

FCC SAR EVALUATION REPORT

**In accordance with the requirements of
FCC 47 CFR Part 2(2.1093), ANSI/IEEE C95.1-1992 and
IEEE Std 1528-2013**

Product Name : POS Terminal

Trademark : N/A

Model Name : PT7010

Family Model : PT7010E,PT7010S,PT7010M,PT7010MS,PT7010T,PT7010ST,PT7010MT,PT7010MST,PT7010MAC,PT7010F

FCC ID : 2ASHJPT7010E

Report No. : N26071501513E

Prepared for

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TEST RESULT CERTIFICATION**Applicant's name** Tousei Anlinx Co.,Ltd.Address Room901,Zhenhua Times Square,21 Heping Road LongHua
district,ShenzhenCity,China 518109**Manufacturer's Name** Tousei Anlinx Co.,Ltd.Address Room901,Zhenhua Times Square,21 Heping Road LongHua
district,ShenzhenCity,China 518109**Product description**

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PT7010MST,PT7010MAC,PT7010F

FCC 47 CFR Part 2(2.1093);

ANSI/IEEE C95.1-1992

Standards IEEE Std 1528-2013;

Published RF exposure KDB procedures

This device described above has been tested by Shenzhen NTEK. 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) and ANSI/IEEE C95.1-1992. 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 S2607160106-1#

Date of Test

Date (s) of performance of tests. July. 20, 2026 ~ July. 30, 2026

Date of Issue Aug.25, 2026

Test Result **Pass**Prepared By : Owen Xiao
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※ ※ Revision History ※ ※

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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 for PT7010 are as follows.

RF Exposure Conditions		Equipment Class -Highest Reported SAR (W/kg)				Max. Reported SAR (W/kg)
		PCB	DTS	NII	DSS	
1-g Body-Worn (Separation distance of 0mm)		0.254	0.672	0.596	0.105	0.672
1-g Hotspot (Separation distance of 0mm)		0.728	0.672	0.596	0.105	0.728
Max Simultaneous Tx	Body-Worn	0.813	0.813	0.737	0.254	0.813
	Hotspot	0.813	0.813	0.737	0.728	0.813

Note: The Max Simultaneous Tx 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 ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std 1528-2013 & KDB 865664 D01.

1.3. EUT Description

Device Information	
Product Name	POS Terminal
Trade Name	N/A
Model Name	PT7010
Family Model	PT7010E,PT7010S,PT7010M,PT7010MS,PT7010T,PT7010ST,PT7010MT,PT7010MST,PT7010MAC,PT7010F
Model Difference	All models are the same circuit and RF module, except for model names.
FCC ID	2ASHJPT7010E
Device Phase	Identical Prototype
Exposure Category	General population / Uncontrolled environment
Antenna	PIFA Antenna
Adapter	Adapter 1 Model: SG-0503000U Input: 100-240V~50/60Hz 0.6A MAX Output: 5.0V---3.0A 15.0W Adapter 2 Model: FJ-SW20180902500D Input: 100-240V~50/60Hz 1.5A MAX Output: 9.0V---2.5A 22.5W

Battery	DC 3.7V, 7750mAh, 28.67Wh		
Power supply	DC 3.7V from battery or DC 5V/9V from Adapter		
Hardware version	V1.00		
Software version	V1.00		
Device Operating Configurations			
Supporting Mode(s)	SM850,WCDMA Band5,LTE Band5, WLAN 2.4G/5G, Bluetooth, NFC		
Test Modulation	GSM(GMSK),WCDMA(QPSK),LTE(QPSK/16QAM),WLAN(DSSS/OFDM), Bluetooth(GFSK, $\pi/4$ -DQPSK, 8DPSK),NFC(ASK)		
Device Class	B		
Operating Frequency Range(s)	Band	Tx (MHz)	Rx (MHz)
	GSM 850	824-849	869-894
	WCDMA Band 5	824-849	869-894
	LTE Band 5	824-849	869-894
	LTE Band 41	2496-2690	
	WLAN 2.4G	2412-2462	
	WLAN 5.2G	5180-5240	
	WLAN 5.3G	5260-5320	
	WLAN 5.8G	5745-5825	
	Bluetooth	2402-2480	
	NFC	13.56	
	4, tested with power level 5(GSM 850)		
	3, tested with power control “all 1”(WCDMA Band 5)		
	3, tested with power control all Max.(LTE Band 5)		
	3, tested with power control all Max.(LTE Band 41)		

1.4. Test specification(s)

FCC 47 CFR Part 2(2.1093)
ANSI/IEEE C95.1-1992
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 D05 SAR for LTE Devices v01r02;
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. Facilities And Accreditations**1.6.1. Facilities**

All measurement facilities used to collect the measurement data are located at Building 1, No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, China

The sites are constructed in conformance with the requirements of IEC/IEEE 1528:2013

1.6.2. Laboratory Accreditations And Listings

Site Description

CNAS Lab. : The Certificate Registration Number is L5516

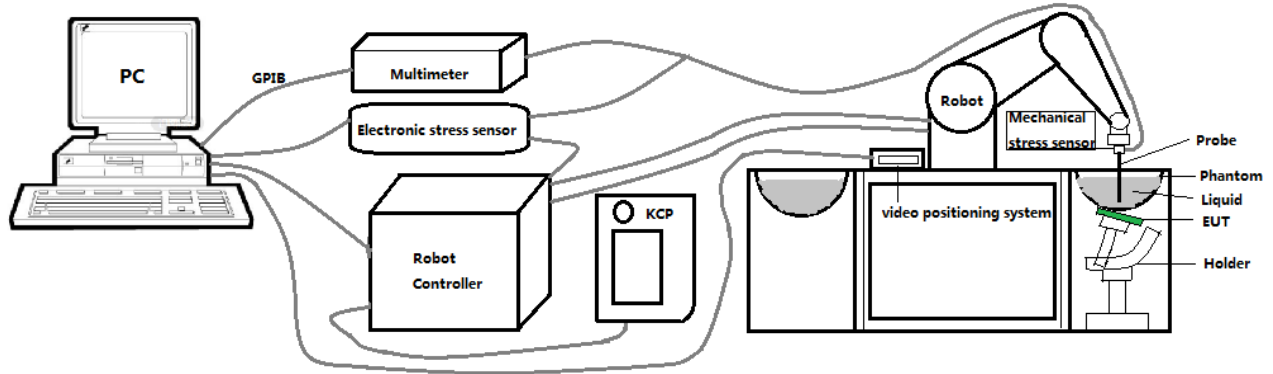
A2LA Lab. : The Certificate Registration Number is 4298.01

FCC Accredited : Test Firm Registration Number: 463705
Designation Number: CN1184

ISED Registration : Company Number: 9270A
CAB identifier: CN0074

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. E-Field 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 4024-EPGO-442 with following specifications is used



- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Distance between probe tip and sensor center: 1 mm
- Distance between sensor center and the inner phantom surface: 2 mm (repeatability better than ± 1 mm).
- Probe linearity: ± 0.08 dB
- Axial isotropy: ± 0.01 dB
- Hemispherical Isotropy: ± 0.01 dB
- Calibration range: 650MHz to 5900MHz for head & body simulating liquid.
- Lower detection limit: 8mW/kg

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 ± 0.25 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. SAM phantoms

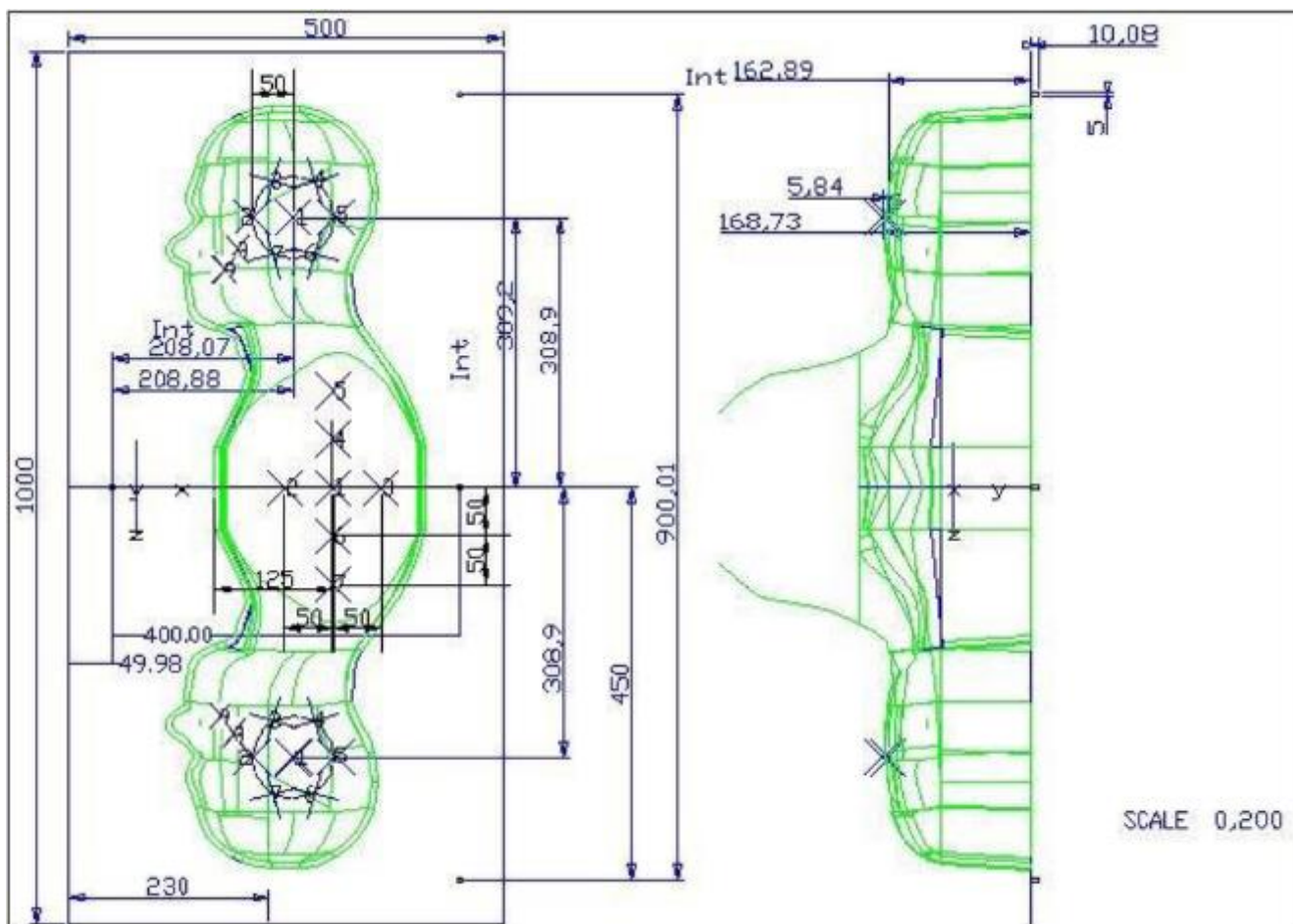
Photo of SAM phantom SN 16/15 SAM119



The SAM phantom is used to measure the SAR relative to people exposed to electro-magnetic field radiated by mobile phones.

2.4.1. Technical Data

Serial Number	Shell thickness	Filling volume	Dimensions	Positionner Material	Permittivity	Loss Tangent
SN 16/15 SAM119	2 mm ±0.2 mm	27 liters	Length:1000 mm Width:500 mm Height:200 mm	Gelcoat with fiberglass	3.4	0.02

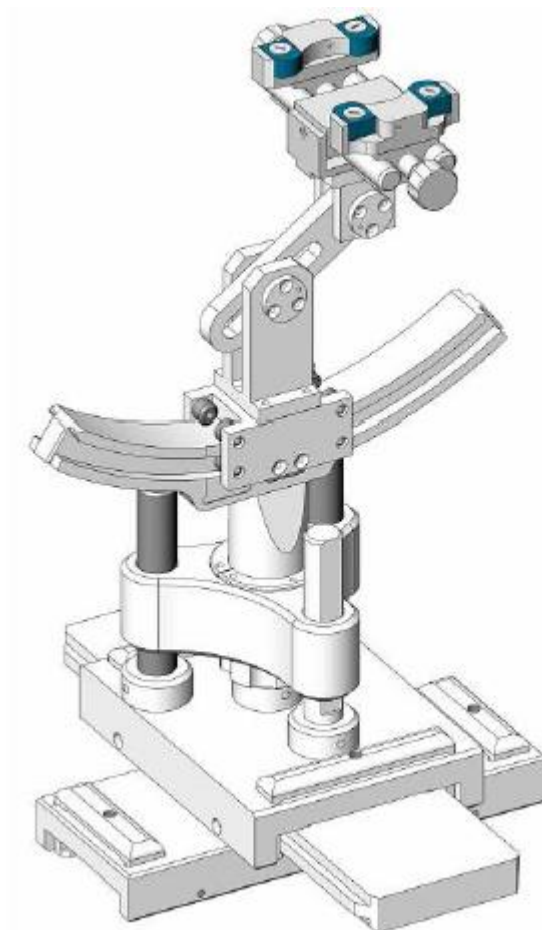


Serial Number	Left Head(mm)		Right Head(mm)		Flat Part(mm)	
SN 16/15 SAM119	2	2.02	2	2.08	1	2.09
	3	2.05	3	2.06	2	2.06
	4	2.07	4	2.07	3	2.08
	5	2.08	5	2.08	4	2.10
	6	2.05	6	2.07	5	2.10
	7	2.05	7	2.05	6	2.07
	8	2.07	8	2.06	7	2.07
	9	2.08	9	2.06	-	-

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

2.5. Device Holder

The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1 degree.



Serial Number	Holder Material	Permittivity	Loss Tangent
SN 16/15 MSH100	Delrin	3.7	0.005

2.6. 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	3423-EPGO-426	Oct. 12, 2025	Oct. 11, 2026
☐	MVG	750 MHz Dipole	SID750	SN 03/15 DIP 0G750-355	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	835 MHz Dipole	SID835	SN 03/15 DIP 0G835-347	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	900 MHz Dipole	SID900	SN 03/15 DIP 0G900-348	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	1800 MHz Dipole	SID1800	SN 03/15 DIP 1G800-349	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	1900 MHz Dipole	SID1900	SN 03/15 DIP 1G900-350	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2000 MHz Dipole	SID2000	SN 03/15 DIP 2G000-351	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2300 MHz Dipole	SID2300	SN 03/16 DIP 2G300-358	Feb. 22, 2024	Feb. 21, 2027
☒	MVG	2450 MHz Dipole	SID2450	SN 03/15 DIP 2G450-352	Feb. 21, 2024	Feb. 20, 2027
☐	MVG	2600 MHz Dipole	SID2600	SN 03/15 DIP 2G600-356	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	5000 MHz Dipole	SWG5500	SN 13/14 WGA 33	Feb. 21, 2024	Feb. 20, 2027
☒	MVG	Liquid measurement	SCLMP	SN 21/15 OCPG 72	NCR	NCR

		Kit				
☒	MVG	Power Amplifier	N/A	AMPLISAR_28/14_003	NCR	NCR
☒	KEITHLEY	Millivoltmeter	2000	4072790	May. 7, 2026	May. 6, 2027
☐	R&S	Universal radio communication tester	CMU200	105747	Apr. 8, 2026	Apr. 7, 2027
☒	R&S	Wideband radio communication tester	CMW500	103917	Apr.27, 2026	Apr.26, 2027
☐	Anritsu	4G LTE comprehensive tester	MT8821C	6262192315	Apr.8 2026	Apr.7 2027
☐	Anritsu	5G NR comprehensive tester	MT8000A	6262186364	Apr.8 2026	Apr.7 2027
☒	Hp/Agilent	Network Analyzer	8753D	3410J01136	Apr.15 , 2026	Apr.14, 2027
☒	Agilent	Calibration Kit	85033E	N/A	May. 31, 2024	May. 30, 2027
☒	Agilent	MXG Vector Signal Generator	N5182A	MY47070317	Apr.8 2026	Apr.7 2027
☒	Agilent	Power sensor	E4419B	MY45102538	Apr.8 2026	Apr.7 2027
☒	Agilent	Power sensor	E9301A	US39212148	Apr.8 2026	Apr.7 2027
☒	MCLI/USA	Directional Coupler	CB11-20	0D2L51502	Apr. 26, 2024	Apr. 25, 2027
☒	N/A	Thermometer	N/A	LES-085	Mar. 15, 2026	Mar. 14, 2027
☒	MVG	SAM Phantom	SSM2	SN 16/15 SAM119	NCR	NCR
☒	MVG	Device Holder	SMPPD	SN 16/15 MSH100	NCR	NCR

Measurement Software

Manufacturer	Software Name	Software Version
SATIMO	OpenSAR	V5.3.15.11

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 WLAN/Bluetooth power measurement, use engineering software to configure EUT WLAN/Bluetooth 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 WLAN/Bluetooth output power.

<SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/Bluetooth 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 using to determinate 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 form multi Tx SAR measurement. Indeed, it is possible with OpenSAR to add, point by point, several volumetric scan to calculate the SAR value of the combined measurement as it is define 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								
Frequency Band (MHz)	750	835	900	1800	1900	2000	2450	2600	5000
Water	34.40	34.40	34.40	55.36	55.36	71.88	71.88	71.88	65.53
NaCl	0.79	0.79	0.79	0.35	0.35	0.16	0.16	0.16	0.00
1,2-Propanediol	64.81	64.81	64.81	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	17.24
DGBE	0.00	0.00	0.00	13.84	13.84	7.99	7.99	7.99	0.00

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.

