

TEST REPORT

Reference No...... : WTX26X08250779W006
FCC ID..... : 2BX33-FORII-01PRO
Applicant..... : Astraux Technology Limited
Address..... : RM 1917, 19/F LEE GARDEN ONE 33 HYSAN AVENUE CAUSEWAY BAY
HONG KONG
Manufacturer..... : The same as Applicant
Address..... : The same as Applicant
Product Name..... : Astraux AI PET
Model No...... : PRO-01
FCC Part 2.1093
Standards..... : IEEE Std C95.1: 2019
IEEE C95.3: 2021
IEC/IEEE 62209-1528:2020
Date of Receipt sample..... : 2026-08-24
Date of Test..... : 2026-08-24 to 2026-10-13
Date of Issue..... : 2026-10-14
Test Report Form No...... : WTX_Part2_1093W
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

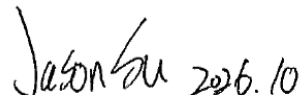
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Report version

Version No.	Date of issue	Description
Rev.00	2026-10-14	Original
/	/	/

1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	Astraux AI PET
Brand Name:	/
Model No.:	PRO-01
Adding Model(s):	/
Rated Voltage:	Battery: DC3.7V Type-C: DC5V
Battery Capacity:	1800mAh
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT:	
4G	
Support Networks:	FDD-LTE Cat.1bis; TDD-LTE Cat.1bis
Support Band:	FDD-LTE Band 2, 5, 12, 66, TDD-LTE Band 41
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz FDD-LTE Band 5: Tx: 824-849MHz FDD-LTE Band 12: Tx: 699-716MHz FDD-LTE Band 66: Tx: 1710-1780MHz TDD-LTE Band 41: Tx: 2496-2690MHz
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz FDD-LTE Band 5: Rx: 869-894MHz FDD-LTE Band 12: Rx: 729-746MHz FDD-LTE Band 66: Rx: 2110-2200MHz TDD-LTE Band 41: Rx: 2496-2690MHz
Max. RF Output Power:	FDD-LTE Band 2: 23.27dBm FDD-LTE Band 5: 23.42dBm FDD-LTE Band 12: 23.37dBm FDD-LTE Band 66: 23.53dBm TDD-LTE Band 41: 24.17dBm
Type of Modulation:	QPSK, 16QAM, 64QAM
Antenna Type:	FPC Antenna
Antenna Gain:	FDD-LTE Band 2: -0.23dBi FDD-LTE Band 5: -7.57dBi FDD-LTE Band 12: -18.02dBi FDD-LTE Band 66: -2.53dBi TDD-LTE Band 41: 0.95dBi
Wi-Fi(5GHz)	
Support Standards:	802.11a, 802.11n-HT20, 802.11ac-VHT20, 802.11ax-HE20
Frequency Range:	5180-5240MHz, 5745-5825MHz
Max. RF Output Power:	5180-5240MHz: 13.89dBm (Conducted) 5745-5825MHz: 11.68dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Type of Antenna:	FPC Antenna
Antenna Gain:	1.04dBi
WIFI(2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n-HT20; 802.11ax-HE20
Frequency Range:	2412-2462MHz for 802.11b/g/n-HT20/ax-HE20
Max. RF Output Power:	15.21dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n-HT20/ax-HE20
Channel Separation:	5MHz

Antenna Type:	FPC Antenna
Antenna Gain:	2.15dBi
Bluetooth	
Bluetooth Version:	Bluetooth V6.0 (LE Mode)
Frequency Range:	2402-2480MHz
Max. RF Output Power:	7.03dBm (Conducted)
Modulation:	GFSK
Quantity of Channels:	40
Channel Separation:	2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	2.15dBi
<i>Note:</i> 1. The Antenna Gain is provided by the customer and can affect the validity of results. 2. The LTE Band 2/5/12/66/41 Output power are provided by FCC ID: ZMOLE271GL for test report SZ25120010W01.	

1.2 Test Standards

The following report is accordance with FCC 47 CFR Part 2.1093, IEEE Std C95.1: 2019, IEEE C95.3: 2021, KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 941225 D01 v03r01, KDB 941225 D05 v02r05 , and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

The objective is to determine compliance with FCC Part 2.1093 of the Federal Communication Commissions rules.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which is result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02. The public notice KDB 447498 D01 v06 for Mobile and Portable Devices RF Exposure Procedure also.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road,Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory 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. The Designation Number is CN5010. Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464 A and the CAB identifier is CN0057.

2. Summary of Test Results

The maximum results of Specific Absorption Rate (SAR) have found during testing are as follows:

Frequency Band	Body SAR (0mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	
LTE	1.294	1.6
WLAN 2.4GHz	1.229	1.6
Bluetooth	0.770	1.6
WLAN 5GHz	1.374	1.6

Note: The customer claims that the product does not support simultaneous transmission of WiFi & Bluetooth and LTE Cat.1bis.

The 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 2.1093 and IEEE Std C95.1: 2019 and had been tested in accordance with the measurement methods and procedure specified in KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

3. Specific Absorption Rate (SAR)

3.1 Introduction

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

3.2 SAR Definition

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density (ρ). The equation description is as below:

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

SAR is expressed in units of Watts per kilogram (W/kg)

SAR measurement can be either related to the temperature elevation in tissue by

$$SAR = C \left(\frac{\delta T}{\delta t} \right)$$

Where: C is the specific heat capacity, δT is the temperature rise and δt is the exposure duration, or related to the electrical field in the tissue by

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

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

However for evaluating SAR of low power transmitter, electrical field measurement is typically applied.

4. SAR Measurement System

4.1 The Measurement System

Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue

The following figure shows the system.

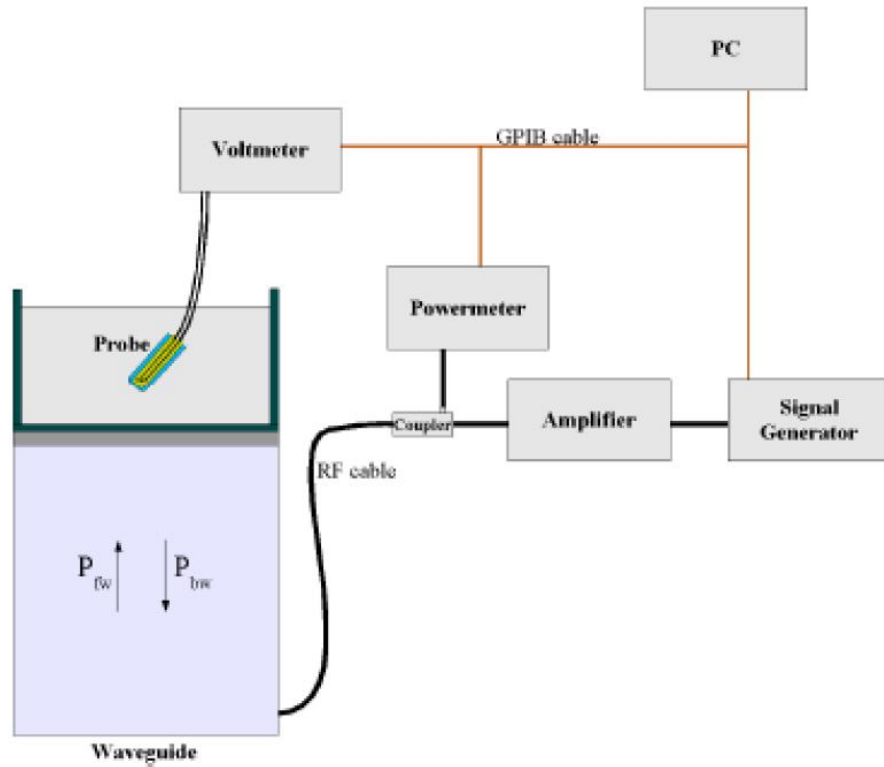


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE2 0725-EPGO-446, and refer to the calibration report for probe parameters.

Probe calibration is realized, in compliance with IEC/IEEE 62209-1528:2020 STD, with CALISAR, Antenna proprietary calibration system. The calibration is performed with the IEC/IEEE 62209-1528:2020 annexes technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\delta} \cos^2\left(\pi \frac{y}{a}\right) e^{-(2z/\delta)}$$

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide dimensions

δ = Skin depth

Keithley configuration:

Rate = Medium; Filter = ON; RDGS = 10; Filter type = Moving Average; Range auto after each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it. The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/V_{lin}(N) \quad (N=1,2,3)$$

The linearised output voltage $V_{lin}(N)$ is obtained from the displayed output voltage $V(N)$ using

$$V_{lin}(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

where DCP is the diode compression point in mV.

4.3 Probe Calibration Process

Dosimetric Assessment Procedure

Each E-Probe/Probe Amplifier combination has unique calibration parameters. SATIMO Probe calibration procedure is conducted to determine the proper amplifier settings to enter in the probe parameters. The amplifier settings are determined for a given frequency by subjecting the probe to a known E-field density (1 mW/cm²) using an with CALISAR, Antenna proprietary calibration system.

Free Space Assessment Procedure

The free space E-field from amplified probe outputs is determined in a test chamber. This calibration can be performed in a TEM cell if the frequency is below 1 GHz and in a waveguide or other methodologies above 1 GHz for free space. For the free space calibration, the probe is placed in the volumetric center of the cavity and at the proper orientation with the field. The probe is rotated 360 degrees until the three channels show the maximum reading. The power density readings equates to 1mW/cm².

Temperature Assessment Procedure

E-field temperature correlation calibration is performed in a flat phantom filled with the appropriate simulated head tissue. The E-field in the medium correlates with the temperature rise in the dielectric medium. For temperature correlation calibration a RF transparent thermistor-based temperature probe is used in conjunction with the E-field probe.

$$SAR = C \frac{\Delta T}{\Delta t}$$

Where:

- Δt = exposure time (30 seconds),
- C = heat capacity of tissue (brain or muscle),
- ΔT = temperature increase due to RF exposure.

SAR is proportional to $\Delta T/\Delta t$, the initial rate of tissue heating, before thermal diffusion takes place. The electric field in the simulated tissue can be used to estimate SAR by equating the thermally derived SAR to that with the E- field component.

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

Where:

σ = simulated tissue conductivity,

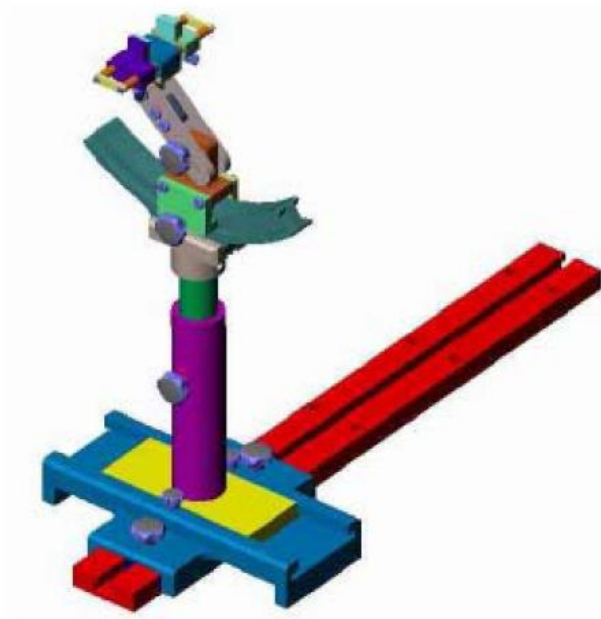
ρ = Tissue density (1.25 g/cm³ for brain tissue)

4.4 Phantom

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

4.5 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°.



System Material	Permittivity	Loss Tangent
Delrin	3.7	0.005

4.6 Test Equipment List

Fixed asset Number	Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
WTXE1105A1002	E-Field Probe	MVG	SSE2	0725-EPGO-446	2026-03-03	2027-03-02
WTXE1053A1001-001	750MHz Dipole	MVG	SID750	SN 47/21 DIP 0G750-620	2025-10-22	2028-10-21
WTXE1053A1001-002	835MHz Dipole	MVG	SID835	SN 47/12 DIP 0G835-204	2025-10-22	2028-10-21
WTXE1053A1001-004	1800MHz Dipole	MVG	SID1800	SN 47/12 DIP 1G800-206	2025-10-22	2028-10-21
WTXE1053A1001-005	1900MHz Dipole	MVG	SID1900	SN 47/12 DIP 1G900-207	2025-12-31	2028-12-30
WTXE1053A1001-007	2450MHz Dipole	MVG	SID2450	SN 13/15 DIP 2G450-364	2025-12-30	2028-12-29
WTXE1053A1001-010	2600MHz Dipole	MVG	SID2600	SN 13/15 DIP 2G2600-365	2025-12-31	2028-12-30
WTXE1053A1006-010	5 GHz Dipole	MVG	SID5000	SN 02/21 DIP 5G000-543	2025-10-23	2028-10-22
WTXE1053A1001-011	Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2026-02-05	2027-02-04
WTXE1075A1003	Power meter	Keithley	3500	1232959	2026-02-05	2027-02-04
WTXE1075A1002	Power meter	Keithley	3500	1162591	2026-02-05	2027-02-04
WTXE1104A1003	EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2026-02-06	2027-02-05
WTXE1022A1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2026-02-06	2027-02-05
WTXE1105A1001	Communications Tester	Rohde & Schwarz	CMW500	170903	2026-02-05	2027-02-04
WTXW1105A1137	Vector Network Analvzers	Rohde & Schwarz	ZVB 8	101525	2026-02-06	2027-02-05
WTXE1076A1001	Power Divider	HP	11636B	JC-2017-10-002	2026-02-05	2027-02-04
WTXW1105A1135	RF Attenuator	Pasternack	N-JK	/	2026-02-05	2027-02-04
WTXW1105A1136	RF Attenuator	Pasternack	N-JK	/	2026-02-05	2027-02-04
WTXE1103A1003	Attenuator	Pasternack	PE4007-4	/	2026-02-05	2027-02-04
WTXE1091A1001	UXM 5G Wireless Test Platform	KEYSIGHT	E7515B	MY57450525	2026-02-06	2027-02-05

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with SMTIMO, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. Please see the following photos for the liquid height.



Liquid Height for Head/Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Sugar (%)	HEC (%)	Preventol (%)	DGBE (%)
Head						
750	41.1	1.4	57.0	0.2	0.3	0
835	40.3	1.38	57.9	0.24	0.18	0
900	40.3	1.38	57.9	0.24	0.18	0
1800-2000	55.24	0.31	0	0	0	44.45
2300	55.40	0.08	0	0	0	44.52
2450	55.00	0	0	0	0	45.00
2600	55.242	0.306	0	0	0	44.452
3500	71.6	1.3	10.9	0.7	0.7	14.8
3700	71.7	1.3	10.8	0.6	0.8	14.8

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)
Head			
5000-6000	65.52	17.24	17.24

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

According to FCC KDBs, IEC/IEEE 62209-1528:2020 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

Target Frequency (MHz)	Head		Body	
	Conductivity (σ)	Permittivity (ϵ_r)	Conductivity (σ)	Permittivity (ϵ_r)
150	0.76	52.3	0.80	61.9
300	0.87	45.3	0.92	58.2
450	0.87	43.5	0.94	56.7
750	0.89	41.9	0.96	55.5
835	0.90	41.5	0.97	55.2
900	0.97	41.5	1.05	55.0
915	0.98	41.5	1.06	55.0
1450	1.20	40.5	1.30	54.0
1610	1.29	40.3	1.40	53.8
1800-2000	1.40	40.0	1.52	53.3
2100	1.49	39.8	1.62	53.2
2300	1.67	39.5	1.81	52.9
2450	1.80	39.2	1.95	52.7
2600	1.96	39.0	2.16	52.5
3000	2.40	38.5	2.73	52.0
5200	4.66	36.0	5.30	49.0
5400	4.86	35.8	5.53	48.7
5600	5.07	35.5	5.77	48.5
5800	5.27	35.3	6.00	48.2

5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using COMOSAR Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Freq. MHz	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
750	22.5	0.86	0.89	-3.37	40.74	41.9	-2.77	±5	2026-09-20
835	22.5	0.88	0.90	-2.22	41.11	41.5	-0.94	±5	2026-09-21
1800	22.6	1.38	1.40	-1.43	39.37	40.0	-1.58	±5	2026-09-30
1900	22.6	1.39	1.40	-0.71	39.76	40.0	-0.60	±5	2026-09-18
2450	22.8	1.77	1.80	-1.67	38.62	39.2	-1.48	±5	2026-09-19
2600	22.8	1.97	1.96	0.51	38.39	39.0	-1.56	±5	2026-09-29
5200	22.6	4.62	4.66	-0.86	36.89	36.0	2.47	±5	2026-10-09
5250	22.6	4.62	4.66	-0.86	36.92	36.0	2.56	±5	2026-10-09
5750	22.6	5.23	5.27	-0.76	34.83	35.3	-1.33	±5	2026-10-09
5800	22.6	5.23	5.27	-0.76	34.79	35.3	-1.44	±5	2026-10-09

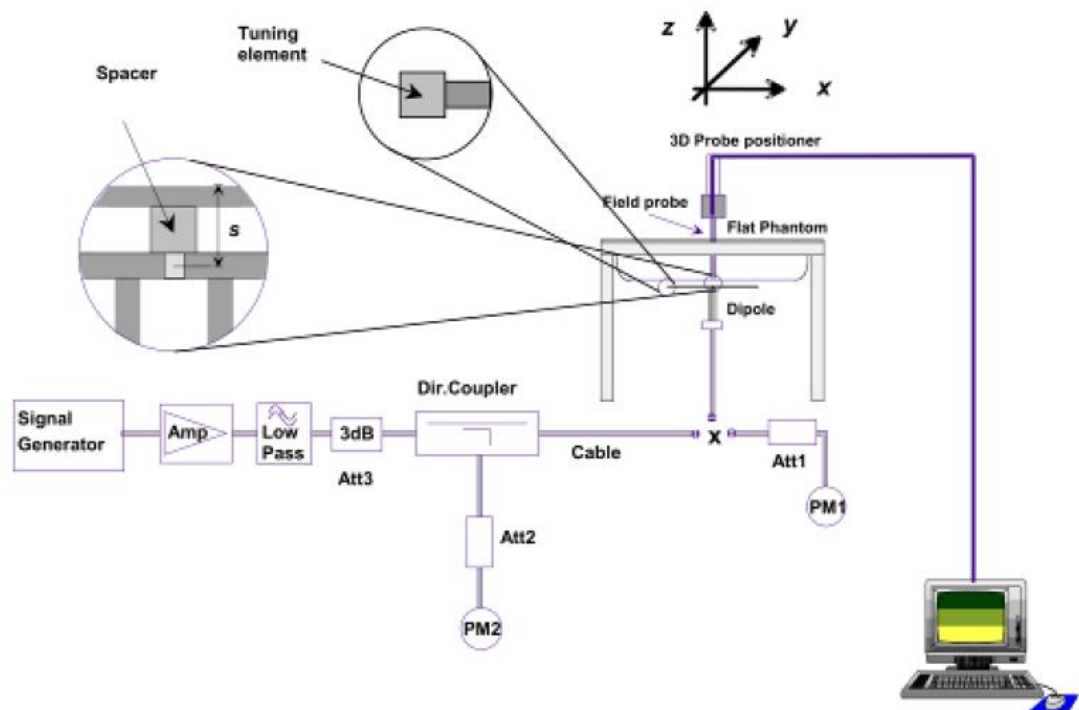
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. This setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

6.2 System Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave which comes from a signal generator at frequency 750MHz/835MHz/900MHz/1800MHz/1900MHz/2300MHz/2450MHz/2600MHz/5GHz. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom.



