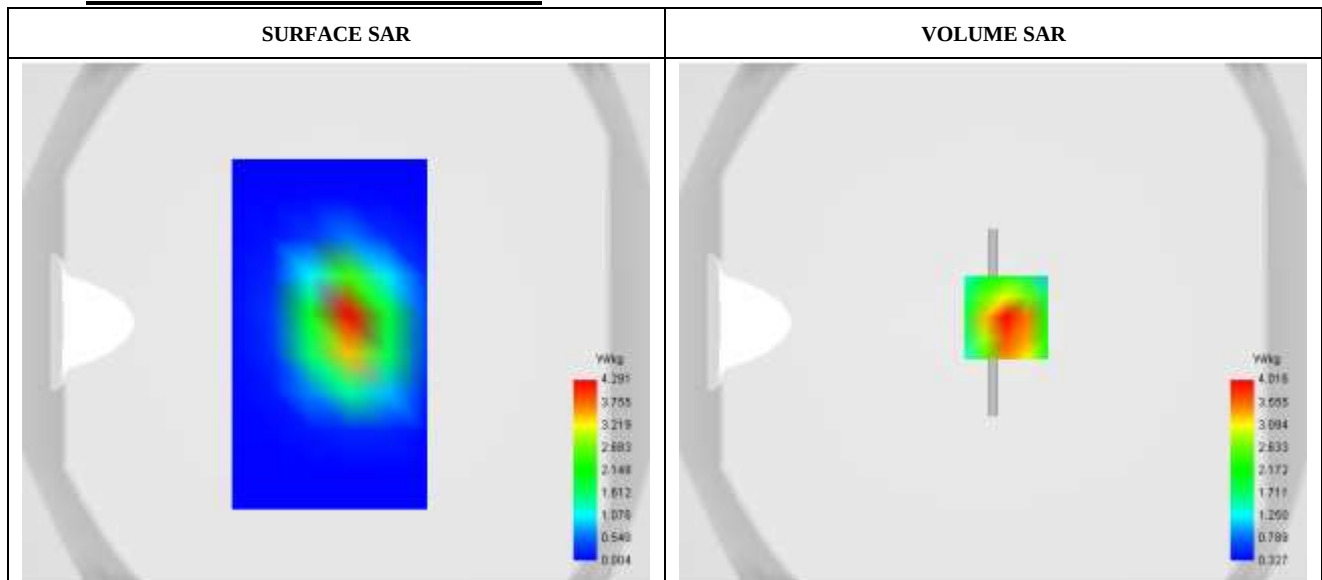
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1800.000
Relative permittivity (real part)	41.520
Relative permittivity (imaginary part)	14.000
Conductivity (S/m)	1.400

C. SAR Surface and Volume



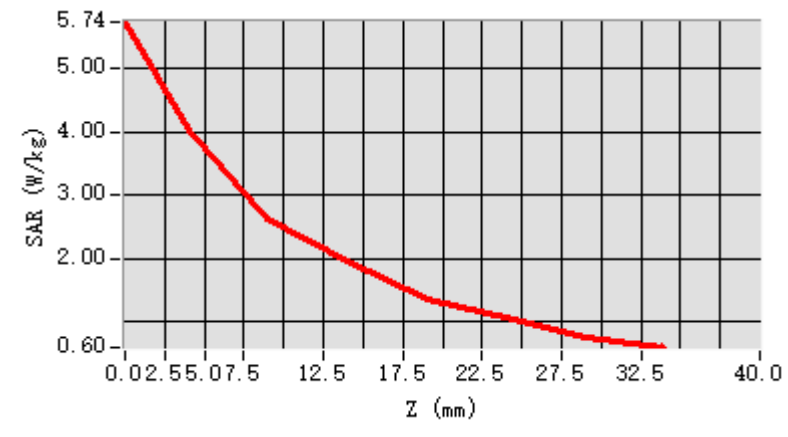
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 5.78 W/kg

D. SAR 1g & 10g

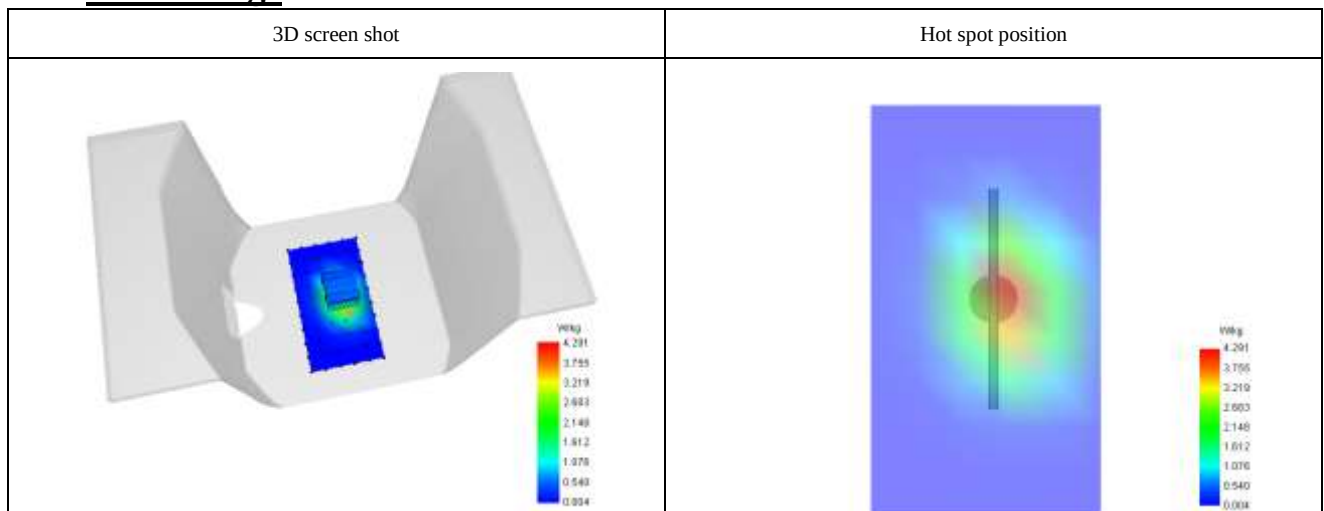
SAR 10g (W/Kg)	2.025
SAR 1g (W/Kg)	3.832
Variation (%)	0.180
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	65.811753

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.739	4.016	2.643	1.958	1.374	1.074	0.775



F. 3D Image



#4

Date of measurement: 12/6/2026

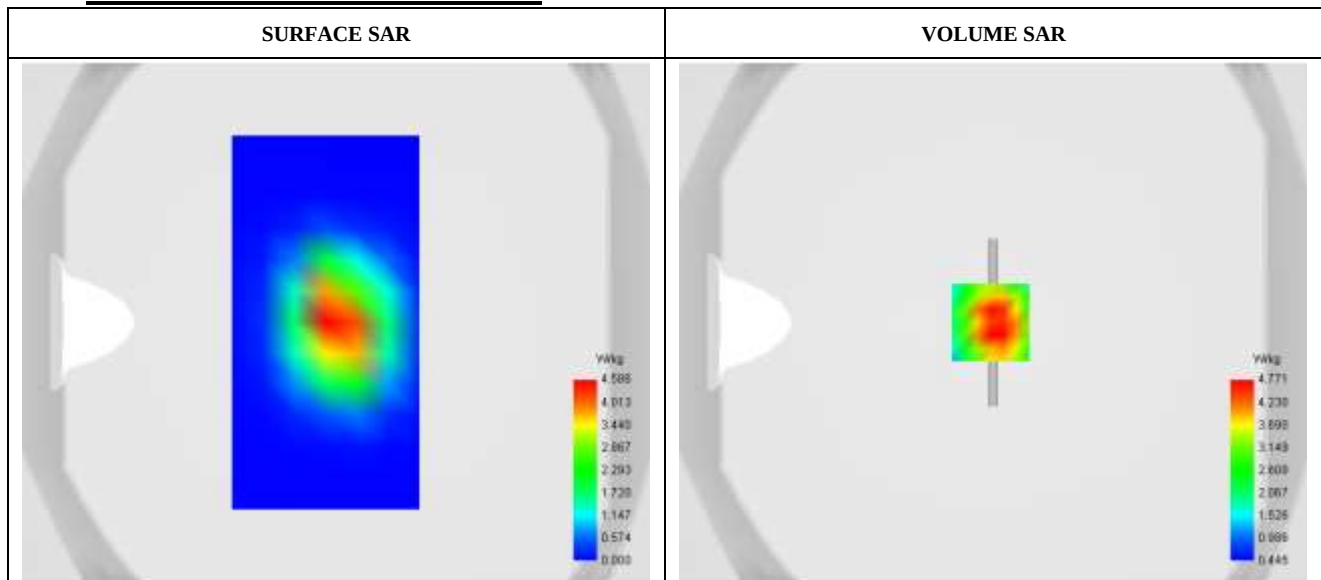
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.20
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	41.270
Relative permittivity (imaginary part)	12.700
Conductivity (S/m)	1.341

C. SAR Surface and Volume



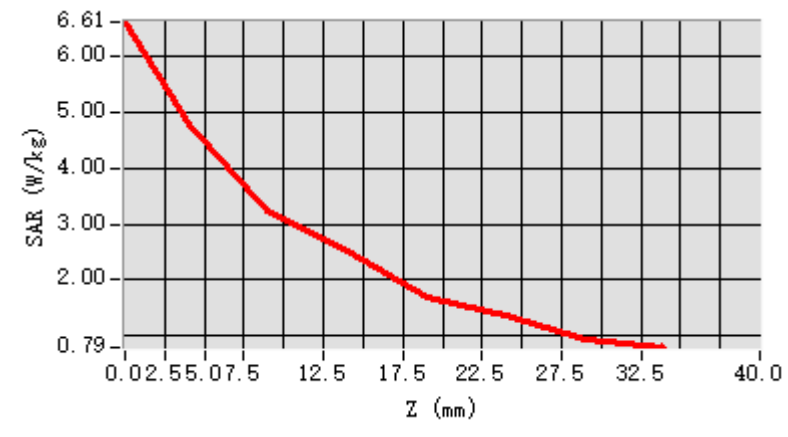
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 6.50 W/kg

D. SAR 1g & 10g

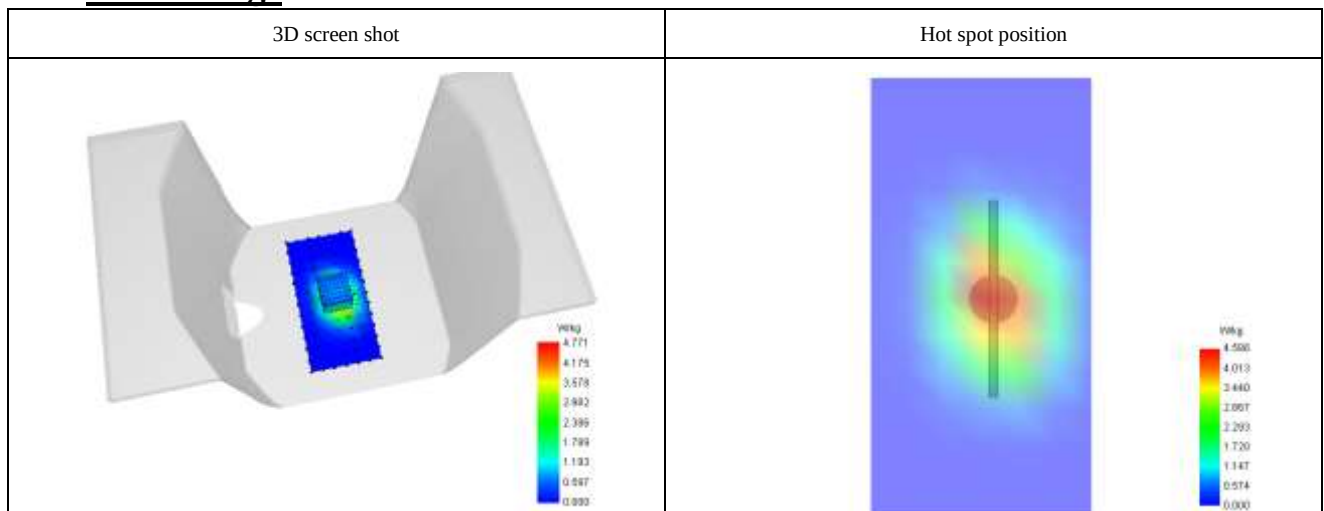
SAR 10g (W/Kg)	2.153
SAR 1g (W/Kg)	4.154
Variation (%)	1.300
Horizontal validation criteria: minimum distance (mm)	14.141203
Vertical validation criteria: SAR ratio M2/M1 (%)	67.966457

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.612	4.770	3.242	2.521	1.694	1.380	0.943