Photo of Liquid depth for Head Position	Photo of Liquid depth for Body Position
	

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 if the dielectric parameters 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		Delta(%)		Liquid Temp.	Test Date
		ϵ_r	σ (S/m)	ϵ_r	σ (S/m)	ϵ_r	σ (S/m)		
Head 835	835	41.50	0.90	41.88	0.93	0.92	3.33	21.3 °C	Jul. 26, 2026
Head 1900	1900	40.00	1.40	38.99	1.46	-2.52	4.29	21.1 °C	Jul. 27, 2026
Head 2450	2450	39.20	1.80	40.27	1.82	2.73	1.11	21.0 °C	Jul. 21, 2026
Head 2600	2600	39.01	1.96	39.21	1.98	0.51	1.02	21.3 °C	Jul. 28, 2026
Head 5200	5200	36.00	4.66	36.36	4.56	1.00	-2.15	21.3 °C	Jul. 29, 2026
Head 5400	5400	35.80	4.86	34.22	4.80	-4.41	-1.23	21.1 °C	Jul. 20, 2026
Head 5800	5800	35.30	5.27	35.82	5.32	1.47	0.95	21.3 °C	Jul. 30, 2026

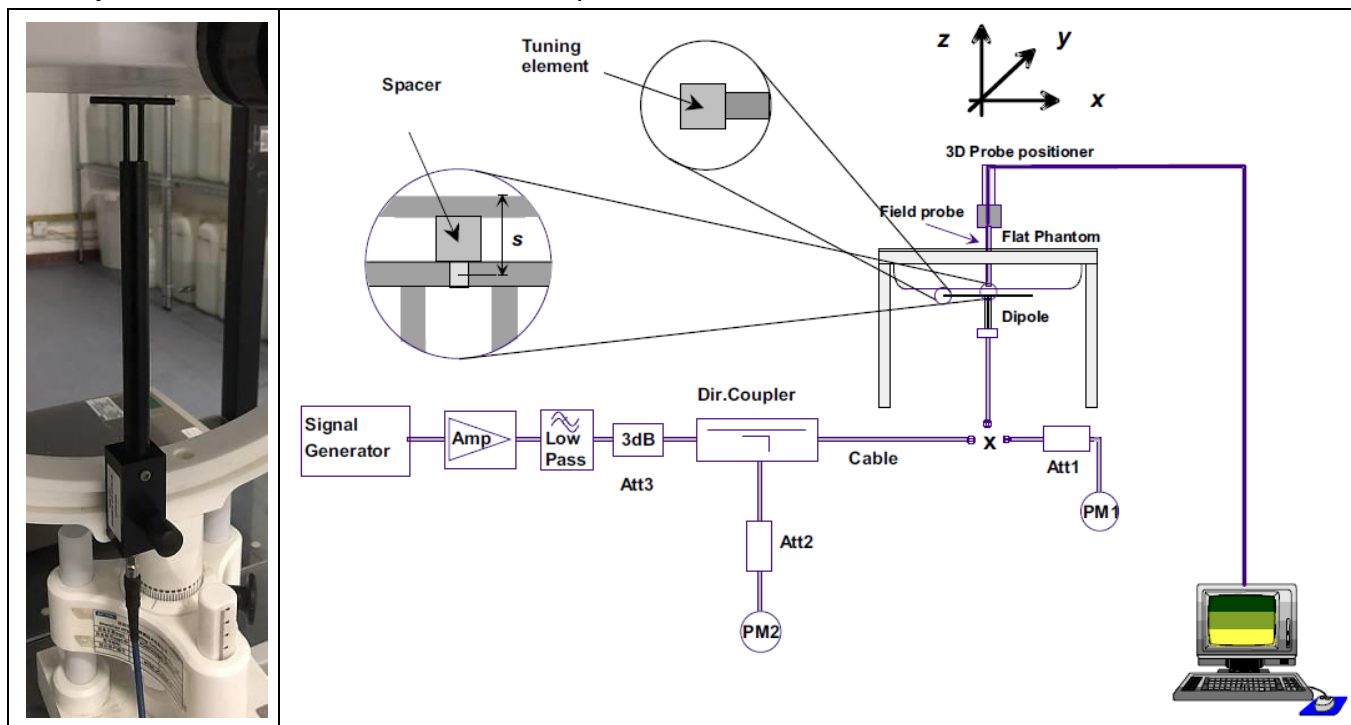
NOTE: 1. The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

2. Tested by : Max Zhou , Jack Peng

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. 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	Target SAR (1W)		Measured SAR			Measured SAR		Delta (%)		Liquid Temp.	Test Date
						(Normalized to 1W)					
	1-g (W/Kg)	10-g (W/Kg)	Input Power (mW)	1-g (W/Kg)	10-g (W/Kg)	1-g (W/Kg)	10-g (W/Kg)	1-g (%)	10-g (%)		
835MHz	9.40	6.28	100.00	0.97	0.59	9.66	5.86	2.77	-6.69	21.3 °C	Jul. 26, 2026
1900MHz	39.69	20.92	100.00	4.16	2.10	41.55	20.96	4.69	0.19	21.1 °C	Jul. 27, 2026
2450MHz	50.05	23.80	100.00	5.19	2.39	51.89	23.94	3.68	0.59	21.0 °C	Jul. 21, 2026
2600MHz	54.16	24.85	100.00	5.91	2.72	59.08	27.16	9.08	9.30	21.3 °C	Jul. 28, 2026
5200MHz	162.59	56.21	10.00	1.68	0.61	168.00	60.70	3.33	7.99	21.3 °C	Jul. 29, 2026
5400MHz	159.81	55.00	10.00	1.58	0.59	158.20	59.00	-1.01	7.27	21.1 °C	Jul. 20, 2026
5800MHz	182.20	61.32	10.00	1.91	0.67	190.70	66.70	4.67	8.77	21.3 °C	Jul. 30, 2026

NOTE: Tested by : Max Zhou, Jack Peng

5. SAR Measurement variability and uncertainty

5.1. 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 ($\sim 10\%$ 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 .

5.2. 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.

6. RF Exposure Positions

6.1. Tablet host platform exposure conditions

Refer to KDB616217 D04, when the modular approach is used, transmitters and modules must be initially tested for standalone operations in generic host conditions according to the following minimum test separation distance and antenna installation requirements for incorporation in the tablet platform. The separation distance required for incorporation in qualified hosts is described in KDB 447498; item 5) of section 4.1 and item 1) of section 5.2.2 etc.

- ≤ 5 mm between the antenna and user for both back surface and edge exposure conditions
- the antennas used by the host must have been tested for equipment approval or qualify for SAR test exclusion
- the antenna polarization, physical orientation, rotation and installation configurations used by the host must have been tested for compliance or qualify for test exclusion
- when the *SAR Test Exclusion Threshold* in KDB 447498 applies, a *test separation distance* of 5 mm is required to determine test exclusion for the tablet platform

The antennas embedded in tablets are typically ≤ 5 mm from the outer housing. The required antenna to user test separation distance is a “not to exceed test” distance required to apply the modular approach. Instead of the typical zero gap tablet edge test requirement between the edge of a tablet and the user, when an antenna has been tested at ≤ 5 mm according to the modular approach it can be incorporated into tablets with at least twice the tested distance from the outer housing of the tablet edge; otherwise, the tablet edge zero gap test requirement applies. When the dedicated host approach is applied, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom.

7. RF Output Power

7.1. GSM Conducted Power

Band GSM850	Burst-Averaged output Power (dBm)				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	32.50	32.41	32.20	23.97	23.47	23.38	23.17
GPRS(GMSK,1 Tx slot)	32.50	32.33	32.22	32.03	23.47	23.30	23.19	23.00
GPRS(GMSK,2 Tx slot)	32.00	31.65	31.57	31.36	25.98	25.63	25.55	25.34
GPRS(GMSK,3 Tx slot)	31.50	31.02	29.95	29.75	27.24	26.76	25.69	25.49
GPRS(GMSK,4 Tx slot)	29.00	28.93	28.85	28.67	25.99	25.92	25.84	25.66
EGPRS(8PSK,1 Tx slot)	23.50	22.63	23.12	22.77	14.47	13.60	14.09	13.74
EGPRS(8PSK,2 Tx slot)	22.50	21.55	22.04	21.95	16.48	15.53	16.02	15.93
EGPRS(8PSK,3 Tx slot)	20.50	19.83	20.30	20.16	16.24	15.57	16.04	15.90
EGPRS(8PSK,4 Tx slot)	19.50	18.96	19.47	19.21	16.49	15.95	16.46	16.20

7.2. WCDMA Conducted Power

WCDMA Band 5	Burst-Averaged output Power (dBm)			
Tx Channel	Tune-up (dBm)	4132	4182	4233
Frequency (MHz)		826.4	836.4	846.6
RMC12.2K	22.00	21.59	21.48	21.58
HSDPA Sub 1	21.00	20.71	20.64	20.70
HSDPA Sub 2	20.50	20.36	20.12	20.22
HSDPA Sub 3	19.50	18.98	19.20	19.32
HSDPA Sub 4	19.50	19.33	19.20	19.10
HSUPA Sub 1	21.00	19.79	20.45	20.55
HSUPA Sub 2	21.00	20.67	20.55	20.65
HSUPA Sub 3	19.50	19.18	19.18	19.25
HSUPA Sub 4	21.00	20.71	20.64	20.72
HSUPA Sub 5	20.50	19.11	19.72	20.35

7.3. LTE Conducted Power

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	22.50	22.05	21.99	21.91
			1	2	22.50	22.13	22.10	22.03
			1	5	22.50	22.05	21.99	21.90

				3	0	22.50	22.15	22.06	22.04
				3	1	22.50	22.18	22.09	22.06
				3	2	22.50	22.12	22.06	22.03
				6	0	21.50	21.18	21.08	21.11
			16QAM	1	0	21.50	21.29	21.28	21.14
				1	2	21.50	21.34	21.43	21.23
				1	5	21.50	21.28	21.28	21.24
				3	0	21.50	21.08	21.09	20.96
				3	1	21.50	21.18	21.10	21.05
				3	2	21.50	21.15	21.08	21.07
				6	0	20.50	20.27	20.20	20.19
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	22.50	22.07	22.02	22.00	
			1	7	22.50	22.05	22.02	21.94	
			1	14	22.50	22.00	22.00	21.95	
			8	0	21.50	21.12	21.06	21.02	
			8	4	21.50	21.18	21.08	21.07	
			8	7	21.50	21.12	21.05	21.03	
			15	0	21.50	21.14	21.05	21.07	
		16QAM	1	0	21.50	21.30	21.26	21.26	
			1	7	21.50	21.32	21.26	21.24	
			1	14	21.50	21.27	21.30	21.25	
			8	0	20.50	20.19	20.16	20.10	
			8	4	20.50	20.22	20.17	20.14	
			8	7	20.50	20.19	20.13	20.12	
			15	0	20.50	20.13	20.07	20.09	
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	22.50	22.01	21.97	21.94	
			1	12	22.50	22.00	22.04	21.97	
			1	24	22.50	21.91	21.91	21.89	
			12	0	21.50	21.07	21.08	21.06	
			12	6	21.50	21.14	21.10	21.09	
			12	11	21.50	21.08	21.01	21.06	

			25	0	21.50	21.09	21.07	21.05
			1	0	21.50	21.32	21.19	21.30
			1	12	21.50	21.35	21.34	21.16
			1	24	21.50	21.14	21.21	21.09
			12	0	20.50	20.05	20.10	20.05
			12	6	20.50	20.13	20.11	20.08
			12	11	20.50	20.08	20.05	20.07
			25	0	20.50	20.08	20.06	20.08
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	22.50	22.09	22.04	22.05
			1	24	22.50	22.08	22.10	22.12
			1	49	22.50	21.99	21.99	21.94
			25	0	21.50	21.06	21.19	21.17
			25	12	21.50	21.10	21.11	21.15
			25	24	21.50	21.06	21.08	21.15
			50	0	21.50	21.10	21.13	21.16
		16QAM	1	0	21.50	21.29	21.40	21.35
			1	24	21.50	21.40	21.49	21.41
			1	49	21.50	21.39	21.37	21.21
			25	0	20.50	20.06	20.20	20.20
			25	12	20.50	20.10	20.12	20.16
			25	24	20.50	20.07	20.10	20.15
			50	0	20.50	20.09	20.16	20.17

Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40265/255.7.5	40320/2563	40740/2605	41215/2652.5
LTE Band 41	5MHz	QPSK	1	0	20.00	19.13	19.28	19.49	19.59
			1	12	20.00	19.23	19.26	19.56	19.66
			1	24	20.00	19.08	19.15	19.53	19.55
			12	0	19.00	18.2	18.47	18.48	18.67
			12	6	19.00	18.19	18.31	18.53	18.64
			12	11	19.00	18.13	18.22	18.55	18.55

			25	0	19.00	18.13	18.61	18.58	18.62
		16QAM	1	0	19.00	18.31	18.52	18.66	18.79
			1	12	19.00	18.41	18.39	18.77	18.86
			1	24	19.00	18.27	18.45	18.73	18.79
			12	0	18.00	17.2	17.47	17.5	17.69
			12	6	18.00	17.19	17.69	17.6	17.68
			12	11	18.00	17.13	17.37	17.53	17.59
			25	0	18.00	17.17	17.49	17.59	17.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40290/2560	40320/2563	40740/2605	41190/2650
LTE Band 41	10MHz	QPSK	1	0	20.00	19.24	19.29	19.55	19.72
			1	24	20.00	19.34	19.48	19.7	19.8
			1	49	20.00	19.19	19.72	19.63	19.62
			25	0	19.00	18.26	18.18	18.53	18.73
			25	12	19.00	18.26	18.28	18.69	18.7
			25	24	19.00	18.11	18.69	18.62	18.61
			50	0	19.00	18.23	18.28	18.61	18.65
		16QAM	1	0	19.00	18.46	18.52	18.78	18.94
			1	24	19.00	18.49	18.69	18.9	18.98
			1	49	19.00	18.4	18.66	18.82	18.83
			25	0	18.00	17.29	17.3	17.57	17.78
			25	12	18.00	17.27	17.49	17.73	17.73
			25	24	18.00	17.16	17.75	17.64	17.63
			50	0	18.00	17.29	17.53	17.68	17.74
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)			
			RB Size	RB Offset		40315/2562.5	40320/2563	40740/2605	41165/2647.5
LTE Band 41	15MHz	QPSK	1	0	20.00	19.13	19.7	19.41	19.64
			1	37	20.00	19.26	19.23	19.6	19.71
			1	74	20.00	19.16	19.56	19.5	19.48
			36	0	19.00	18.21	18.16	18.49	18.69
			36	18	19.00	18.2	18.5	18.62	18.68

			16QAM	36	37	19.00	18.14	18.5	18.52	18.55
				75	0	19.00	18.18	18.62	18.55	18.63
				1	0	19.00	18.32	18.42	18.62	18.84
				1	37	19.00	18.42	18.55	18.8	18.91
				1	74	19.00	18.34	18.5	18.69	18.68
				36	0	18.00	17.2	17.09	17.47	17.69
				36	18	18.00	17.17	17.47	17.59	17.65
				36	37	18.00	17.09	17.48	17.57	17.53
				75	0	18.00	17.22	17.59	17.59	17.66
Band	Band Width	Modulation	RB Configuration		Tune-up (dBm)	Channel/Frequency(MHz)				
			RB Size	RB Offset		40340/2565	40320/2563	40740/2605	41140/2645	
LTE Band 41	20MHz	QPSK	1	0	20.00	18.98	19.64	19.24	19.48	
			1	49	20.00	19.24	19.16	19.66	19.8	
			1	99	20.00	19.06	19.04	19.33	19.31	
			50	0	19.00	18.39	18.73	18.51	18.77	
			50	24	19.00	18.26	18.49	18.54	18.71	
			50	49	19.00	18.22	18.49	18.65	18.53	
			100	0	19.00	18.33	18.48	18.62	18.68	
		16QAM	1	0	19.50	18.17	18.75	18.47	18.68	
			1	49	19.50	18.47	18.64	18.91	19.03	
			1	99	19.50	18.26	18.95	18.53	18.54	
			50	0	18.00	17.44	17.53	17.57	17.78	
			50	24	18.00	17.33	17.68	17.61	17.7	
			50	49	18.00	17.28	17.45	17.61	17.58	
			100	0	18.00	17.35	17.67	17.66	17.73	

7.4. WLAN & Bluetooth Output Power

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11b	1	2412	14.50	13.65
	6	2437	14.50	14.01
	11	2462	14.50	13.14
802.11g	1	2412	12.00	10.97
	6	2437	12.00	11.61
	11	2462	12.00	10.74
802.11n HT20	1	2412	12.50	11.42
	6	2437	12.50	12.30
	11	2462	12.50	11.36
802.11n HT40	3	2422	12.50	12.06
	6	2437	12.50	12.01
	9	2452	12.50	12.02

NOTE: Power measurement results of WLAN 2.4G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	36	5180	11.00	10.41
	40	5200	11.00	10.75
	48	5240	11.00	10.66
802.11n HT20	36	5180	11.00	10.23
	40	5200	11.00	10.25
	48	5240	11.00	11.00
802.11n HT40	38	5190	11.00	10.90
	46	5230	11.00	10.68
802.11ac VHT20	36	5180	12.00	10.32
	40	5200	12.00	11.01
	48	5240	12.00	11.63
802.11ac VHT40	38	5190	11.50	10.70
	46	5230	11.50	11.35
802.11ac VHT80	42	5210	11.50	11.20

NOTE: Power measurement results of WLAN 5.2G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	52	5260	11.50	10.86

	56	5280	11.50	10.84
	64	5320	11.50	11.03
802.11n HT20	52	5260	11.00	10.62
	56	5280	11.00	10.84
	64	5320	11.00	10.95
802.11n HT40	54	5270	11.00	10.98
	62	5310	11.00	10.50
802.11ac VHT20	52	5260	11.00	10.86
	56	5280	11.00	10.65
	64	5320	11.00	10.67
802.11ac VHT40	54	5270	11.00	10.67
	62	5310	11.00	10.91
802.11ac VHT80	58	5290	11.00	10.84

NOTE: Power measurement results of WLAN 5.3G.

Mode	Channel	Frequency (MHz)	Tune-up (dBm)	Output Power (dBm)
802.11a	149	5745	11.50	10.42
	157	5785	11.50	11.00
	165	5825	11.50	11.03
802.11n HT20	149	5745	11.00	10.40
	157	5785	11.00	10.84
	165	5825	11.00	10.98
802.11n HT40	151	5755	11.50	10.63
	159	5795	11.50	11.10
802.11ac VHT20	149	5745	11.00	10.43
	157	5785	11.00	10.82
	165	5825	11.00	10.69
802.11ac VHT40	151	5755	11.00	10.49
	159	5795	11.00	10.90
802.11ac VHT80	155	5775	11.50	11.10

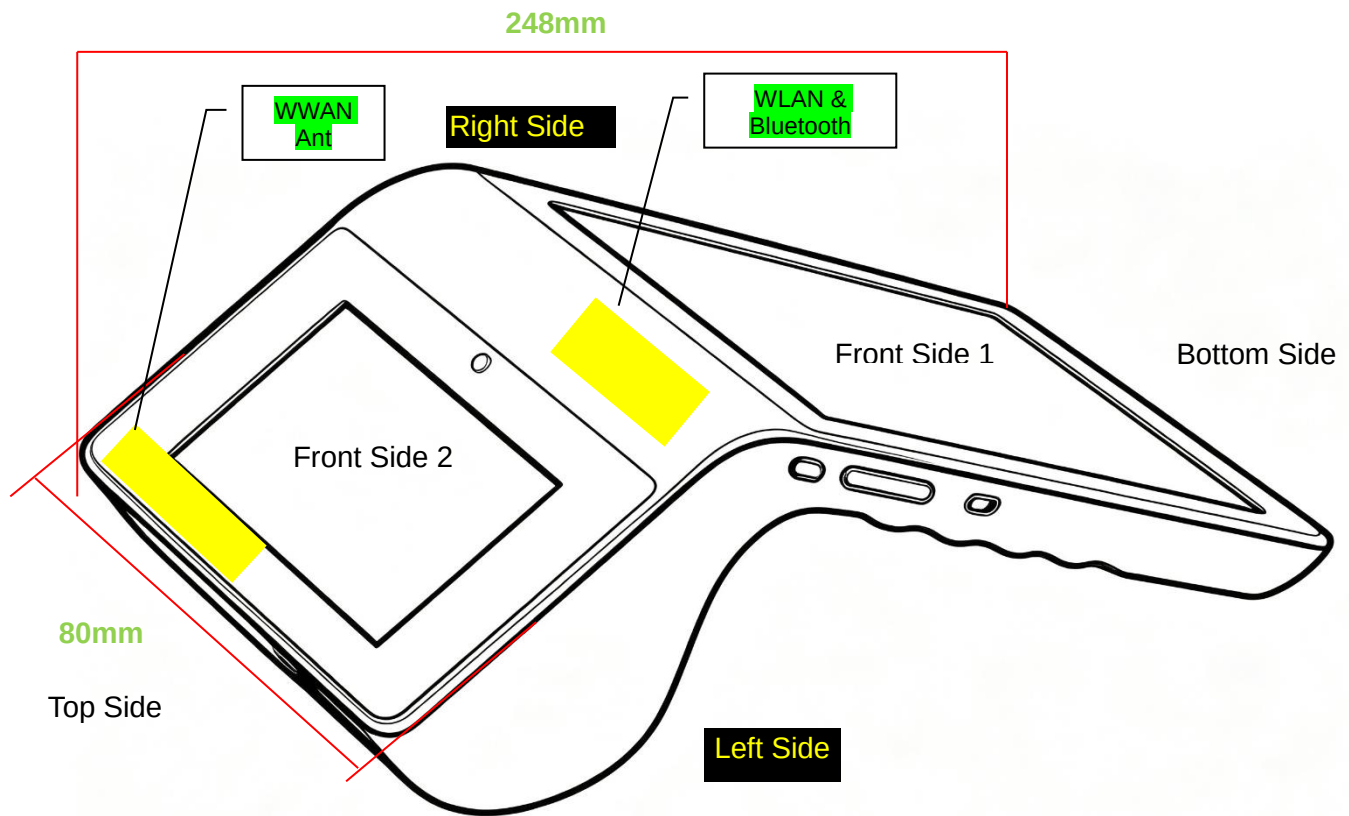
NOTE: Power measurement results of WLAN 5.8G.

