

TEST REPORT

Reference No..... : WTX25X09243244W004
FCC ID : 2AJZQ-365
Applicant : Shenzhen i365-Tech Co.,Limited
Address : B510-512, MingYou Purchasing center BaoYuan Road, XiXiang Town,
Bao'an District, Shenzhen China
Manufacturer : The same as Applicant
Address : The same as Applicant
Product Name : 4G GPS device
Model No..... : FA96S
FCC Part 2.1093
Standards : IEEE Std C95.1: 2019
IEEE C95.3: 2021
Date of Receipt sample : 2025-09-11
Date of Test..... : 2025-09-11 to 2025-10-23
Date of Issue : 2025-10-24
Test Report Form No. : WTX_IEEE_1528W
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.

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Report version

Version No.	Date of issue	Description
Rev.00	2025-10-24	Original
/	/	/

1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	4G GPS device
Trade Name:	/
Model No.:	FA96S
Adding Model(s):	FA81, A81S, FA29, FA29C, FA89, T10, S13, S16, S18, S19, S23, S25, S26, S27, S28, S29, S30, S31, S32, S33, S35, S36, S37, S39, FA28, FA28S, FA83, FA83S, FA56, FA56S, FA66, FA66S, FA91, FA91S, FA92, FA92S, FA93, FA93S, FA96, FA100, FA100S, FA101, FA102, FA102S, FA103, FA103S, FA106, FA106S, FA107, FA107S, FA108, FA108S, FA109, FA109S, FA111, FA112, FA112S, FA113, FA115, FA116, FA117, FA118, FA119, FA121, FA122, FA123, FA125, FA126, FA127, FA128, FA129, FA130, FA131, FA132, FA133, FA135, FA136, FA137, FA139
Rated Voltage:	DC3.85V
Battery Capacity:	560mAh
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model FA96S, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT:	
2G	
Support Networks:	GSM, GPRS, EDGE
Support Band:	GSM850/PCS1900
Uplink Frequency:	GSM/GPRS/EDGE 850: 824~849MHz GSM/GPRS/EDGE 1900: 1850~1910MHz
Downlink Frequency:	GSM/GPRS/EDGE 850: 869~894MHz GSM/GPRS/EDGE 1900: 1930~1990MHz
Max RF Output Power:	GSM850: 33.43dBm, GSM1900:30.17dBm EDGE850: 26.97dBm, EDGE1900:25.91dBm
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -11dBi; GSM1900: -1.9dBi
GPRS/EDGE Class	Class 12
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 7, 12, 17
Uplink Frequency:	FDD-LTE Band 2: Tx: 1850-1910MHz, FDD-LTE Band 4: Tx: 1710-1755MHz, FDD-LTE Band 5: Tx: 824-849MHz, FDD-LTE Band 7: Tx: 2500-2570MHz, FDD-LTE Band 12: Tx: 699-716MHz, FDD-LTE Band 17: Tx: 704-716MHz,
Downlink Frequency:	FDD-LTE Band 2: Rx: 1930-1990MHz, FDD-LTE Band 4: Rx: 2110-2155MHz, FDD-LTE Band 5: Rx: 869-894MHz, FDD-LTE Band 7: Rx: 2620-2690MHz, FDD-LTE Band 12: Rx: 729-746MHz, FDD-LTE Band 17: Rx: 734-746MHz,
RF Output Power:	FDD-LTE Band 2: 24.85dBm, FDD-LTE Band 4: 23.17dBm, FDD-LTE Band 5: 24.32dBm, FDD-LTE Band 7: 23.62dBm, FDD-LTE Band 12: 23.68dBm, FDD-LTE Band 17: 23.34dBm
Type of Modulation:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 2: -1.4dBi, FDD-LTE Band 4: -1.5dBi, FDD-LTE Band 5: -11dBi, FDD-LTE Band 7: -3dBi, FDD-LTE Band 12: -13dBi, FDD-LTE Band 17: -13dBi
Note: The Antenna Gain is provided by the customer and can affect the validity of results.	

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 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.: 11464A 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:

Near to Mouth(10mm Gap)

Frequency Band	Maximum SAR _{1g} (W/kg)	SAR _{1g} Limit (W/kg)
GSM	0.337	1.6
FDD-LTE	1.368	1.6

Wrist-worn(0mm Gap)

Frequency Band	Maximum SAR _{10g} (W/kg)	SAR _{10g} Limit (W/kg)
GSM	0.507	4.0
FDD-LTE	2.954	4.0

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Head and Body, 4.0W/kg for Limb) 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.