F. 3D Image



#5

Date of measurement: 15/6/2026

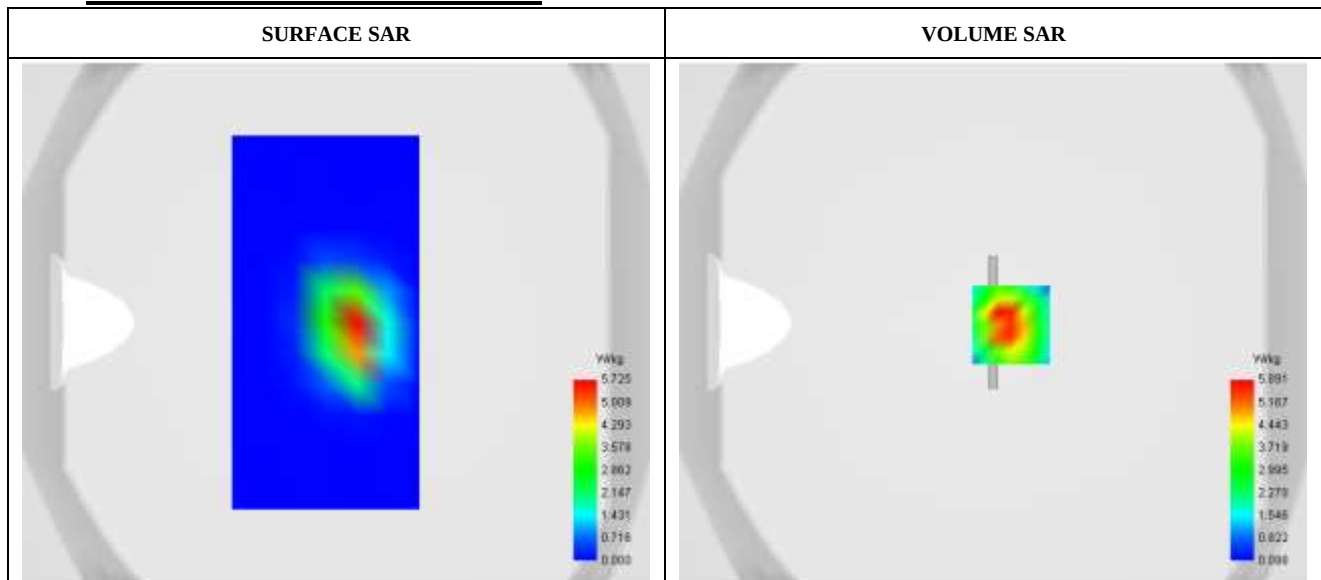
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.44
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.000
Relative permittivity (real part)	41.040
Relative permittivity (imaginary part)	13.220
Conductivity (S/m)	1.799

C. SAR Surface and Volume



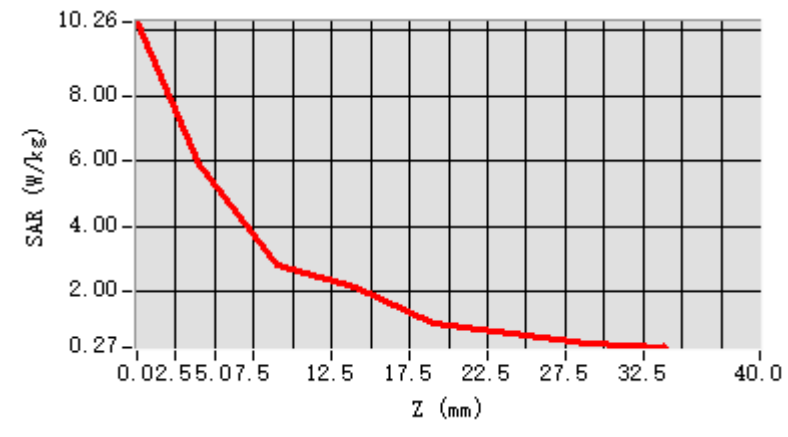
Maximum location: X=7.00, Y=-1.00 ; SAR Peak: 8.99 W/kg

D. SAR 1g & 10g

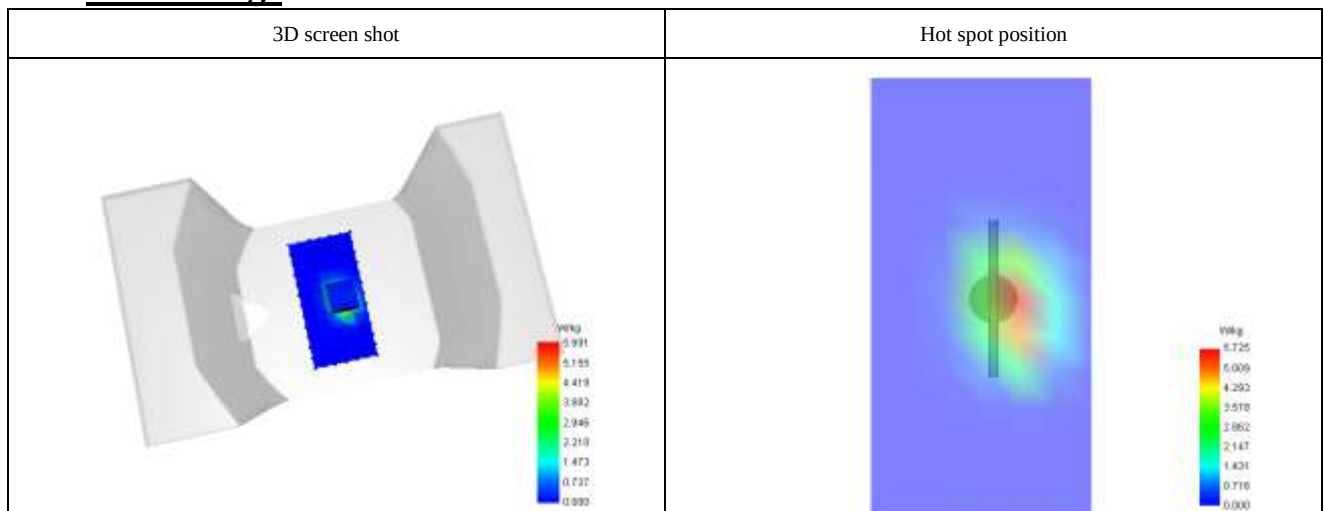
SAR 10g (W/Kg)	2.359
SAR 1g (W/Kg)	5.184
Variation (%)	-3.040
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.564081

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.263	5.891	2.802	2.126	1.045	0.723	0.415



F. 3D Image



#6

Date of measurement: 16/6/2026

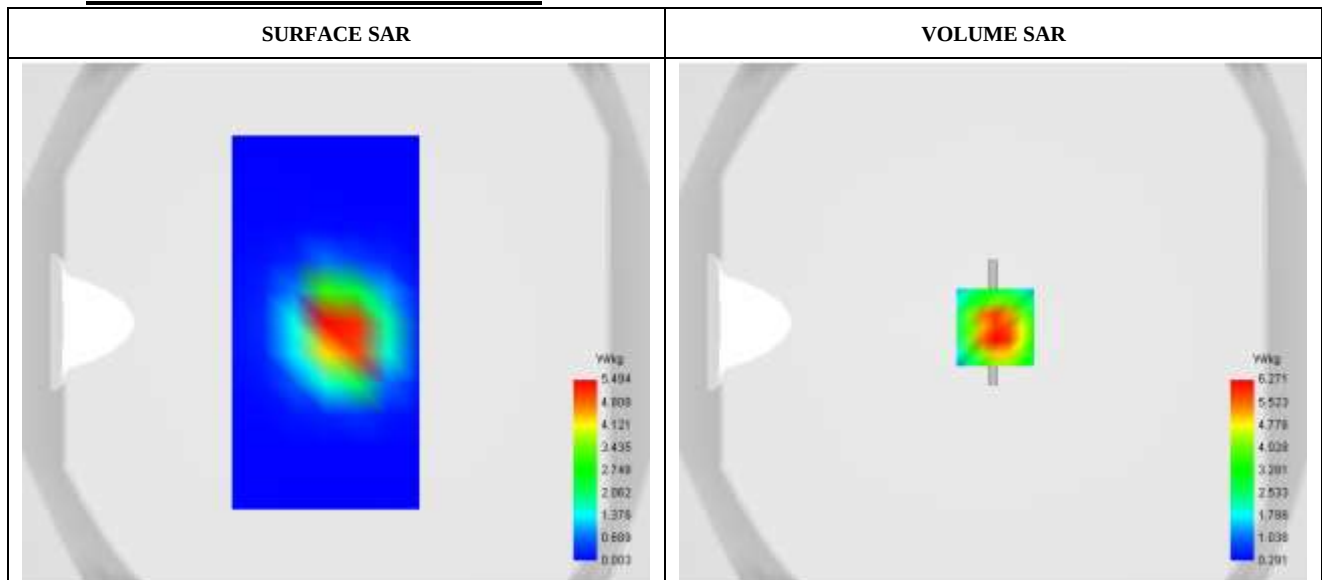
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.23
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2600.000
Relative permittivity (real part)	39.000
Relative permittivity (imaginary part)	13.570
Conductivity (S/m)	1.960

C. SAR Surface and Volume



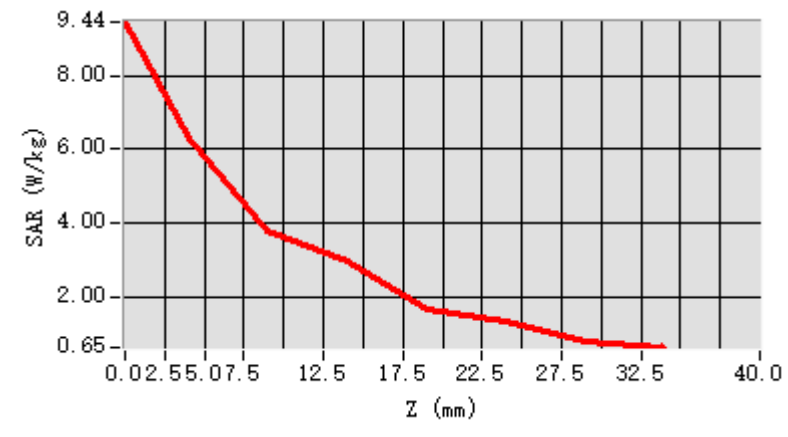
Maximum location: X=1.00, Y=-2.00 ; SAR Peak: 8.65 W/kg

D. SAR 1g & 10g

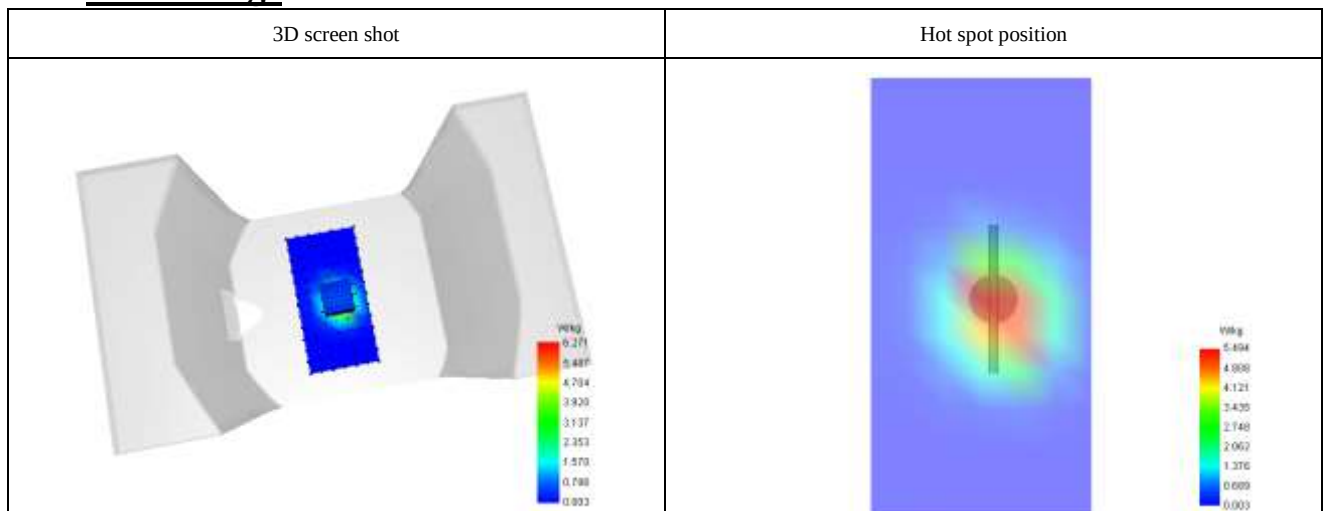
SAR 10g (W/Kg)	2.523
SAR 1g (W/Kg)	5.433
Variation (%)	-0.710
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	60.197736

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.444	6.271	3.775	2.988	1.706	1.361	0.819



F. 3D Image



#7

Date of measurement: 17/6/2026

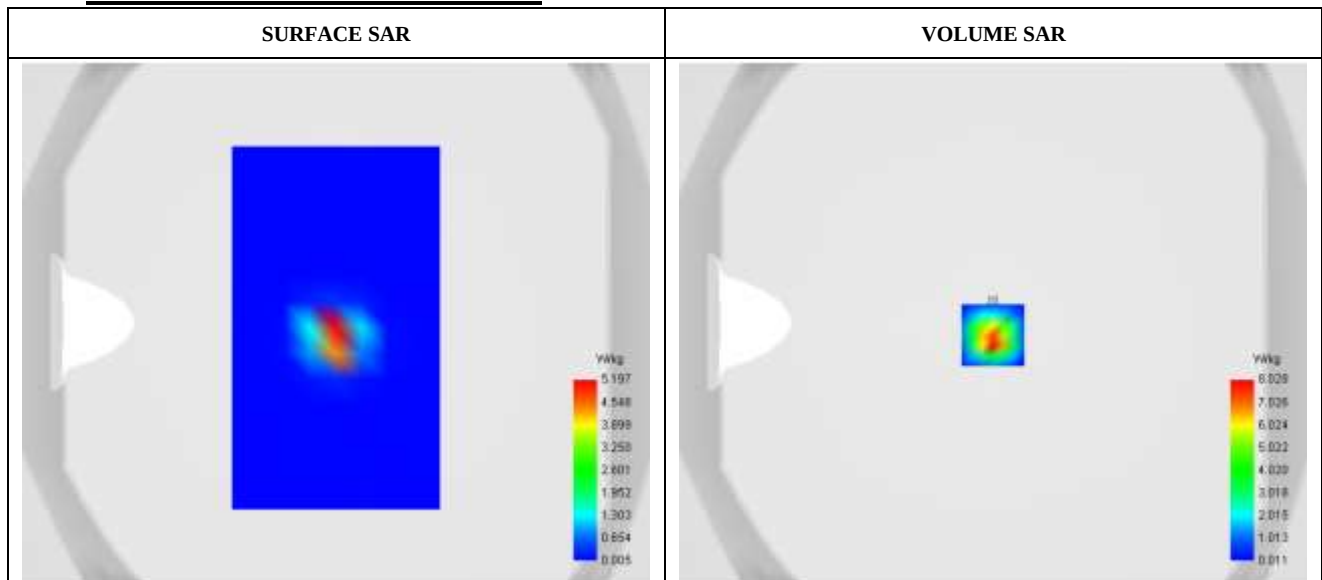
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.86
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5200
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5200.000
Relative permittivity (real part)	36.000
Relative permittivity (imaginary part)	16.130
Conductivity (S/m)	4.660