7.4.1. Output Power Results Of Bluetooth

BR+EDR	Output Power (dBm)				
	Channel	Tune-up (dBm)	Data Rates		
			1M	2M	3M
	0CH	2.00	1.95	1.48	1.49
	39CH	2.50	2.09	1.40	1.40
	78CH	4.00	3.68	3.19	3.22

BLE	Output Power (dBm)				
	Data Rates	Tune-up (dBm)	Channe		
			0CH	19CH	39CH
	1M	-5.00	-5.11	-5.60	-7.09
	2M	-5.00	-5.09	-5.15	-7.06

8. Antenna Location



Note: Since the confidentiality request of EUT, the antenna location example diagram see as above.

Distance of the Antenna to the EUT surface/edge							
Antennas	Front Side 1	Front Side 2	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN ANT	>25mm	≤ 25mm	>25mm	>25mm	≤ 25mm	≤ 25mm	>25mm
WLAN & Bluetooth ANT	≤ 25mm	≤ 25mm	>25mm	≤ 25mm	>25mm	>25mm	>25mm
Positions for SAR tests							
Antennas	Front Side 1	Front Side 2	Back Side	Left Side	Right Side	Top Side	Bottom Side
WWAN ANT	NO	YES	NO	NO	YES	YES	NO
WLAN & Bluetooth ANT	YES	YES	NO	YES	NO	NO	NO

9. 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	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	Calculation Result	SAR exclusion threshold	SAR test exclusion
Bluetooth	4.00	2.512	5	2.480	0.791	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:

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

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

Mode	Position	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	Estimated SAR (W/Kg)
Bluetooth	Body	4.00	2.512	5	2.48	7.5	0.105
Bluetooth	Hotspot	4.00	2.512	5	2.48	7.5	0.105

NOTE: Estimated SAR calculation for Bluetooth

NFC:

Mode	P_{max} (dBm)	P_{max} (mW)	Distance (mm)	f (GHz)	x	SAR (W/Kg)
NFC	-29.40	0.00	5	0.01356	7.5	0

10. SAR Results

10.1. SAR measurement results

10.1.1. SAR measurement Result of GSM850

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test 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	128/824.2	GPRS(GMSK 3TS)	0.126	0.093	-3.08	31.02	31.50	0.141	2026/7/26	

NOTE: Body-Worn SAR test results of GSM850

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side 2	128/824.2	GPRS(GMSK 3TS)	0.126	0.093	-3.08	31.02	31.50	0.141	2026/7/26	
Right Side	128/824.2	GPRS(GMSK 3TS)	0.180	0.128	-2.67	31.02	31.50	0.201	2026/7/26	
Top Side	128/824.2	GPRS(GMSK 3TS)	0.311	0.231	0.45	31.02	31.50	0.347	2026/7/26	1#

NOTE: 1.Hotspot SAR test results of GSM850

2. Tested by : Max Zhou

10.1.2. SAR measurement Result of WCDMA850

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test 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	4182/836.4	RMC12.2K	0.088	0.054	0.48	21.48	22.00	0.099	2026/7/26	

NOTE: Body-Worn SAR test results of WCDMA Band 5

Test Position of Hotspot with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side 2	4182/836.4	RMC12.2K	0.088	0.054	0.48	21.48	22.00	0.099	2026/7/26	
Right Side	4182/836.4	RMC12.2K	0.120	0.075	-3.02	21.48	22.00	0.135	2026/7/26	
Top Side	4182/836.4	RMC12.2K	0.217	0.139	-3.91	21.48	22.00	0.245	2026/7/26	2#

NOTE: 1.Hotspot SAR test results of WCDMA Band 5

2.Tested by : Max Zhou

10.1.3. SAR measurement Result of LTE Band 5

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	20525/836.5	10M QPSK(1,24)	0.077	0.036	-3.86	22.10	22.50	0.084	2026/7/26	
50%RB										
Front Side	20525/836.5	10M QPSK(25,0)	0.042	0.021	4.29	21.19	21.50	0.045	2026/7/26	

NOTE: 1.Body-Worn SAR test results of LTE Band 5

2.Tested by : Max Zhou

Test Position of Hotspot 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 2	20525/836.5	10M QPSK(1,24)	0.077	0.036	-3.86	22.10	22.50	0.084	2026/7/26	
Right Side	20525/836.5	10M QPSK(1,24)	0.090	0.042	2.50	22.10	22.50	0.099	2026/7/26	
Top Side	20525/836.5	10M QPSK(1,24)	0.179	0.086	3.89	22.10	22.50	0.196	2026/7/26	7#
50%RB										
Front Side 2	20525/836.5	10M QPSK(25,0)	0.042	0.021	4.29	21.19	21.50	0.045	2026/7/26	
Right Side	20525/836.5	10M QPSK(25,0)	0.045	0.022	2.45	21.19	21.50	0.048	2026/7/26	
Top Side	20525/836.5	10M QPSK(25,0)	0.099	0.045	-4.01	21.19	21.50	0.106	2026/7/26	

NOTE: 1.Hotspot SAR test results of LTE Band 5
2.Tested by : Max Zhou

10.1.4. SAR measurement Result of LTE Band 41

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
1RB										
Front Side	40740/2605	20M QPSK(1,49)	0.056	0.023	1.18	19.66	20.00	0.061	2026/7/28	
50%RB										
Front Side	40740/2605	20M QPSK(50,49)	0.029	0.013	2.53	18.65	19.00	0.031	2026/7/28	

NOTE: 1.Body-Worn SAR test results of LTE Band 41
2.Tested by : Max Zhou

Test Position of Hotspot 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 2	40740/2605	20M QPSK(1,49)	0.056	0.023	1.18	19.66	20.00	0.061	2026/7/28	
Right Side	40740/2605	20M QPSK(1,49)	0.224	0.092	2.96	19.66	20.00	0.242	2026/7/28	
Top Side	40740/2605	20M QPSK(1,49)	0.673	0.291	0.76	19.66	20.00	0.728	2026/7/28	8#
50%RB										
Front Side 2	40740/2605	20M QPSK(50,49)	0.029	0.013	2.53	18.65	19.00	0.031	2026/7/28	
Right Side	40740/2605	20M QPSK(50,49)	0.115	0.047	4.33	18.65	19.00	0.125	2026/7/28	
Top Side	40740/2605	20M QPSK(50,49)	0.399	0.172	1.54	18.65	19.00	0.432	2026/7/28	

NOTE: 1.Hotspot SAR test results of LTE Band 41
2.Tested by : Max Zhou

10.1.5. SAR measurement Result of WLAN 2.4G

Test Position of Body-Worn with 0mm	Test channel /Freq.	Test Mode	SAR Value (W/kg)		Power Drift (±5%)	Conducted power (dBm)	Tune-up power (dBm)	Scaled SAR 1g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side 1	6/2437	802.11b	0.600	0.249	-1.63	14.01	14.50	0.672	2026/7/21	6#

NOTE: 1.Body-Worn SAR test results of WLAN 2.4G
2. Tested by : Max Zhou

Test Position of Hotspot 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 1	6/2437	802.11b	0.600	0.249	-1.63	14.01	14.50	0.672	2026/7/21	6#
Front Side 2	6/2437	802.11b	0.315	0.125	-0.08	14.01	14.50	0.353	2026/7/21	
Left Side	6/2437	802.11b	0.412	0.201	-1.39	14.01	14.50	0.461	2026/7/21	

NOTE:1. Hotspot SAR test results of WLAN 2.4G
2.Tested by : Max Zhou

10.1.6. SAR measurement Result of WLAN 5.2G

Test Position of Body-Worn 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 1	48/5240	802.11ac VHT20	0.486	0.143	-3.30	11.63	12.00	0.529	2026/7/29	3#
Front Side 2	48/5240	802.11ac VHT20	0.104	0.030	2.07	11.63	12.00	0.113	2026/7/29	

NOTE: 1.Body-Worn SAR test results of WLAN 5.2G
2.Tested by : Max Zhou

Test Position of Hotspot 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 1	48/5240	802.11ac VHT20	0.486	0.143	-3.30	11.63	12.00	0.529	2026/7/29	3#
Front Side 2	48/5240	802.11ac VHT20	0.104	0.030	2.07	11.63	12.00	0.113	2026/7/29	
Left Side	48/5240	802.11ac VHT20	0.123	0.046	-1.64	11.63	12.00	0.134	2026/7/29	

NOTE: 1.Hotspot SAR test results of WLAN 5.2G

2.Tested by : Max Zhou

10.1.7. SAR measurement Result of WLAN 5.3G

Test Position of Body-Worn 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 1	56/5280	802.11a	0.493	0.149	0.95	10.84	11.50	0.574	2026/7/20	4#
Front Side 2	56/5280	802.11a	0.110	0.033	1.90	10.84	11.50	0.128	2026/7/20	

NOTE: 1.Body-Worn SAR test results of WLAN 5.3G

2.Tested by : Max Zhou

Test Position of Hotspot 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 1	56/5280	802.11a	0.493	0.149	0.95	10.84	11.50	0.574	2026/7/20	4#
Front Side 2	56/5280	802.11a	0.110	0.033	1.90	10.84	11.50	0.128	2026/7/20	
Left Side	56/5280	802.11a	0.136	0.048	2.41	10.84	11.50	0.158	2026/7/20	

NOTE: 1.Hotspot SAR test results of WLAN 5.3G

2.Tested by : Max Zhou

10.1.8. SAR measurement Result of WLAN 5.8G

Test Position of Body-Worn 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 1	155/5775	802.11ac VHT80	0.544	0.162	0.43	11.10	11.50	0.596	2026/7/30	5#
Front Side 2	155/5775	802.11ac VHT80	0.125	0.035	1.34	11.10	11.50	0.137	2026/7/30	

NOTE:1. Body-Worn SAR test results of WLAN 5.8G

2.Tested by : Max Zhou

Test Position of Hotspot with 0mm	Test channel /Freq	Mode	SAR Value (W/kg)		Power Drift(%)	Conducte d Power (dBm)	Tune-up Power (dBm)	Scaled SAR 1-g (W/Kg)	Date	Plot
			1-g	10-g						
Front Side 1	155/5775	802.11ac VHT80	0.544	0.162	0.43	11.10	11.50	0.596	2026/7/30	5#
Front Side 2	155/5775	802.11ac VHT80	0.125	0.035	1.34	11.10	11.50	0.137	2026/7/30	

Left Side	155/57 75	802.11ac VHT80	0.148	0.051	1.62	11.10	11.50	0.162	2026/7/30	
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NOTE: 1.Hotspot SAR test results of WLAN 5.8G
2.Tested by : Max Zhou

10.2. SAR Summation Scenario

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

- Scalar SAR summation $< 1.6\text{W/kg}$.
- $\text{SPLSR} = (\text{SAR}_1 + \text{SAR}_2)^{1.5} / (\text{min. separation distance, mm})$, 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 $\text{SPLSR} \leq 0.04$, simultaneously transmission SAR measurement is not necessary.

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DTS			
Hotspot	Front Side 1	0.141	0.672	0.813	N/A	N/A
	Front Side 2	N/A	0.353	0.353	N/A	N/A
	Back Side	0.254	N/A	0.254	N/A	N/A
Body	Front Side	0.141	0.672	0.813	N/A	N/A
	Back Side	N/A	0.353	0.353	N/A	N/A
	Left Side	0.254	N/A	0.254	N/A	N/A
	Right Side	N/A	0.461	0.461	N/A	N/A
	Top Side	0.242	N/A	0.242	N/A	N/A
	Bottom Side	0.728	N/A	0.728	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	NII			
Hotspot	Front Side 1	0.141	0.596	0.737	N/A	N/A
	Front Side 2	N/A	0.137	0.137	N/A	N/A
	Back Side	0.254	N/A	0.254	N/A	N/A
Body	Front Side	0.141	0.596	0.737	N/A	N/A
	Back Side	N/A	0.137	0.137	N/A	N/A
	Left Side	0.254	N/A	0.254	N/A	N/A
	Right Side	N/A	0.162	0.162	N/A	N/A
	Top Side	0.242	N/A	0.242	N/A	N/A
	Bottom Side	0.728	N/A	0.728	N/A	N/A

Test Position		Scaled SAR _{MAX}		Σ 1-g SAR (W/Kg)	SPLSR	Remark
		WWAN	DSS			
Hotspot	Front Side 1	0.141	0.105	0.246	N/A	N/A
	Front Side 2	N/A	0.105	0.105	N/A	N/A
	Back Side	0.254	N/A	0.254	N/A	N/A
Body	Front Side	0.141	0.105	0.246	N/A	N/A
	Back Side	N/A	0.105	0.105	N/A	N/A
	Left Side	0.254	N/A	0.254	N/A	N/A
	Right Side	N/A	0.105	N/A	N/A	N/A
	Top Side	0.242	N/A	0.242	N/A	N/A
	Bottom Side	0.728	N/A	0.728	N/A	N/A

11. Appendix A. Photo documentation

Refer to appendix Test Setup photo---SAR

12. Appendix B. System Check Plots

Table of contents
1# System check at 835 MHz
2# System check at 1900 MHz
3# System check at 2450 MHz
4# System check at 2600 MHz
5# System check at 5200 MHz
6# System check at 5400 MHz
7# System check at 5800 MHz

1# System check at 835 MHz
Date of measurement: 26/7/2026

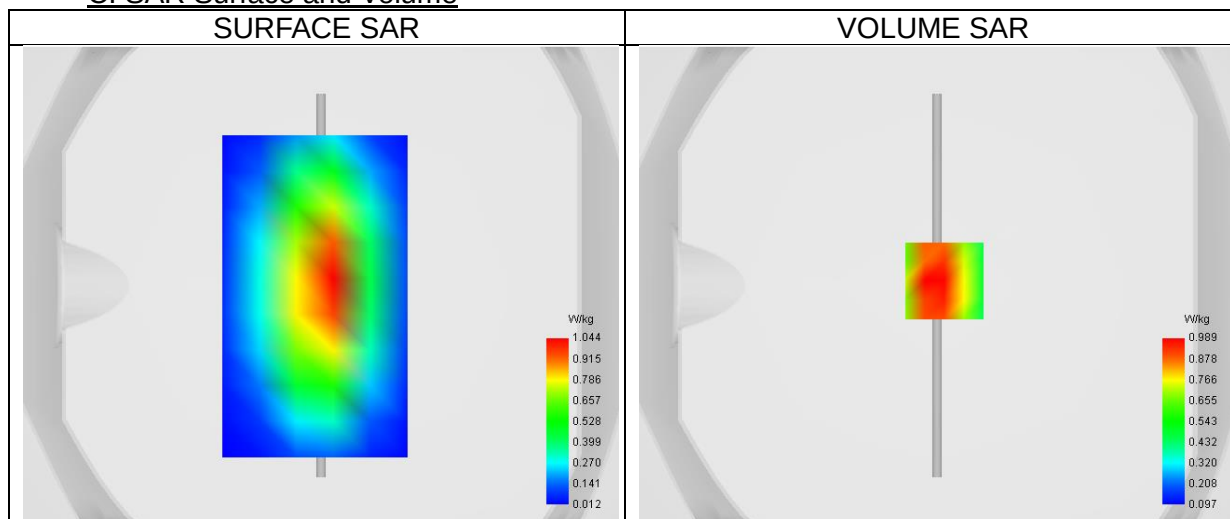
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.32
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	CW835
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	835.00
Relative permittivity (real part)	41.88
Relative permittivity (imaginary part)	19.97
Conductivity (S/m)	0.93

C. SAR Surface and Volume



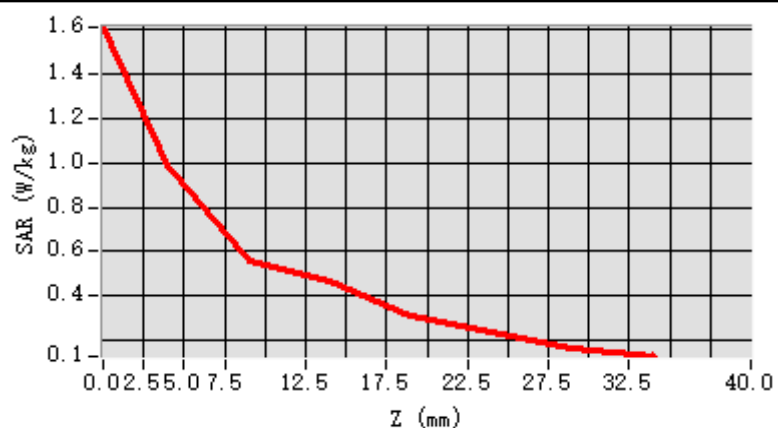
Maximum location: X=3.00, Y=2.00 ; SAR Peak: 1.43 W/kg