System Verification Setup Block Diagram



Setup Photo of Dipole Antenna

The output power on 750MHz/835MHz/900MHz/1800MHz/1900MHz/2300MHz/2450MHz/2600MHz/5GHz dipole port must be calibrated to 20dBm (100mW) before dipole is connected.

6.3 Validation Results

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10 %. Table 6.1 shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion.

Frequency	Power	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance	Date
MHz	(mw)	(W/kg)	(W/kg)	(W/kg)	(%)	
750	100	8.54	0.878	8.780	2.81	2026-09-20
835	100	9.49	0.985	9.850	3.79	2026-09-21
1800	100	38.50	3.753	37.530	-2.52	2026-09-30
1900	100	39.60	4.105	41.050	3.66	2026-09-18
2450	100	52.20	4.958	49.580	-5.02	2026-09-19
2600	100	52.20	5.791	57.910	5.87	2026-09-29
5250	100	76.10	7.465	74.650	-1.91	2026-10-09
5750	100	77.30	7.659	76.590	-0.92	2026-10-09

Remark: Referring to IEC/IEEE 62209-1528:2020, the system check shall be performed at a test frequency that is within ±10% or ±100 MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

Please refer to Annex A for the plots of system performance check.

7. EUT Testing Position

7.1 Body Position

- (a) To position the device parallel to the phantom surface with each side.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 0mm.

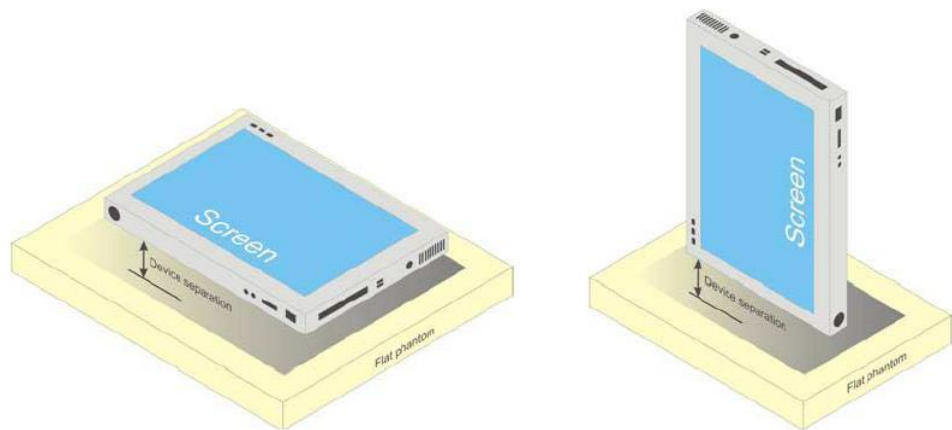


Illustration for Body Position

7.2 EUT Antenna Position

Please refer to the Annex for SAR

7.3 EUT Testing Position

Body mode SAR assessments are required for this device. This EUT was tested in different positions for different SAR test modes, more information as below:

Body SAR tests, Test distance: 0mm						
Antennas	Front Side	Back Side	Right Side	Left Side	Top Side	Bottom Side
WWAN	No	No	Yes ^{er}	Yes ^{er}	No	Yes ^{er}
WIFI/ Bluetooth	No	No	Yes ^{er}	No	No	No

Remark:

- Referring to KDB 447498 D01 v06, and 775926 D01 SAR Testing for Irregular Shaped Devices DR01-46042; this device is tested in direct contact (no gap) with flat phantom. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge.
- ^{er} Remark: Due to the spherical shape of the EUT the antenna is affixed to the inner side of the sphere, so the EUT cannot be placed in full contact with the flat-bottom SAR phantom. For 4G LTE antenna testing, three distinct points on the spherical surface were placed in contact with the flat-bottom SAR phantom

respectively for measurements. For Bluetooth/Wi-Fi antenna testing, the antenna location was positioned against the flat-bottom SAR phantom during testing.

3. Referring to KDB 648474 D04 Handset SAR v01r03, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

Please refer to Annex D for the EUT test setup photos.

8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the 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

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

8.3 Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan measures 5x5x7 points with step size 8, 8 and 5 mm for 300 MHz to 3 GHz, and 8x8x8 points with step size 4, 4 and 2.5 mm for 3 GHz to 6 GHz. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

8.4 Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing (step-size is 4, 4 and 2.5 mm). When all volume scan were completed, the software can combine and subsequently superpose these measurement data to calculating the multiband SAR.

8.5 SAR Averaged Methods

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 minimize 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 1mm 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 10g and 1 g requires a very fine resolution in the three dimensional scanned data array.

8.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In SATIMO 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 dB. If the power drift more than 5%, the SAR will be retested.

9. SAR Test Result

9.1 Conducted RF Output Power

1.3. Maximum Conducted Output Power and Emission Designator

LTE Band 2	Maximum Conducted Output Power (dBm)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	23.27	22.12	21.03	17M9G7D	4M54W7D	2M20W7D
15	22.85	22.13	20.94	13M5G7D	4M55W7D	2M21W7D
10	22.76	22.03	20.85	8M99G7D	4M52W7D	2M20W7D
5	22.72	21.93	20.95	4M51G7D	4M51W7D	2M19W7D
3	22.72	21.93	20.95	2M71G7D	2M71W7D	2M20W7D
1.4	22.59	21.80	20.82	1M10G7D	1M11W7D	1M10W7D

LTE Band 5	Maximum Conducted Output Power (dBm)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	23.42	22.40	21.10	8M99G7D	4M52W7D	2M21W7D
5	23.10	22.21	20.91	4M51G7D	4M51W7D	2M19W7D
3	22.89	22.49	20.88	2M71G7D	2M72W7D	2M21W7D
1.4	22.79	21.69	20.96	1M10G7D	1M11W7D	1M10W7D

LTE Band 12	Maximum Conducted Output Power (dBm)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	23.37	22.61	21.67	9M00G7D	4M52W7D	2M20W7D
5	23.03	22.30	21.36	4M51G7D	4M51W7D	2M19W7D
3	22.91	22.18	21.24	2M72G7D	2M71W7D	2M20W7D
1.4	22.93	22.20	21.26	1M10G7D	1M11W7D	1M10W7D

LTE Band 66	Maximum Conducted Output Power (dBm)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	23.53	22.35	21.83	17M9G7D	4M55W7D	2M23W7D
15	23.46	22.27	21.75	13M5G7D	4M54W7D	2M21W7D
10	23.41	22.23	21.71	9M00G7D	4M52W7D	2M21W7D
5	23.32	22.14	21.62	4M51G7D	4M51W7D	2M19W7D
3	23.37	22.19	21.67	2M72G7D	2M71W7D	2M20W7D
1.4	23.26	22.16	21.64	1M10G7D	1M11W7D	1M10W7D

LTE Band 41	Maximum Conducted Output Power (dBm)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
20	24.17	23.33	22.29	17M9G7D	4M54W7D	2M21W7D
15	24.04	23.30	22.26	13M5G7D	4M53W7D	2M19W7D
10	23.84	23.10	22.06	8M99G7D	4M52W7D	2M19W7D
5	23.66	22.92	21.88	4M51G7D	4M50W7D	2M17W7D

2.1.4. Result

Conducted Output Power

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18700	18900	19100
Frequency (MHz)				1860	1880	1900
20	QPSK	1	0	23.11	23.09	23.27
20	QPSK	1	49	22.91	22.95	22.88
20	QPSK	1	99	22.85	22.92	22.89
20	QPSK	50	0	22.41	22.48	22.44
20	QPSK	50	24	22.43	22.37	22.35
20	QPSK	50	50	22.40	22.43	22.36
20	QPSK	100	0	22.43	22.44	22.33
20	16QAM	1	0	22.10	22.01	21.84
20	16QAM	1	12	21.98	22.07	22.02
20	16QAM	1	24	22.08	21.85	22.12
20	16QAM	25	0	20.58	20.53	20.57
20	16QAM	25	24	20.79	20.64	20.63
20	16QAM	25	49	20.66	20.69	20.71
20	64QAM	1	0	20.74	20.88	20.83
20	64QAM	1	5	20.77	21.03	20.71
20	64QAM	1	11	20.87	20.75	20.71
20	64QAM	6	0	20.53	20.42	20.42
20	64QAM	6	2	20.36	20.37	20.44
20	64QAM	6	6	20.49	20.42	20.47
20	64QAM	12	0	20.41	20.44	20.43

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18675	18900	19125
Frequency (MHz)				1857.5	1880	1902.5
15	QPSK	1	0	22.79	22.85	22.81
15	QPSK	1	37	22.78	22.82	22.75
15	QPSK	1	74	22.72	22.79	22.76
15	QPSK	36	0	22.49	22.42	22.45
15	QPSK	36	20	22.44	22.38	22.36
15	QPSK	36	39	22.41	22.44	22.37
15	QPSK	75	0	22.44	22.45	22.34
15	16QAM	1	0	22.11	22.02	21.85
15	16QAM	1	12	21.99	22.08	22.03
15	16QAM	1	24	22.09	21.86	22.13
15	16QAM	25	0	20.64	20.59	20.63
15	16QAM	25	24	20.85	20.70	20.69
15	16QAM	25	49	20.72	20.75	20.77
15	64QAM	1	0	20.80	20.94	20.89
15	64QAM	1	5	20.83	20.87	20.77
15	64QAM	1	11	20.93	20.81	20.63
15	64QAM	6	0	20.40	20.29	20.29
15	64QAM	6	2	20.23	20.24	20.31
15	64QAM	6	6	20.36	20.29	20.34
15	64QAM	12	0	20.28	20.31	20.30

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18650	18900	19150
Frequency (MHz)				1855	1880	1905
10	QPSK	1	0	22.70	22.76	22.72
10	QPSK	1	25	22.69	22.73	22.66
10	QPSK	1	49	22.63	22.70	22.67
10	QPSK	25	0	22.39	22.32	22.35
10	QPSK	25	12	22.34	22.28	22.26
10	QPSK	25	25	22.31	22.34	22.27
10	QPSK	50	0	22.34	22.35	22.24
10	16QAM	1	0	22.01	21.92	21.75
10	16QAM	1	12	21.89	21.98	21.93
10	16QAM	1	24	21.99	21.76	22.03
10	16QAM	25	0	20.55	20.50	20.54
10	16QAM	25	24	20.76	20.61	20.60
10	64QAM	1	0	20.71	20.85	20.80
10	64QAM	1	5	20.74	20.78	20.68
10	64QAM	1	11	20.84	20.72	20.54
10	64QAM	6	0	20.31	20.20	20.20
10	64QAM	6	2	20.14	20.15	20.22
10	64QAM	6	6	20.27	20.20	20.25
10	64QAM	12	0	20.19	20.22	20.21

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18625	18900	19175
Frequency (MHz)				1852.5	1880	1907.5
5	QPSK	1	0	22.61	22.72	22.63
5	QPSK	1	12	22.60	22.64	22.57
5	QPSK	1	24	22.54	22.61	22.58
5	QPSK	12	0	22.29	22.22	22.25
5	QPSK	12	7	22.24	22.18	22.16
5	QPSK	12	13	22.21	22.24	22.17
5	QPSK	25	0	22.24	22.25	22.14
5	16QAM	1	0	21.91	21.82	21.65
5	16QAM	1	12	21.79	21.88	21.83
5	16QAM	1	24	21.89	21.66	21.93
5	16QAM	12	0	20.65	20.60	20.64
5	16QAM	12	7	20.86	20.71	20.70
5	16QAM	12	13	20.73	20.76	20.78
5	16QAM	25	0	20.71	20.73	20.69
5	64QAM	1	0	20.81	20.95	20.90
5	64QAM	1	5	20.84	20.88	20.78
5	64QAM	1	11	20.94	20.82	20.64
5	64QAM	6	0	20.22	20.11	20.11
5	64QAM	6	2	20.05	20.06	20.13
5	64QAM	6	6	20.18	20.11	20.16
5	64QAM	12	0	20.10	20.13	20.12

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18615	18900	19185
Frequency (MHz)				1851.5	1880	1908.5
3	QPSK	1	0	22.52	22.63	22.54
3	QPSK	1	8	22.51	22.55	22.48
3	QPSK	1	14	22.45	22.52	22.49
3	QPSK	8	0	22.20	22.13	22.16
3	QPSK	8	4	22.15	22.09	22.07
3	QPSK	8	7	22.12	22.15	22.08
3	QPSK	15	0	22.15	22.16	22.05
3	16QAM	1	0	21.82	21.73	21.56
3	16QAM	1	8	21.70	21.79	21.74
3	16QAM	1	14	21.80	21.57	21.84
3	16QAM	8	0	20.56	20.51	20.55
3	16QAM	8	4	20.77	20.62	20.61
3	16QAM	8	7	20.64	20.67	20.69
3	16QAM	15	0	20.62	20.64	20.60
3	64QAM	1	0	20.72	20.86	20.81
3	64QAM	1	5	20.75	20.79	20.69
3	64QAM	1	11	20.85	20.73	20.55
3	64QAM	6	0	20.13	20.02	20.02
3	64QAM	6	2	19.96	19.97	20.04
3	64QAM	6	6	20.09	20.02	20.07
3	64QAM	12	0	20.01	20.04	20.03

LTE Band 2						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				18607	18900	19193
Frequency (MHz)				1850.7	1880	1909.3
1.4	QPSK	1	0	22.48	22.59	22.50
1.4	QPSK	1	3	22.47	22.51	22.44
1.4	QPSK	1	5	22.41	22.48	22.45
1.4	QPSK	3	0	22.16	22.09	22.12
1.4	QPSK	3	1	22.11	22.05	22.03
1.4	QPSK	3	3	22.08	22.11	22.04
1.4	QPSK	6	0	22.11	22.12	22.01
1.4	16QAM	1	0	21.78	21.69	21.52
1.4	16QAM	1	3	21.66	21.75	21.70
1.4	16QAM	1	5	21.76	21.53	21.80
1.4	16QAM	3	0	20.52	20.47	20.51
1.4	16QAM	3	1	20.73	20.58	20.57
1.4	16QAM	3	3	20.60	20.63	20.65
1.4	16QAM	6	0	20.58	20.60	20.56
1.4	64QAM	1	0	20.68	20.82	20.77
1.4	64QAM	1	3	20.71	20.75	20.65
1.4	64QAM	1	5	20.81	20.69	20.51
1.4	64QAM	3	0	20.09	19.98	19.98
1.4	64QAM	3	1	19.92	19.93	20.00
1.4	64QAM	3	3	20.05	19.98	20.03
1.4	64QAM	6	0	19.97	20.00	19.99