C. SAR Surface and Volume



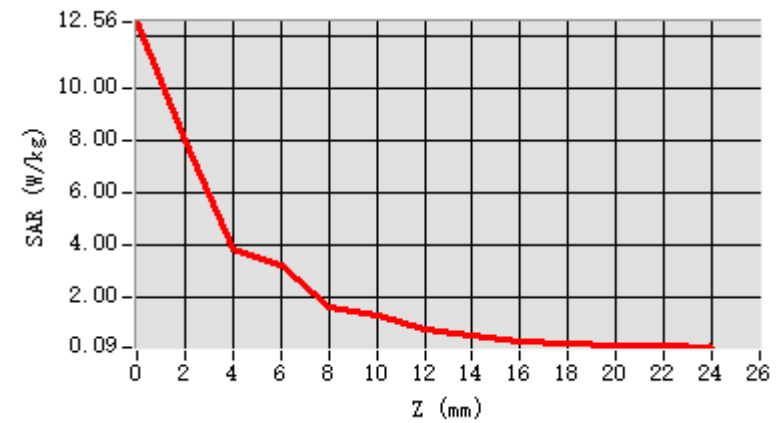
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 13.42 W/kg

D. SAR 1g & 10g

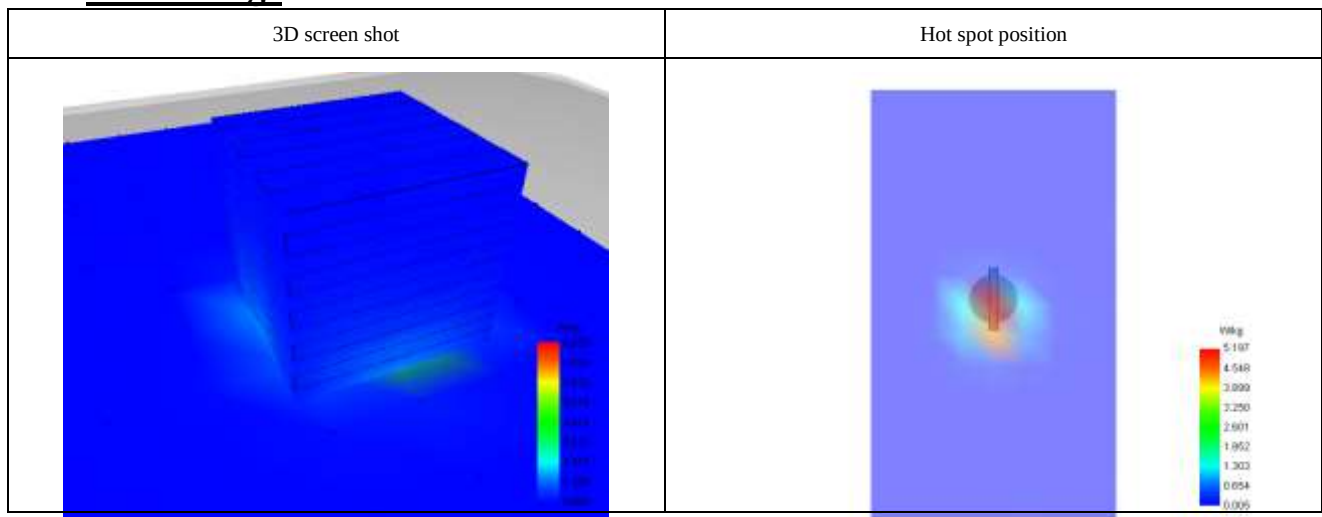
SAR 10g (W/Kg)	1.203
SAR 1g (W/Kg)	3.678
Variation (%)	4.620
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	48.169909

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	12.564	8.028	3.867	3.214	1.625	1.324	0.785	0.581	0.314	0.263	0.145	0.126



F. 3D Image



#8

Date of measurement: 20/6/2026

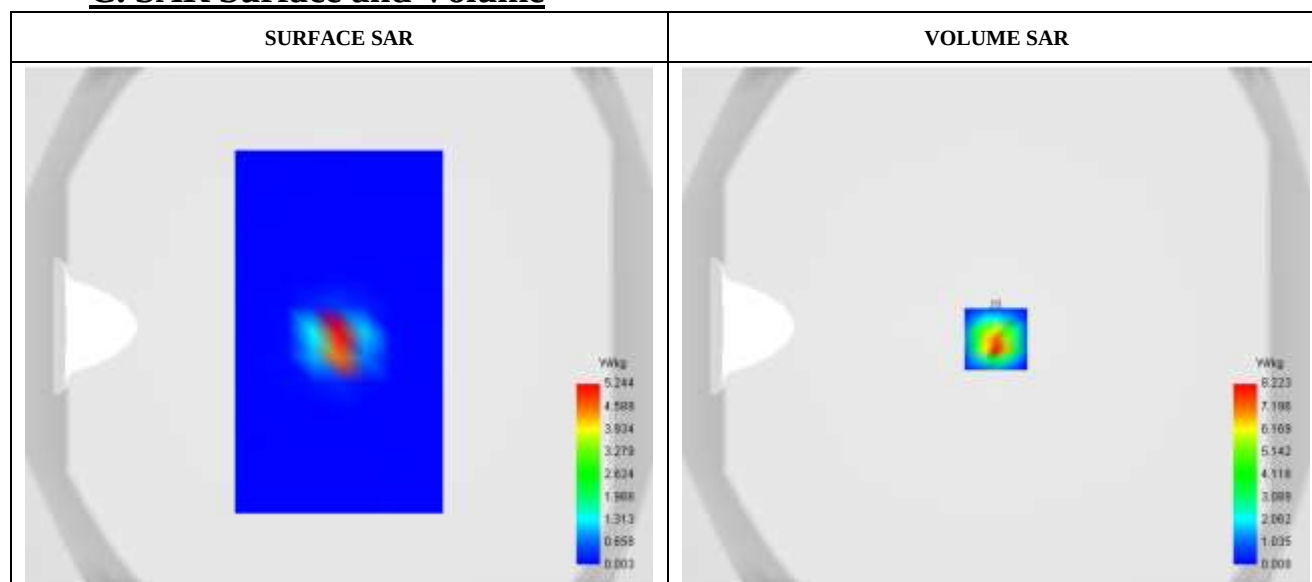
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.70
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	CW5800
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5800.000
Relative permittivity (real part)	35.300
Relative permittivity (imaginary part)	16.360
Conductivity (S/m)	5.272

C. SAR Surface and Volume



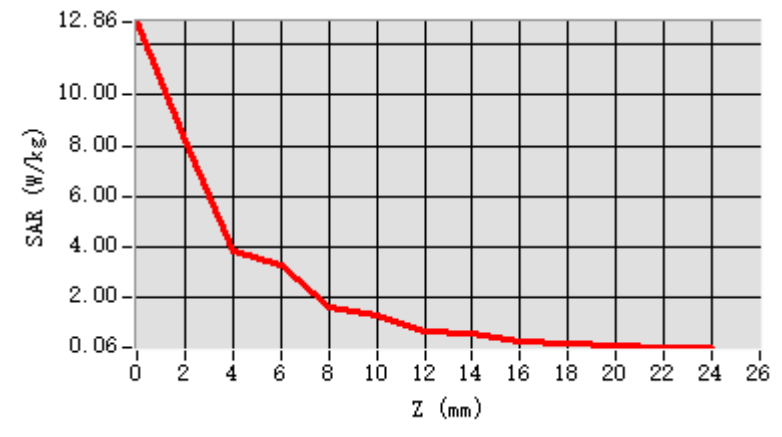
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 13.82 W/kg

D. SAR 1g & 10g

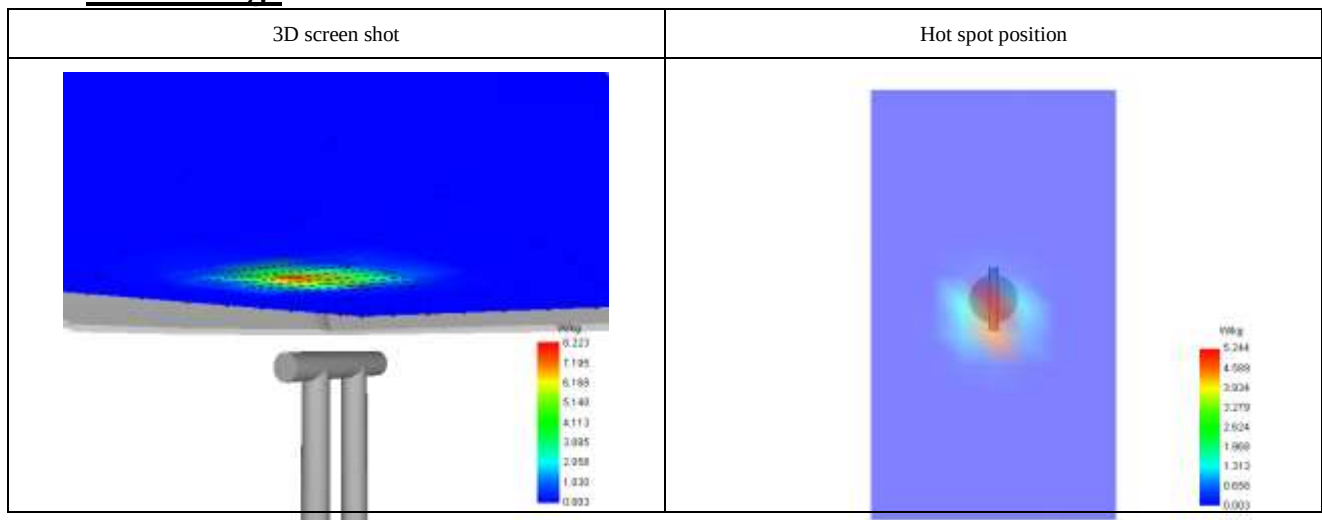
SAR 10g (W/Kg)	1.206
SAR 1g (W/Kg)	4.106
Variation (%)	1.050
Horizontal validation criteria: minimum distance (mm)	4.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.257692

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00
SAR (W/Kg)	12.863	8.223	3.886	3.302	1.611	1.337	0.671	0.582	0.287	0.232	0.129	0.083



F. 3D Image



Appendix C. SAR Test Plots

Table of contents
#1 GSM 850 Body
#2 GSM 1900 Body
#3 WCDMA Band 2 Body
#4 WCDMA Band 4 Body
#5 WCDMA Band 5 Body
#6 WALN 5.2G Body
#7 WALN 5.8G Body
#8 WALN 2.4G Body
#9 LTE Band 2 Body
#10 LTE Band 4 Body
#11 LTE Band 5 Body
#12 LTE Band 7 Body
#13 LTE Band 12 Body
#14 LTE Band 17 Body

#1

Date of measurement: 10/6/2026

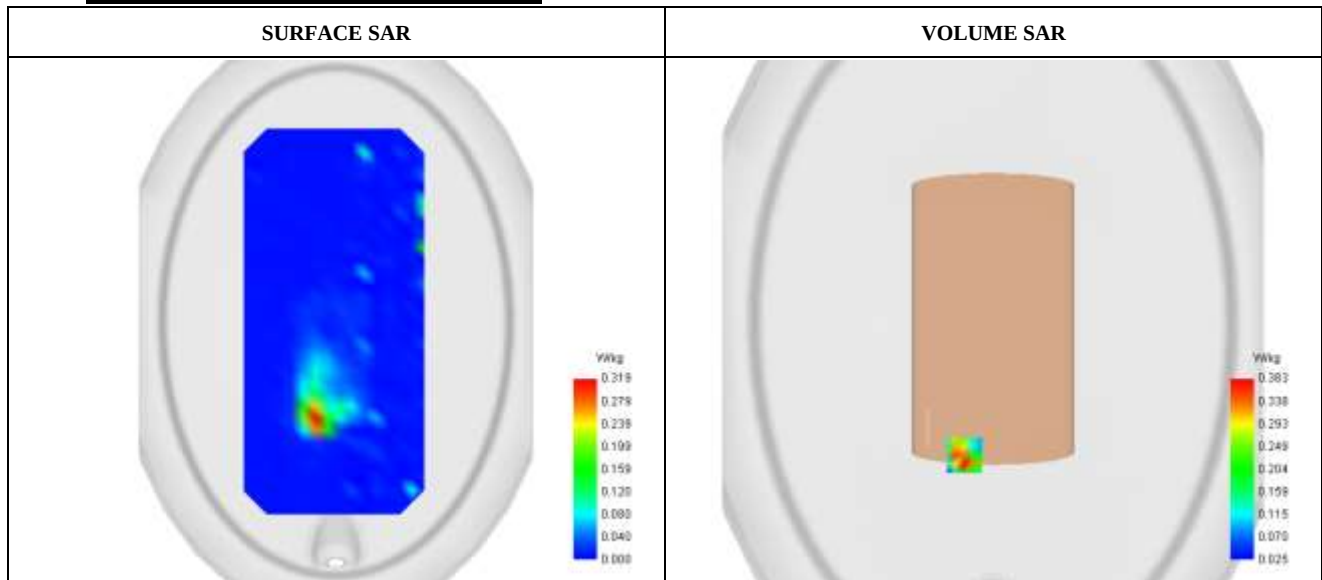
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	GSM850
Channels/Frequency	Middle (189)/ frequency 836.40 Mhz