D. SAR 1g & 10g

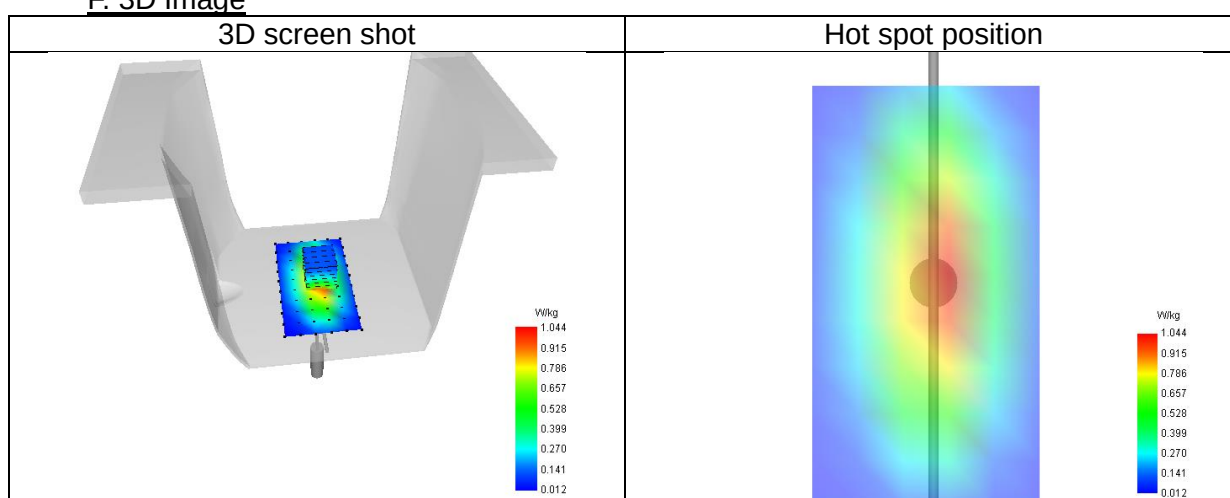
SAR 10g (W/Kg)	0.586
SAR 1g (W/Kg)	0.966
Variation (%)	-0.32
Horizontal validation criteria: minimum distance (mm)	24.00
Vertical validation criteria: SAR ratio M2/M1 (%)	68.32

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.608	0.989	0.561	0.470	0.309	0.238	0.169



F. 3D Image



2# System check at 1900 MHz
Date of measurement: 27/7/2026

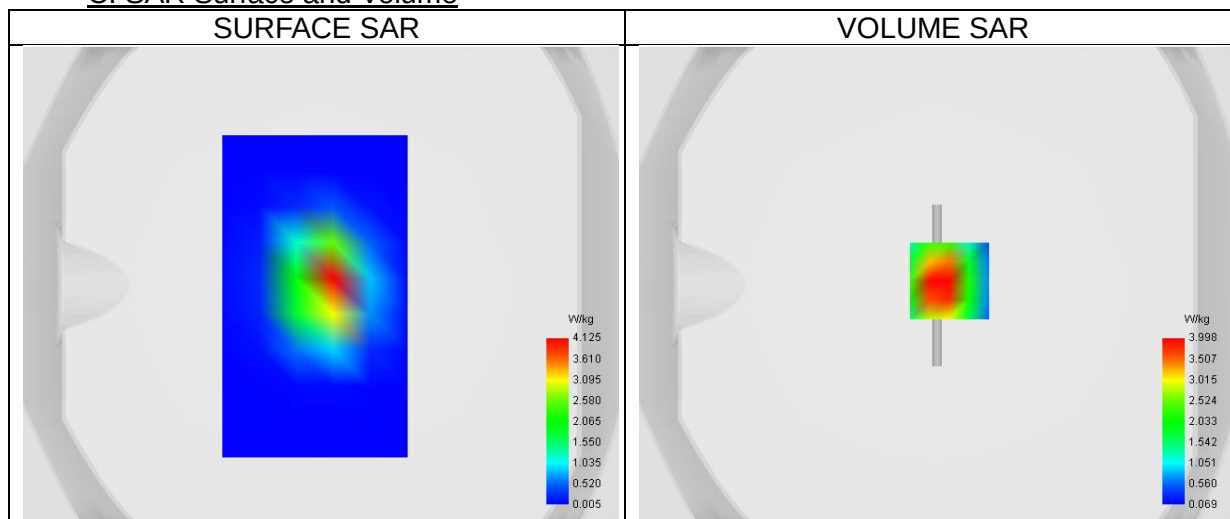
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.63
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	CW1900
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	1900.00
Relative permittivity (real part)	38.99
Relative permittivity (imaginary part)	13.79
Conductivity (S/m)	1.46

C. SAR Surface and Volume



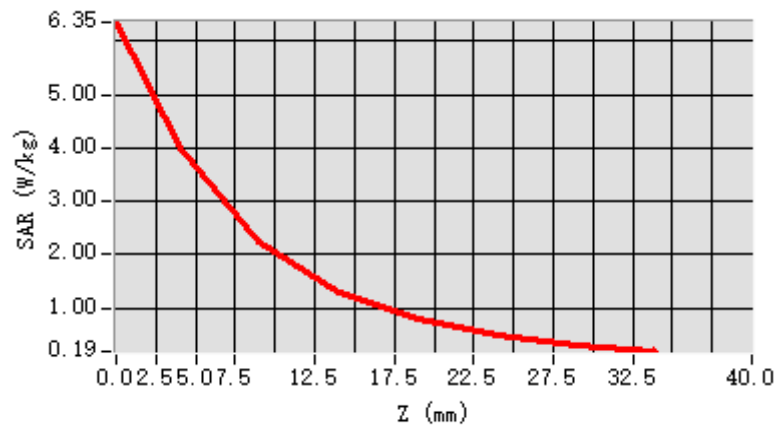
Maximum location: X=5.00, Y=2.00 ; SAR Peak: 6.81 W/kg

D. SAR 1g & 10g

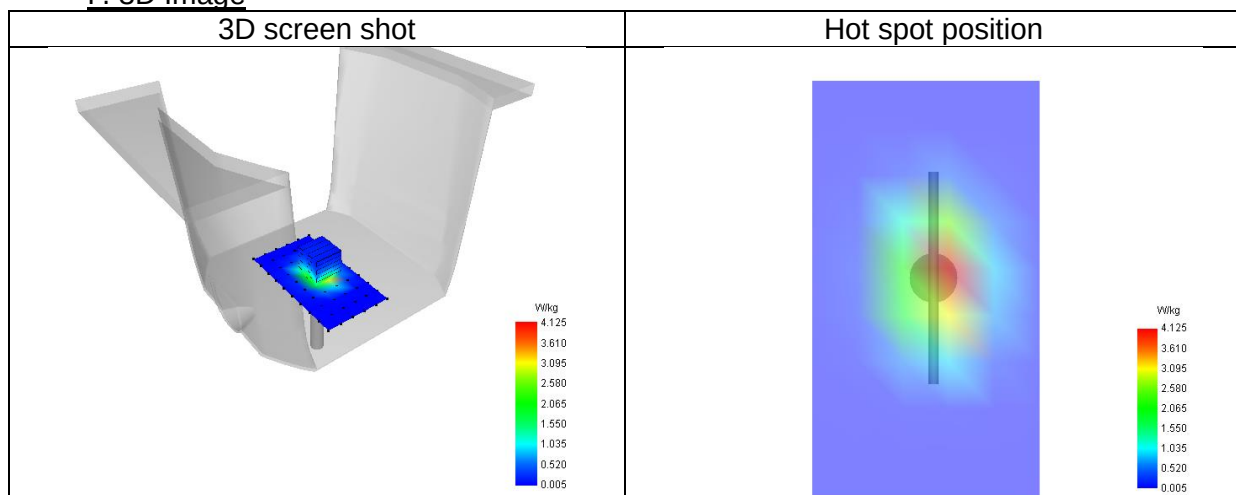
SAR 10g (W/Kg)	2.096
SAR 1g (W/Kg)	4.155
Variation (%)	0.29
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	57.86

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	6.354	3.998	2.225	1.288	0.810	0.487	0.304



F. 3D Image



3# System check at 2450 MHz
Date of measurement: 21/7/2026

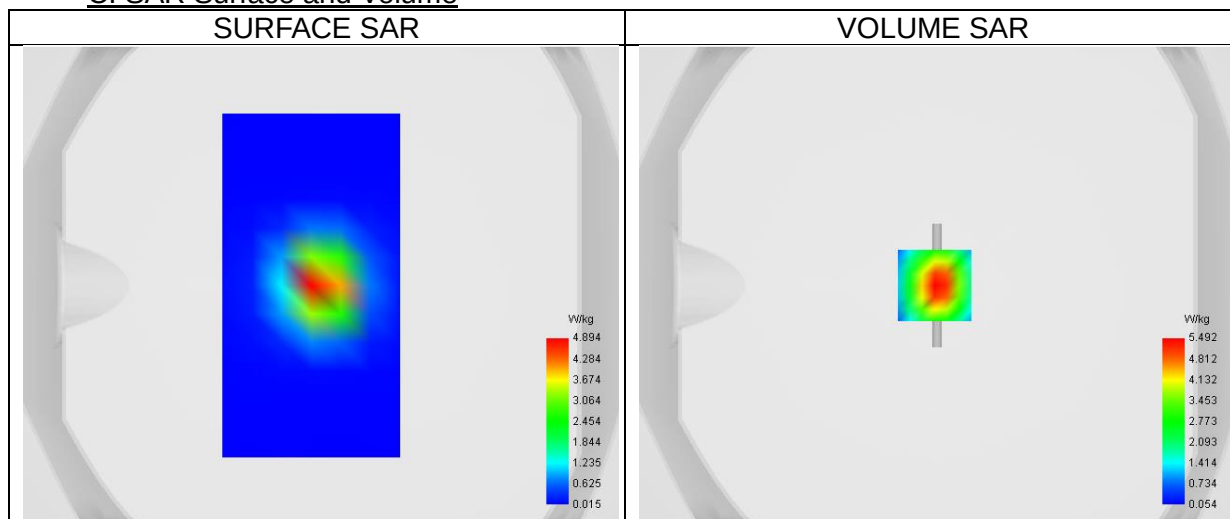
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.85
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
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2450.00
Relative permittivity (real part)	40.27
Relative permittivity (imaginary part)	13.34
Conductivity (S/m)	1.82

C. SAR Surface and Volume



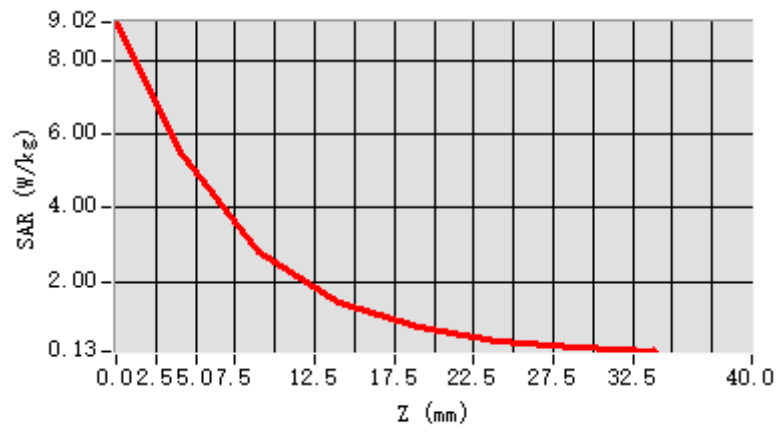
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 9.06 W/kg

D. SAR 1g & 10g

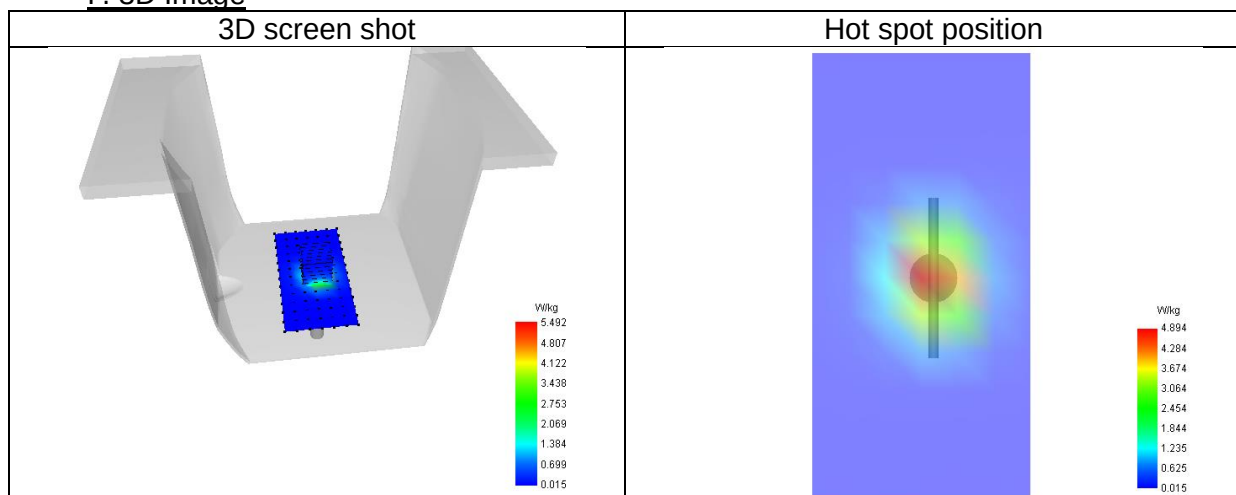
SAR 10g (W/Kg)	2.394
SAR 1g (W/Kg)	5.189
Variation (%)	0.01
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	51.42

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.021	5.492	2.824	1.458	0.770	0.412	0.225



F. 3D Image



4# System check at 2600 MHz
Date of measurement: 28/7/2026

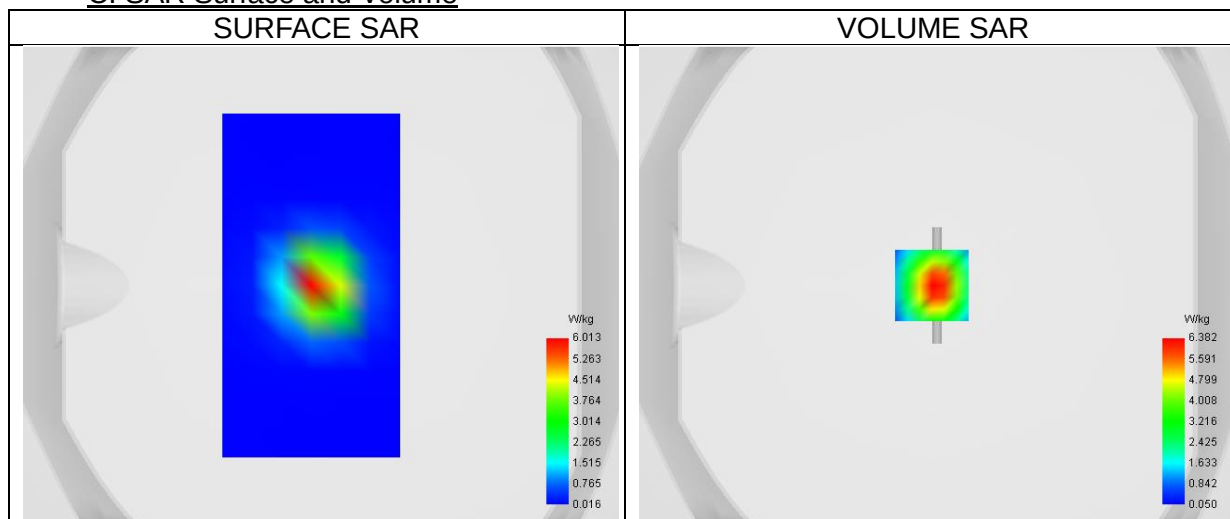
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.65
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
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	2600.00
Relative permittivity (real part)	39.21
Relative permittivity (imaginary part)	13.73
Conductivity (S/m)	1.98

C. SAR Surface and Volume



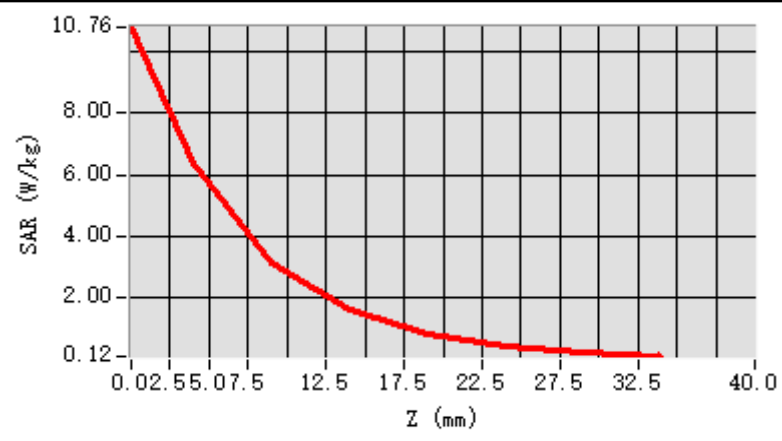
Maximum location: X=-2.00, Y=0.00 ; SAR Peak: 10.80 W/kg

D. SAR 1g & 10g

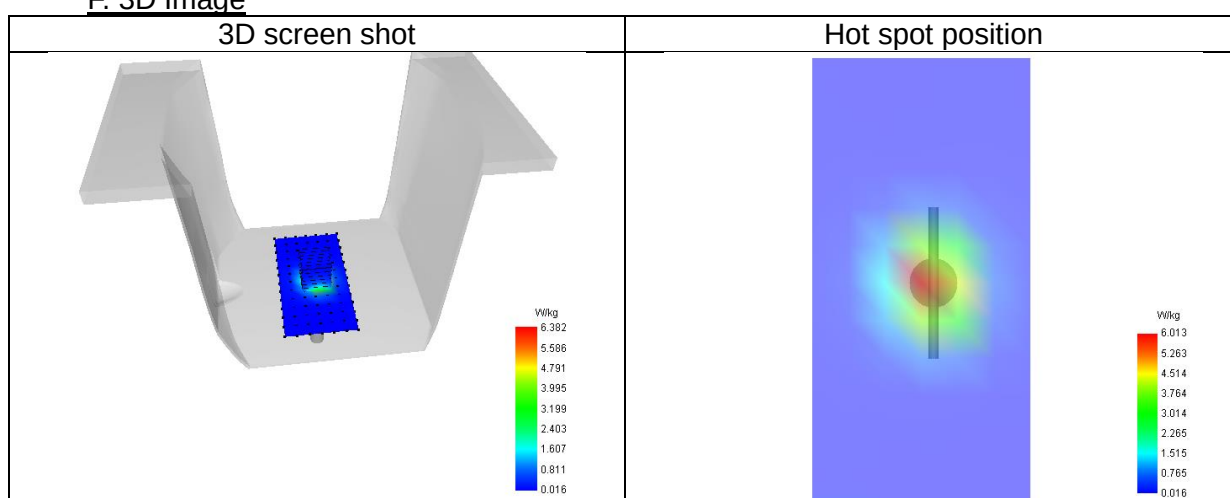
SAR 10g (W/Kg)	2.716
SAR 1g (W/Kg)	5.908
Variation (%)	-1.62
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	49.35

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	10.761	6.382	3.150	1.618	0.827	0.427	0.227