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20450	20525	20600
Frequency (MHz)				829	836.5	844
10	QPSK	1	0	23.41	23.42	23.29
10	QPSK	1	25	23.19	23.22	23.11
10	QPSK	1	49	23.09	23.15	23.03
10	QPSK	25	0	22.32	22.39	22.37
10	QPSK	25	12	22.33	22.30	22.25
10	QPSK	25	25	22.25	22.21	22.24
10	QPSK	50	0	22.14	22.16	22.13
10	16QAM	1	0	22.23	22.13	22.09
10	16QAM	1	12	22.22	22.40	22.26
10	16QAM	1	24	22.19	22.20	22.12
10	16QAM	25	0	20.97	20.88	20.85
10	16QAM	25	24	20.89	20.85	20.82
10	64QAM	1	0	21.03	21.10	20.99
10	64QAM	1	5	20.90	20.88	20.94
10	64QAM	1	11	21.05	20.85	21.01
10	64QAM	6	0	20.52	20.45	20.40
10	64QAM	6	2	20.60	20.40	20.45
10	64QAM	6	6	20.44	20.45	20.40
10	64QAM	12	0	20.45	20.42	20.44

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20425	20525	20625
Frequency (MHz)				826.5	836.5	846.5
5	QPSK	1	0	23.08	23.10	23.03
5	QPSK	1	12	23.00	23.03	22.92
5	QPSK	1	24	22.90	22.96	22.84
5	QPSK	12	0	22.13	22.20	22.18
5	QPSK	12	7	22.14	22.11	22.06
5	QPSK	12	13	22.06	22.02	22.05
5	QPSK	25	0	21.95	21.97	21.94
5	16QAM	1	0	22.04	21.94	21.90
5	16QAM	1	12	22.03	22.21	22.07
5	16QAM	1	24	22.00	22.01	21.93
5	16QAM	12	0	20.78	20.69	20.86
5	16QAM	12	7	20.70	20.66	20.63
5	16QAM	12	13	20.78	20.74	20.69
5	64QAM	1	0	20.84	20.91	20.80
5	64QAM	1	5	20.71	20.69	20.75
5	64QAM	1	11	20.86	20.66	20.82
5	64QAM	6	0	20.81	20.74	20.69
5	64QAM	6	2	20.89	20.69	20.74
5	64QAM	6	6	20.73	20.74	20.69
5	64QAM	12	0	20.74	20.71	20.73

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20415	20525	20635
Frequency (MHz)				825.5	836.5	847.5
3	QPSK	1	0	22.87	22.89	22.82
3	QPSK	1	8	22.79	22.82	22.71
3	QPSK	1	14	22.69	22.75	22.63
3	QPSK	8	0	22.23	22.30	22.28
3	QPSK	8	4	22.24	22.21	22.16
3	QPSK	8	7	22.16	22.12	22.15
3	QPSK	15	0	22.05	22.07	22.04
3	16QAM	1	0	22.32	22.22	22.18
3	16QAM	1	8	22.31	22.49	22.35
3	16QAM	1	14	22.28	22.29	22.21
3	16QAM	8	0	20.75	20.66	20.63
3	16QAM	8	4	20.67	20.63	20.60
3	64QAM	1	0	20.81	20.88	20.77
3	64QAM	1	5	20.68	20.66	20.72
3	64QAM	1	11	20.83	20.63	20.79
3	64QAM	6	0	20.42	20.35	20.30
3	64QAM	6	2	20.50	20.30	20.35
3	64QAM	6	6	20.34	20.35	20.30
3	64QAM	12	0	20.35	20.32	20.34

LTE Band 5						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				20407	20525	20643
Frequency (MHz)				824.7	836.5	848.3
1.4	QPSK	1	0	22.77	22.79	22.72
1.4	QPSK	1	3	22.69	22.72	22.61
1.4	QPSK	1	5	22.59	22.65	22.53
1.4	QPSK	3	0	22.31	22.38	22.36
1.4	QPSK	3	1	22.32	22.29	22.24
1.4	QPSK	3	3	22.24	22.20	22.23
1.4	QPSK	6	0	21.97	21.99	21.96
1.4	16QAM	1	0	21.34	21.24	21.20
1.4	16QAM	1	3	21.33	21.51	21.37
1.4	16QAM	1	5	21.30	21.31	21.23
1.4	16QAM	3	0	21.69	21.60	21.57
1.4	16QAM	3	1	21.61	21.57	21.54
1.4	16QAM	3	3	21.69	21.65	21.60
1.4	16QAM	6	0	21.05	20.91	20.88
1.4	64QAM	1	0	20.89	20.96	20.85
1.4	64QAM	1	3	20.76	20.74	20.80
1.4	64QAM	1	5	20.91	20.71	20.87
1.4	64QAM	3	0	20.86	20.79	20.74
1.4	64QAM	3	1	20.94	20.74	20.79
1.4	64QAM	3	3	20.78	20.79	20.74
1.4	64QAM	6	0	20.25	20.22	20.24

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23060	23095	23130
Frequency (MHz)				704	707.5	711
10	QPSK	1	0	23.26	23.37	23.32
10	QPSK	1	25	23.24	23.27	23.28
10	QPSK	1	49	23.14	23.29	23.31
10	QPSK	25	0	22.47	22.48	22.41
10	QPSK	25	12	22.43	22.34	22.41
10	QPSK	25	25	22.43	22.38	22.35
10	QPSK	50	0	22.37	22.43	22.42
10	16QAM	1	0	22.61	22.58	22.45
10	16QAM	1	12	22.36	22.43	22.43
10	16QAM	1	24	22.41	22.36	22.47
10	16QAM	25	0	21.39	21.41	21.52
10	16QAM	25	24	21.37	21.42	21.39
10	64QAM	1	0	21.53	21.48	21.38
10	64QAM	1	5	21.59	21.54	21.52
10	64QAM	1	11	21.65	21.67	21.61
10	64QAM	6	0	20.49	20.69	20.53
10	64QAM	6	2	20.56	20.62	20.64
10	64QAM	6	6	20.51	20.58	20.52
10	64QAM	12	0	20.55	20.53	20.56

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23035	23095	23155
Frequency (MHz)				701.5	707.5	713.5
5	QPSK	1	0	22.95	23.03	23.01
5	QPSK	1	12	22.93	22.96	22.97
5	QPSK	1	24	22.83	22.98	23.00
5	QPSK	12	0	22.16	22.13	22.10
5	QPSK	12	7	22.12	22.03	22.10
5	QPSK	12	13	22.12	22.07	22.04
5	QPSK	25	0	22.06	22.05	22.11
5	16QAM	1	0	22.30	22.27	22.14
5	16QAM	1	12	22.05	22.12	22.12
5	16QAM	1	24	22.10	22.05	22.16
5	16QAM	12	0	21.08	21.10	21.21
5	16QAM	12	7	21.06	21.11	21.08
5	16QAM	12	13	21.18	21.15	21.17
5	64QAM	1	0	21.22	21.17	21.07
5	64QAM	1	5	21.28	21.23	21.21
5	64QAM	1	11	21.34	21.36	21.30
5	64QAM	6	0	20.18	20.38	20.22
5	64QAM	6	2	20.25	20.31	20.33
5	64QAM	6	6	20.20	20.27	20.21
5	64QAM	12	0	20.24	20.22	20.25

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23025	23095	23165
Frequency (MHz)				700.5	707.5	714.5
3	QPSK	1	0	22.83	22.91	22.89
3	QPSK	1	8	22.81	22.84	22.85
3	QPSK	1	14	22.71	22.86	22.88
3	QPSK	8	0	22.04	22.01	21.98
3	QPSK	8	4	22.00	21.91	21.98
3	QPSK	8	7	22.00	21.95	21.92
3	QPSK	15	0	21.94	21.93	21.99
3	16QAM	1	0	22.18	22.15	22.02
3	16QAM	1	8	21.93	22.00	22.00
3	16QAM	1	14	21.98	21.93	22.04
3	16QAM	8	0	20.96	20.98	21.09
3	16QAM	8	4	20.94	20.99	20.96
3	64QAM	1	0	21.10	21.05	20.95
3	64QAM	1	5	21.16	21.11	21.09
3	64QAM	1	11	21.22	21.24	21.18
3	64QAM	6	0	20.71	20.39	20.75
3	64QAM	6	2	20.78	20.84	20.86
3	64QAM	6	6	20.73	20.80	20.74
3	64QAM	12	0	20.77	20.75	20.78

LTE Band 12						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23017	23095	23173
Frequency (MHz)				699.7	707.5	715.3
1.4	QPSK	1	0	22.85	22.93	22.91
1.4	QPSK	1	3	22.83	22.86	22.87
1.4	QPSK	1	5	22.73	22.88	22.90
1.4	QPSK	3	0	22.06	22.03	22.00
1.4	QPSK	3	1	22.02	21.93	22.00
1.4	QPSK	3	3	22.02	21.97	21.94
1.4	QPSK	6	0	21.96	21.95	22.01
1.4	16QAM	1	0	22.20	22.17	22.04
1.4	16QAM	1	3	21.95	22.02	22.02
1.4	16QAM	1	5	22.00	21.95	22.06
1.4	16QAM	3	0	20.98	21.00	21.11
1.4	16QAM	3	1	20.96	21.01	20.98
1.4	16QAM	3	3	21.08	21.05	21.07
1.4	16QAM	6	0	21.12	21.06	21.03
1.4	64QAM	1	0	21.12	21.07	20.97
1.4	64QAM	1	3	21.18	21.13	21.11
1.4	64QAM	1	5	21.24	21.26	21.20
1.4	64QAM	3	0	20.96	21.16	21.00
1.4	64QAM	3	1	21.03	21.09	21.11
1.4	64QAM	3	3	20.98	21.05	20.99
1.4	64QAM	6	0	20.83	20.81	20.84

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132072	132322	132572
Frequency (MHz)				1720	1745	1770
20	QPSK	1	0	23.38	23.53	23.46
20	QPSK	1	49	23.18	23.05	23.11
20	QPSK	1	99	23.22	23.14	23.06
20	QPSK	50	0	22.21	22.23	22.14
20	QPSK	50	24	22.17	21.99	22.06
20	QPSK	50	50	22.17	22.03	22.00
20	QPSK	100	0	22.11	22.13	22.07
20	16QAM	1	0	22.35	22.23	22.10
20	16QAM	1	12	22.10	22.08	22.08
20	16QAM	1	24	22.15	22.01	22.12
20	16QAM	25	0	21.57	21.50	21.61
20	16QAM	25	24	21.55	21.51	21.48
20	16QAM	25	49	21.67	21.55	21.57
20	64QAM	1	0	21.71	21.57	21.47
20	64QAM	1	5	21.77	21.63	21.61
20	64QAM	1	11	21.83	21.76	21.70
20	64QAM	6	0	21.55	21.66	21.50
20	64QAM	6	2	21.62	21.59	21.61
20	64QAM	6	6	21.57	21.55	21.49
20	64QAM	12	0	21.61	21.50	21.53

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132047	132322	132597
Frequency (MHz)				1717.5	1745	1772.5
15	QPSK	1	0	23.30	23.28	23.46
15	QPSK	1	37	23.10	22.97	23.03
15	QPSK	1	74	23.14	23.06	22.98
15	QPSK	36	0	22.13	22.15	22.06
15	QPSK	36	20	22.09	21.91	21.98
15	QPSK	36	39	22.09	21.95	21.92
15	QPSK	75	0	22.03	22.05	21.99
15	16QAM	1	0	22.27	22.15	22.02
15	16QAM	1	12	22.02	22.00	22.00
15	16QAM	1	24	22.07	21.93	22.04
15	16QAM	25	0	21.49	21.42	21.53
15	16QAM	25	24	21.47	21.43	21.40
15	16QAM	25	49	21.59	21.47	21.49
15	64QAM	1	0	21.63	21.49	21.39
15	64QAM	1	5	21.69	21.55	21.53
15	64QAM	1	11	21.75	21.68	21.62
15	64QAM	6	0	21.47	21.58	21.42
15	64QAM	6	2	21.54	21.51	21.53
15	64QAM	6	6	21.49	21.47	21.41
15	64QAM	12	0	21.53	21.42	21.45

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				132022	132322	132622
Frequency (MHz)				1715	1745	1775
10	QPSK	1	0	23.41	23.24	23.38
10	QPSK	1	25	23.06	22.93	22.99
10	QPSK	1	49	23.10	23.02	22.94
10	QPSK	25	0	22.09	22.11	22.02
10	QPSK	25	12	22.05	21.87	21.94
10	QPSK	25	25	22.05	21.91	21.88
10	QPSK	50	0	21.99	22.01	21.95
10	16QAM	1	0	22.23	22.11	21.98
10	16QAM	1	12	21.98	21.96	21.96
10	16QAM	1	24	22.03	21.89	22.00
10	16QAM	25	0	21.45	21.38	21.49
10	16QAM	25	24	21.43	21.39	21.36
10	64QAM	1	0	21.59	21.45	21.35
10	64QAM	1	5	21.65	21.51	21.49
10	64QAM	1	11	21.71	21.64	21.58
10	64QAM	6	0	21.43	21.54	21.38
10	64QAM	6	2	21.50	21.47	21.49
10	64QAM	6	6	21.45	21.43	21.37
10	64QAM	12	0	21.49	21.38	21.41

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131997	132322	132647
Frequency (MHz)				1712.5	1745	1777.5
5	QPSK	1	0	23.32	23.15	23.29
5	QPSK	1	12	22.97	22.84	22.90
5	QPSK	1	24	23.01	22.93	22.85
5	QPSK	12	0	22.00	22.02	21.93
5	QPSK	12	7	21.96	21.78	21.85
5	QPSK	12	13	21.96	21.82	21.79
5	QPSK	25	0	21.90	21.92	21.86
5	16QAM	1	0	22.14	22.02	21.89
5	16QAM	1	12	21.89	21.87	21.87
5	16QAM	1	24	21.94	21.80	21.91
5	16QAM	12	0	21.36	21.29	21.40
5	16QAM	12	7	21.34	21.30	21.27
5	16QAM	12	13	21.46	21.34	21.36
5	16QAM	25	0	21.50	21.35	21.32
5	64QAM	1	0	21.50	21.36	21.26
5	64QAM	1	5	21.56	21.42	21.40
5	64QAM	1	11	21.62	21.55	21.49
5	64QAM	6	0	21.34	21.45	21.29
5	64QAM	6	2	21.41	21.38	21.40
5	64QAM	6	6	21.36	21.34	21.28
5	64QAM	12	0	21.40	21.29	21.32

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131987	132322	132657
Frequency (MHz)				1711.5	1745	1778.5
3	QPSK	1	0	23.37	23.20	23.34
3	QPSK	1	8	23.02	22.89	22.95
3	QPSK	1	14	23.06	22.98	22.90
3	QPSK	8	0	22.05	22.07	21.98
3	QPSK	8	4	22.01	21.83	21.90
3	QPSK	8	7	22.01	21.87	21.84
3	QPSK	15	0	21.95	21.97	21.91
3	16QAM	1	0	22.19	22.07	21.94
3	16QAM	1	8	21.94	21.92	21.92
3	16QAM	1	14	21.99	21.85	21.96
3	16QAM	8	0	21.41	21.34	21.45
3	16QAM	8	4	21.39	21.35	21.32
3	16QAM	8	7	21.51	21.39	21.41
3	16QAM	15	0	21.55	21.40	21.37
3	64QAM	1	0	21.55	21.41	21.31
3	64QAM	1	5	21.61	21.47	21.45
3	64QAM	1	11	21.67	21.60	21.54
3	64QAM	6	0	21.39	21.50	21.34
3	64QAM	6	2	21.46	21.43	21.45
3	64QAM	6	6	21.41	21.39	21.33
3	64QAM	12	0	21.45	21.34	21.37

LTE Band 66						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				131979	132322	132665
Frequency (MHz)				1710.7	1745	1779.3
1.4	QPSK	1	0	23.23	23.26	23.12
1.4	QPSK	1	3	22.99	22.86	22.92
1.4	QPSK	1	5	23.03	22.95	22.87
1.4	QPSK	3	0	22.02	22.04	21.95
1.4	QPSK	3	1	21.98	21.80	21.87
1.4	QPSK	3	3	21.98	21.84	21.81
1.4	QPSK	6	0	21.92	21.94	21.88
1.4	16QAM	1	0	22.16	22.04	21.91
1.4	16QAM	1	3	21.91	21.89	21.89
1.4	16QAM	1	5	21.96	21.82	21.93
1.4	16QAM	3	0	21.38	21.31	21.42
1.4	16QAM	3	1	21.36	21.32	21.29
1.4	16QAM	3	3	21.48	21.36	21.38
1.4	16QAM	6	0	21.52	21.37	21.34
1.4	64QAM	1	0	21.52	21.38	21.28
1.4	64QAM	1	3	21.58	21.44	21.42
1.4	64QAM	1	5	21.64	21.57	21.51
1.4	64QAM	3	0	21.36	21.47	21.31
1.4	64QAM	3	1	21.43	21.40	21.42
1.4	64QAM	3	3	21.38	21.36	21.30
1.4	64QAM	6	0	21.42	21.31	21.34

LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39750	40620	41490
Frequency (MHz)				2506	2593	2680
20	QPSK	1	0	24.11	24.17	23.96
20	QPSK	1	49	23.80	23.72	23.75
20	QPSK	1	99	23.72	23.60	23.67
20	QPSK	50	0	22.95	23.05	23.03
20	QPSK	50	24	22.99	22.98	22.85
20	QPSK	50	50	23.03	22.92	22.72
20	QPSK	100	0	22.97	23.04	22.82
20	16QAM	1	0	23.33	23.21	23.12
20	16QAM	1	12	23.11	23.14	23.07
20	16QAM	1	24	23.03	23.12	23.04
20	16QAM	25	0	22.28	22.08	21.89
20	16QAM	25	24	22.11	22.05	21.92
20	16QAM	25	49	21.99	21.94	21.88
20	64QAM	1	0	22.29	22.10	22.04
20	64QAM	1	5	21.93	22.02	21.94
20	64QAM	1	11	22.06	22.06	21.99
20	64QAM	6	0	21.82	21.62	21.36
20	64QAM	6	2	21.73	21.60	21.54
20	64QAM	6	6	21.66	21.56	21.48
20	64QAM	12	0	21.79	21.74	21.63

LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39725	40620	41515
Frequency (MHz)				2503.5	2593	2682.5
15	QPSK	1	0	23.76	24.04	23.79
15	QPSK	1	37	23.77	23.69	23.72
15	QPSK	1	74	23.69	23.57	23.64
15	QPSK	36	0	22.92	23.17	22.72
15	QPSK	36	20	23.16	22.95	22.82
15	QPSK	36	39	23.10	22.89	22.69
15	QPSK	75	0	23.16	23.01	22.79
15	16QAM	1	0	23.30	23.18	23.09
15	16QAM	1	12	23.08	23.11	23.04
15	16QAM	1	24	23.00	23.09	23.01
15	16QAM	25	0	22.25	22.05	21.86
15	16QAM	25	24	22.08	22.02	21.89
15	16QAM	25	49	21.96	21.91	21.85
15	64QAM	1	0	22.26	22.07	22.01
15	64QAM	1	5	21.90	21.99	21.91
15	64QAM	1	11	22.03	22.03	21.96
15	64QAM	6	0	21.79	21.59	21.33
15	64QAM	6	2	21.70	21.57	21.51
15	64QAM	6	6	21.63	21.53	21.45
15	64QAM	12	0	21.76	21.71	21.60

LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39700	40620	41540
Frequency (MHz)				2501	2593	2685
10	QPSK	1	0	23.56	23.84	23.59
10	QPSK	1	25	23.57	23.49	23.52
10	QPSK	1	49	23.49	23.37	23.44
10	QPSK	25	0	22.72	22.97	22.52
10	QPSK	25	12	22.96	22.75	22.62
10	QPSK	25	25	22.90	22.69	22.49
10	QPSK	50	0	22.96	22.81	22.59
10	16QAM	1	0	23.10	22.98	22.89
10	16QAM	1	12	22.88	22.91	22.84
10	16QAM	1	24	22.80	22.89	22.81
10	16QAM	25	0	22.05	21.85	21.66
10	16QAM	25	24	21.88	21.82	21.69
10	64QAM	1	0	22.06	21.87	21.81
10	64QAM	1	5	21.70	21.79	21.71
10	64QAM	1	11	21.83	21.83	21.76
10	64QAM	6	0	21.59	21.39	21.13
10	64QAM	6	2	21.50	21.37	21.31
10	64QAM	6	6	21.43	21.33	21.25
10	64QAM	12	0	21.56	21.51	21.40

LTE Band 41						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				39675	40620	41565
Frequency (MHz)				2498.5	2593	2687.5
5	QPSK	1	0	23.38	23.66	23.41
5	QPSK	1	12	23.39	23.31	23.34
5	QPSK	1	24	23.31	23.19	23.26
5	QPSK	12	0	22.54	22.79	22.34
5	QPSK	12	7	22.78	22.57	22.44
5	QPSK	12	13	22.72	22.51	22.31
5	QPSK	25	0	22.78	22.63	22.41
5	16QAM	1	0	22.92	22.80	22.71
5	16QAM	1	12	22.70	22.73	22.66
5	16QAM	1	24	22.62	22.71	22.63
5	16QAM	12	0	21.87	21.67	21.48
5	16QAM	12	7	21.70	21.64	21.51
5	16QAM	12	13	21.58	21.53	21.47
5	64QAM	1	0	21.88	21.69	21.63
5	64QAM	1	5	21.52	21.61	21.53
5	64QAM	1	11	21.65	21.65	21.58
5	64QAM	6	0	21.41	21.21	20.95
5	64QAM	6	2	21.32	21.19	21.13
5	64QAM	6	6	21.25	21.15	21.07
5	64QAM	12	0	21.38	21.33	21.22

Note: The FDD-LTE Band 2/5/12/66/TDD-LTE Band 41 Output power are provided by FCC ID: ZMOLE271GL for test report SZ25120010W01.

Remark:

1. Per KDB941225 D05 v02r05, Start with the largest channel bandwidth then measure SAR for QPSK with 1 RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle, and lower edge of each required test channel. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
2. Per KDB941225 D05 v02r05, the procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
3. Per KDB941225 D05 v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations, and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB941225 D05 v02r05, for each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

WLAN(2.4GHz)					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11b	1Mbps	CH 01	2412	15.21	15.5
		CH 06	2437	14.08	14.5
		CH 11	2462	14.65	15.0
802.11g	6Mbps	CH 01	2412	14.20	14.5
		CH 06	2437	14.06	14.5
		CH 11	2462	13.65	14.5
802.11n-HT20	MCS0	CH 01	2412	13.07	14.0
		CH 06	2437	13.21	14.0
		CH 11	2462	12.61	14.0
802.11ax-HE20	MCS0	CH 01	2412	12.47	13.0
		CH 06	2437	12.69	13.0
		CH 11	2462	12.48	13.0

WLAN(5.2GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	36	5180	13.68	14.0
	40	5200	13.89	14.0
	48	5240	12.57	13.0
802.11n-HT20	36	5180	13.12	14.0
	40	5200	13.25	14.0
	48	5240	11.92	12.0
802.11ac-VHT20	36	5180	13.02	14.0
	40	5200	13.19	14.0
	48	5240	11.84	12.0
802.11ax-HE20	36	5180	13.61	14.0
	40	5200	13.15	14.0
	48	5240	11.02	12.0

WLAN(5.8GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	149	5745	11.67	12.0
	157	5785	10.49	11.0
	165	5825	9.48	10.0
802.11n-HT20	149	5745	11.68	12.0
	157	5785	9.71	10.0
	165	5825	8.85	9.0
802.11ac-VHT20	149	5755	11.52	12.0
	157	5795	9.54	10.0
	165	5775	9.03	10.0
802.11ax-HE20	149	5755	11.18	12.0
	157	5795	8.64	9.0
	165	5775	9.96	10.0

Remark:

1. Per KDB 248227 D01 v02r02, for 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.
2. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements, when the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 3 .For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.

Bluetooth - Maximum Output Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
LE	1Mbps	CH 00	2402	6.99	7.5
		CH 19	2440	6.64	7.5
		CH 39	2480	6.86	7.5
	2Mbps	CH 01	2404	7.03	7.5
		CH 19	2440	6.85	7.5
		CH 38	2478	7.03	7.5

9.2 Test Results for Standalone SAR Test

Body SAR

LTE Band 2–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
1.	QPSK 20MHz 1RB	Right Side	1900	23.27	23.50	1.054	0.994	1.048
	QPSK 20MHz 1RB	Left Side	1900	23.27	23.50	1.054	0.730	0.770
	QPSK 20MHz 1RB	Bottom Side	1900	23.27	23.50	1.054	1.213	1.279
	QPSK 20MHz 1RB	Right Side	1860	23.11	23.50	1.094	0.798	0.873
	QPSK 20MHz 1RB	Right Side	1880	23.09	23.50	1.099	1.141	1.254
	QPSK 20MHz 1RB	Bottom Side	1860	23.11	23.50	1.094	0.727	0.795
	QPSK 20MHz 1RB	Bottom Side	1880	23.09	23.50	1.099	0.975	1.072
	QPSK 20MHz 50%RB	Right Side	1900	23.27	23.50	1.054	0.856	0.903
	QPSK 20MHz 50%RB	Left Side	1900	23.27	23.50	1.054	0.623	0.657
	QPSK 20MHz 50%RB	Bottom Side	1900	23.27	23.50	1.054	0.925	0.975
	QPSK 20MHz 50%RB	Right Side	1860	23.11	23.50	1.094	0.812	0.888
	QPSK 20MHz 50%RB	Right Side	1880	23.09	23.50	1.099	0.798	0.877
	QPSK 20MHz 50%RB	Bottom Side	1860	23.11	23.50	1.094	0.987	1.080
	QPSK 20MHz 50%RB	Bottom Side	1880	23.09	23.50	1.099	1.048	1.152

LTE Band 5–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
2.	QPSK 10MHz 1RB	Right Side	836.5	23.42	23.50	1.019	0.437	0.445
	QPSK 10MHz 1RB	Left Side	836.5	23.42	23.50	1.019	0.259	0.264
	QPSK 10MHz 1RB	Bottom Side	836.5	23.42	23.50	1.019	0.620	0.632
	QPSK 10MHz 1RB	Bottom Side	829	23.41	23.50	1.021	0.697	0.712
	QPSK 10MHz 1RB	Bottom Side	844	23.29	23.50	1.050	0.264	0.277
	QPSK 10MHz 50%RB	Right Side	836.5	23.42	23.50	1.019	0.403	0.410
	QPSK 10MHz 50%RB	Left Side	836.5	23.42	23.50	1.019	0.221	0.225
	QPSK 10MHz 50%RB	Bottom Side	836.5	23.42	23.50	1.019	0.604	0.615
	QPSK 10MHz 50%RB	Bottom Side	829	23.41	23.50	1.021	0.663	0.677
	QPSK 10MHz 50%RB	Bottom Side	844	23.29	23.50	1.050	0.231	0.242

LTE Band 12–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 10MHz 1RB	Right Side	707.5	23.37	23.50	1.030	0.701	0.722
	QPSK 10MHz 1RB	Left Side	707.5	23.37	23.50	1.030	0.726	0.748
3.	QPSK 10MHz 1RB	Bottom Side	707.5	23.37	23.50	1.030	1.256	1.294
	QPSK 10MHz 1RB	Bottom Side	704	23.26	23.50	1.057	0.794	0.839
	QPSK 10MHz 1RB	Bottom Side	711	23.32	23.50	1.042	0.696	0.725
	QPSK 10MHz 50%RB	Right Side	707.5	23.37	23.50	1.030	0.623	0.642
	QPSK 10MHz 50%RB	Left Side	707.5	23.37	23.50	1.030	0.634	0.653
	QPSK 10MHz 50%RB	Bottom Side	707.5	23.37	23.50	1.030	0.829	0.854
	QPSK 10MHz 50%RB	Bottom Side	704	23.26	23.50	1.057	0.763	0.806
	QPSK 10MHz 50%RB	Bottom Side	711	23.32	23.50	1.042	0.672	0.700

LTE Band 66–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Side	1745	23.53	24.00	1.114	0.292	0.325
	QPSK 20MHz 1RB	Left Side	1745	23.53	24.00	1.114	0.625	0.696
	QPSK 20MHz 1RB	Bottom Side	1745	23.53	24.00	1.114	0.763	0.850
	QPSK 20MHz 1RB	Bottom Side	1720	23.38	24.00	1.153	1.045	1.205
4.	QPSK 20MHz 1RB	Bottom Side	1770	23.46	24.00	1.132	1.121	1.269
	QPSK 20MHz 50%RB	Right Side	1745	23.53	24.00	1.114	0.222	0.247
	QPSK 20MHz 50%RB	Left Side	1745	23.53	24.00	1.114	0.539	0.601
	QPSK 20MHz 50%RB	Bottom Side	1745	23.53	24.00	1.114	0.613	0.683
	QPSK 20MHz 50%RB	Bottom Side	1720	23.38	24.00	1.153	0.742	0.856
	QPSK 20MHz 50%RB	Bottom Side	1770	23.46	24.00	1.132	0.777	0.880

LTE Band 41–Body SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Side	2593	24.17	24.50	1.079	0.309	0.333
	QPSK 20MHz 1RB	Left Side	2593	24.17	24.50	1.079	0.793	0.856
	QPSK 20MHz 1RB	Bottom Side	2593	24.17	24.50	1.079	0.516	0.557
5.	QPSK 20MHz 1RB	Left Side	2506	24.11	24.50	1.094	0.859	0.940
	QPSK 20MHz 1RB	Left Side	2680	23.96	24.50	1.132	0.717	0.812
	QPSK 20MHz 50%RB	Right Side	2593	24.17	24.50	1.079	0.236	0.255
	QPSK 20MHz 50%RB	Left Side	2593	24.17	24.50	1.079	0.489	0.528
	QPSK 20MHz 50%RB	Bottom Side	2593	24.17	24.50	1.079	0.306	0.330
	QPSK 20MHz 50%RB	Left Side	2506	24.11	24.50	1.094	0.590	0.645
	QPSK 20MHz 50%RB	Left Side	2680	23.96	24.50	1.132	0.452	0.512
	QPSK 20MHz 50%RB	Right Side	2593	24.17	24.50	1.079	0.236	0.255

WLAN 2.4GHz –Body SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11b	Right Side	1	2412	15.21	15.50	1.069	0.917	0.980
6.	802.11b	Right Side	6	2437	14.08	14.50	1.102	1.116	1.229
	802.11b	Right Side	11	2462	14.65	15.00	1.084	1.031	1.118

Bluetooth–Body SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
7.	LE-2Mbps	Right Side	CH 01	2404	7.03	7.50	1.114	0.691	0.770
	LE-2Mbps	Right Side	CH 38	2478	7.03	7.50	1.114	0.621	0.692

WLAN 5.2GHz –Body SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11a	Right Side	40	5200	13.89	14.00	1.026	0.872	0.894
8.	802.11a	Right Side	36	5180	13.68	14.00	1.076	0.865	0.931
	802.11a	Right Side	48	5240	12.57	13.00	1.104	0.763	0.842

WLAN 5.8GHz –Body SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
9.	802.11n-HT20	Right Side	149	5745	11.68	12.00	1.076	1.276	1.374
	802.11n-HT20	Right Side	157	5785	9.71	10.00	1.069	0.841	0.899
	802.11n-HT20	Right Side	165	5825	8.85	9.00	1.035	0.608	0.629

Note: Wi-Fi / Bluetooth and LTE Cat.1bis do not support simultaneous transmission.

Remark: Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.

Repeated SAR

LTE Band 2–Body SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 20MHz 1RB	Right Side	1900	0.994	0.975	/	0.994	/
QPSK 20MHz 1RB	Bottom Side	1900	1.213	1.176	1.191	1.213	1.018
QPSK 20MHz 1RB	Right Side	1880	1.141	1.112	/	1.141	/
QPSK 20MHz 1RB	Bottom Side	1880	0.975	0.952	/	0.975	/
QPSK 20MHz 50%RB	Right Side	1900	0.856	0.824	/	0.856	/
QPSK 20MHz 50%RB	Bottom Side	1900	0.925	0.893	/	0.925	/
QPSK 20MHz 50%RB	Right Side	1860	0.812	0.783	/	0.812	/
QPSK 20MHz 50%RB	Bottom Side	1860	0.987	0.954	/	0.987	/
QPSK 20MHz 50%RB	Bottom Side	1880	1.048	1.005	/	1.048	/

LTE Band 12–Body SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 10MHz 1RB	Bottom Side	707.5	1.256	1.206	1.224	1.041	1.026
QPSK 10MHz 50%RB	Bottom Side	707.5	0.829	0.798	/	1.039	/

LTE Band 66–Body SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 20MHz 1RB	Bottom Side	1720	1.045	1.012	/	1.033	/
QPSK 20MHz 1RB	Bottom Side	1770	1.121	1.083	/	1.035	/

LTE Band 41–Body SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 20MHz 1RB	Left Side	2506	0.859	0.821	/	1.046	/

WLAN 2.4GHz –Body SAR Test(0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
802.11b	Right Side	2412	0.917	0.893	/	1.027	/
802.11b	Right Side	2437	1.116	1.098	/	1.016	/
802.11b	Right Side	2462	1.031	1.005	/	1.026	/

WLAN 5.2GHz –Body SAR Test(0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
802.11a	Right Side	5200	0.872	0.853	/	1.022	/
802.11a	Right Side	5180	0.865	0.834	/	1.037	/

WLAN 5.8GHz –Body SAR Test(0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
802.11n-HT20	Right Side	5745	1.276	1.243	1.231	1.027	1.037
802.11n-HT20	Right Side	5785	0.841	0.821	0.814	1.024	1.033

Remark:

- 1) Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.
- 2) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 3) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 4) 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).
- 5) 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 .