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.901

C. SAR Surface and Volume



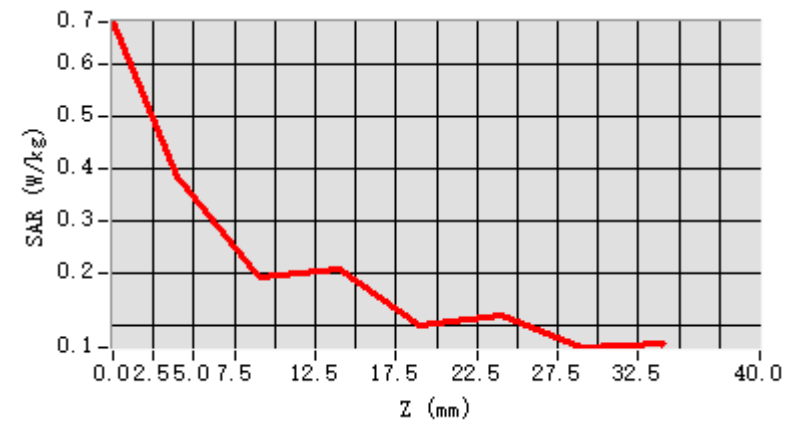
Maximum location: X=-26.00, Y=-121.00 ; SAR Peak: 0.54 W/kg

D. SAR 1g & 10g

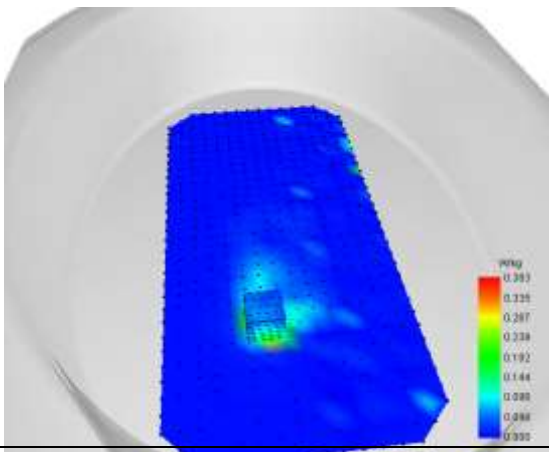
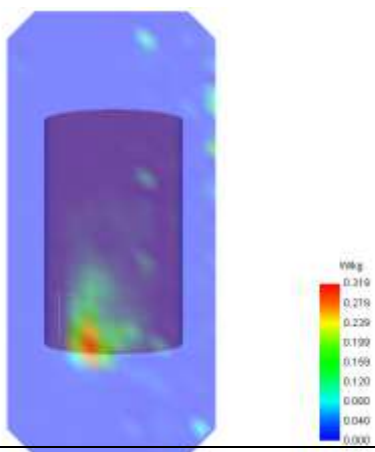
SAR 10g (W/Kg)	0.207
SAR 1g (W/Kg)	0.356
Variation (%)	0.940
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	50.391645

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.680	0.383	0.193	0.205	0.101	0.117	0.057



F. 3D Image

3D screen shot	Hot spot position
	

#2

Date of measurement: 12/6/2026

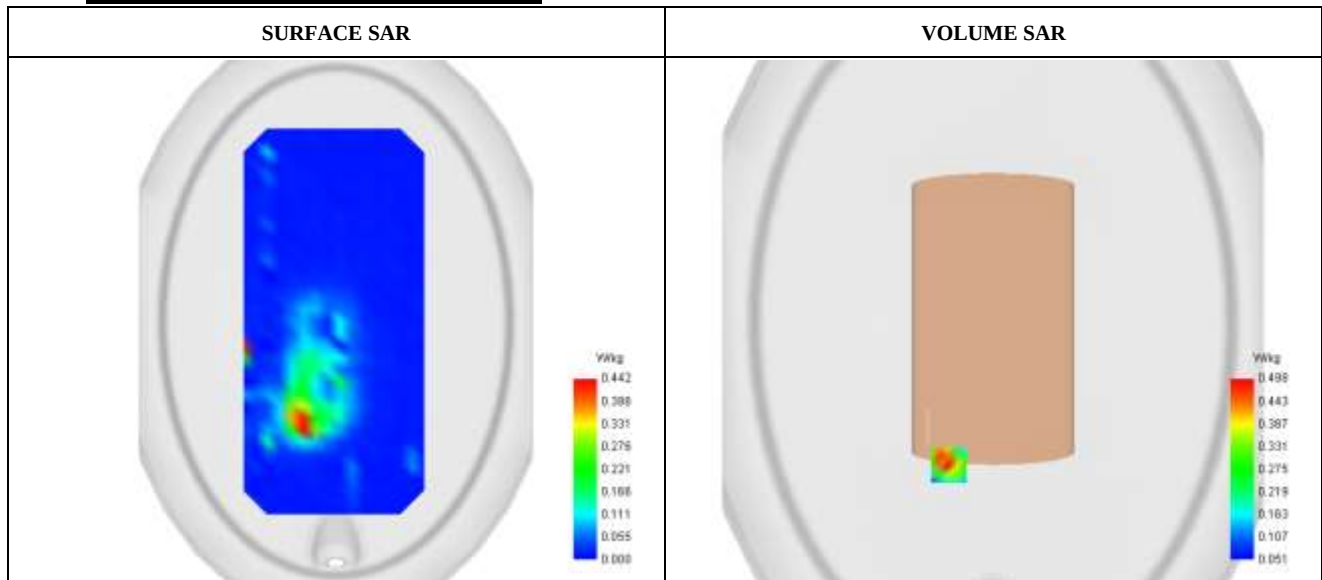
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.20
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	GSM1900
Channels/Frequency	Middle (661)/ frequency 1880.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



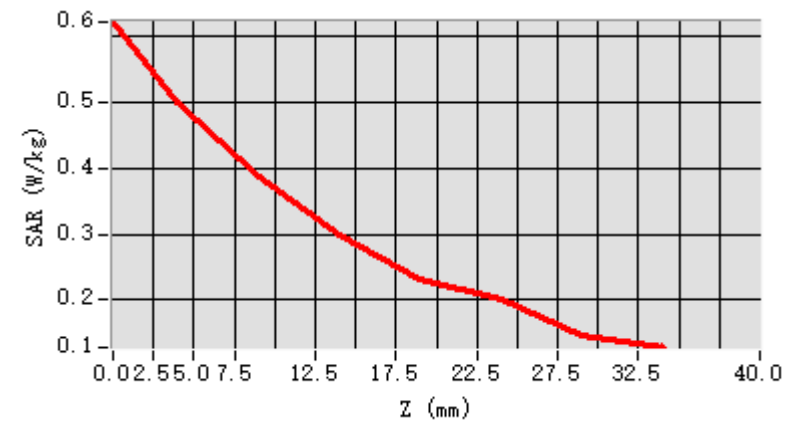
Maximum location: X=-40.00, Y=-130.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

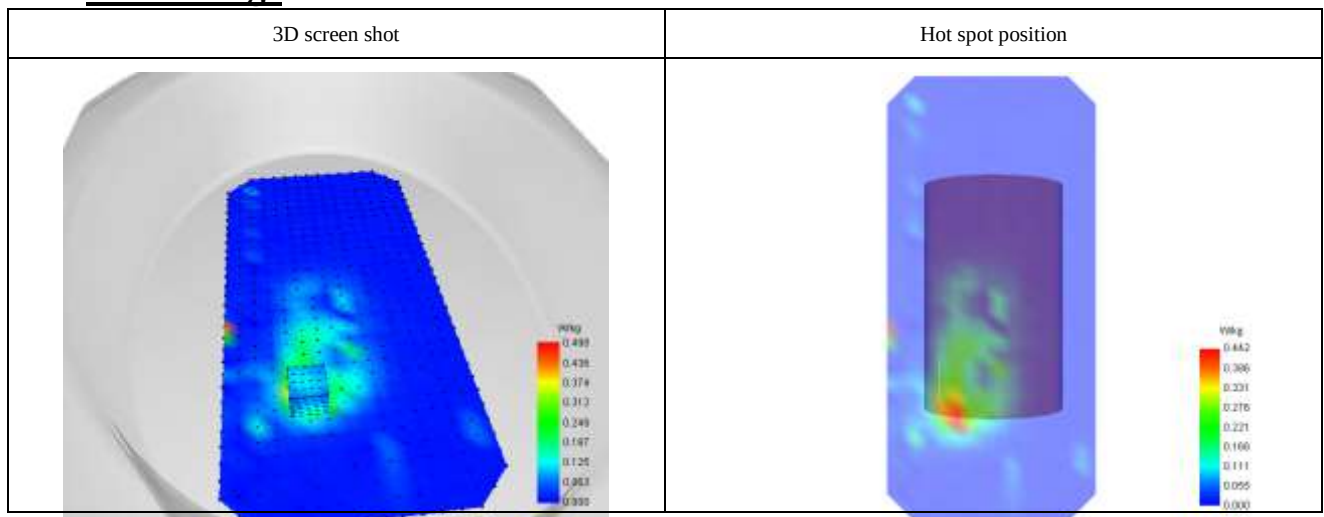
SAR 10g (W/Kg)	0.320
SAR 1g (W/Kg)	0.473
Variation (%)	-2.690
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	77.710843

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.621	0.498	0.387	0.300	0.231	0.200	0.146



F. 3D Image



#3

Date of measurement: 12/6/2026

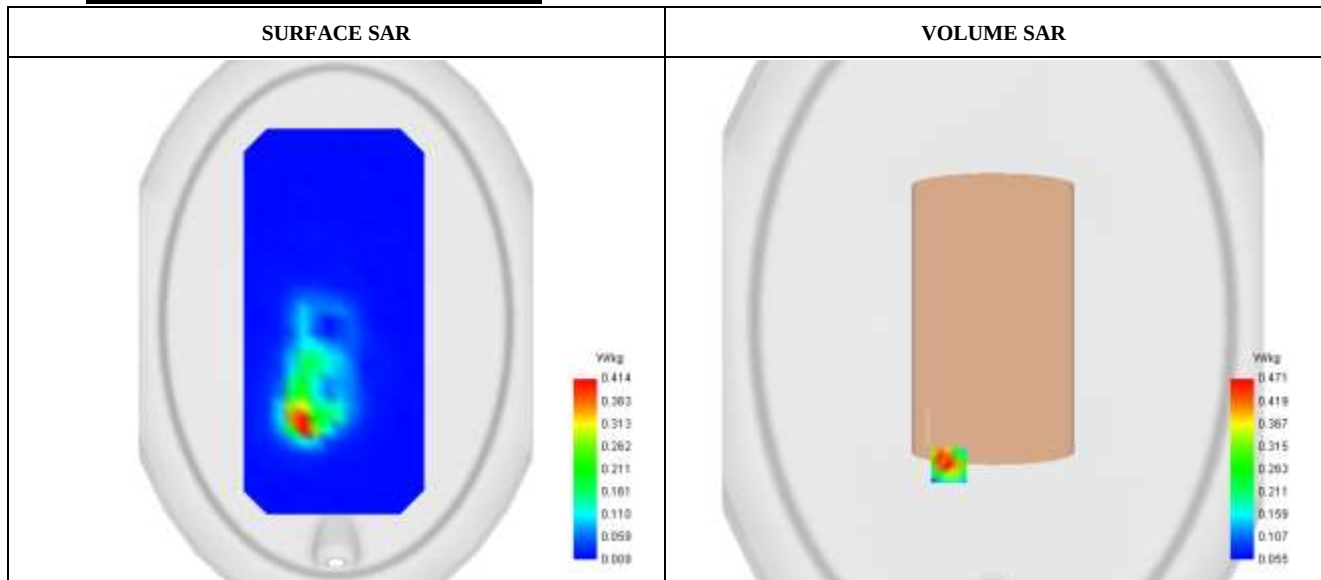
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.20
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	Band 2 (1900)
Channels/Frequency	Middle (9400)/ frequency 1880.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



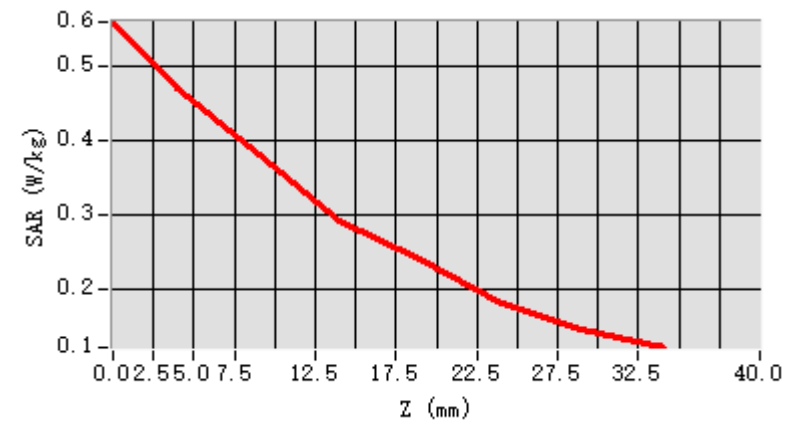
Maximum location: X=-40.00, Y=-130.00 ; SAR Peak: 0.60 W/kg