F. 3D Image



5# System check at 5200 MHz
Date of measurement: 29/7/2026

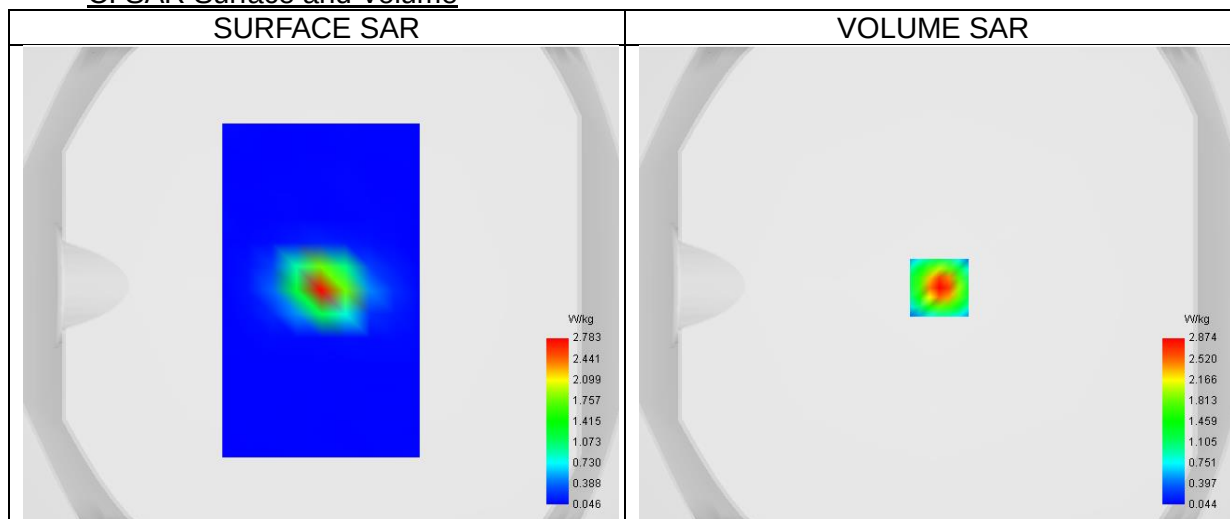
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.07
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5200.00
Relative permittivity (real part)	36.36
Relative permittivity (imaginary part)	15.79
Conductivity (S/m)	4.56

C. SAR Surface and Volume



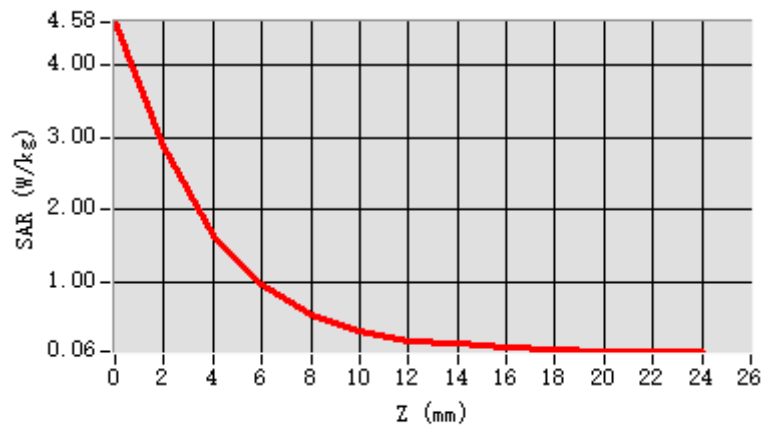
Maximum location: X=1.00, Y=-1.00 ; SAR Peak: 4.72 W/kg

D. SAR 1g & 10g

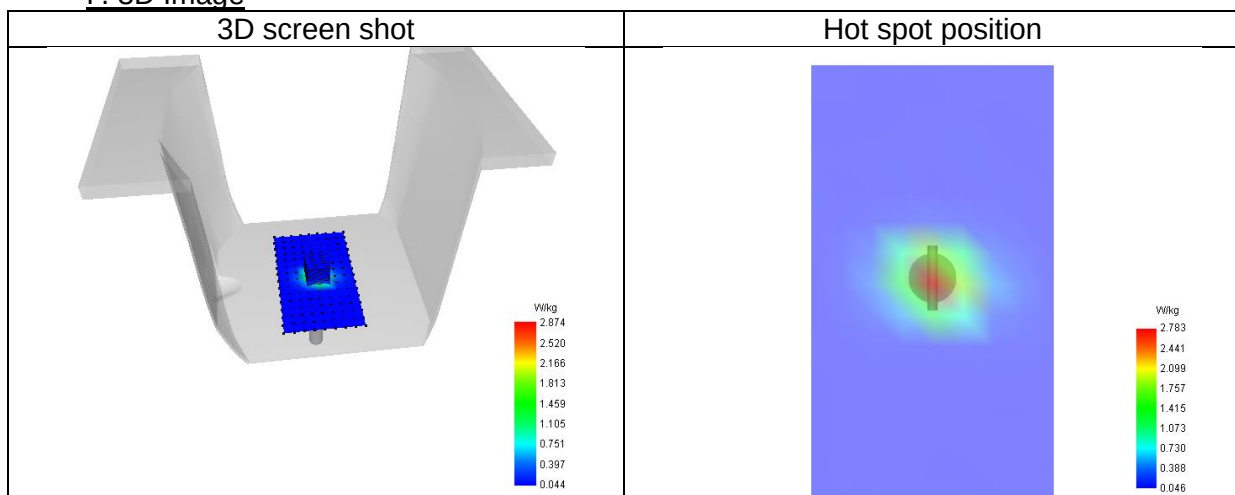
SAR 10g (W/Kg)	0.607
SAR 1g (W/Kg)	1.680
Variation (%)	-0.77
Horizontal validation criteria: minimum distance (mm)	11.31
Vertical validation criteria: SAR ratio M2/M1 (%)	57.34

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.57	2.87	1.64	0.97	0.56	0.33	0.21	0.16	0.11	0.09	0.07	0.06
	8	4	8	3	4	9	3	3	1	0	6	2



F. 3D Image



6# System check at 5400 MHz
Date of measurement: 20/7/2026

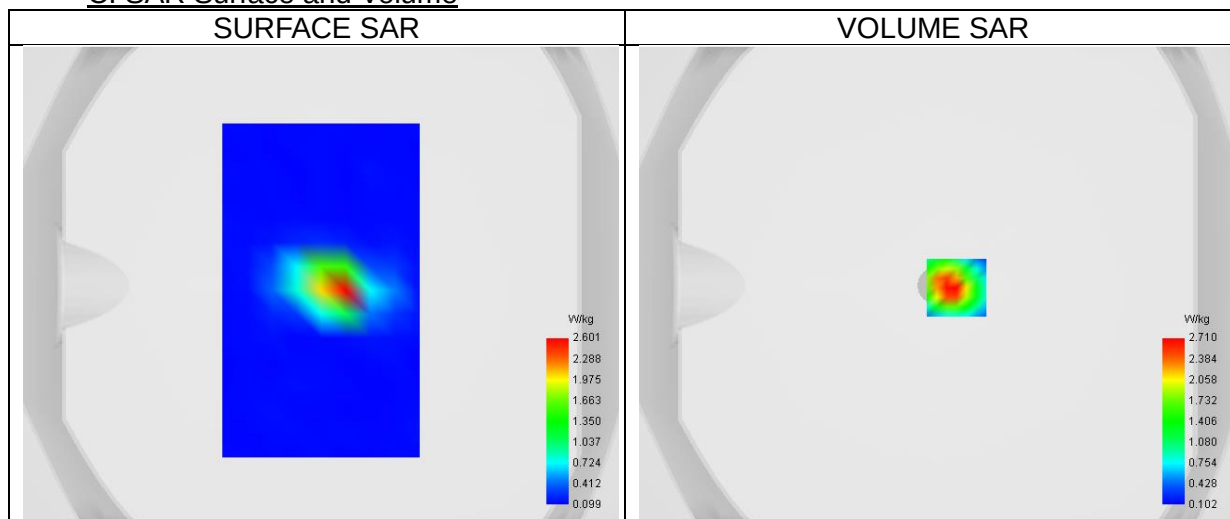
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.20
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5400.00
Relative permittivity (real part)	34.22
Relative permittivity (imaginary part)	16.02
Conductivity (S/m)	4.80

C. SAR Surface and Volume



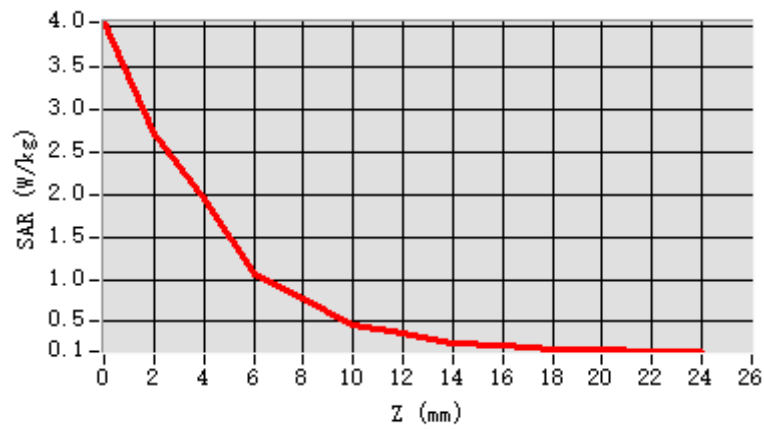
Maximum location: X=8.00, Y=-1.00 ; SAR Peak: 4.23 W/kg

D. SAR 1g & 10g

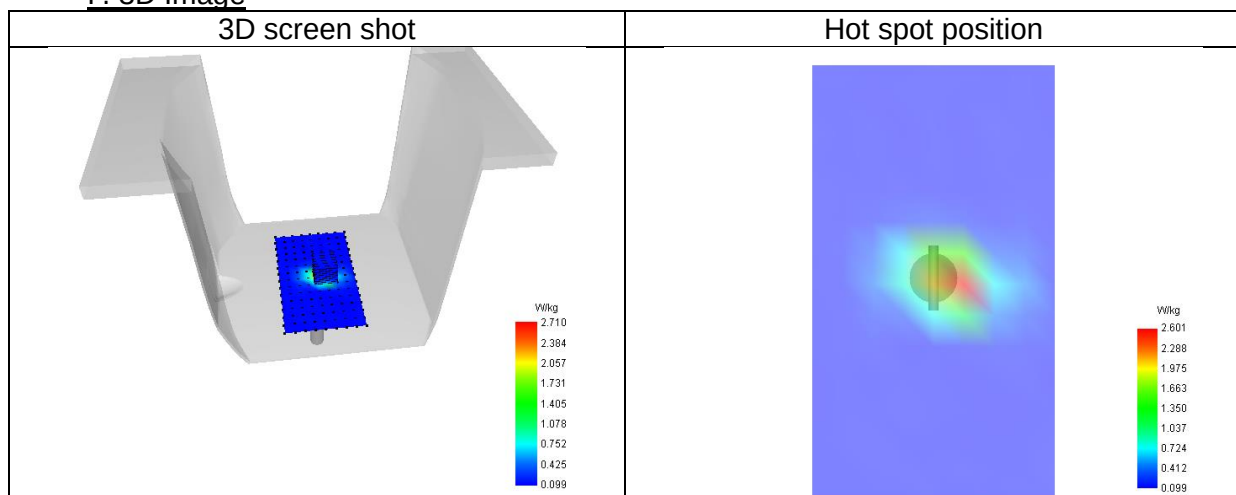
SAR 10g (W/Kg)	0.590
SAR 1g (W/Kg)	1.582
Variation (%)	-1.32
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	75.68

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	4.03	2.71	1.93	1.06	0.77	0.47	0.37	0.23	0.21	0.17	0.16	0.14
	7	0	8	3	4	2	6	9	0	4	5	9



F. 3D Image



7# System check at 5800 MHz
Date of measurement: 30/7/2026

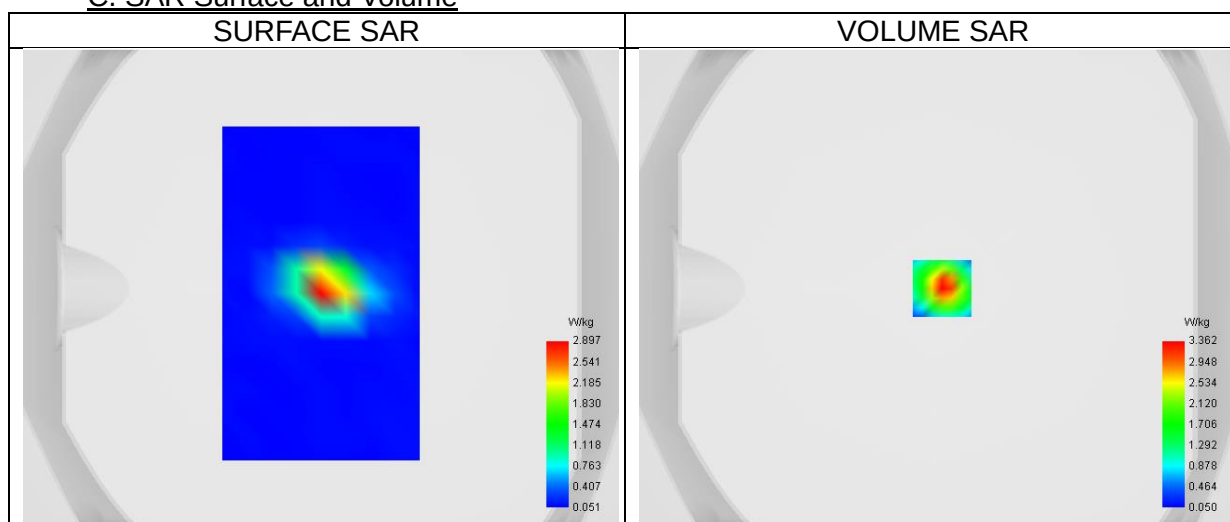
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.04
Area Scan	dx=10mm dy=10mm, Complete
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2.0mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW
Channels/Frequency	Middle

B. Permittivity

Middle TX Frequency (MHz)	5800.00
Relative permittivity (real part)	35.82
Relative permittivity (imaginary part)	16.51
Conductivity (S/m)	5.32

C. SAR Surface and Volume



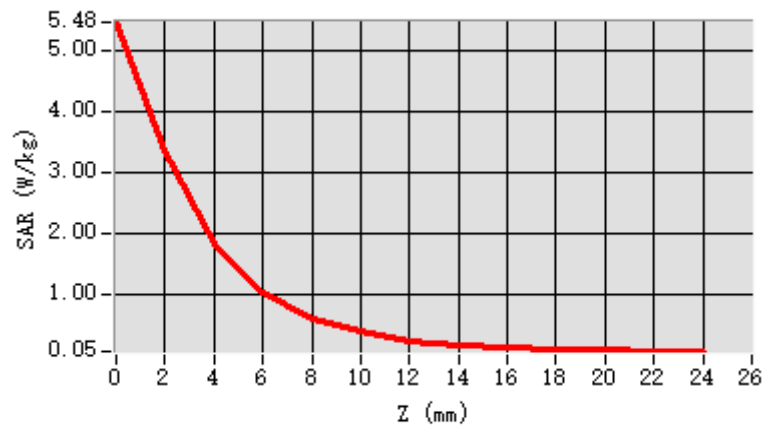
Maximum location: X=2.00, Y=0.00 ; SAR Peak: 5.94 W/kg

D. SAR 1g & 10g

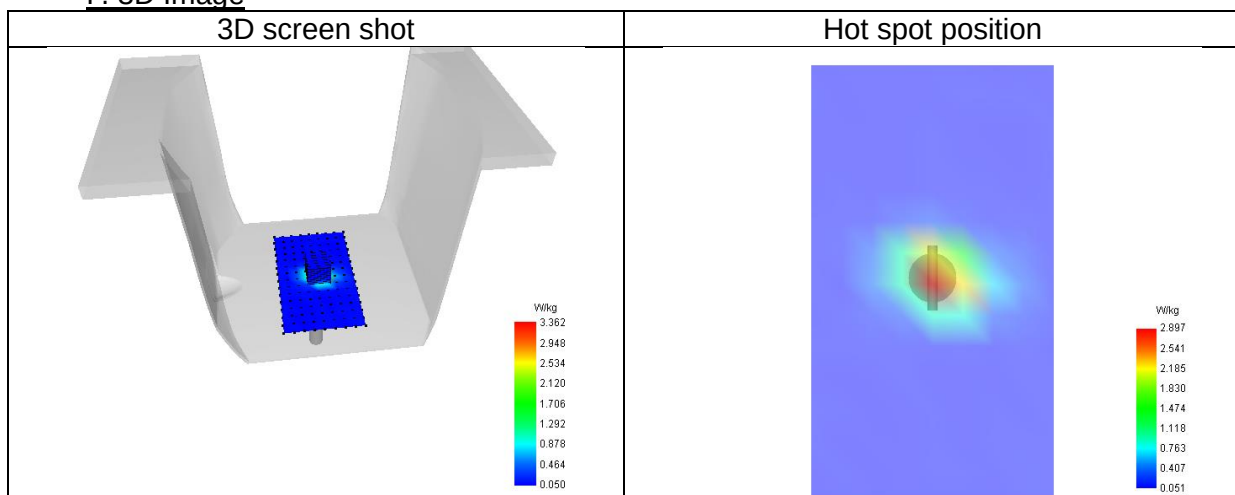
SAR 10g (W/Kg)	0.667
SAR 1g (W/Kg)	1.907
Variation (%)	-1.60
Horizontal validation criteria: minimum distance (mm)	8.94
Vertical validation criteria: SAR ratio M2/M1 (%)	54.50

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	5.48	3.36	1.83	1.01	0.59	0.38	0.21	0.14	0.11	0.10	0.09	0.06
	0	2	2	1	4	1	9	4	6	1	0	7



F. 3D Image



13. Appendix C. Plots of High SAR Measurement

- 1# SAR Measurement at GPRS850 (Body, Validation Plane)
- 2# SAR Measurement at Band 5 (850) (Body, Validation Plane)
- 3# SAR Measurement at U-NII-1 (Body, Validation Plane)
- 4# SAR Measurement at U-NII-2a (Body, Validation Plane)
- 5# SAR Measurement at U-NII-3 (Body, Validation Plane)
- 6# SAR Measurement at ISM (Body, Validation Plane)
- 7# SAR Measurement at LTE band 5 (Body, Validation Plane)
- 8# SAR Measurement at LTE band 41 (Body, Validation Plane)

1# SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 26/7/2026

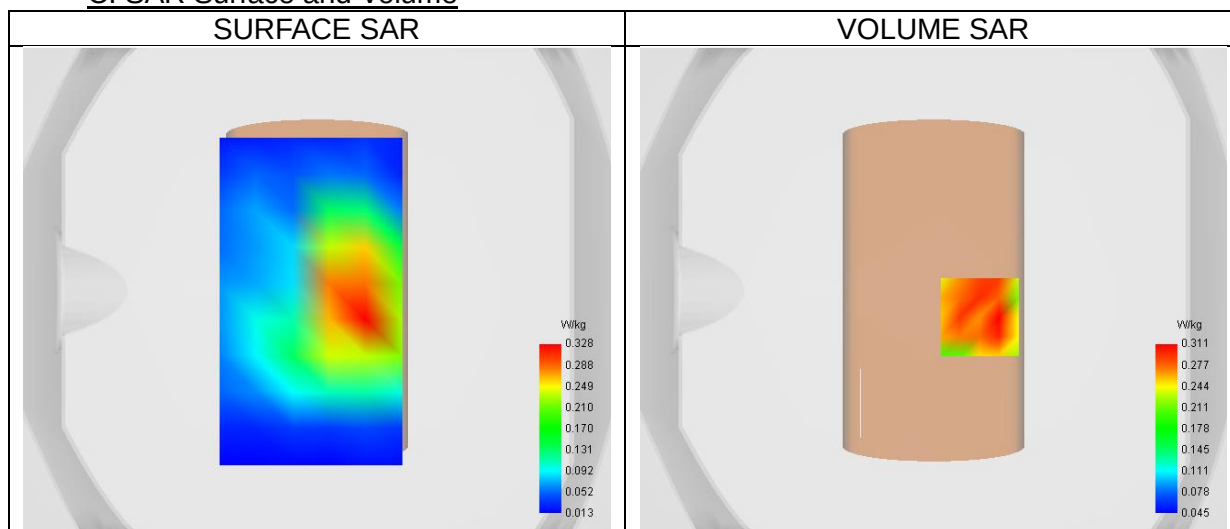
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Signal	TDMA (GPRS)
Channels/Frequency	Middle (128)/ frequency 824.20 Mhz
Modulation	GMSK (CS-3)
TX-slots	3