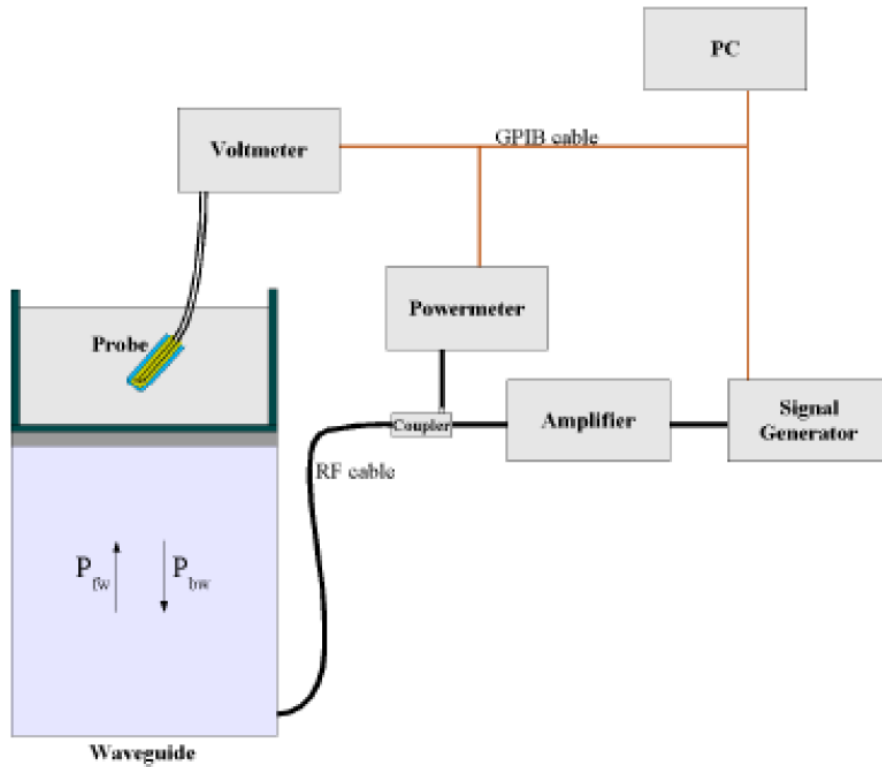


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

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,

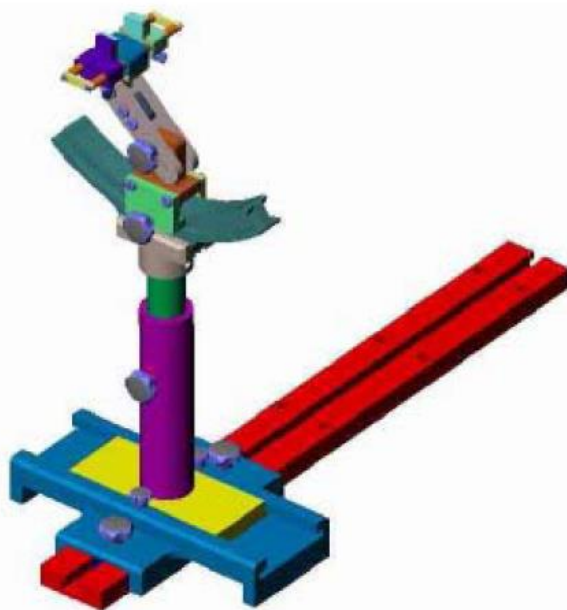
ρ = Tissue density (1.25 g/cm³ for brain tissue)

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	2025-02-12	2026-02-11
WTXE1053A1001-001	750MHz Dipole	MVG	SID750	SN 47/12 DIP 0G750-203	2023-08-20	2026-08-19
WTXE1053A1001-002	835MHz Dipole	MVG	SID835	SN 47/12 DIP 0G835-204	2023-08-20	2026-08-19
WTXE1053A1001-004	1800MHz Dipole	MVG	SID1800	SN 47/12 DIP 1G800-206	2023-08-20	2026-08-19
WTXE1053A1001-005	1900MHz Dipole	MVG	SID1900	SN 47/12 DIP 1G900-207	2023-08-20	2026-08-19
WTXE1053A1006-002	2600MHz Dipole	MVG	SID2600	SN 28/21 DIP 2G600-590	2024-07-11	2027-07-10
WTXE1053A1001-010	Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2025-02-23	2026-02-22
WTXE1075A1003	Power meter	Keithley	3500	1232959	2025-02-23	2026-02-22
WTXE1075A1002	Power meter	Keithley	3500	1162591	2025-02-23	2026-02-22
WTXE1104A1003	EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2025-02-23	2026-02-22
WTXE1022A1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2025-02-23	2026-02-22
WTXE1041A1002	Communications Tester	Rohde & Schwarz	CMW500	148650	2025-02-23	2026-02-22
WTXE1036A1001	Network Analyzer	Rohde & Schwarz	ZVB 8	101353	2024-10-15	2025-10-14
WTXE1036A1001	Network Analyzer	Rohde & Schwarz	ZVB 8	101353	2025-10-12	2026-10-11
WTXE1076A1001	Power Divider	HP	11636B	JC-2017-10-002	2025-02-23	2026-02-22
WTXE1103A1001	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1103A1002	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22
WTXE1103A1003	Attenuator	Pasternack	PE4007-4	/	2025-02-23	2026-02-22