D. SAR 1g & 10g

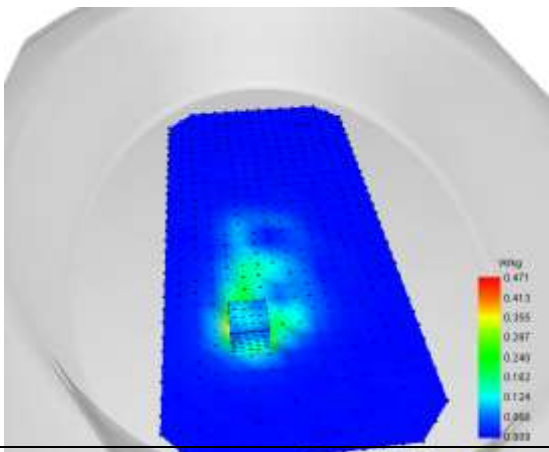
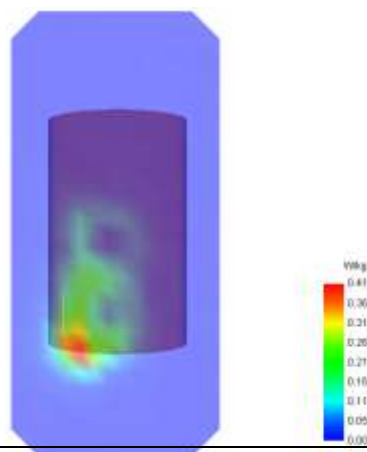
SAR 10g (W/Kg)	0.309
SAR 1g (W/Kg)	0.452
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	80.891720

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.560	0.471	0.381	0.293	0.240	0.182	0.146



F. 3D Image

3D screen shot	Hot spot position
	

#4

Date of measurement: 11/6/2026

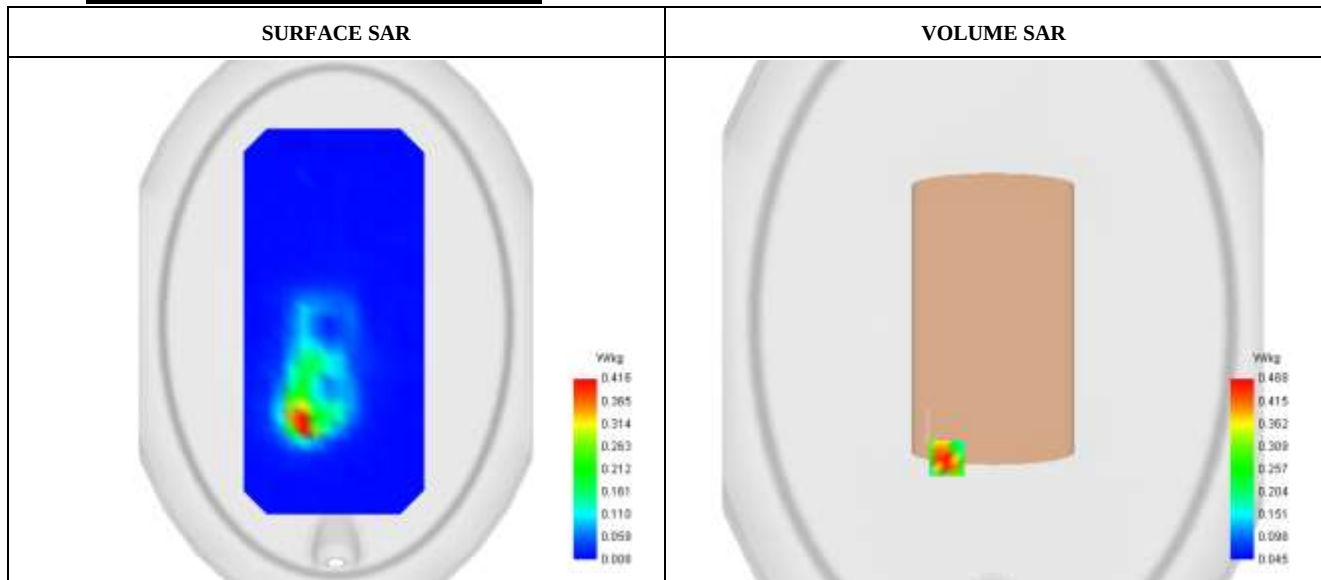
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	Band 4 (1700)
Channels/Frequency	Middle (1413)/ frequency 1732.60 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1732.60
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume



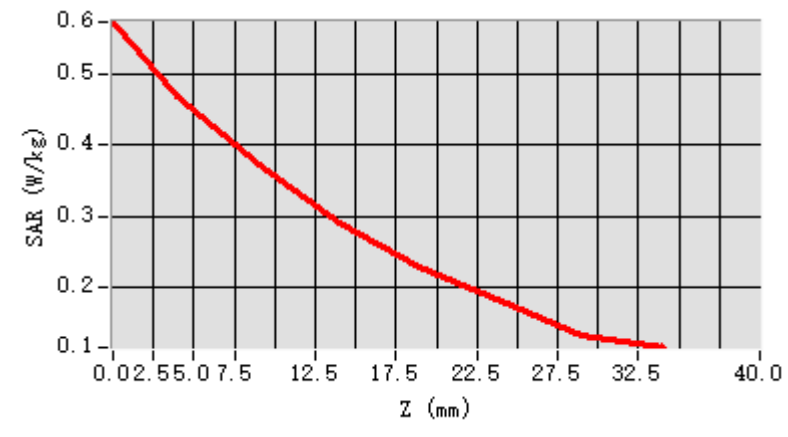
Maximum location: X=-42.00, Y=-124.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

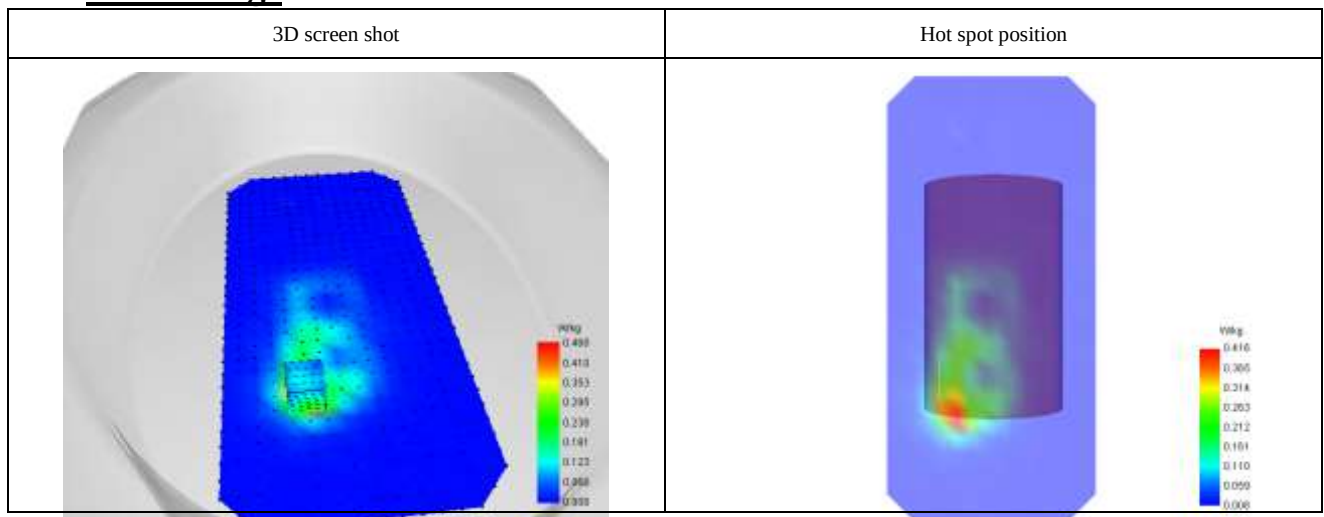
SAR 10g (W/Kg)	0.311
SAR 1g (W/Kg)	0.459
Variation (%)	2.030
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	79.487179

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.572	0.468	0.372	0.291	0.228	0.183	0.134



F. 3D Image



#5

Date of measurement: 10/6/2026

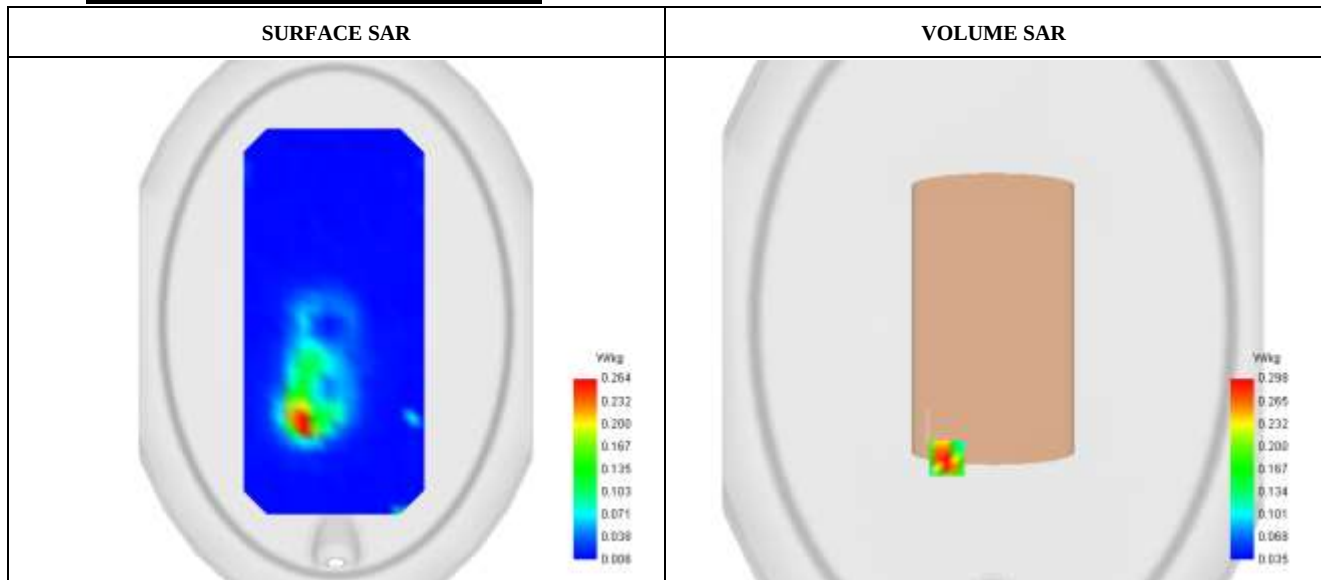
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	Band 5 (850)
Channels/Frequency	Middle (4182)/ frequency 836.40 Mhz

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.901

C. SAR Surface and Volume



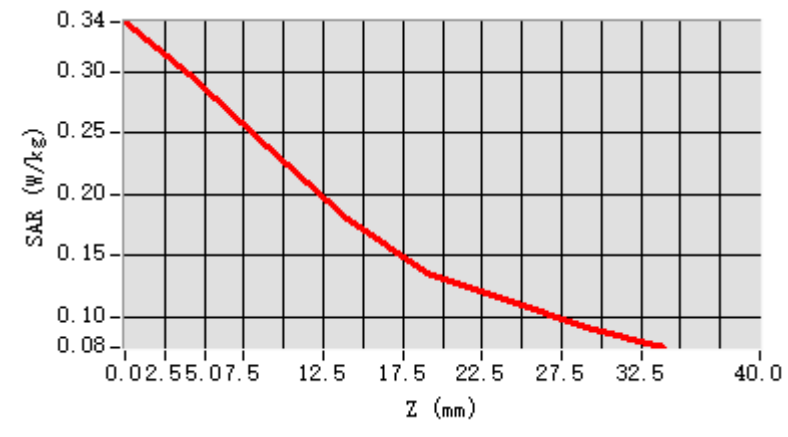
Maximum location: X=-42.00, Y=-124.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

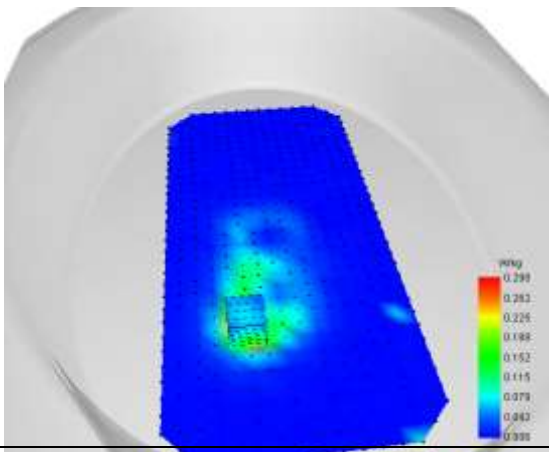
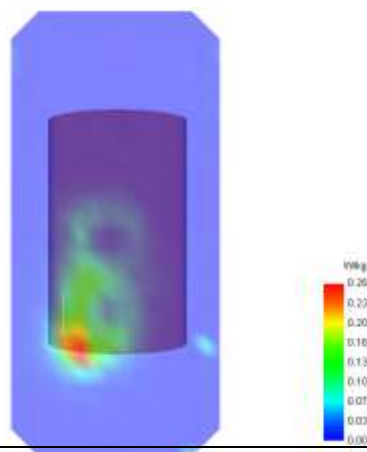
SAR 10g (W/Kg)	0.197
SAR 1g (W/Kg)	0.288
Variation (%)	-2.800
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	79.865772

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.340	0.298	0.238	0.180	0.136	0.114	0.092