10. Measurement Uncertainty

10.1 Uncertainty for SAR Test

Input quantity X_i (source of uncertainty)	Ref.	Prob. Dist PDF_i	Unc. $a(x_i)$	Div. q_i	$u(x_i) =$ $a(x_i)/q_i$	c_i (1 g; 10 g)	$u(y) = c_i \cdot u(x_i)$	v_i or v_{eff}
Measurement System errors								
Probe calibration	8.4.1.1	N	7.00	2	3.5	1	3.5	∞
Probe calibration drift	8.4.1.2	R	0	$\sqrt{3}$	0	1	0	∞
Probe linearity and detection limit	8.4.1.3	R	5.00	$\sqrt{3}$	2.89	1	2.89	∞
Broadband signal	8.4.1.4	R	0	$\sqrt{3}$	0	1	0	∞
Probe isotropy	8.4.1.5	R	2.50	$\sqrt{3}$	1.44	1	1.44	∞
Other probe and data acquisition errors	8.4.1.6	N	0.02	1	0.02	1	0.02	∞
RF ambient and noise	8.4.1.7	N	0	1	0	1	0	∞
Probe positioning errors	8.4.1.8	N	1.40	1	1.40	$2/TM$	0.70	
Data processing errors	8.4.1.9	N	0.05	1	0.05	1	0.05	∞
Phantom and device (DUT or validation antenna) errors								
Measurement of phantom conductivity(σ)	8.4.2.1	N	4.00	1	4.00	c_{ϵ}, c_{σ}	4.00	∞
Temperature effects (medium)	8.4.2.2	R	2.50	$\sqrt{3}$	1.44	c_{ϵ}, c_{σ}	1.44	∞
Shell permittivity	8.4.2.3	R	5.00	$\sqrt{3}$	2.88	See 8.4.2.3	2.88	∞
Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	0.03	1	0.03	2	0.02	∞
Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	0.05	1	0.05	1	0.05	5
Device holder effects	8.4.2.6	N	5.00	1	5.00	1	5.00	
Effect of operating mode on probe sensitivity	8.4.2.7	R	0	$\sqrt{3}$	0	1	0	∞
Time-average SAR	8.4.2.8	R	0	$\sqrt{3}$	0	1	0	∞
Variation in SAR due to drift in output of DUT	8.4.2.9	N	5.00	1	5.00	1	5.00	
Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0	1	0	1	0	
Uncertainty in accepted power	8.4.2.11	N	0	1	0	1	0	

(validation measurement only)								
Corrections to the SAR result								
Phantom deviation from target (ϵ', σ)	8.4.3.1	N	0.05	1	0.05	1	0.05	
SAR scaling	8.4.3.2	R	2.00	$\sqrt{3}$	1.15	1	1.15	
Combined Standard Uncertainty		RSS			10.11		10.11	$V_{\text{eff}}^{\text{C}}$
Expanded uncertainty, U		K=2			20.23		20.23	

Annex A. Plots of System Performance Check

MEASUREMENT 1

Type: Validation measurement
Date of measurement: 2026-09-20
Measurement duration: 15 minutes 50 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.50; Calibrated: 2026-03-03

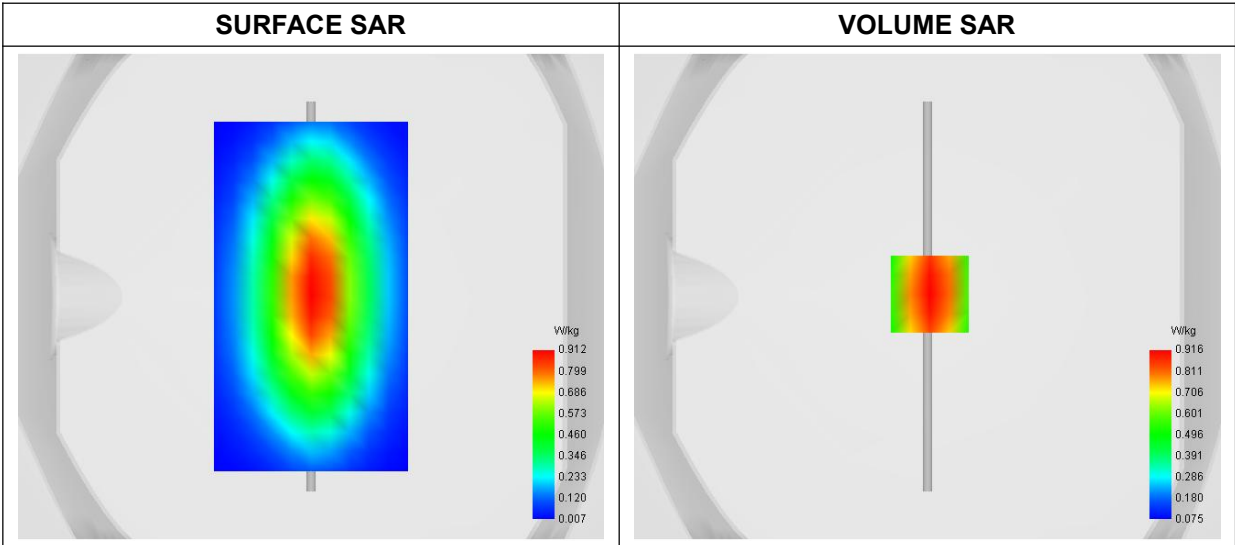
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative Permittivity (real part)	40.741585
Conductivity (S/m)	0.864623
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



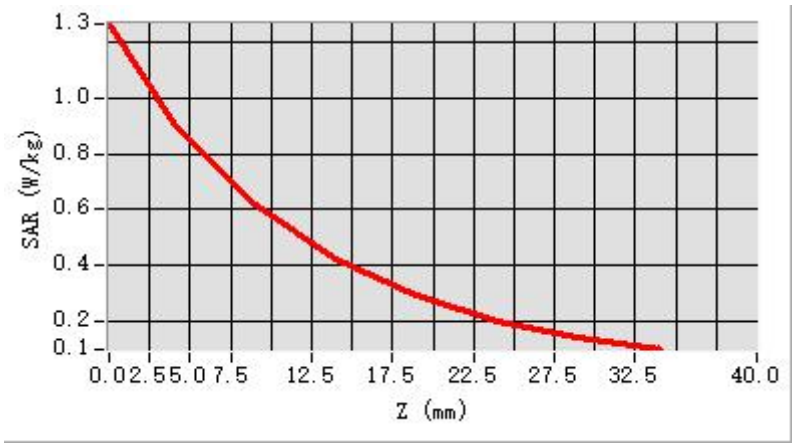
Maximum location: X=1.00, Y=1.00 ; SAR Peak: 1.26 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.566
SAR 1g (W/Kg)	0.878
Variation (%)	0.020
Horizontal validation criteria: minimum distance (mm)	15.754814
Vertical validation criteria: SAR ratio M2/M1 (%)	59.354771

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.268	0.916	0.614	0.422	0.291	0.199	0.136



MEASUREMENT 2

Type: Validation measurement
Date of measurement: 2026-09-21
Measurement duration: 15 minutes 50 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.45; Calibrated: 2026-03-03

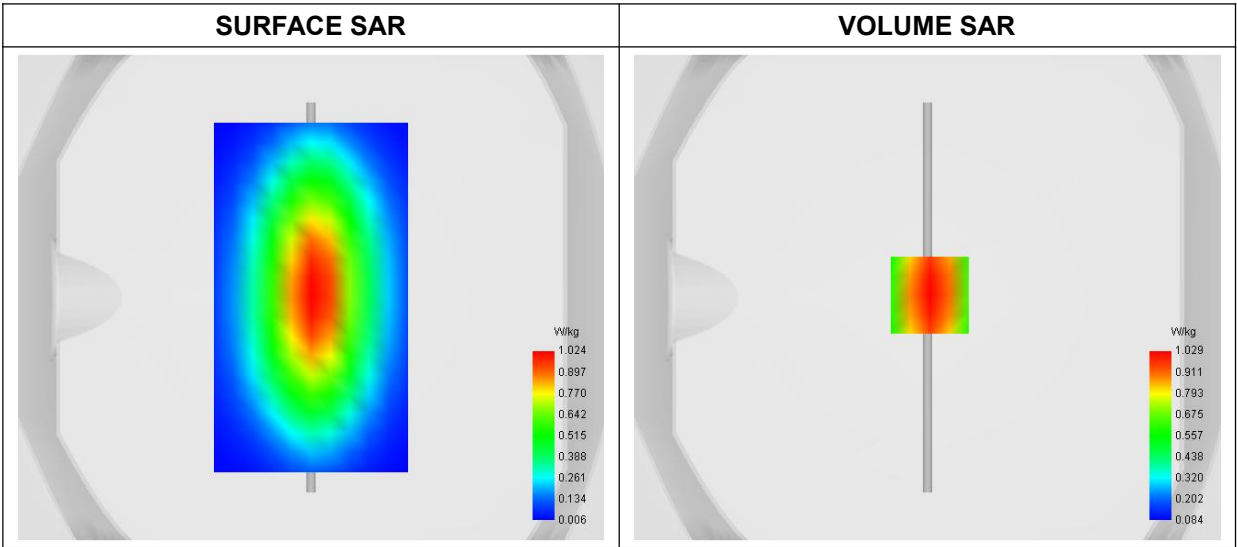
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.112387
Conductivity (S/m)	0.883826
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



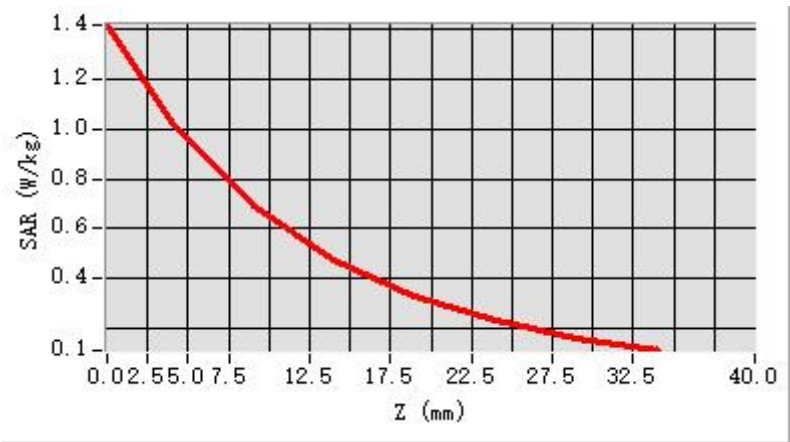
Maximum location: X=1.00, Y=1.00 ; SAR Peak: 1.41 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.636
SAR 1g (W/Kg)	0.985
Variation (%)	-0.260
Horizontal validation criteria: minimum distance (mm)	16.014114
Vertical validation criteria: SAR ratio M2/M1 (%)	59.037145

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.420	1.029	0.691	0.475	0.325	0.227	0.155



MEASUREMENT 3

Type: Validation measurement
Date of measurement: 2026-09-30
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.24; Calibrated: 2026-03-03

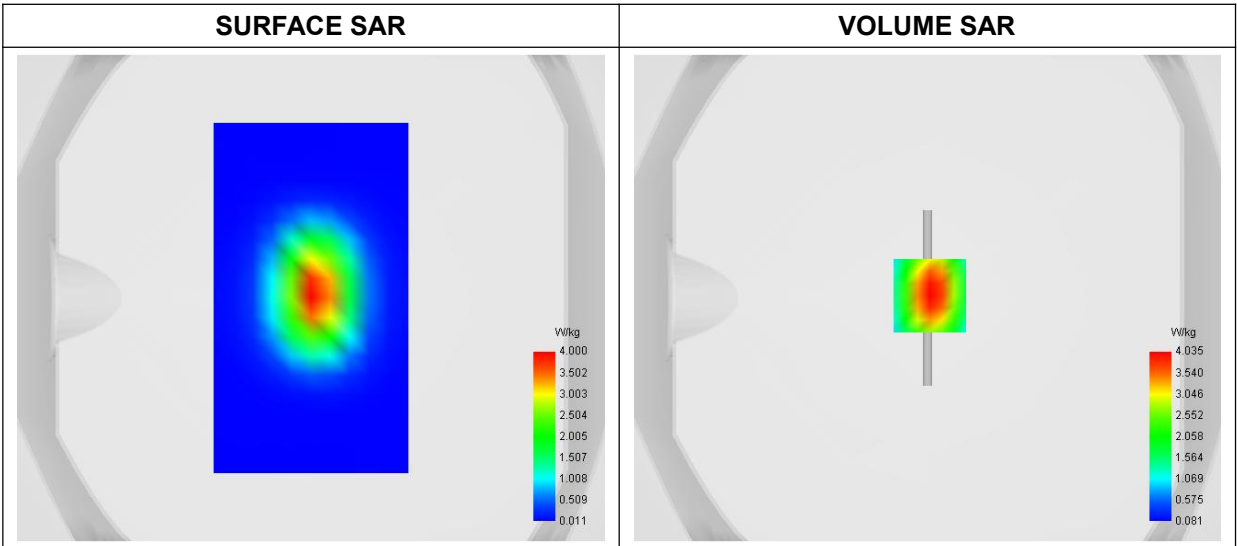
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1800.000000
Relative Permittivity (real part)	39.371565
Conductivity (S/m)	1.383812
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



Maximum location: X=1.00, Y=1.00 ; SAR Peak: 6.37 W/kg

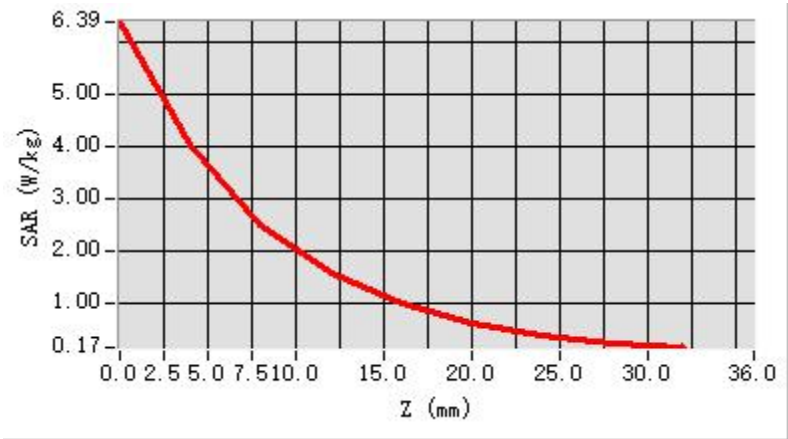
D. SAR 1g & 10g

SAR 10g (W/Kg)	1.970
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SAR 1g (W/Kg)	3.753
Variation (%)	0.110
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	62.153516

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	6.392	4.035	2.508	1.585	1.018	0.646	0.409	0.259



MEASUREMENT 4

Type: Validation measurement
Date of measurement: 2026-09-18
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.24; Calibrated: 2026-03-03

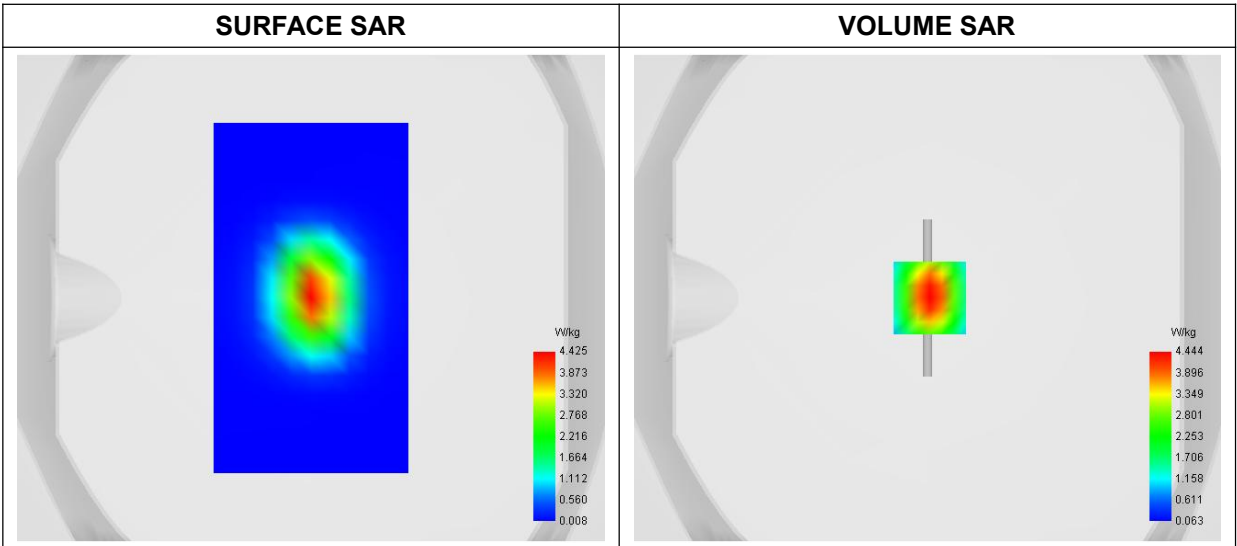
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	39.763268
Conductivity (S/m)	1.393817
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



Maximum location: X=1.00, Y=0.00 ; SAR Peak: 7.11 W/kg

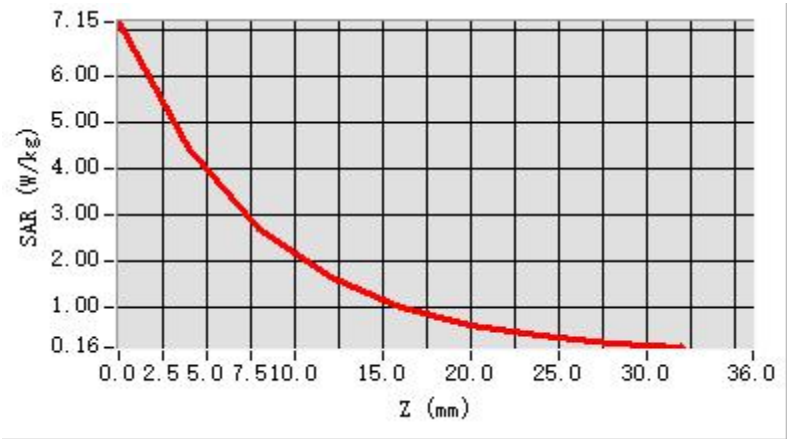
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.076
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SAR 1g (W/Kg)	4.105
Variation (%)	-0.200
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	60.679430