B. Permittivity

Middle TX Frequency (MHz)	824.20
Relative permittivity (real part)	41.95
Relative permittivity (imaginary part)	19.93
Conductivity (S/m)	0.91

C. SAR Surface and Volume



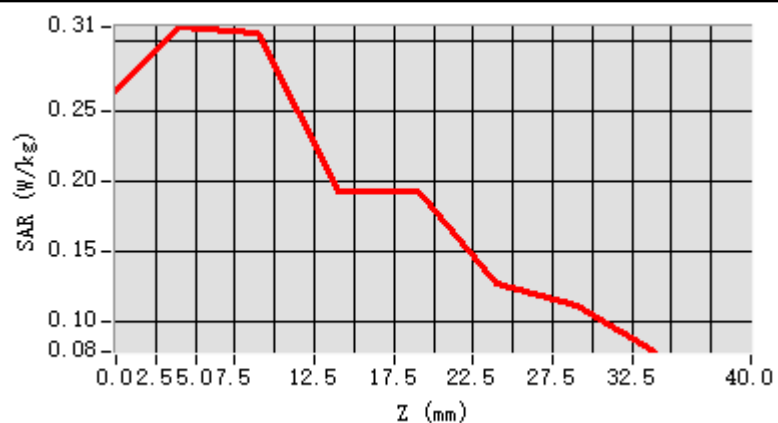
Maximum location: X=19.00, Y=-11.00 ; SAR Peak: 0.42 W/kg

D. SAR 1g & 10g

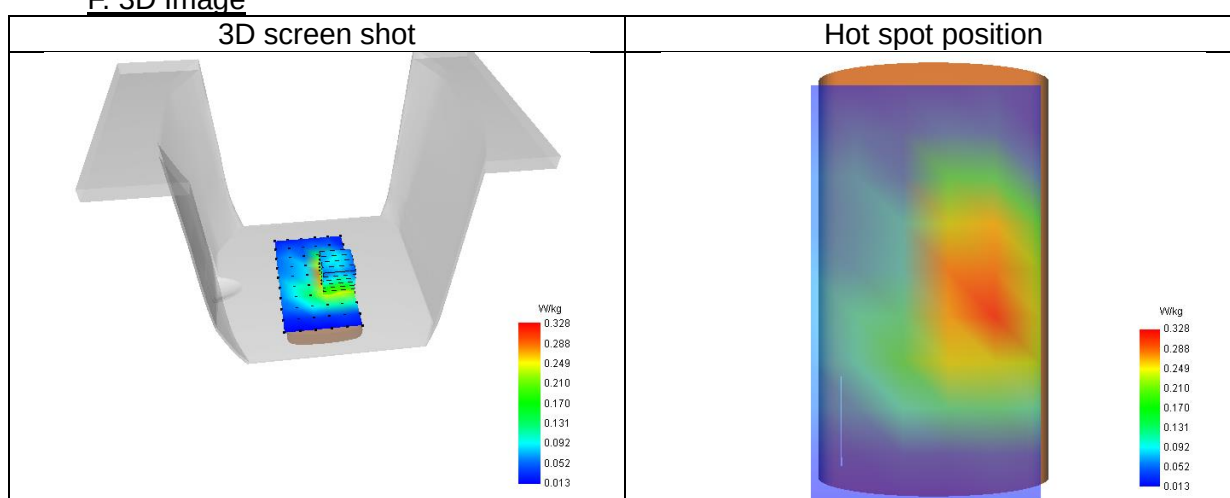
SAR 10g (W/Kg)	0.231
SAR 1g (W/Kg)	0.311
Variation (%)	0.45
Horizontal validation criteria: minimum distance (mm)	0.00
Vertical validation criteria: SAR ratio M2/M1 (%)	0.00

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.265	0.311	0.306	0.193	0.192	0.126	0.110



F. 3D Image



2# SAR Measurement at Band 5 (850) (Body, Validation Plane)

Date of measurement: 26/7/2026

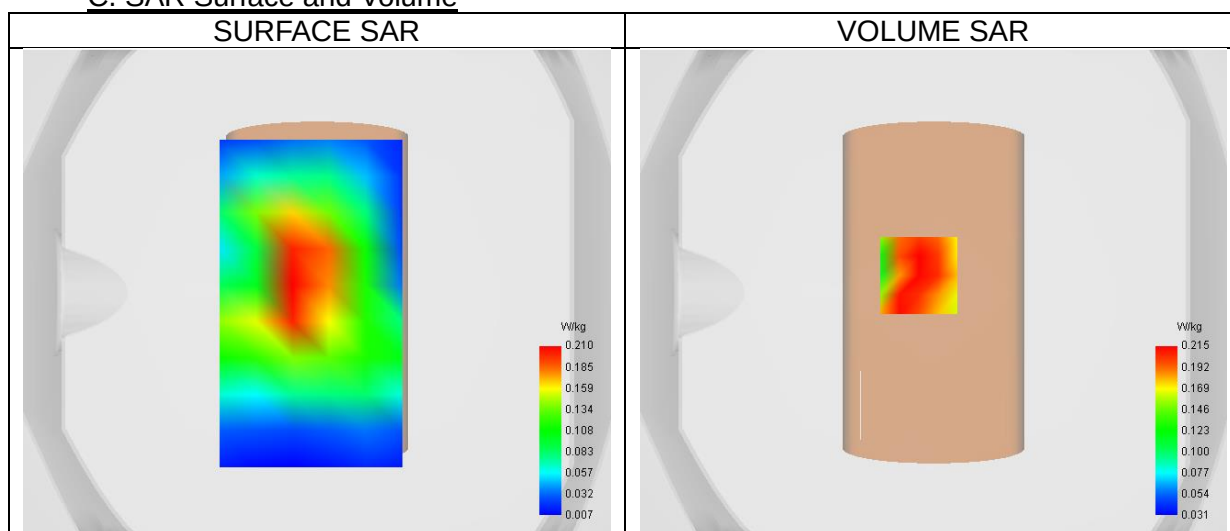
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Signal	WCDMA
Channels/Frequency	Middle (4182)/ frequency 836.40 Mhz
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Middle TX Frequency (MHz)	836.40
Relative permittivity (real part)	41.80
Relative permittivity (imaginary part)	19.99
Conductivity (S/m)	0.93

C. SAR Surface and Volume



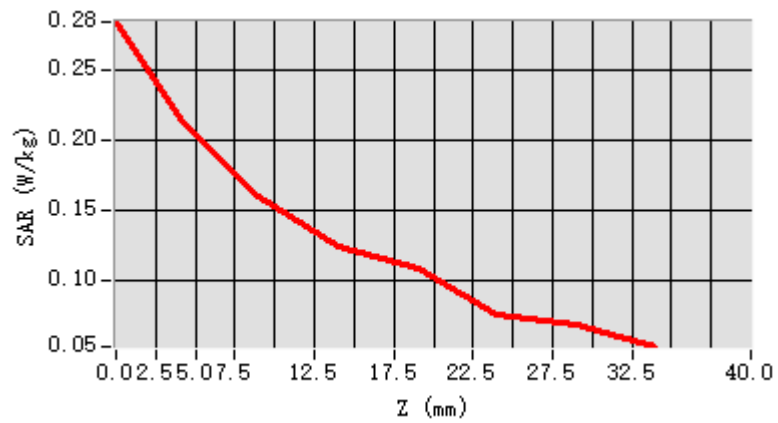
Maximum location: X=-6.00, Y=7.00 ; SAR Peak: 0.31 W/kg

D. SAR 1g & 10g

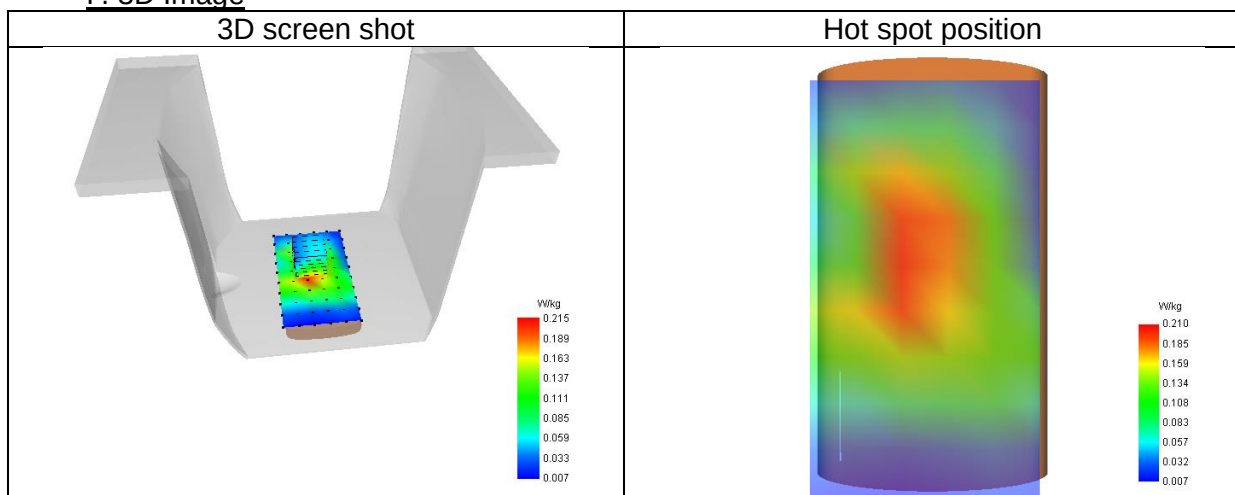
SAR 10g (W/Kg)	0.139
SAR 1g (W/Kg)	0.217
Variation (%)	-3.91
Horizontal validation criteria: minimum distance (mm)	0.00
Vertical validation criteria: SAR ratio M2/M1 (%)	0.00

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.284	0.215	0.160	0.124	0.109	0.076	0.069



F. 3D Image



3# SAR Measurement at U-NII-1 (Body, Validation Plane)

Date of measurement: 29/7/2026

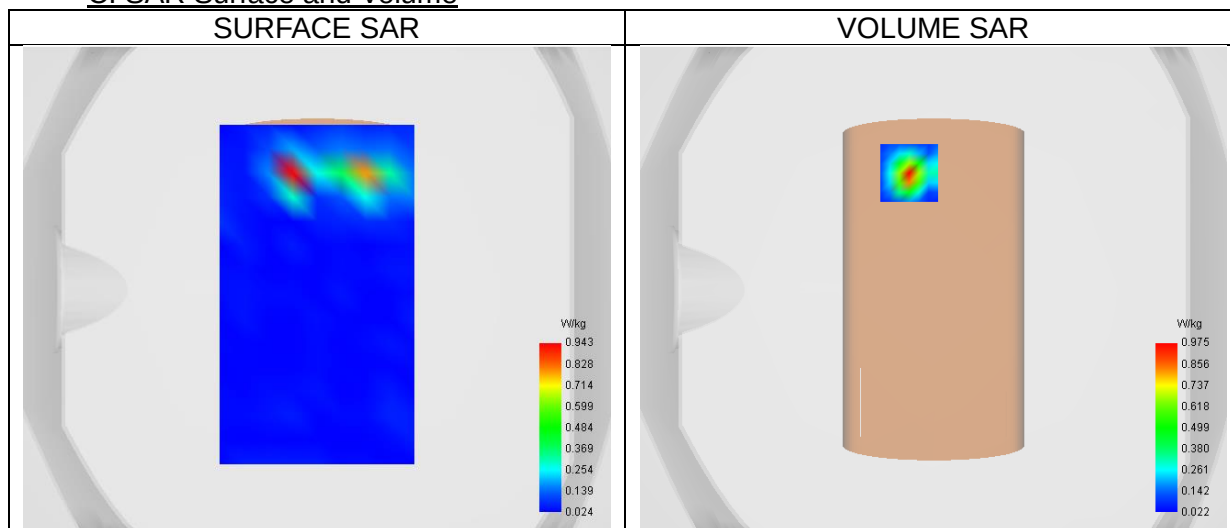
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.07
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	U-NII-1
Signal	IEEE 802.11 ac
Channels/Frequency	Middle (48)/ frequency 5240.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5240.00
Relative permittivity (real part)	36.20
Relative permittivity (imaginary part)	15.80
Conductivity (S/m)	4.61

C. SAR Surface and Volume



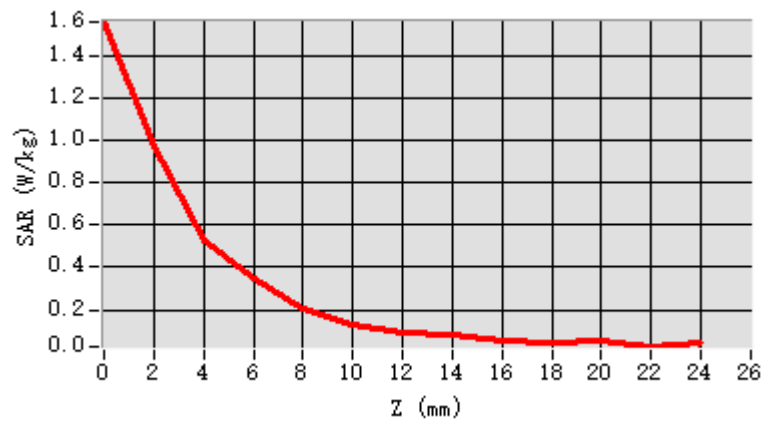
Maximum location: X=-10.00, Y=48.00 ; SAR Peak: 1.73 W/kg

D. SAR 1g & 10g

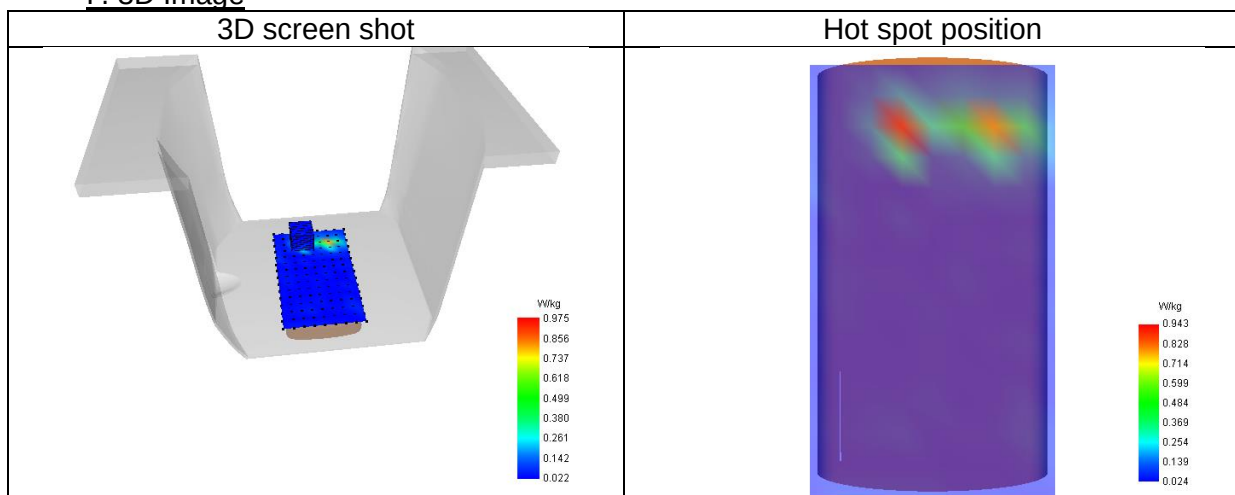
SAR 10g (W/Kg)	0.143
SAR 1g (W/Kg)	0.486
Variation (%)	-3.30
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	54.23

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	1.55	0.97	0.52	0.35	0.20	0.13	0.09	0.08	0.05	0.04	0.05	0.02
	7	5	9	0	7	4	5	7	7	4	3	6



F. 3D Image



4# SAR Measurement at U-NII-2a (Body, Validation Plane)

Date of measurement: 20/7/2026

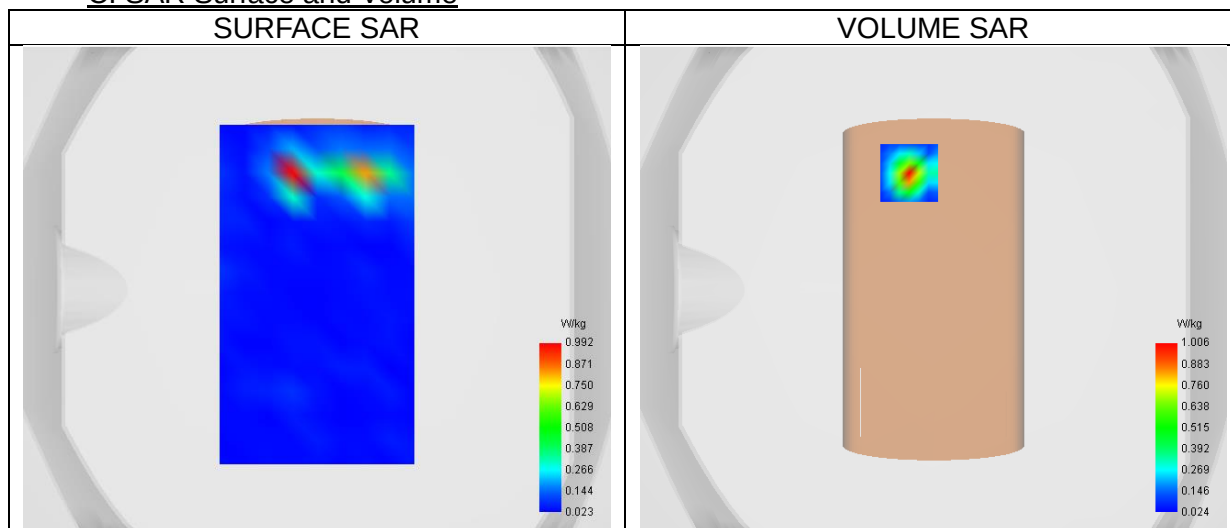
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.11
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	U-NII-2a
Signal	IEEE 802.11 a
Channels/Frequency	Middle (56)/ frequency 5280.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5280.00
Relative permittivity (real part)	34.58
Relative permittivity (imaginary part)	15.77
Conductivity (S/m)	4.63