F. 3D Image

3D screen shot	Hot spot position
	

#6

Date of measurement: 17/6/2026

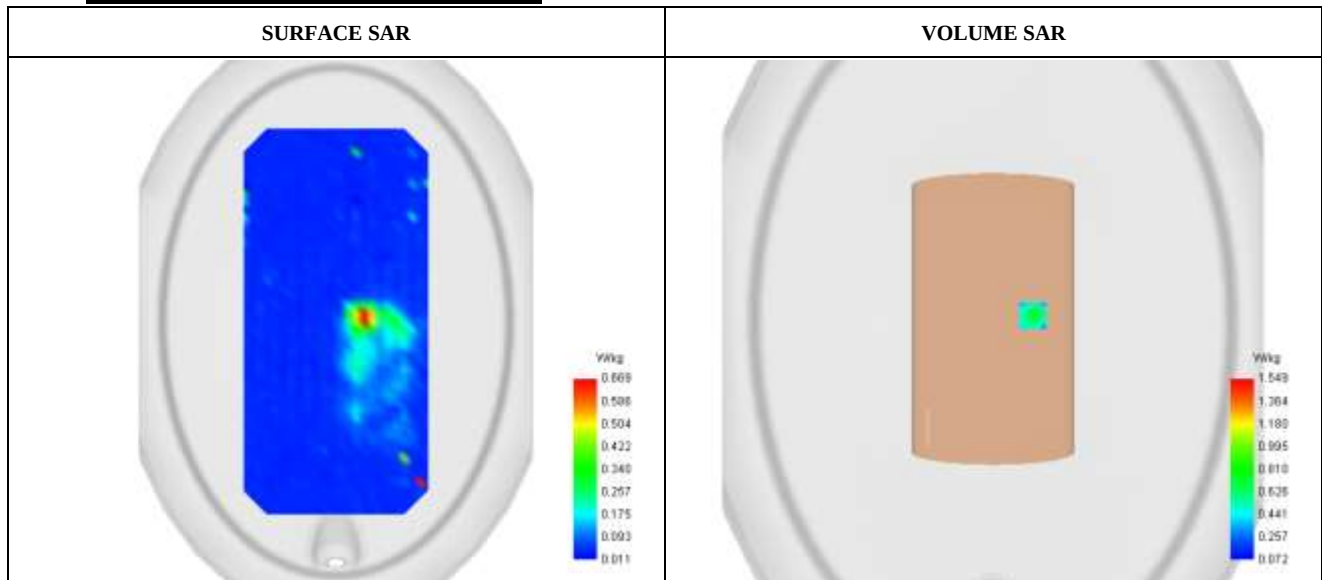
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.86
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	U-NII-1
Channels/Frequency	Lower (38)/ frequency 5190.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5190.00
Relative permittivity (real part)	36.010
Relative permittivity (imaginary part)	16.125
Conductivity (S/m)	4.649

C. SAR Surface and Volume



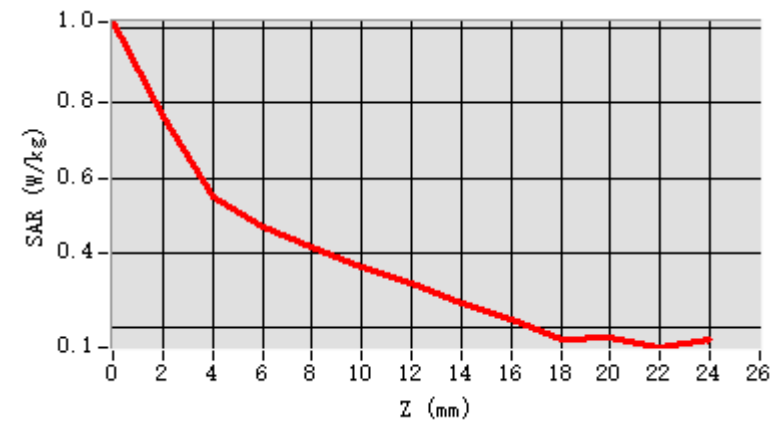
Maximum location: X=36.00, Y=5.00 ; SAR Peak: 1.98 W/kg

D. SAR 1g & 10g

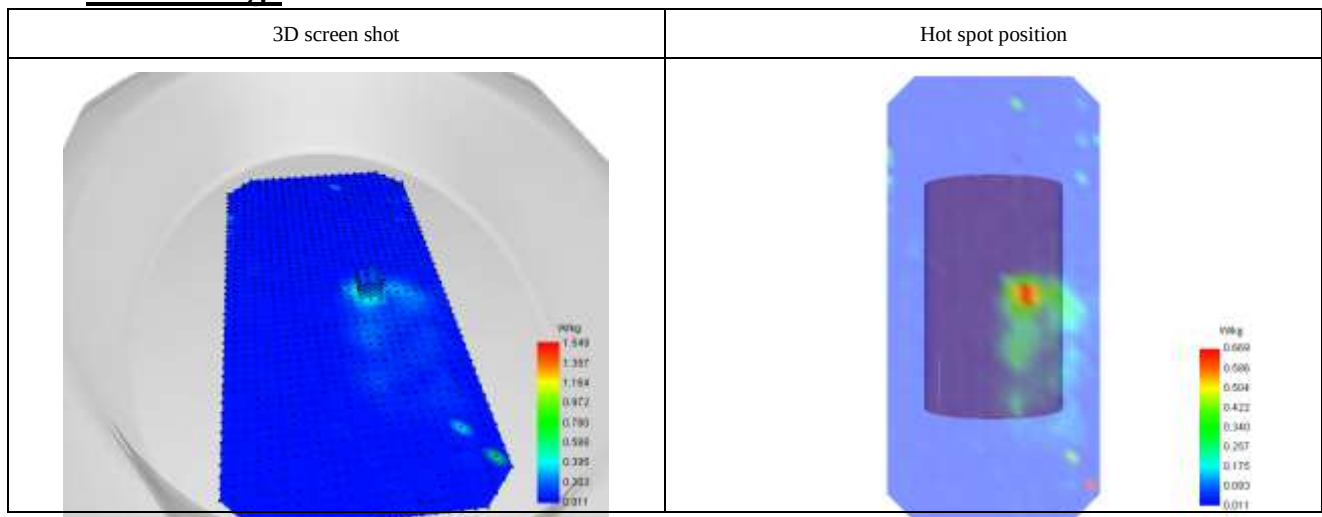
SAR 10g (W/Kg)	0.244
SAR 1g (W/Kg)	0.523
Variation (%)	-0.790
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	71.821756

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	1.017	0.763	0.548	0.470	0.416	0.362	0.318	0.264	0.221	0.165	0.171	0.146	



F. 3D Image



#7

Date of measurement: 20/6/2026

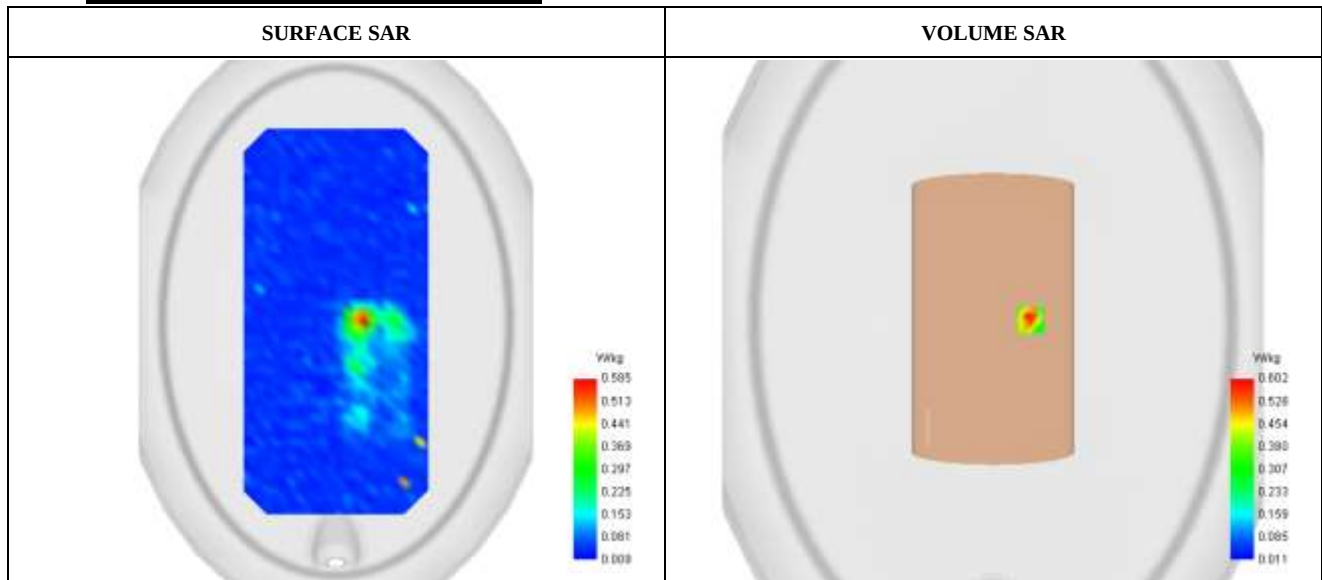
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	1.70
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	U-NII-3
Channels/Frequency	Lower (149)/ frequency 5745.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5745.00
Relative permittivity (real part)	35.355
Relative permittivity (imaginary part)	16.344
Conductivity (S/m)	5.216

C. SAR Surface and Volume



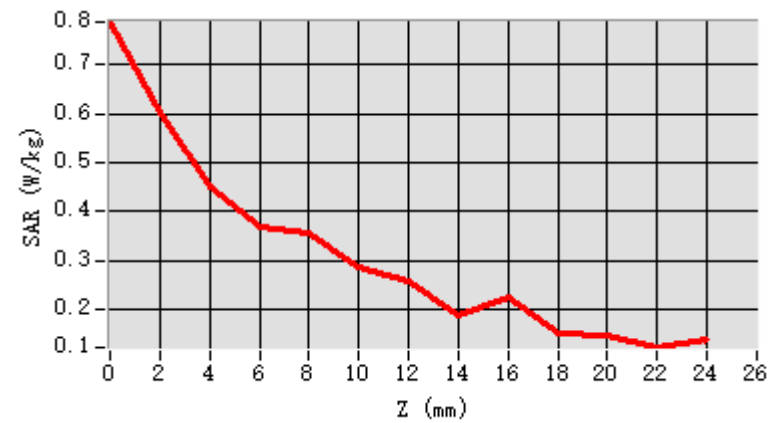
Maximum location: X=34.00, Y=1.00 ; SAR Peak: 0.90 W/kg

D. SAR 1g & 10g

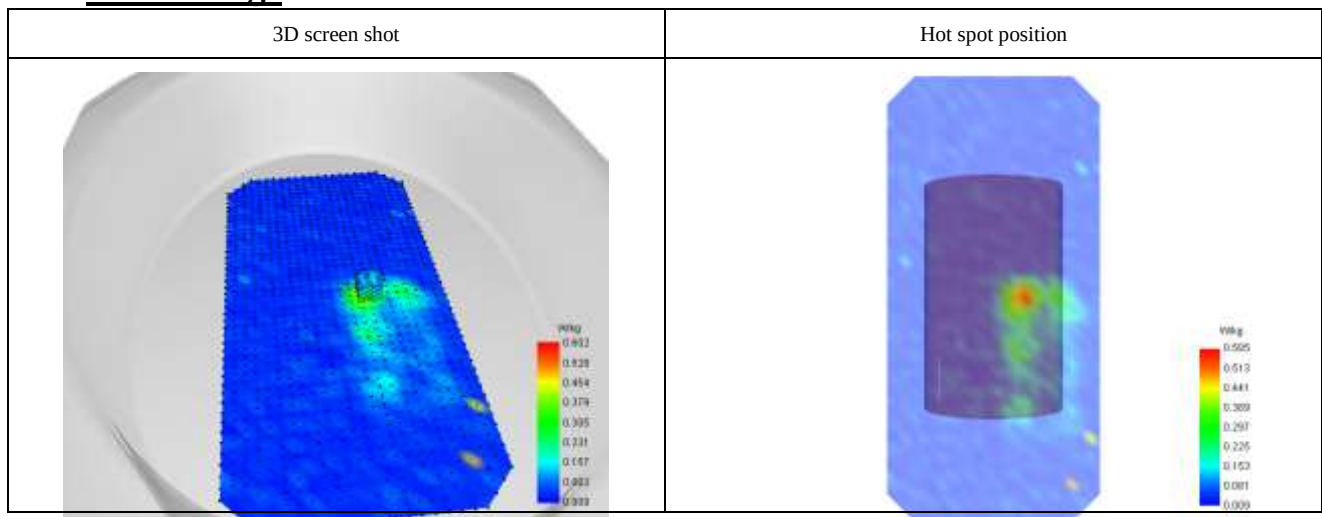
SAR 10g (W/Kg)	0.253
SAR 1g (W/Kg)	0.454
Variation (%)	2.270
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	74.916944

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00	20.00	22.00	24.00
SAR (W/Kg)	0.788	0.602	0.451	0.368	0.355	0.285	0.257	0.187	0.224	0.150	0.146	0.122	0.122