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	7.152	4.444	2.697	1.670	1.036	0.639	0.394	0.243



MEASUREMENT 5

Type: Validation measurement
Date of measurement: 2026-09-19
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.73; Calibrated: 2026-03-03

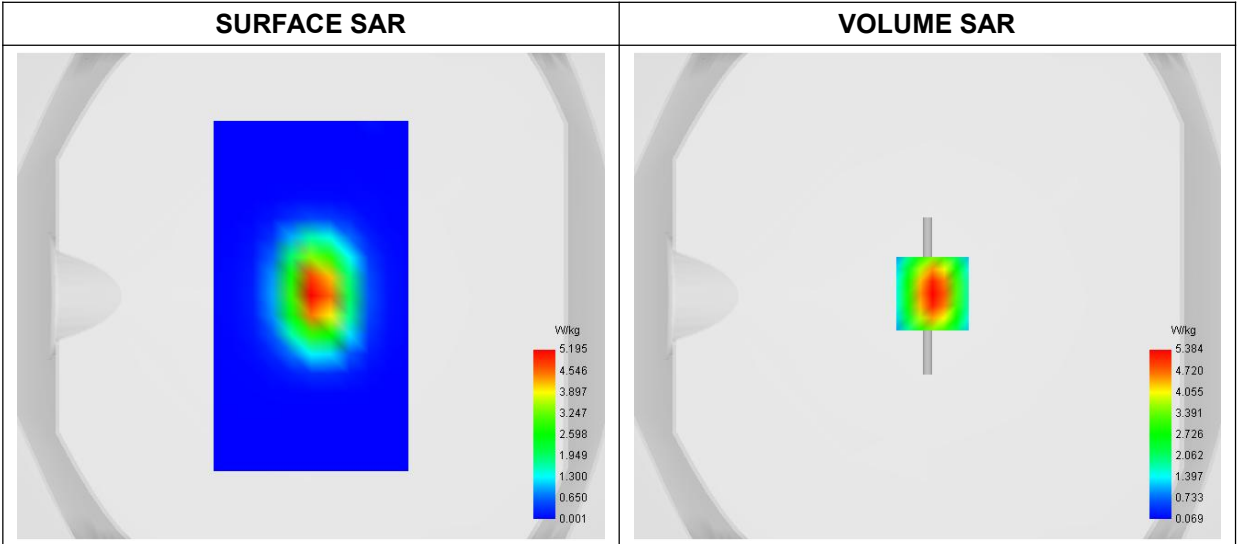
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.621438
Conductivity (S/m)	1.772578
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



Maximum location: X=2.00, Y=1.00 ; SAR Peak: 8.76 W/kg

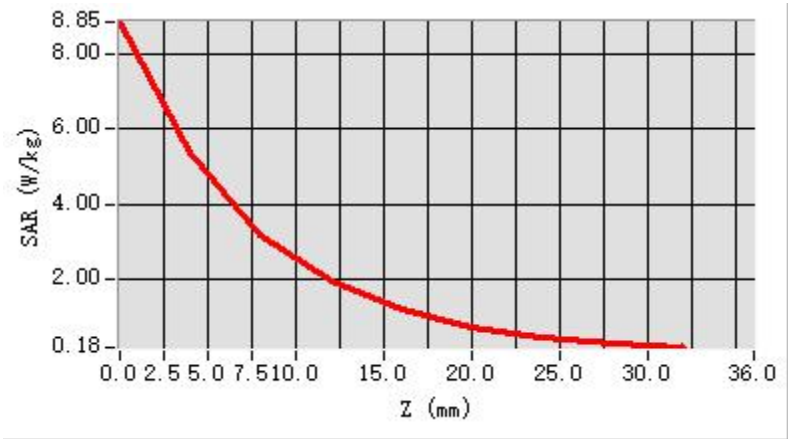
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.448
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SAR 1g (W/Kg)	4.958
Variation (%)	-0.100
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	59.248201

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	8.849	5.384	3.190	1.951	1.198	0.728	0.443	0.269



MEASUREMENT 6

Type: Validation measurement
Date of measurement: 2026-09-29
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.65; Calibrated: 2026-03-03

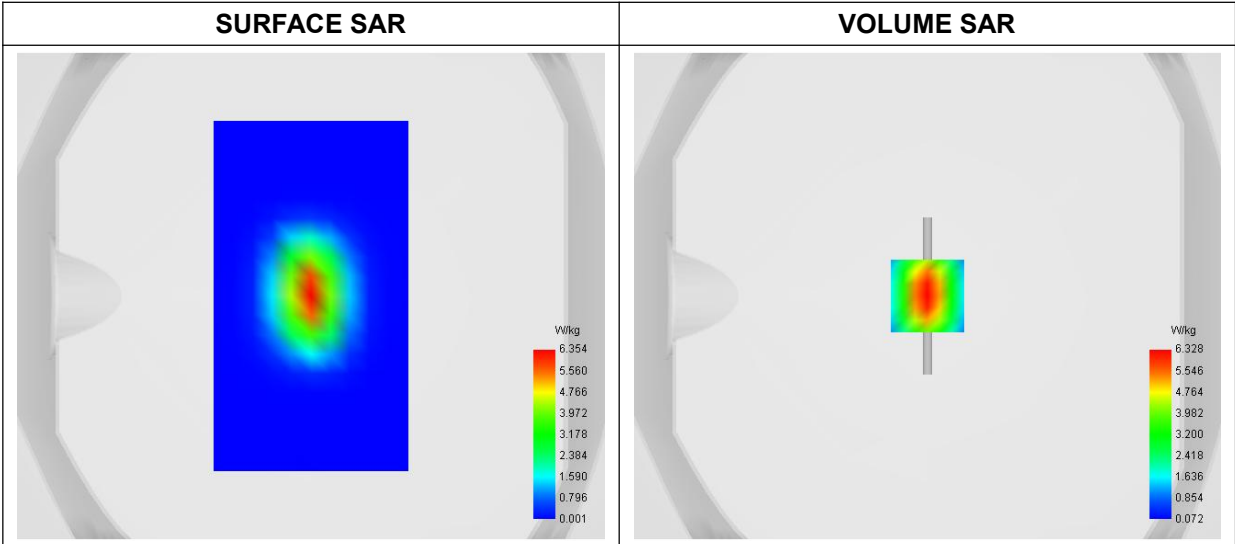
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	38.391353
Conductivity (S/m)	1.971574
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



Maximum location: X=0.00, Y=0.00 ; SAR Peak: 10.54 W/kg

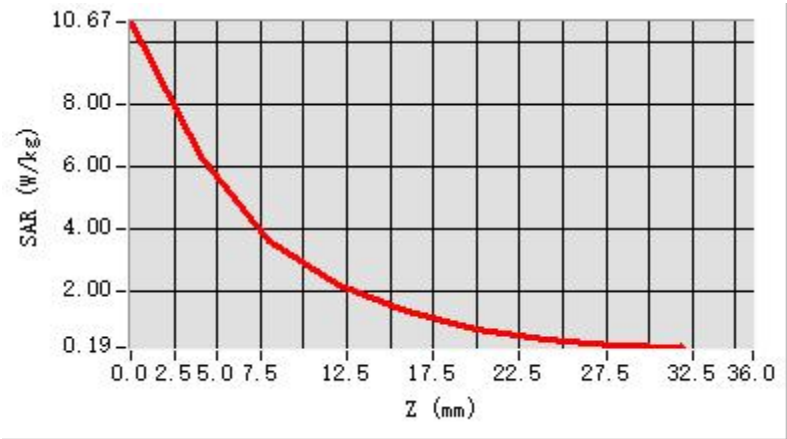
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.719
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SAR 1g (W/Kg)	5.791
Variation (%)	-0.130
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	57.588930

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	10.667	6.328	3.644	2.174	1.323	0.789	0.471	0.281



MEASUREMENT 7

Type: Validation measurement
Date of measurement: 2026-10-09
Measurement duration: 32 minutes 23 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.56; Calibrated: 2026-03-03

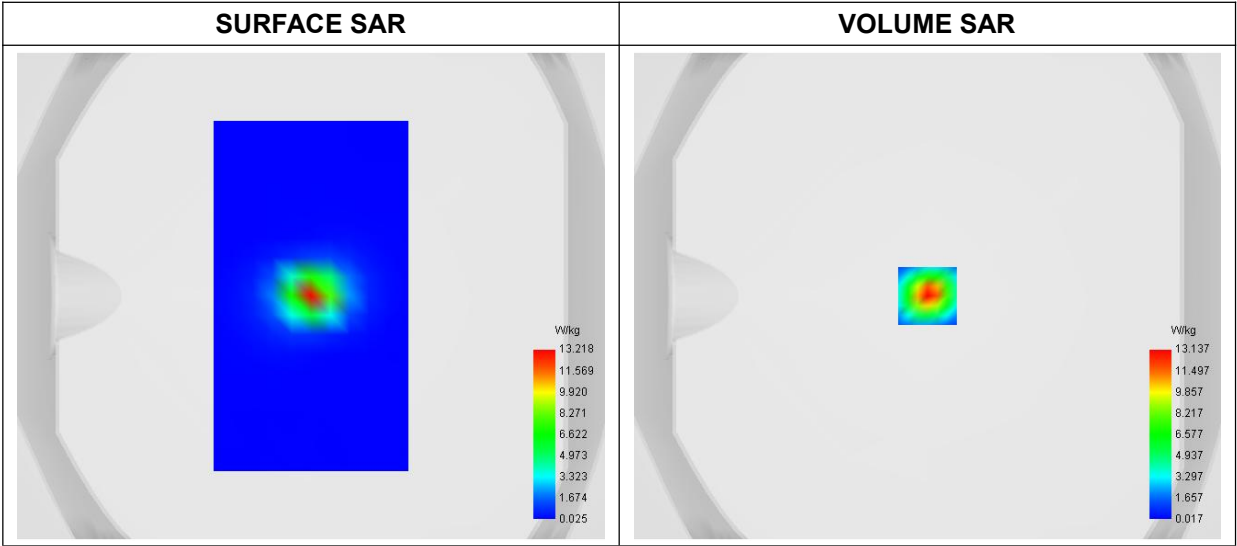
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5250
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5250.000000
Relative Permittivity (real part)	36.924823
Conductivity (S/m)	4.622471
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



Maximum location: X=0.00, Y=0.00 ; SAR Peak: 25.34 W/kg

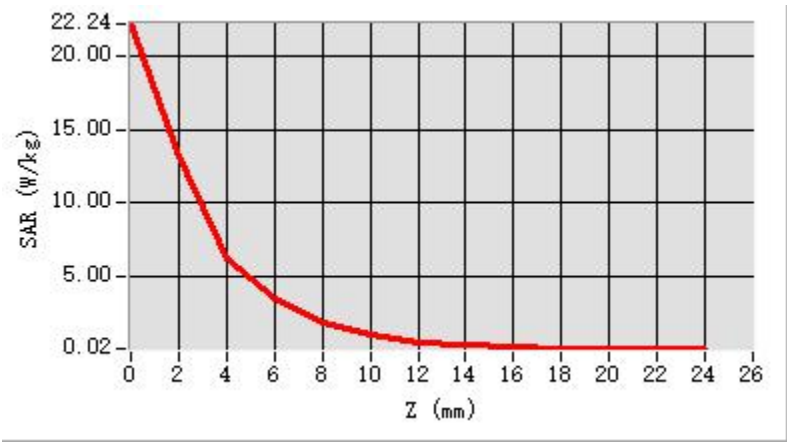
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.182
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SAR 1g (W/Kg)	7.465
Variation (%)	0.350
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	47.235916

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)	22.243	13.137	6.205	3.427	1.775	0.919	0.476	0.247	0.128	0.066	0.034	0.018	0.018



MEASUREMENT 8

Type: Validation measurement
Date of measurement: 2026-10-09
Measurement duration: 32 minutes 23 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.46; Calibrated:2026-03-03

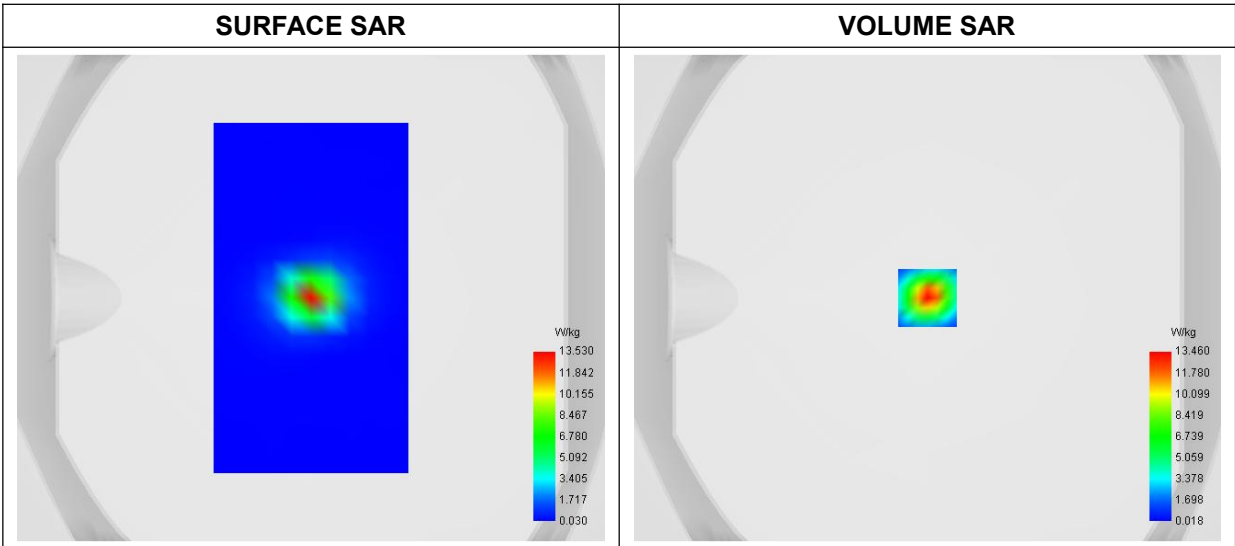
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5750
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	5750.000000
Relative Permittivity (real part)	34.834735
Conductivity (S/m)	5.233228
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



Maximum location: X=0.00, Y=0.00 ; SAR Peak: 26.17 W/kg

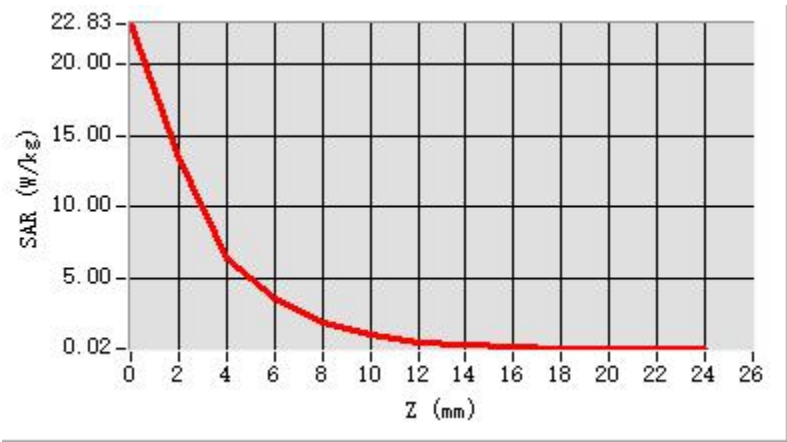
D. SAR 1g & 10g

SAR 10g (W/Kg)	2.235
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SAR 1g (W/Kg)	7.659
Variation (%)	0.570
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	46.770973

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)	22.826	13.460	6.295	3.492	1.805	0.933	0.483	0.249	0.129	0.067	0.034	0.018	0.018



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Measurement (Complete)
Date of measurement: 2026-09-18
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.63; Calibrated: 2026-03-03