C. SAR Surface and Volume



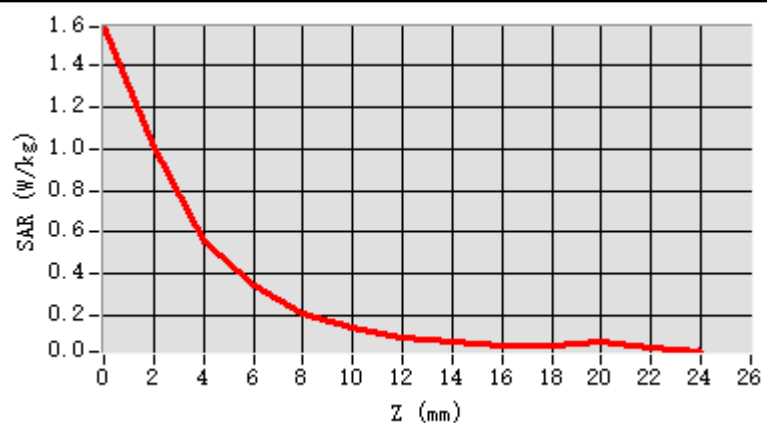
Maximum location: X=-10.00, Y=48.00 ; SAR Peak: 1.76 W/kg

D. SAR 1g & 10g

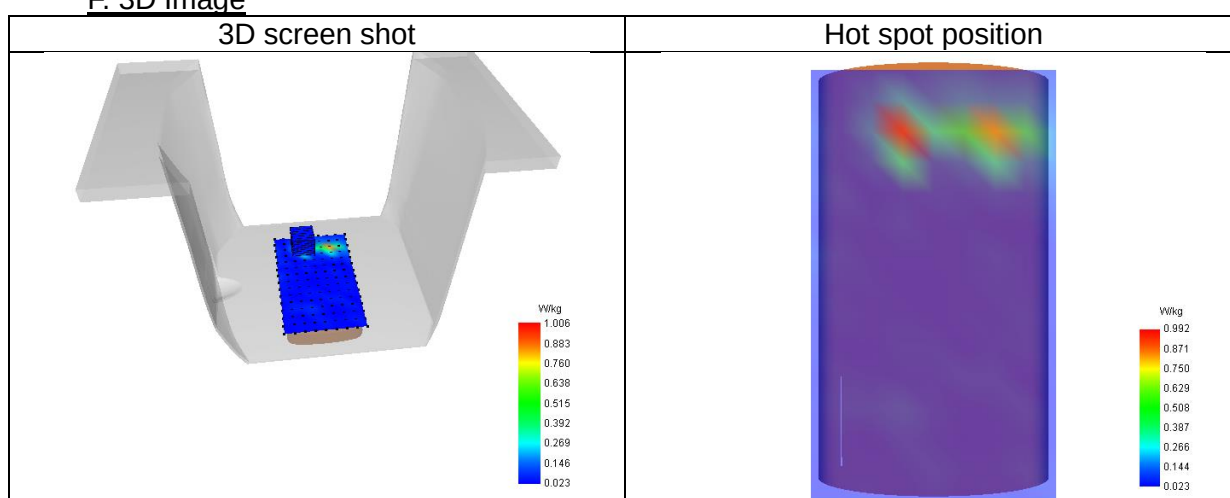
SAR 10g (W/Kg)	0.149
SAR 1g (W/Kg)	0.493
Variation (%)	0.95
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	55.00

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	1.58	1.00	0.55	0.34	0.21	0.14	0.09	0.07	0.05	0.05	0.07	0.04
	4	6	3	7	1	3	8	8	4	4	3	5



F. 3D Image



5# SAR Measurement at U-NII-3 (Body, Validation Plane)

Date of measurement: 30/7/2026

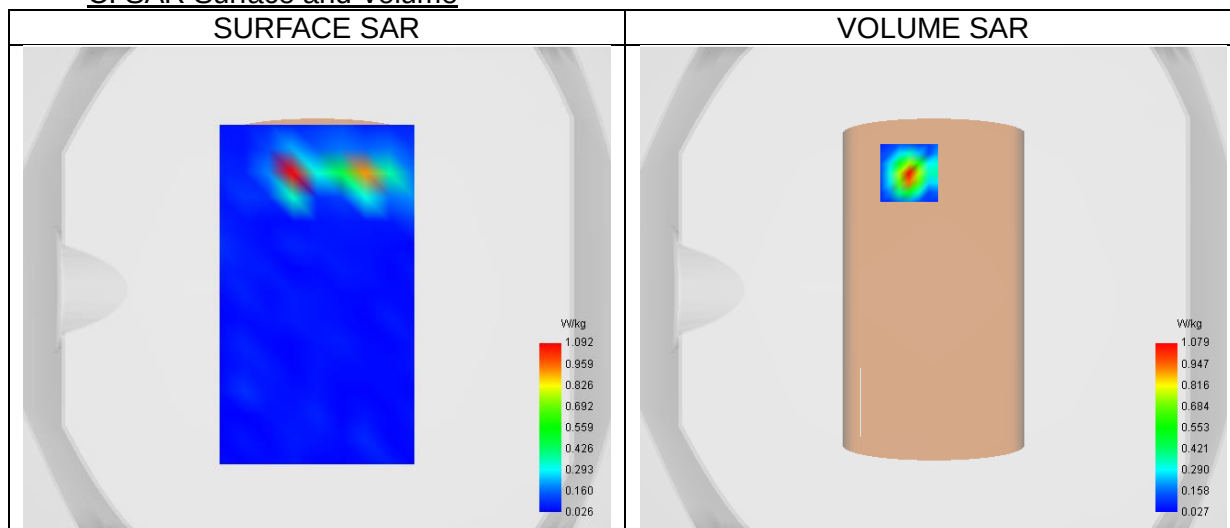
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.04
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	U-NII-3
Signal	IEEE 802.11 ac
Channels/Frequency	Middle (155)/ frequency 5775.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	5775.00
Relative permittivity (real part)	35.92
Relative permittivity (imaginary part)	16.53
Conductivity (S/m)	5.30

C. SAR Surface and Volume



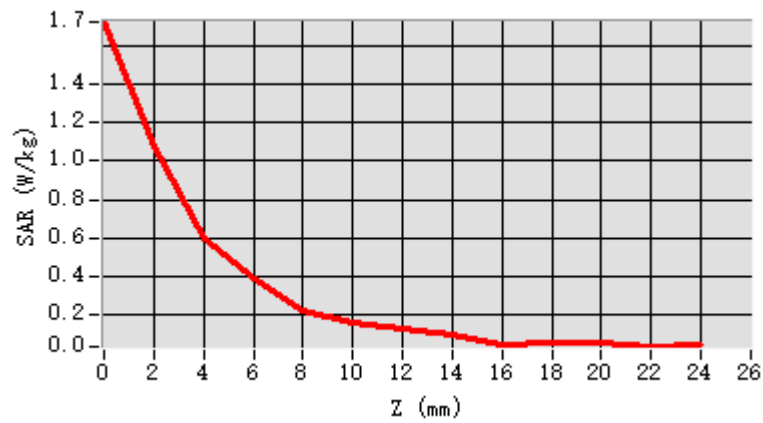
Maximum location: X=-10.00, Y=48.00 ; SAR Peak: 1.85 W/kg

D. SAR 1g & 10g

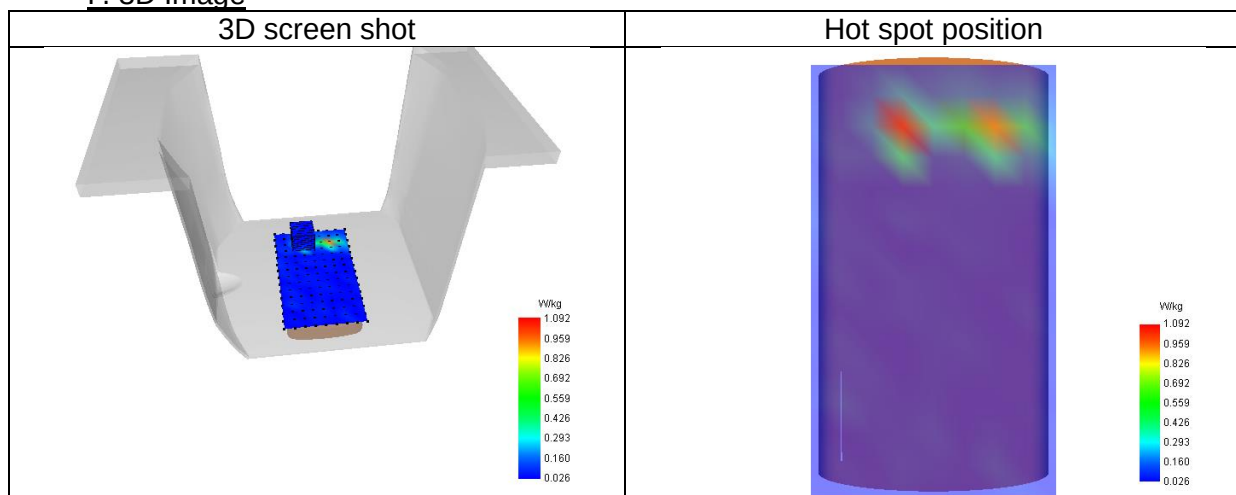
SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.544
Variation (%)	0.43
Horizontal validation criteria: minimum distance (mm)	5.66
Vertical validation criteria: SAR ratio M2/M1 (%)	55.52

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.0	12.0	14.0	16.0	18.0	20.0	22.0
						0	0	0	0	0	0	0
SAR (W/Kg)	1.72	1.07	0.59	0.39	0.22	0.16	0.13	0.09	0.05	0.05	0.05	0.03
	1	9	9	2	0	3	4	7	2	3	9	7



F. 3D Image



6# SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 21/7/2026

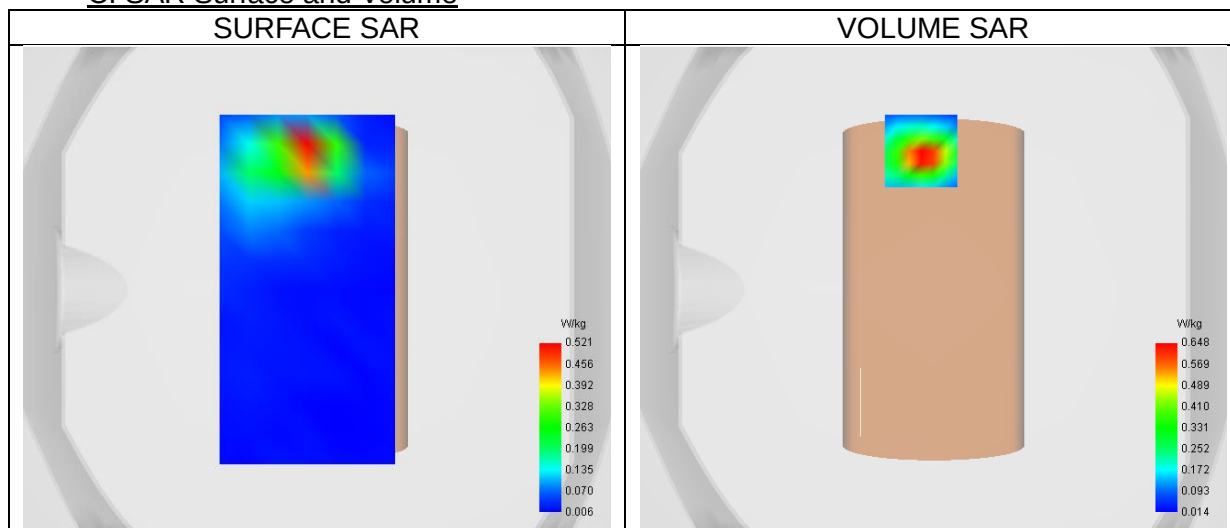
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.85
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Signal	IEEE 802.11 b
Channels/Frequency	Middle (6)/ frequency 2437.00 Mhz

B. Permittivity

Middle TX Frequency (MHz)	2437.00
Relative permittivity (real part)	40.32
Relative permittivity (imaginary part)	13.26
Conductivity (S/m)	1.80

C. SAR Surface and Volume



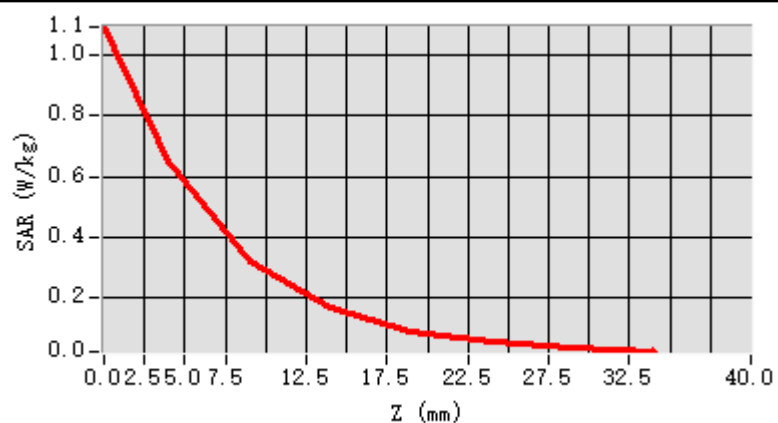
Maximum location: X=-5.00, Y=57.00 ; SAR Peak: 1.16 W/kg

D. SAR 1g & 10g

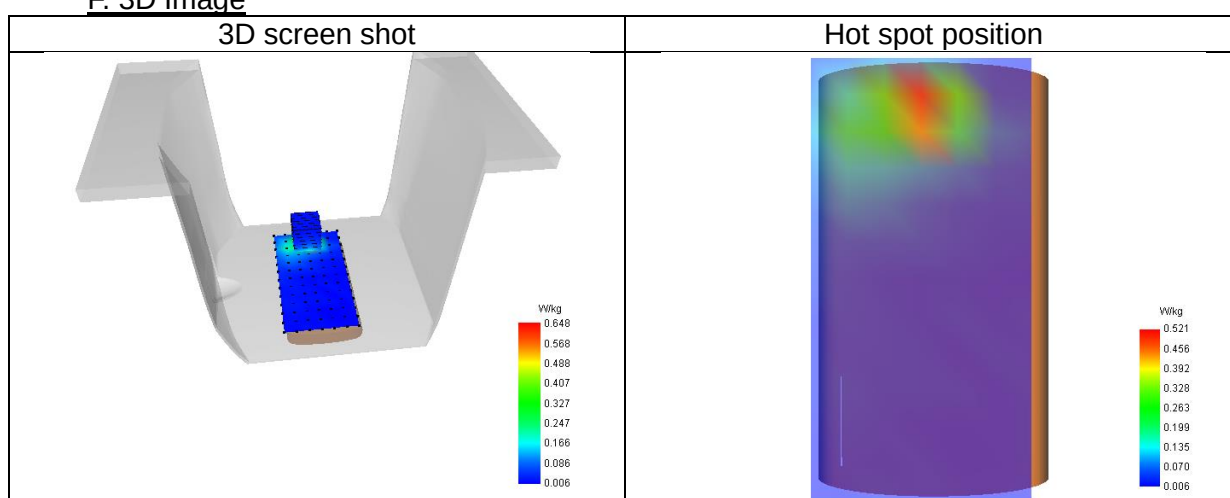
SAR 10g (W/Kg)	0.249
SAR 1g (W/Kg)	0.600
Variation (%)	-1.63
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	49.61

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.094	0.648	0.322	0.165	0.088	0.055	0.031



F. 3D Image



7# SAR Measurement at LTE band 5 (Body, Validation Plane)

Date of measurement: 26/7/2026

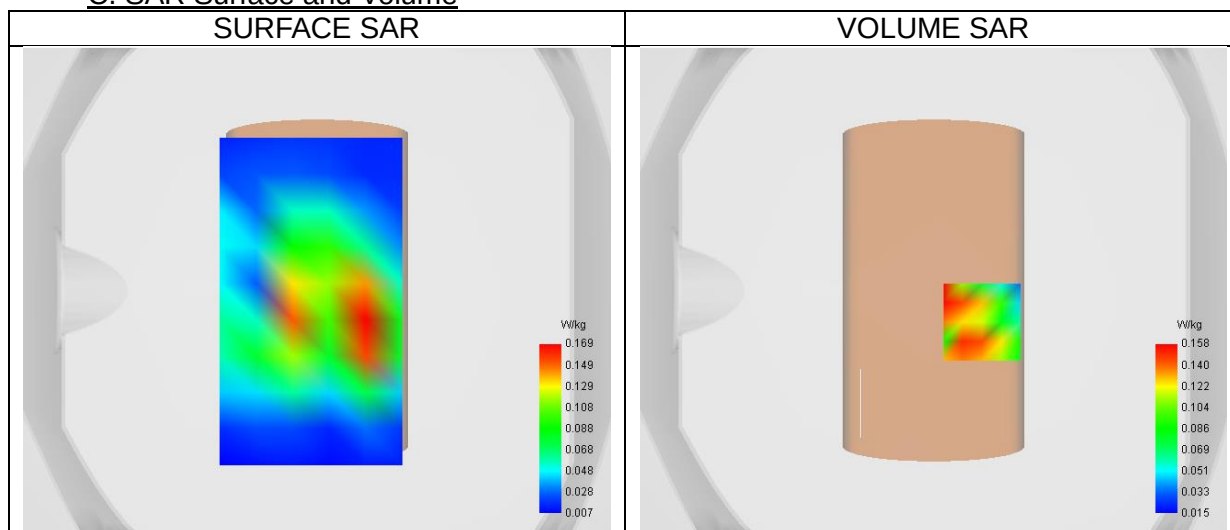
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.32
Area Scan	dx=15mm dy=15mm, Complete
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Signal	LTE FDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (20525)/ frequency 836.50 Mhz
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	836.50

B. Permittivity

Middle TX Frequency (MHz)	836.50
Relative permittivity (real part)	41.80
Relative permittivity (imaginary part)	19.99
Conductivity (S/m)	0.93

C. SAR Surface and Volume



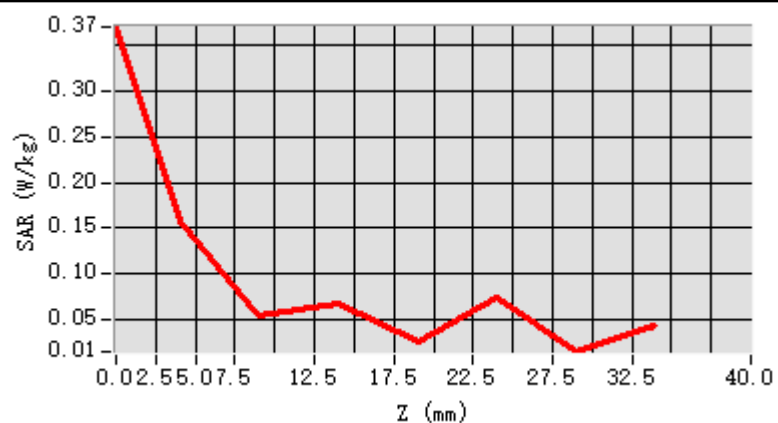
Maximum location: X=20.00, Y=-13.00 ; SAR Peak: 0.33 W/kg