F. 3D Image



#8

Date of measurement: 15/6/2026

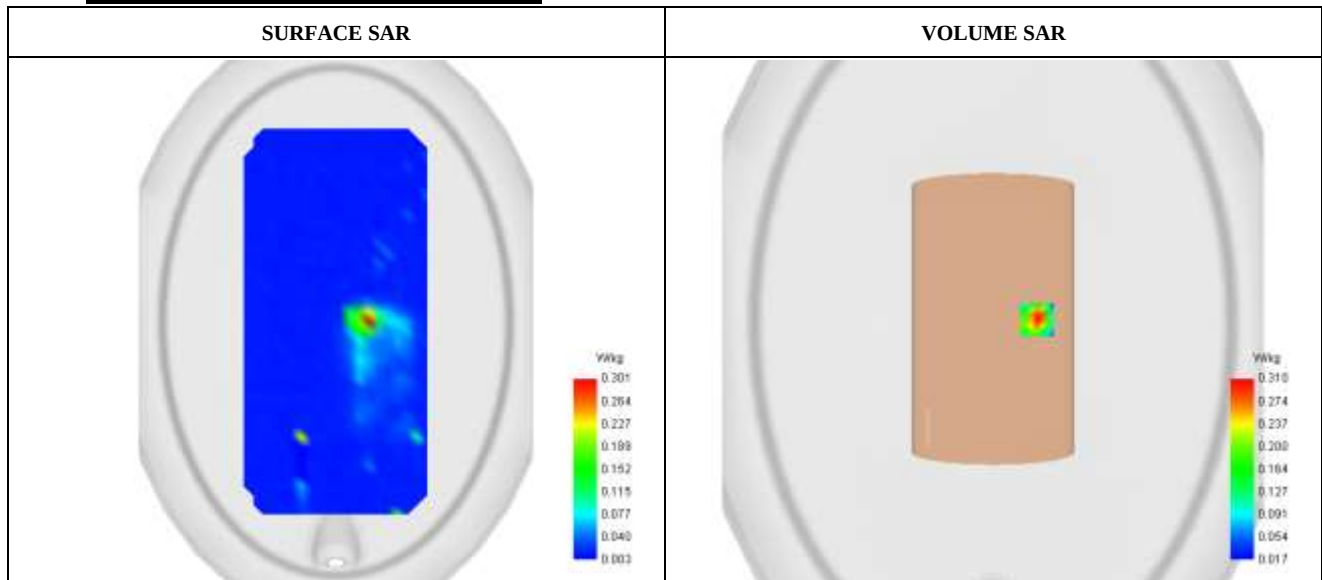
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.44
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	ISM
Channels/Frequency	Higher (11)/ frequency 2462.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	2462.00
Relative permittivity (real part)	39.184
Relative permittivity (imaginary part)	13.248
Conductivity (S/m)	1.812

C. SAR Surface and Volume



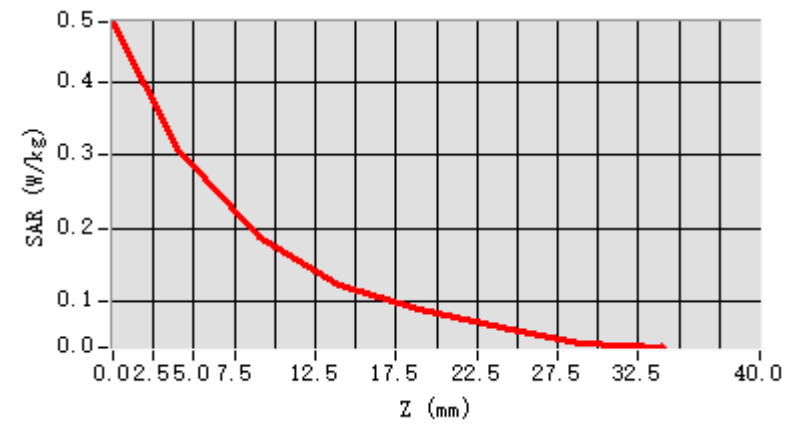
Maximum location: X=40.00, Y=1.00 ; SAR Peak: 0.49 W/kg

D. SAR 1g & 10g

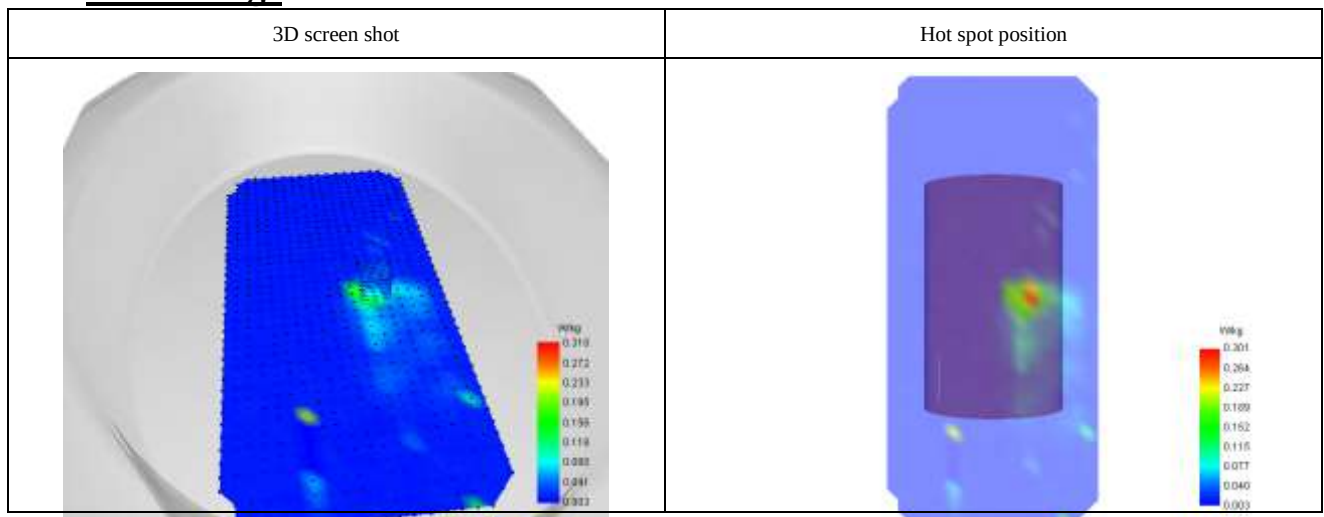
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.288
Variation (%)	-0.190
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	60.322581

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.483	0.310	0.187	0.122	0.088	0.062	0.042



F. 3D Image



#9

Date of measurement: 12/6/2026

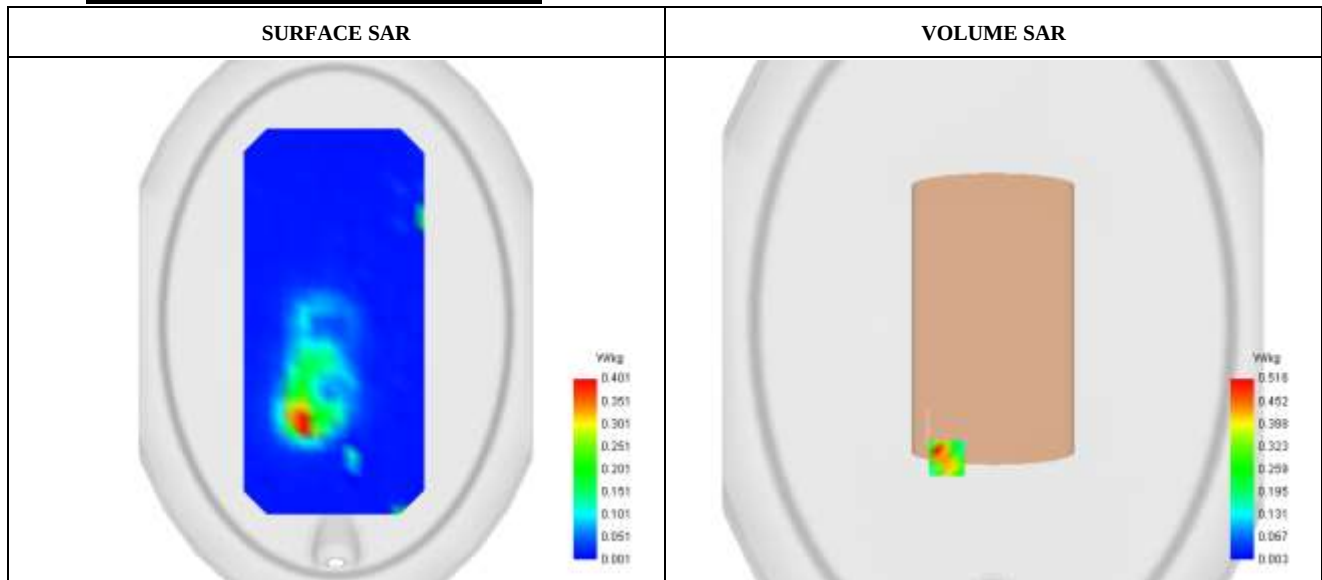
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.20
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	LTE band 2
Channel Center [EARFCN] / Channel Center [MHz]	Middle (18900)/ frequency 1880.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1880.00
Relative permittivity (real part)	40.000
Relative permittivity (imaginary part)	13.408
Conductivity (S/m)	1.400

C. SAR Surface and Volume



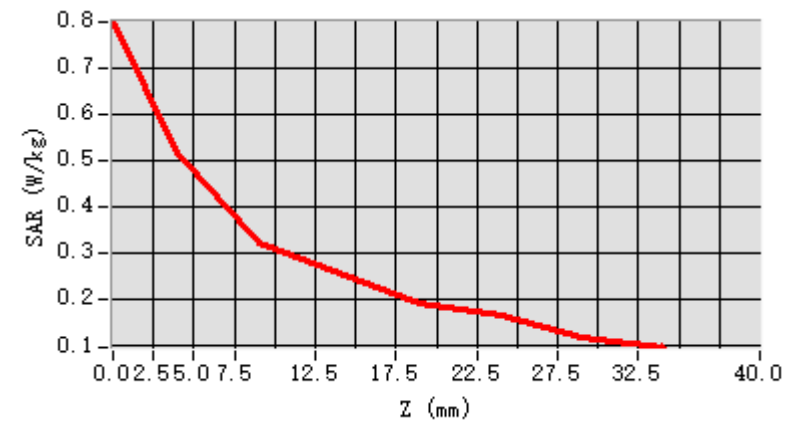
Maximum location: X=-42.00, Y=-124.00 ; SAR Peak: 0.85 W/kg

D. SAR 1g & 10g

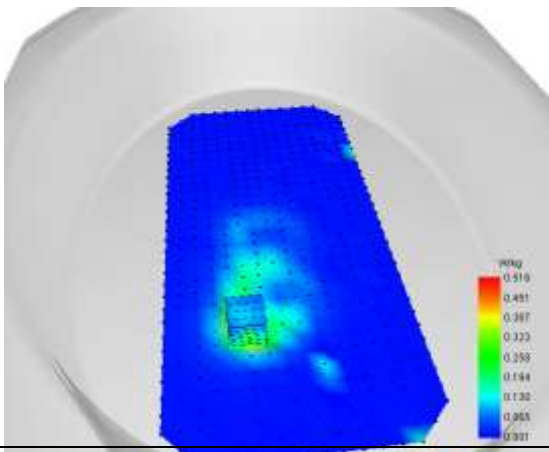
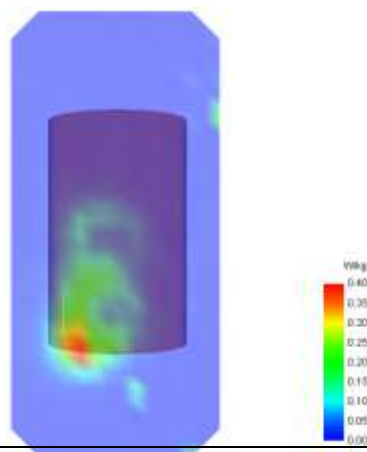
SAR 10g (W/Kg)	0.292
SAR 1g (W/Kg)	0.483
Variation (%)	-0.180
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	62.403101

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.799	0.516	0.322	0.255	0.190	0.164	0.118



F. 3D Image

3D screen shot	Hot spot position
	

#10

Date of measurement: 11/6/2026

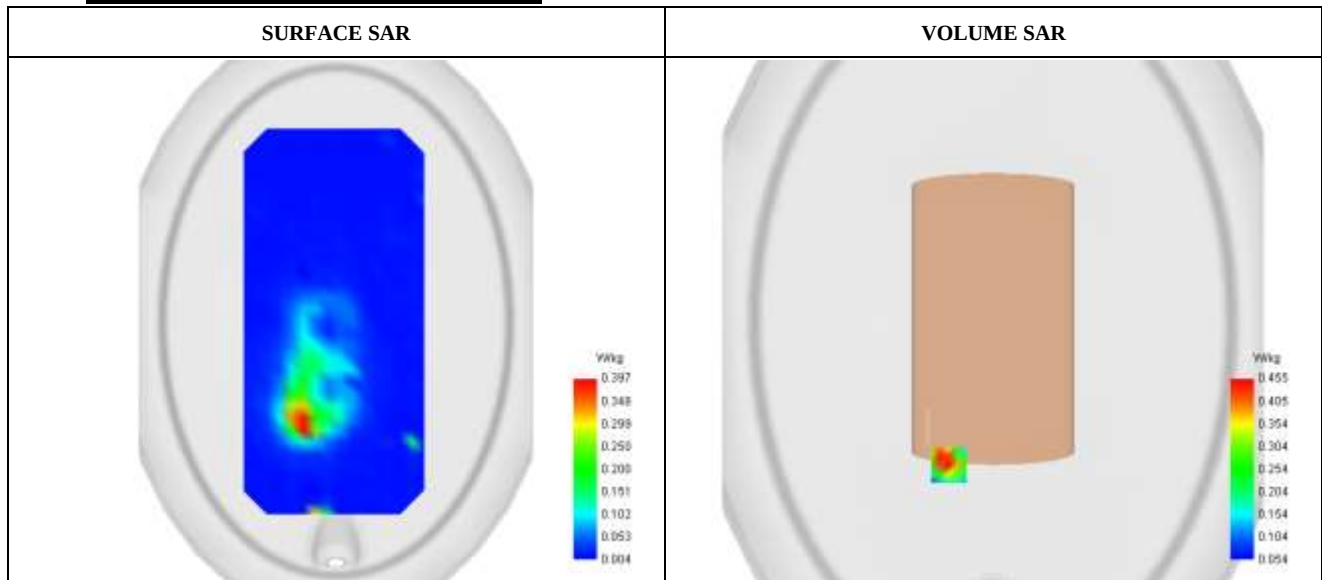
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	LTE band 4
Channel Center [EARFCN] / Channel Center [MHz]	Middle (20175)/ frequency 1732.50 Mhz