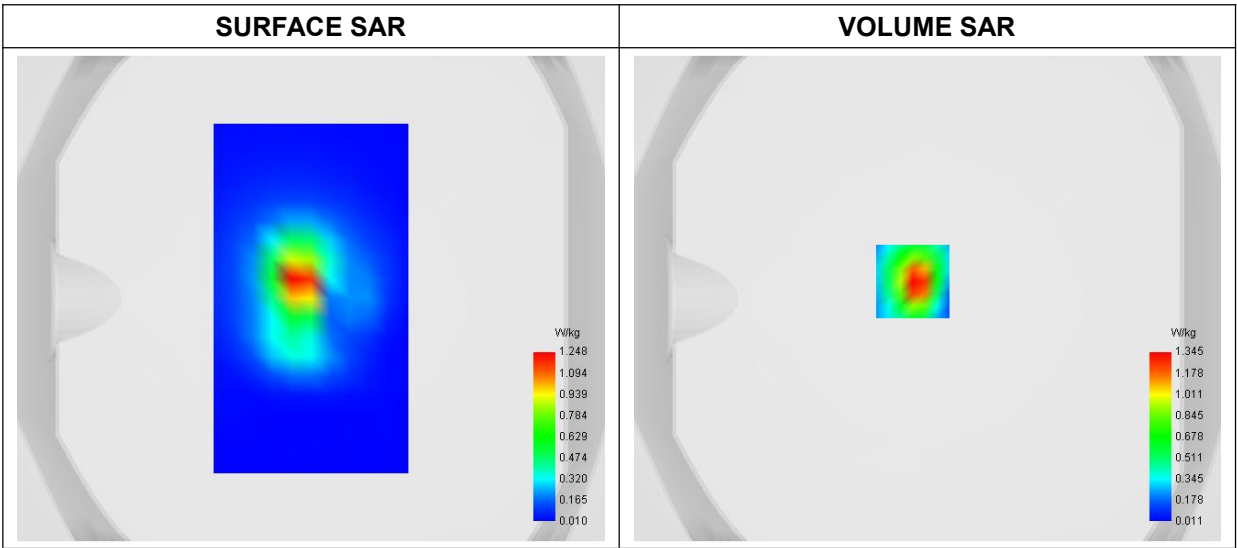
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 2
Channels	QPSK, 20MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	1.392624
Conductivity (S/m)	1.393853
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



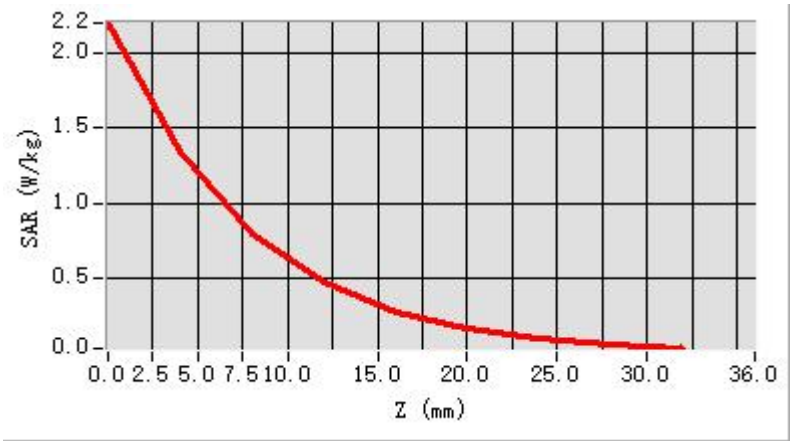
Maximum location: X=-6.00, Y=7.00 ; SAR Peak: 2.34 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.515
SAR 1g (W/Kg)	1.213
Variation (%)	1.540
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	59.268656

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	2.197	1.345	0.797	0.470	0.278	0.165	0.097	0.058



MEASUREMENT 2

Type: Measurement (Complete)
Date of measurement: 2026-09-21
Measurement duration: 15 minutes 50 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.45; Calibrated: 2026-03-03

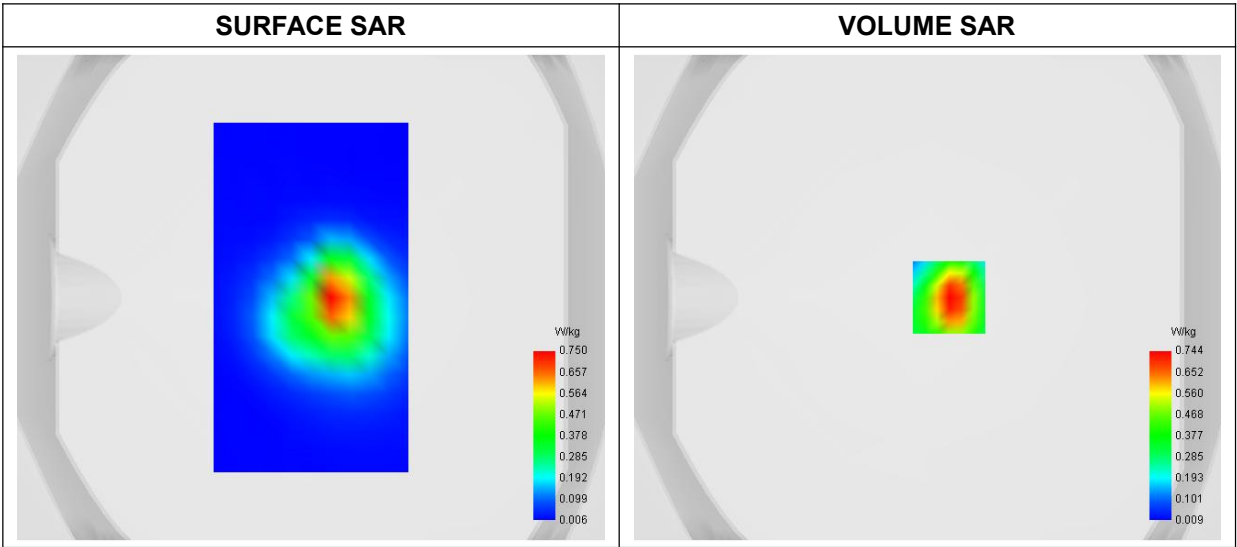
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	829.000000
Relative Permittivity (real part)	41.114755
Conductivity (S/m)	0.882459
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



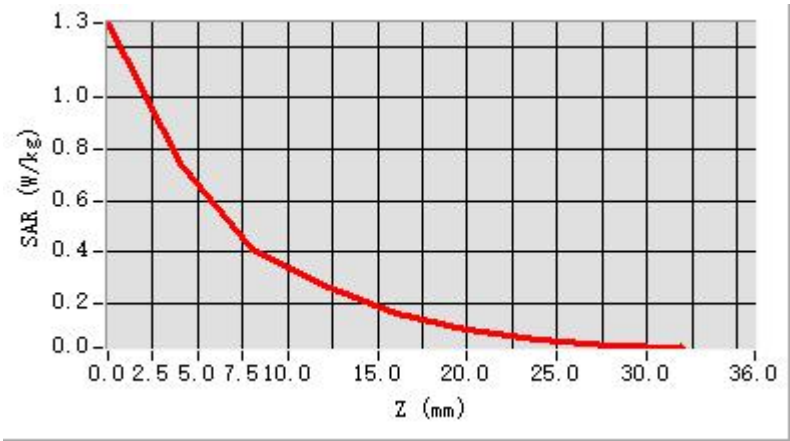
Maximum location: X=9.00, Y=0.00 ; SAR Peak: 1.28 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.340
SAR 1g (W/Kg)	0.697
Variation (%)	-4.925
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	54.991013

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	1.293	0.744	0.409	0.264	0.160	0.097	0.058	0.035



MEASUREMENT 3

Type: Measurement (Complete)
Date of measurement: 2026-09-20
Measurement duration: 15 minutes 50 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.50; Calibrated: 2026-03-03

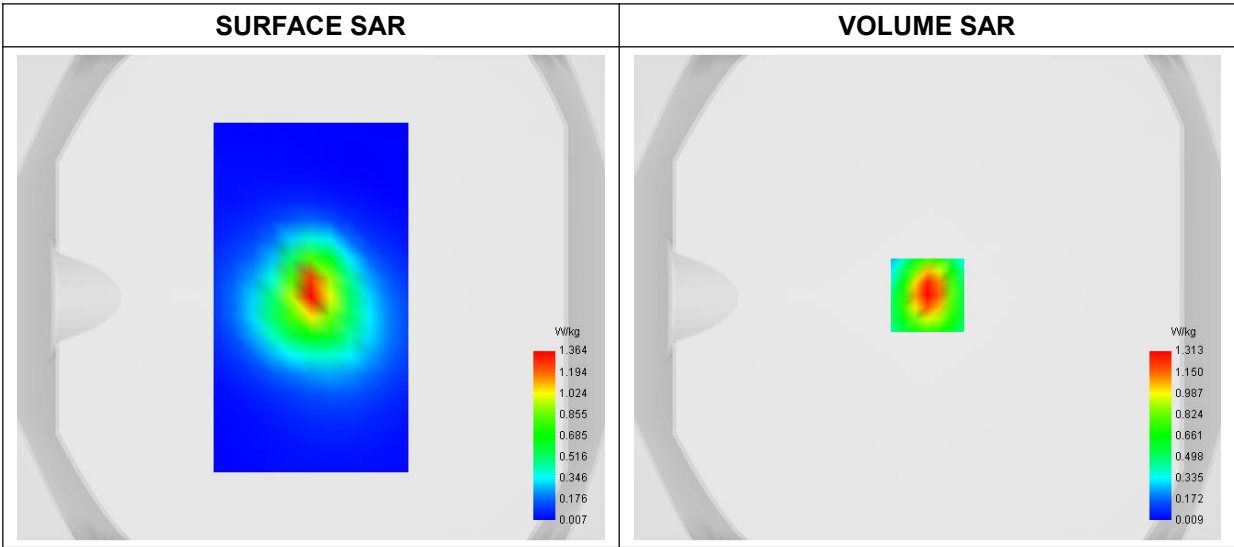
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 12
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	707.500000
Relative Permittivity (real part)	40.742186
Conductivity (S/m)	0.863696
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



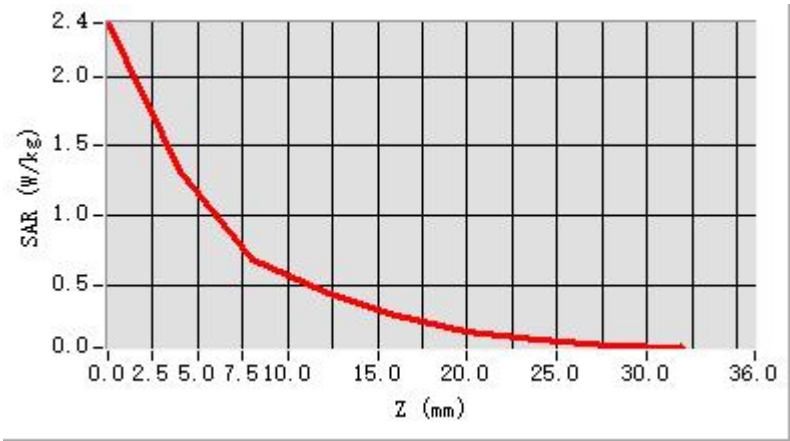
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 2.36 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.592
SAR 1g (W/Kg)	1.256
Variation (%)	-4.910
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	51.661627

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	2.385	1.313	0.678	0.456	0.275	0.166	0.100	0.060



MEASUREMENT 4

Type: Measurement (Complete)
Date of measurement: 2026-09-30
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.24; Calibrated: 2026-03-03

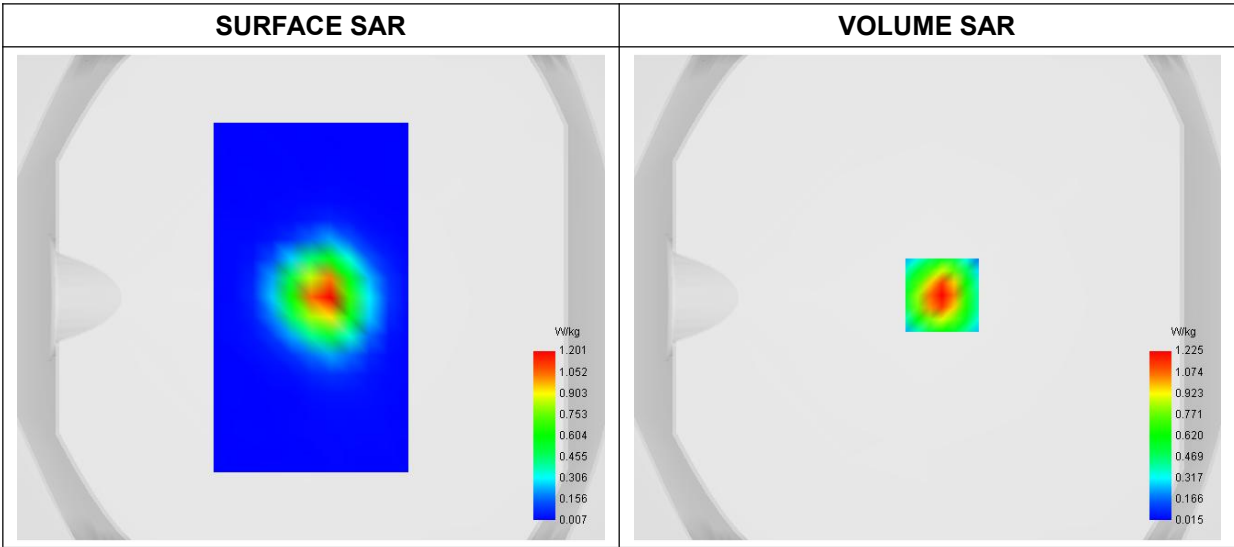
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Bottom
Band	LTE Band 66
Channels	QPSK 20MHz 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1770.000000
Relative Permittivity (real part)	40.132275
Conductivity (S/m)	1.383587
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



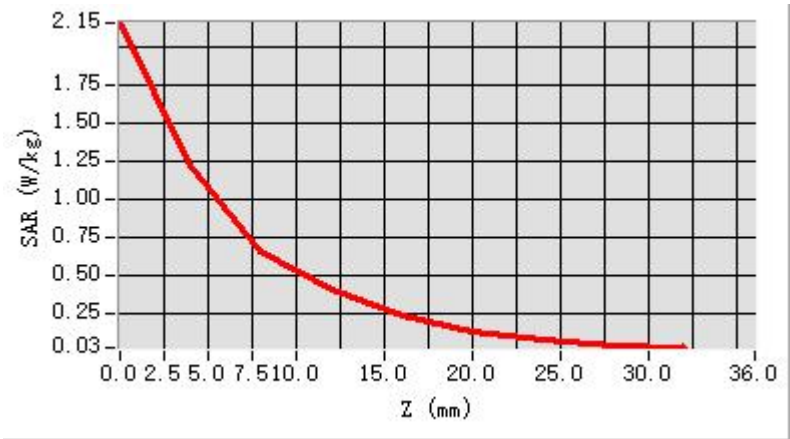
Maximum location: X=6.00, Y=1.00 ; SAR Peak: 2.12 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.517
SAR 1g (W/Kg)	1.121
Variation (%)	-0.030
Horizontal validation criteria: minimum distance (mm)	14.142136
Vertical validation criteria: SAR ratio M2/M1 (%)	53.973033

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	2.155	1.225	0.661	0.409	0.239	0.140	0.082	0.048



MEASUREMENT 5

Type: Measurement (Complete)
Date of measurement: 2026-09-29
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.65; Calibrated: 2026-03-03

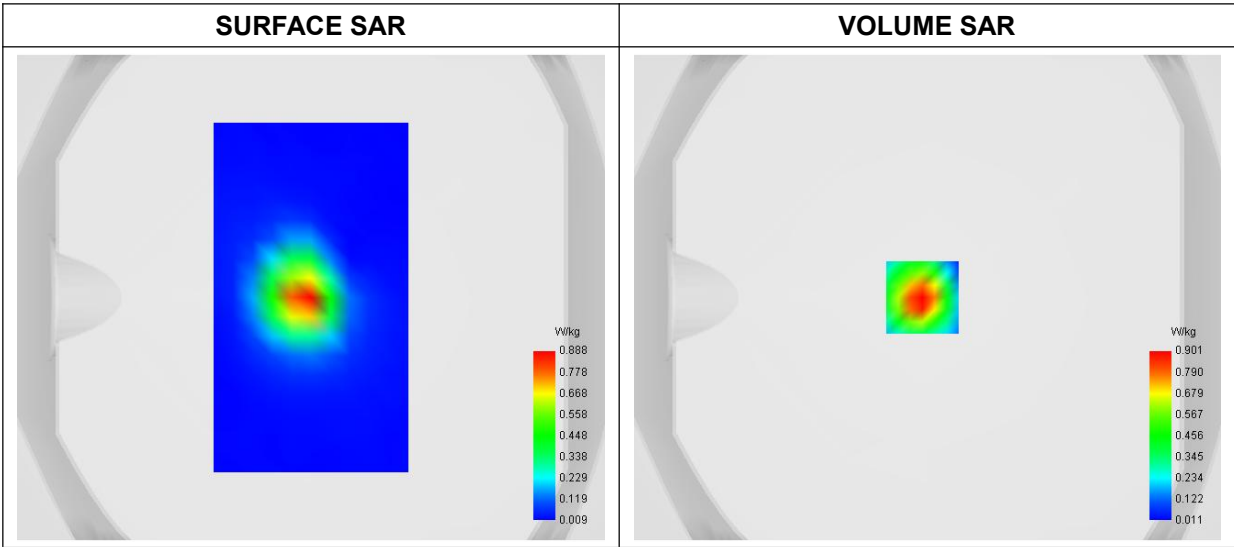
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Left
Band	LTE Band 41
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1.58

B. SAR Measurement Results

Frequency (MHz)	2506.000000
Relative Permittivity (real part)	38.392566
Conductivity (S/m)	1.972182
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