D. SAR 1g & 10g

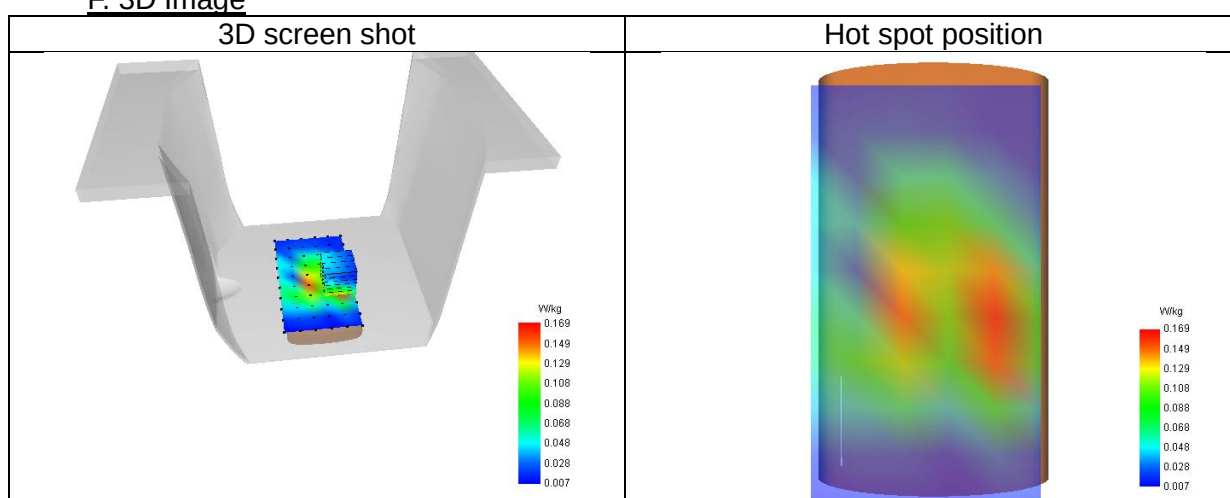
SAR 10g (W/Kg)	0.086
SAR 1g (W/Kg)	0.179
Variation (%)	3.89
Horizontal validation criteria: minimum distance (mm)	16.00
Vertical validation criteria: SAR ratio M2/M1 (%)	90.51

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.370	0.158	0.054	0.066	0.025	0.073	0.015



F. 3D Image



8# SAR Measurement at LTE band 41 (Body, Validation Plane)

Date of measurement: 28/7/2026

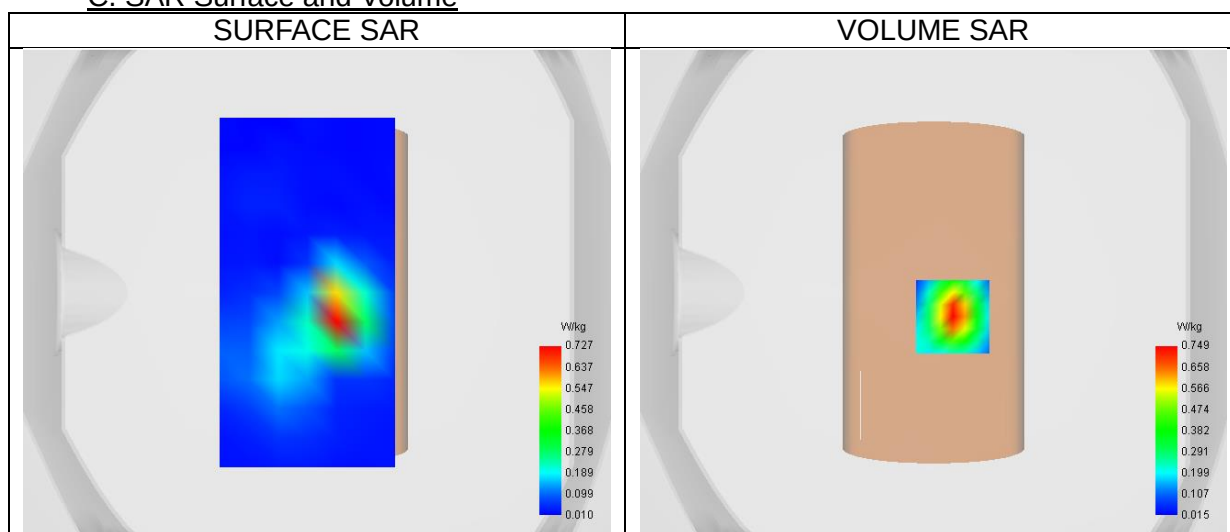
A. Experimental conditions.

Probe	3423-EPGO-426
ConvF	2.65
Area Scan	dx=12mm dy=12mm, Complete
Zoom Scan	7x7x7,dx=5mm dy=5mm dz=5.0mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Signal	LTE TDD
Channel Center [EARFCN] / Channel Center [MHz]	Middle (40620)/ frequency 2593.00 Mhz
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
Middle TX Frequency (MHz)	2593.00

B. Permittivity

Middle TX Frequency (MHz)	2593.00
Relative permittivity (real part)	39.26
Relative permittivity (imaginary part)	13.77
Conductivity (S/m)	1.98

C. SAR Surface and Volume



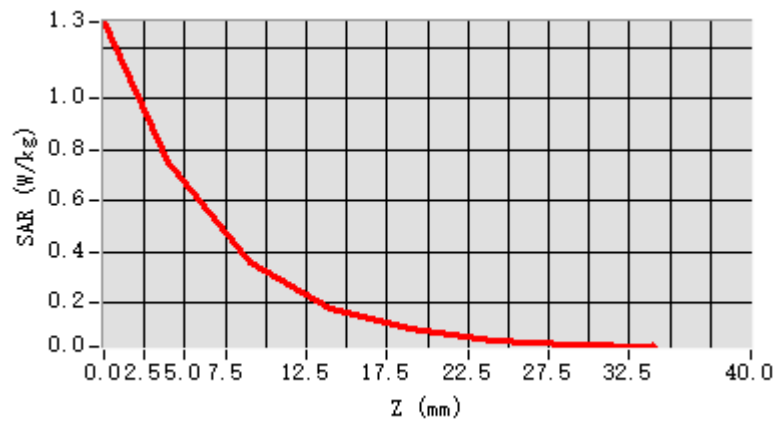
Maximum location: X=8.00, Y=-10.00 ; SAR Peak: 1.28 W/kg

D. SAR 1g & 10g

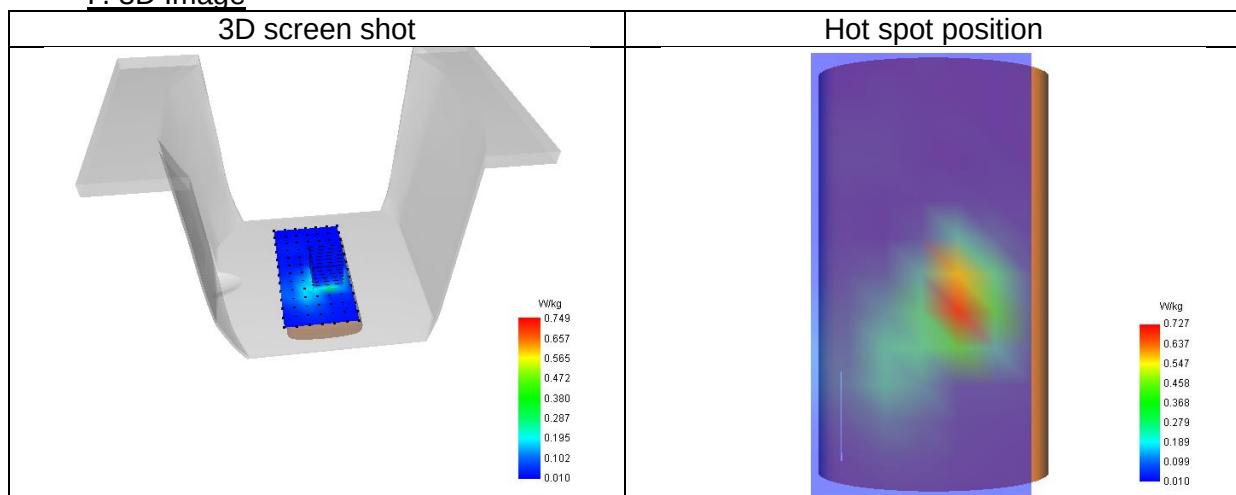
SAR 10g (W/Kg)	0.291
SAR 1g (W/Kg)	0.673
Variation (%)	0.76
Horizontal validation criteria: minimum distance (mm)	10.00
Vertical validation criteria: SAR ratio M2/M1 (%)	47.51

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.301	0.749	0.356	0.177	0.096	0.049	0.032



F. 3D Image



14. Appendix D. Calibration Certificate

Table of contents
E Field Probe - 3423-EPGO-426
835 MHz Dipole - SN 03/15 DIP 0G835-347
2450 MHz Dipole - SN 03/15 DIP 2G450-352
5000-6000 MHz Dipole - SN 13/14 WGA 33

**COMOSAR E-Field Probe Calibration Report**

Ref: ACR.261.11.25.BES.A

**SHENZHEN NTEK TESTING TECHNOLOGY
CO., LTD.**

**BUILDING E, FENDA SCIENCE PARK, SANWEI
COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA
MVG COMOSAR DOSIMETRIC E-FIELD PROBE
SERIAL NO.: 3423-EPGO-426**

Calibrated at MVG

Z.I. de la pointe du diable

Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE

Calibration date: 10/12/2025



Accreditations #2-6789
Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.261.11.25.BES.A

	Name	Function	Date	Signature
Prepared by :	Cyrille ONNEE	Measurement Responsible	10/12/205	
Checked & approved by:	Jérôme Luc	Technical Manager	10/12/205	
Authorized by:	Yann Toutain	Laboratory Director	10/12/205	

Yann

Toutain ID

 Signature
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Date : 2025.10.11
09:35:27 +02'00'

	Customer Name
Distribution :	SHENZHEN NTEK TESTING TECHNOLOGY CO., LTD.

Issue	Name	Date	Modifications
A	Cyrille ONNEE	10/12/205	Initial release

Page: 2/10

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.261.11.25.BES.A

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.261.11.25.BES.A

1 DEVICE UNDER TEST

Device Under Test	
Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	3423-EPGO-426
Product Condition (new / used)	New
Frequency Range of Probe	0.15 GHz-7.5GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=0.261 MΩ Dipole 2: R2=0.213 MΩ Dipole 3: R3=0.233 MΩ

2 PRODUCT DESCRIPTION

2.1 GENERAL INFORMATION

MVG's COMOSAR E field Probes are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards.



Figure 1 – MVG COMOSAR Dosimetric E field Probe

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe extremity	1 mm

3 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their effect. All calibrations / measurements performed meet the fore-mentioned standards.

3.1 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards for frequency range 600-7500MHz and using the calorimeter cell method (transfer method) as outlined in the standards for frequency 150-450 MHz.



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.261.11.25.BES.A

3.2 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01W/kg to 100W/kg.

3.3 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 to 360 degrees in 15-degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis (0°-180°) in 15° increments. At each step the probe is rotated about its axis (0°-360°).

3.4 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

The boundary effect uncertainty can be estimated according to the following uncertainty approximation formula based on linear and exponential extrapolations between the surface and $d_{be} + d_{step}$ along lines that are approximately normal to the surface:

$$SAR_{uncertainty}[\%] = \Delta SAR_{\%} \cdot \frac{(d_{be} + d_{step})^2}{2d_{step}} \cdot \frac{(e^{-\delta(d_{be})} - e^{-\delta(d_{be} + d_{step})})}{\delta/2} \quad \text{for } (d_{be} + d_{step}) < 10 \text{ mm}$$

where

$\Delta SAR_{uncertainty}$	is the uncertainty in percent of the probe boundary effect
d_{be}	is the distance between the surface and the closest <i>zoom-scan</i> measurement point, in millimetre
Δ_{step}	is the separation distance between the first and second measurement points that are closest to the phantom surface, in millimetre, assuming the boundary effect at the second location is negligible
δ	is the minimum penetration depth in millimetres of the head tissue-equivalent liquids defined in this standard, i.e., $\delta \approx 14 \text{ mm}$ at 3 GHz;
ΔSAR_{be}	in percent of SAR is the deviation between the measured SAR value, at the distance d_{be} from the boundary, and the analytical SAR value.

The measured worst case boundary effect SARuncertainty[%] for scanning distances larger than 4mm is 1.0% Limit ,2%).



COMOSAR E-FIELD PROBE CALIBRATION REPORT

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4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards were followed to generate the measurement uncertainty associated with a SAR probe calibration using the waveguide or calorimetric cell technique depending on the frequency.

The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-11% for the frequency range 150-450MHz.

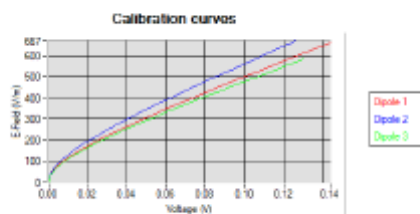
The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-14% for the frequency range 600-7500MHz.

5 CALIBRATION RESULTS

Ambient condition	
Liquid Temperature	20 +/- 1 °C
Lab Temperature	20 +/- 1 °C
Lab Humidity	30-70 %

5.1 CALIBRATION IN AIR

The following curve represents the measurement in waveguide of the voltage picked up by the probe toward the E-field generated inside the waveguide.



From this curve, the sensitivity in air is calculated using the below formula.

$$E^2 = \sum_{i=1}^3 \frac{V_i (1 + V_i / DCP_i)}{Norm_i}$$

where

V_i =voltage readings on the 3 channels of the probe

DCP_i =diode compression point given below for the 3 channels of the probe

$Norm_i$ =dipole sensitivity given below for the 3 channels of the probe

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

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Normx dipole 1 ($\mu\text{V}/(\text{V}/\text{m})^2$)	Normy dipole 2 ($\mu\text{V}/(\text{V}/\text{m})^2$)	Normz dipole 3 ($\mu\text{V}/(\text{V}/\text{m})^2$)
0.78	0.62	0.85

DCP dipole 1 (mV)	DCP dipole 2 (mV)	DCP dipole 3 (mV)
105	108	107

5.2 CALIBRATION IN LIQUID

The calorimeter cell or the waveguide is used to determine the calibration in liquid using the formula below.

$$ConvP = \frac{E_{\text{liquid}}^2}{E_{\text{air}}^2}$$

The E-field in the liquid is determined from the SAR measurement according to the below formula.

$$E_{\text{liquid}}^2 = \frac{\rho \text{ SAR}}{\sigma}$$

where

σ =the conductivity of the liquid

ρ =the volumetric density of the liquid

SAR=the SAR measured from the formula that depends on the setup used. The SAR formulas are given below

For the calorimeter cell (150-450 MHz), the formula is:

$$\text{SAR} = c \frac{dT}{dt}$$

where

c =the specific heat for the liquid

dT/dt =the temperature rises over the time

For the waveguide setup (600-75000 MHz), the formula is:

$$\text{SAR} = \frac{P_{\text{W}}}{ab\delta} e^{-\frac{z}{\delta}}$$

where

a =the larger cross-sectional of the waveguide

b =the smaller cross-sectional of the waveguide

δ =the skin depth for the liquid in the waveguide

P_{W} =the power delivered to the liquid

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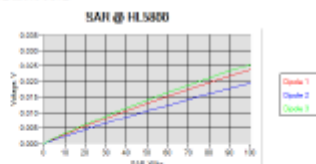
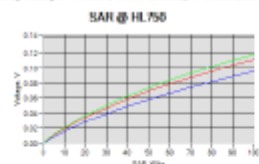
COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.261.11.25.BES.A

The below table summarize the ConvF for the calibrated liquid. The curves give examples for the measured SAR depending on the voltage in some liquid.

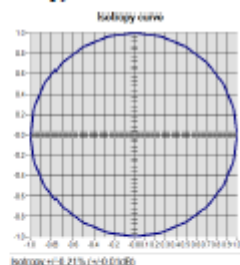
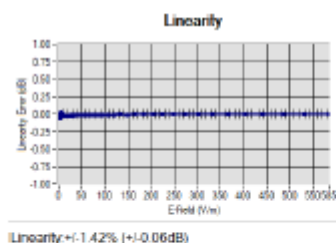
Liquid	Frequency (MHz)	ConvF
HL750	750	2.37
HL850	835	2.32
HL900	900	2.23
HL1800	1800	2.45
HL1900	1900	2.63
HL2000	2000	2.83
HL2300	2300	2.81
HL2450	2450	2.85
HL2600	2600	2.65
HL3300	3300	2.21
HL3500	3500	2.20
HL3700	3700	2.11
HL3900	3900	2.40
HL4200	4200	2.40
HL4600	4600	2.33
HL4900	4900	2.37
HL5200	5200	2.07
HL5400	5400	2.11
HL5600	5600	2.20
HL5800	5800	2.04

(*) Frequency validity is +/-50MHz below 600MHz, +/-100MHz from 600MHz to 50MHz and +/-100MHz above 50MHz



6 VERIFICATION RESULTS

The figures below represent the measured linearity and axial isotropy for this probe. The probe specification is +/-0.2 dB for linearity and +/-0.15 dB for axial isotropy.



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7 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
CALIPROBE Test Bench	Version 2	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rohde & Schwarz ZVM	100203	08/2021	08/2026
Network Analyzer – Calibration kit	Rohde & Schwarz ZV-Z235	101223	07/2025	07/2028
Multimeter	Keithley 2000	4013982	02/2023	02/2026
Signal Generator	Rohde & Schwarz SMB	106589	03/2025	03/2028
Amplifier	MVG	MODU-023-C-0002	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	NI-USB 5680	170100013	06/2024	06/2027
Power Meter	Keysight U2000A	SN: MY62340002	10/2025	10/2028
Directional Coupler	Krytar 158020	131467	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Fluoroptic Thermometer	LumaSense Luxtron 812	94264	09/2025	09/2028
Coaxial cell	MVG	SN 32/16 COAXCELL_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG2_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_0G800_1	Validated. No cal required.	Validated. No cal required.

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Ref: ACR.261.11.25.BES.A

Waveguide	MVG	SN 32/16 WG4_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_0G900_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG6_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG8_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800B_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800H_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG10_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_3G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG12_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_5G000_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG14_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_7G000_1	Validated. No cal required.	Validated. No cal required.
Temperature / Humidity Sensor	Testo 184 H1	44225320	06/2024	06/2027



SAR Reference Dipole Calibration Report

Ref : ACR.53.23.24.BES.A

**SHENZHEN NTEK TESTING TECHNOLOGY
CO., LTD.**

**BUILDING E, FENDA SCIENCE PARK, SANWEI
COMMUNITY, XIXIANG STREET,
BAO'AN DISTRICT, SHENZHEN GUANGDONG, CHINA**

MVG COMOSAR REFERENCE DIPOLE

FREQUENCY: 750 MHZ

SERIAL NO.: SN 03/15DIP0G750-355

Calibrated at MVG

Z.I. de la pointe du diable

**Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE**

Calibration date: 02/21/2024



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Summary:

This document presents the method and results from an accredited SAR reference dipole calibration performed in MVG using the COMOSAR test bench. All calibration results are traceable to national metrology institutions.