B. Permittivity

Middle TX Frequency (MHz)	1732.50
Relative permittivity (real part)	40.116
Relative permittivity (imaginary part)	14.136
Conductivity (S/m)	1.361

C. SAR Surface and Volume



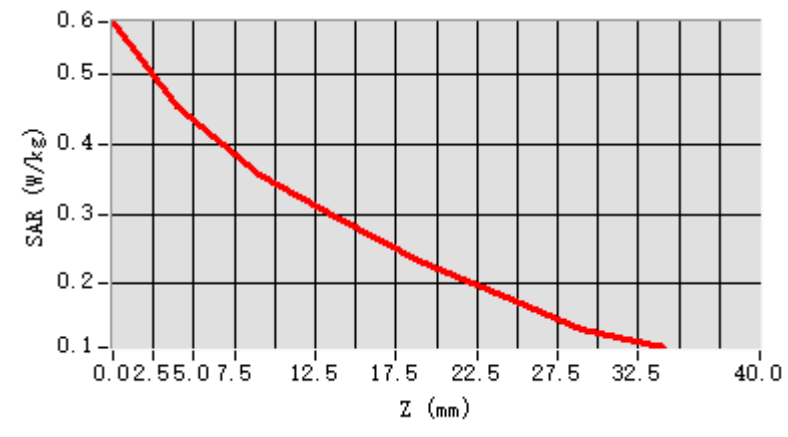
Maximum location: X=-40.00, Y=-130.00 ; SAR Peak: 0.60 W/kg

D. SAR 1g & 10g

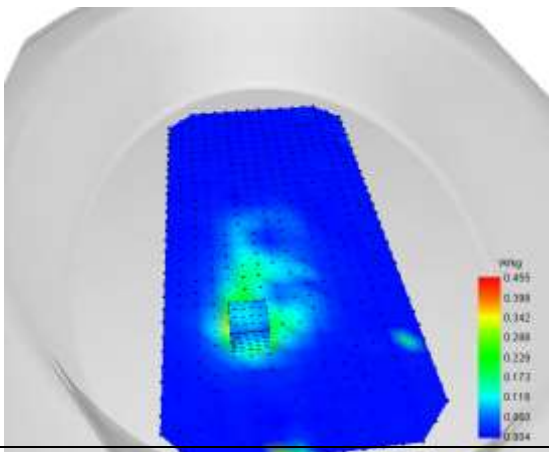
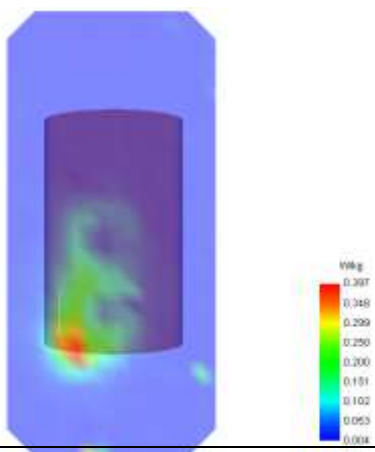
SAR 10g (W/Kg)	0.302
SAR 1g (W/Kg)	0.448
Variation (%)	4.700
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	78.021978

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.575	0.455	0.355	0.294	0.232	0.184	0.135



F. 3D Image

3D screen shot	Hot spot position
	

#11

Date of measurement: 10/6/2026

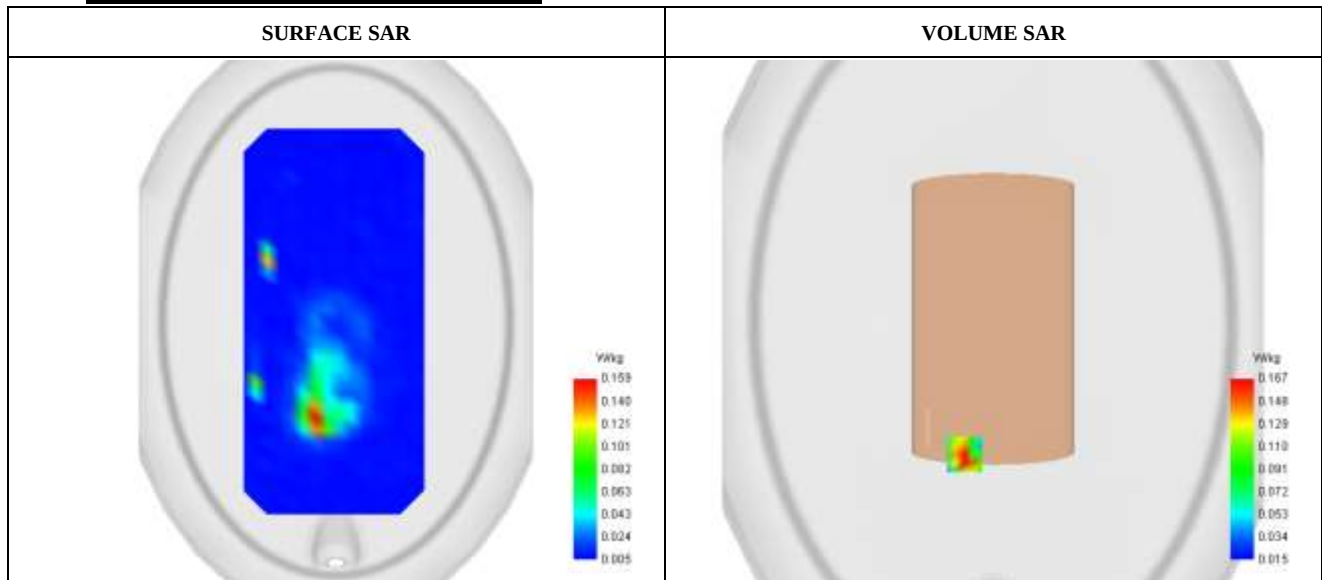
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.01
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	LTE band 5
Channel Center [EARFCN] / Channel Center [MHz]	Middle (20525)/ frequency 836.50 Mhz

B. Permittivity

Middle TX Frequency (MHz)	836.50
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	19.400
Conductivity (S/m)	0.902

C. SAR Surface and Volume



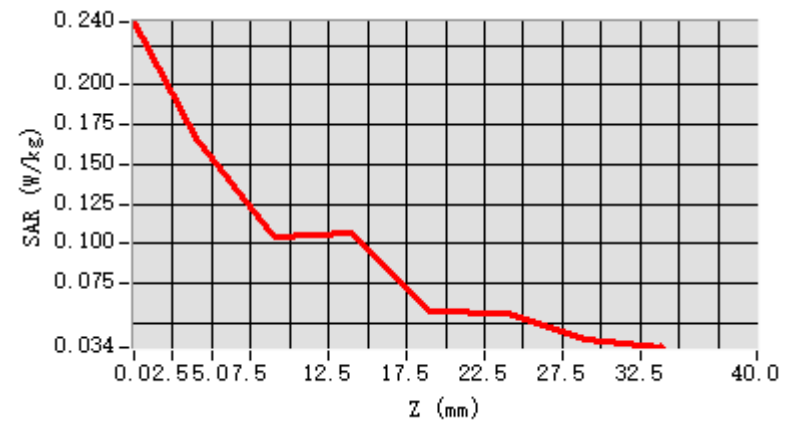
Maximum location: X=-26.00, Y=-120.00 ; SAR Peak: 0.21 W/kg

D. SAR 1g & 10g

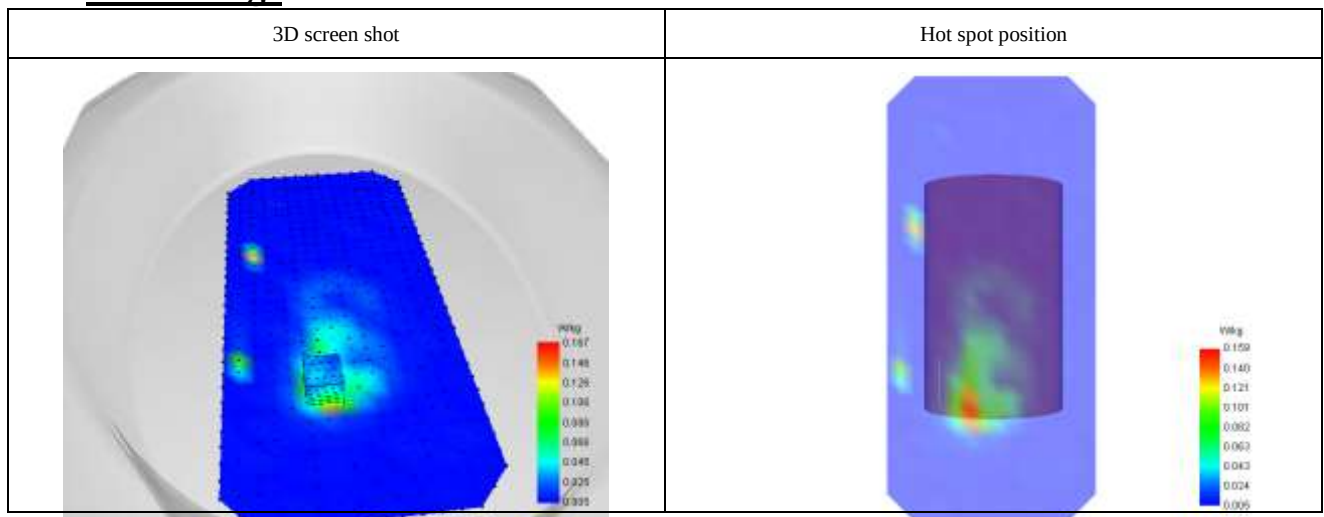
SAR 10g (W/Kg)	0.105
SAR 1g (W/Kg)	0.161
Variation (%)	2.310
Horizontal validation criteria: minimum distance (mm)	11.313708
Vertical validation criteria: SAR ratio M2/M1 (%)	62.275449

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.240	0.167	0.104	0.106	0.057	0.056	0.040



F. 3D Image



#12

Date of measurement: 16/6/2026

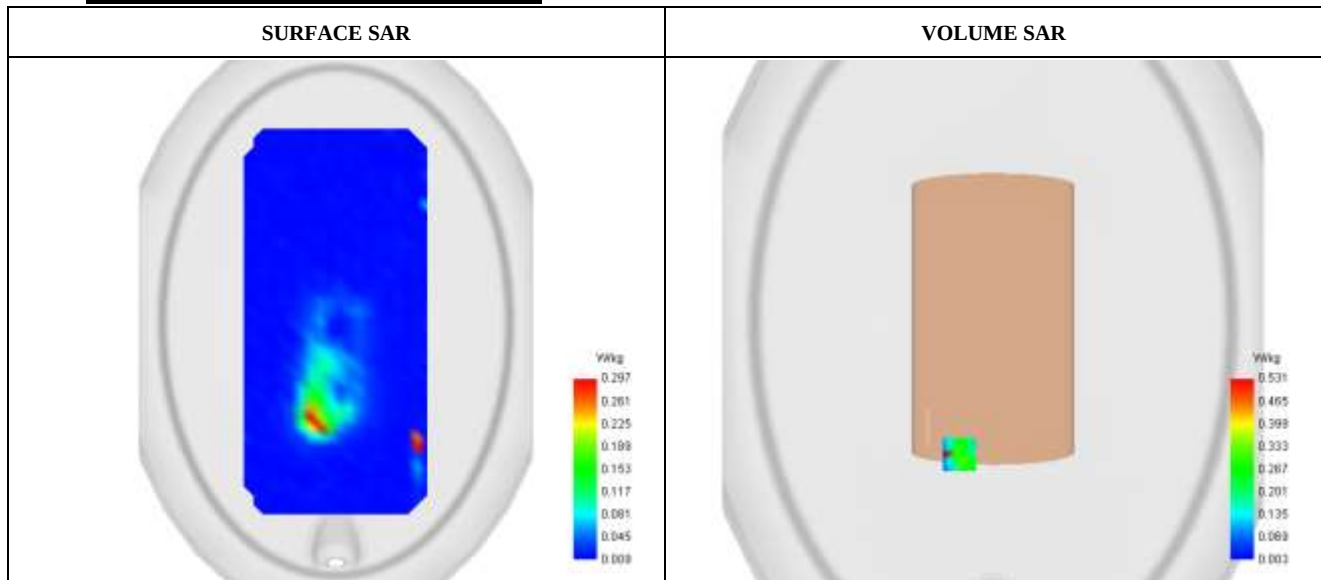
A. Experimental conditions.

Probe	0523-EPGO-403
ConvF	2.23
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	ELLI
Device Position	Body
Band	LTE band 7
Channel Center [EARFCN] / Channel Center [MHz]	Middle (21100)/ frequency 2535.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	2535.00
Relative permittivity (real part)	39.087
Relative permittivity (imaginary part)	13.418
Conductivity (S/m)	1.890

C. SAR Surface and Volume



Maximum location: X=-30.00, Y=-120.00 ; SAR Peak: 1.07 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.151
SAR 1g (W/Kg)	0.300
Variation (%)	-1.730
Horizontal validation criteria: minimum distance (mm)	5.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	31.261770