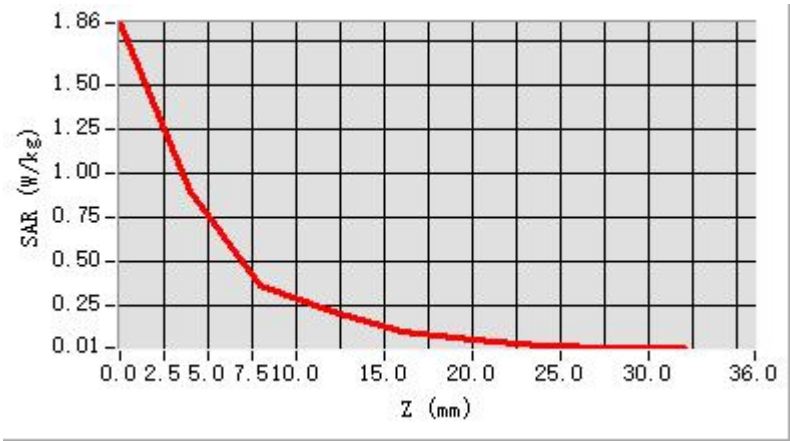
Maximum location: X=-2.00, Y=0.00 ; SAR Peak: 1.82 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.347
SAR 1g (W/Kg)	0.859
Variation (%)	0.460
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	42.657130

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	1.857	0.901	0.370	0.214	0.107	0.054	0.027	0.013



MEASUREMENT 6

Type: Measurement (Complete)
Date of measurement: 2026-09-19
Measurement duration: 25 minutes 31 seconds

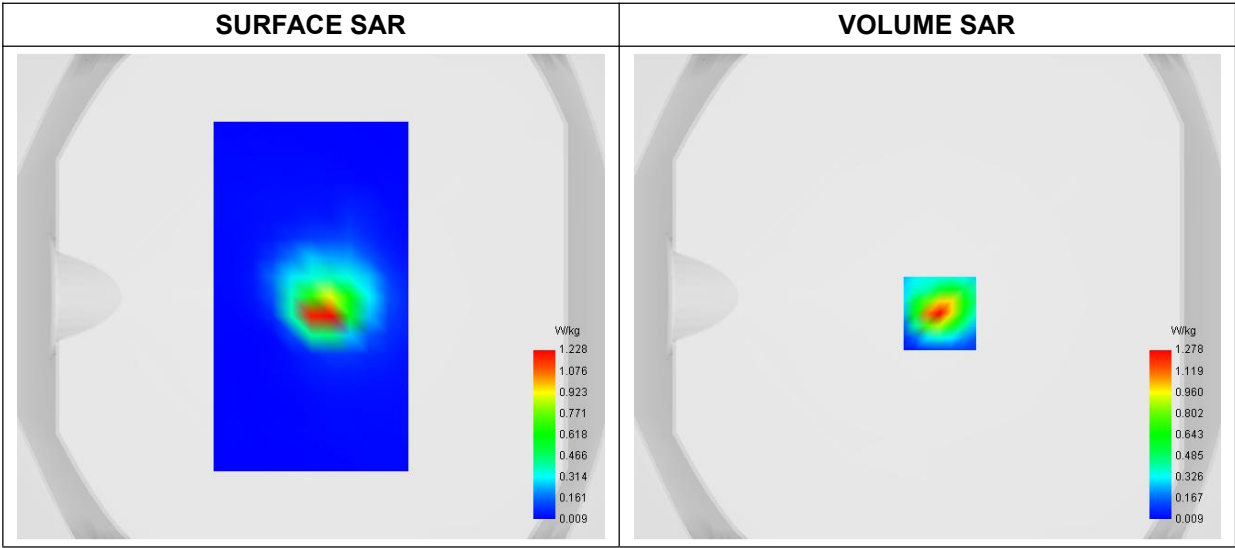
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Right
Band	WiFi_802.11b
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative Permittivity (real part)	1.774875
Conductivity (S/m)	38.623133
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



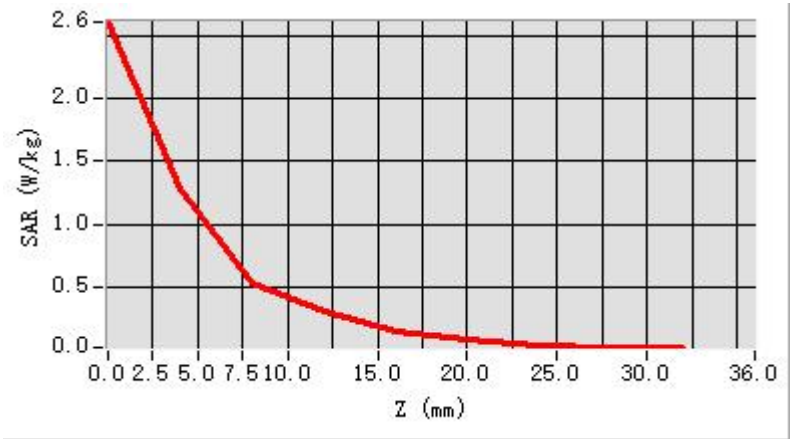
Maximum location: X=5.00, Y=-7.00 ; SAR Peak: 2.58 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.390
SAR 1g (W/Kg)	1.116
Variation (%)	-4.830
Horizontal validation criteria: minimum distance (mm)	10.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	41.741081

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	2.613	1.278	0.533	0.300	0.149	0.074	0.037	0.018



MEASUREMENT 7

Type: Measurement (Complete)
Date of measurement: 2026-09-19
Measurement duration: 25 minutes 31 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.73; Calibrated: 2026-03-03

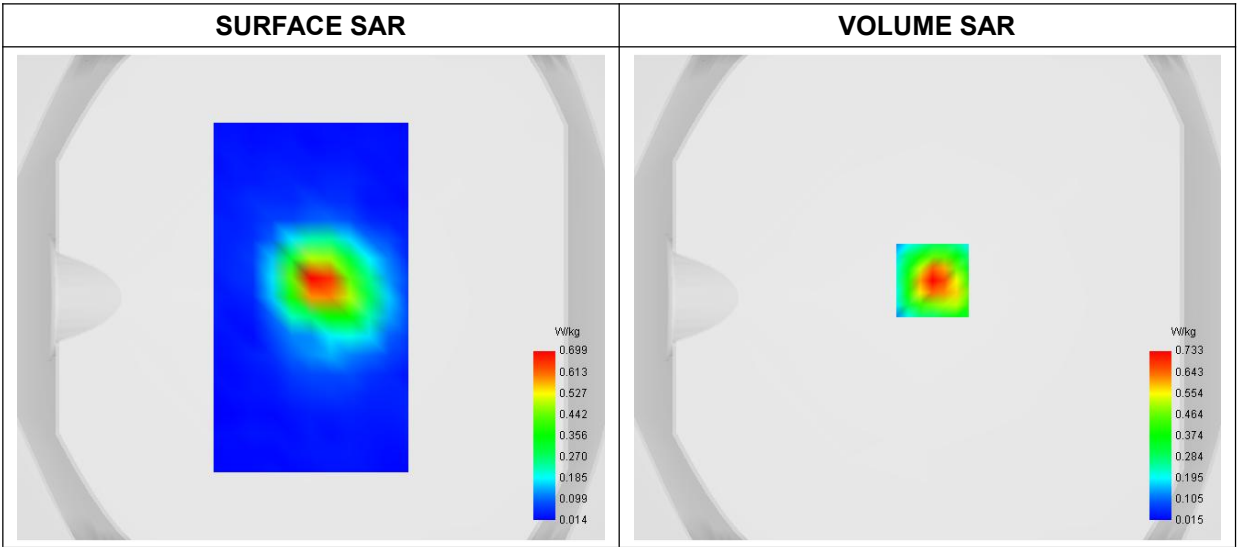
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	Bluetooth- LE-2Mbps
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2404.000000
Relative Permittivity (real part)	38.622752
Conductivity (S/m)	1.770157
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



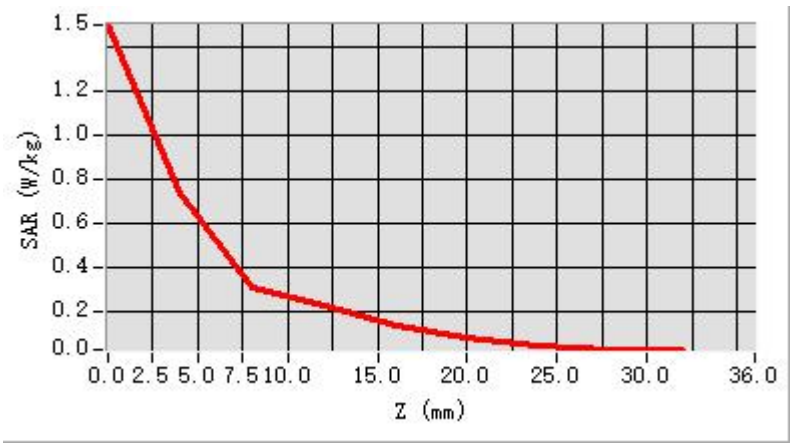
Maximum location: X=2.00, Y=7.00 ; SAR Peak: 1.46 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.303
SAR 1g (W/Kg)	0.691
Variation (%)	-2.970
Horizontal validation criteria: minimum distance (mm)	11.180340
Vertical validation criteria: SAR ratio M2/M1 (%)	42.950364

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00	20.00	24.00	28.00
SAR (W/Kg)	1.499	0.733	0.306	0.227	0.132	0.077	0.045	0.026



MEASUREMENT 8

Type: Measurement (Complete)
Date of measurement: 2026-10-09
Measurement duration: 32 minutes 23 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.56; Calibrated: 2026-03-03

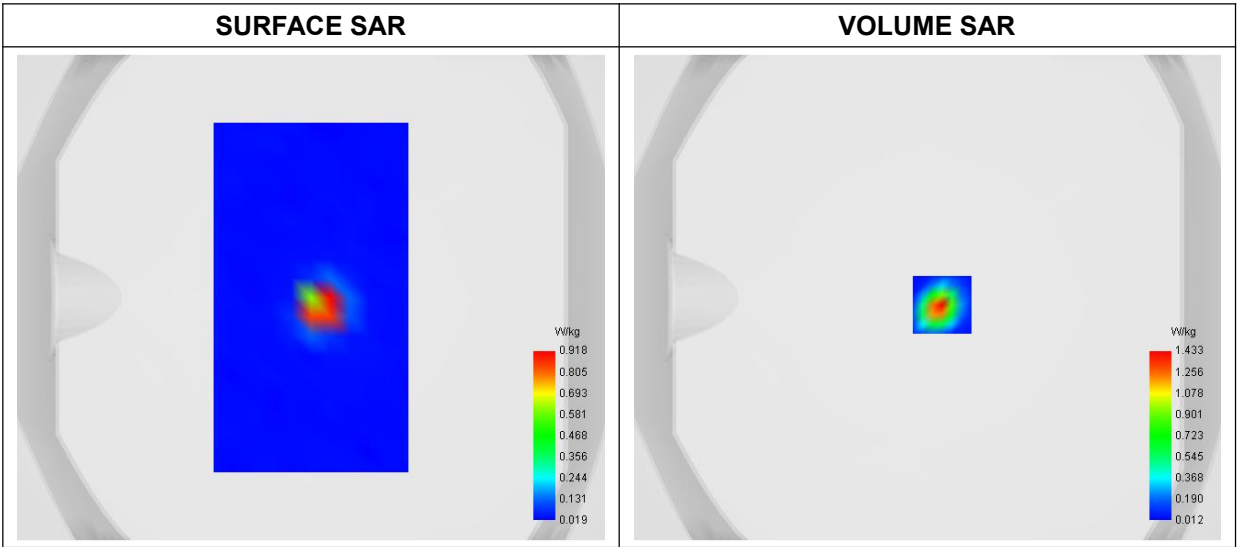
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Right
Band	WLAN 5.2GHz_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5180.000000
Relative Permittivity (real part)	36.893299
Conductivity (S/m)	4.626414
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



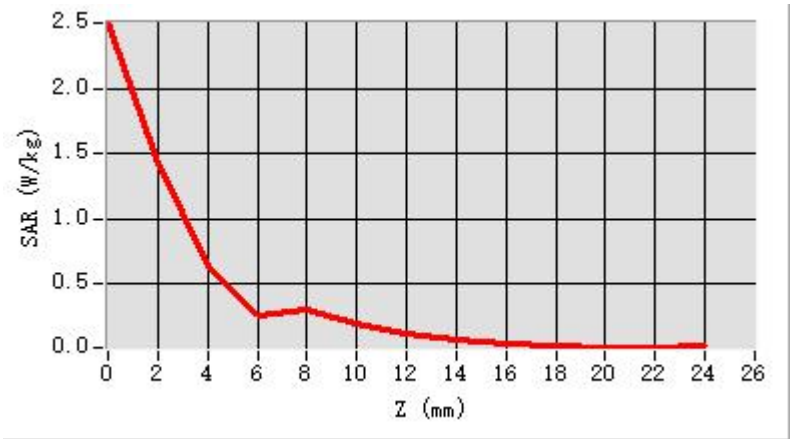
Maximum location: X=6.00, Y=-3.00 ; SAR Peak: 3.25 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.213
SAR 1g (W/Kg)	0.865
Variation (%)	-0.150
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	44.569823

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)	2.507	1.433	0.639	0.266	0.306	0.194	0.122	0.077	0.049	0.031	0.019	0.012



MEASUREMENT 9

Type: Measurement (Complete)
Date of measurement: 2026-10-09
Measurement duration: 32 minutes 23 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.46; Calibrated:2026-03-03

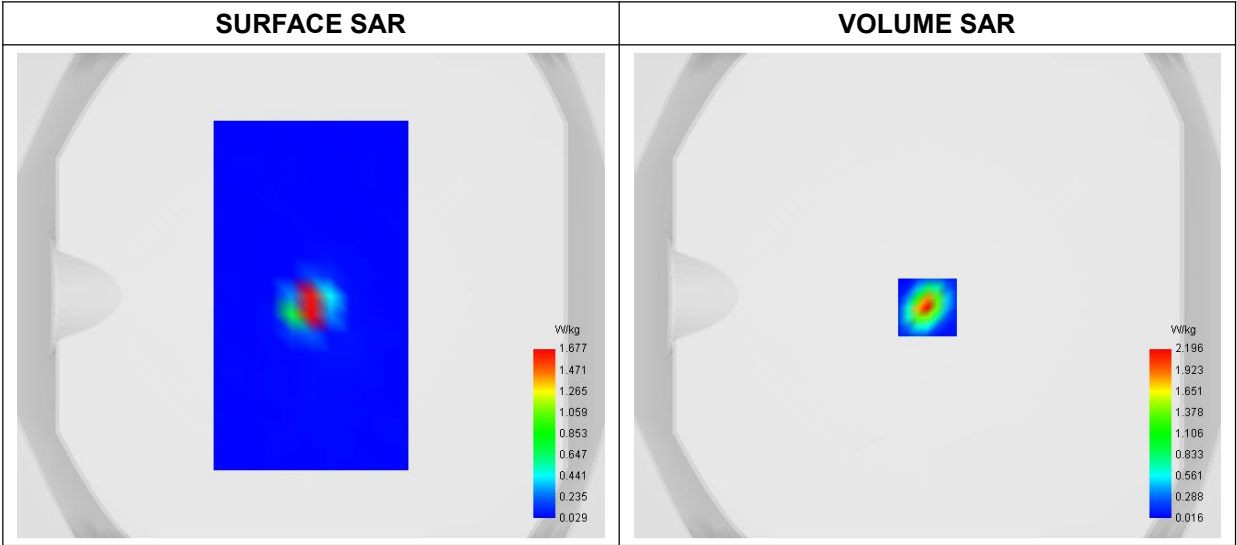
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Flat Plane
Device Position	Right
Band	WLAN 5.8GHz _802.11n-HT20
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5745.000000
Relative Permittivity (real part)	34.834216
Conductivity (S/m)	5.233421
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



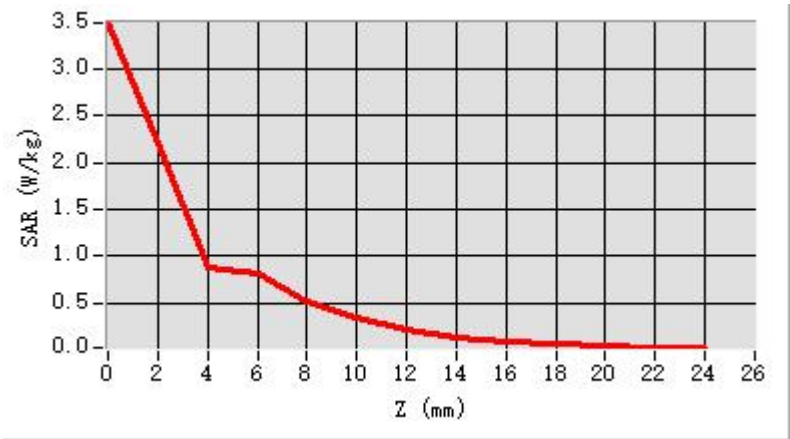
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 5.12 W/kg

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.308
SAR 1g (W/Kg)	1.276
Variation (%)	0.110
Horizontal validation criteria: minimum distance (mm)	5.656854
Vertical validation criteria: SAR ratio M2/M1 (%)	40.431722

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)	3.485	2.196	0.888	0.808	0.522	0.337	0.218	0.141	0.091	0.059	0.038	0.025	0.025



Annex C. EUT Photos

Please refer to the Annex for SAR

Annex D. Test Setup Photos

Please refer to the Annex for SAR

Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

***** END OF REPORT *****