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 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

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
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	22.2	0.87	0.89	-2.25	41.24	41.9	-1.58	±5	2025-09-17
835	22.2	0.88	0.90	-2.22	41.09	41.5	-0.99	±5	2025-09-17
1800	22.5	1.38	1.40	-1.43	39.26	40.0	-1.85	±5	2025-10-11
1900	22.5	1.41	1.40	0.71	41.26	40.0	3.15	±5	2025-09-18
2600	22.8	1.98	1.96	1.02	39.82	39.0	2.10	±5	2025-09-19

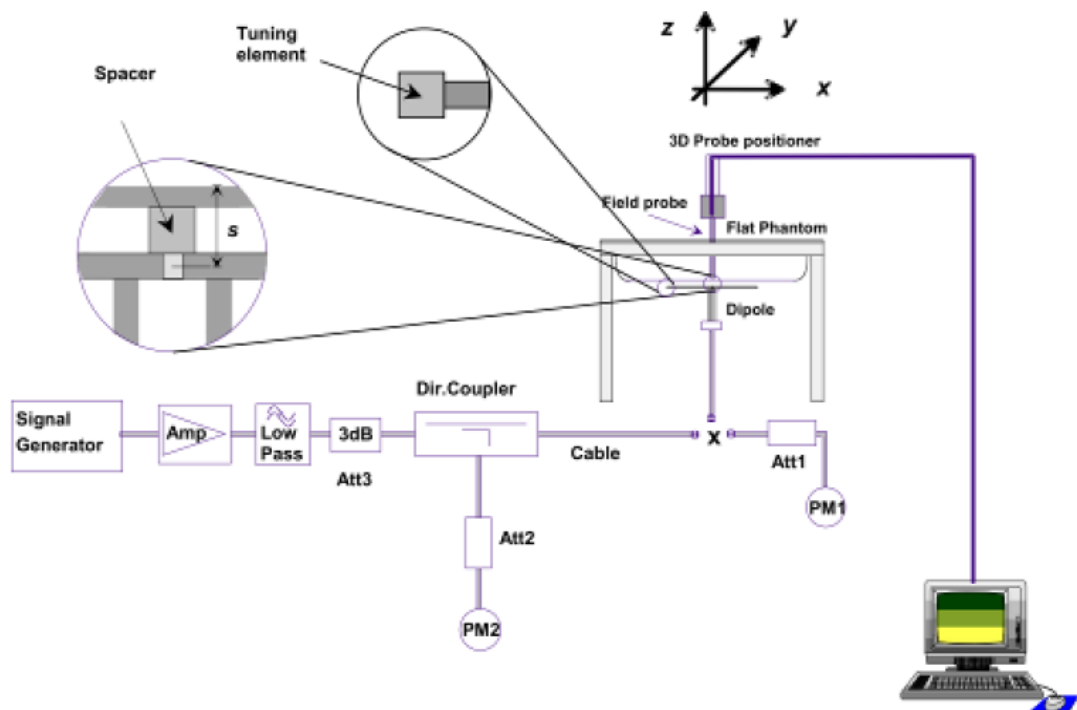
6. SAR Measurement Evaluation

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 835MHz, 1800MHz, 1900MHz, 2450MHz, 2600MHz, and 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 dipole port must be calibrated to 24 dBm(250 mW) 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)	(%)	
Head						
750	250	8.78	2.051	8.204	-6.56	2025-09-17
835	250	9.65	2.210	8.84	-8.39	2025-09-17
1800	250	38.49	9.624	38.496	0.02	2025-10-11
1900	250	39.59	10.223	40.892	3.29	2025-09-18
2600	250	56.81	14.815	59.26	4.31	2025-09-19

Frequency	Power	Targeted SAR _{10g}	Measured SAR _{10g}	Normalized SAR _{10g}	Tolerance	Date
MHz	(mw)	(W/kg)	(W/kg)	(W/kg)	(%)	
Head						
750	250	5.72	1.431	5.724	0.07	2025-09-17
835	250	6.26	1.527	6.108	-2.43	2025-09-17
1800	250	20.67	4.969	19.876	-3.84	2025-10-11
1900	250	20.73	5.261	21.044	1.51	2025-09-18
2600	250	24.63	6.554	26.216	6.44	2025-09-19

Remark: Referring to IEC/IEEE 62209-1528:2020, the system check shall be performed at a test frequency that is within $\pm 10\%$ 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 Wrist-worn device

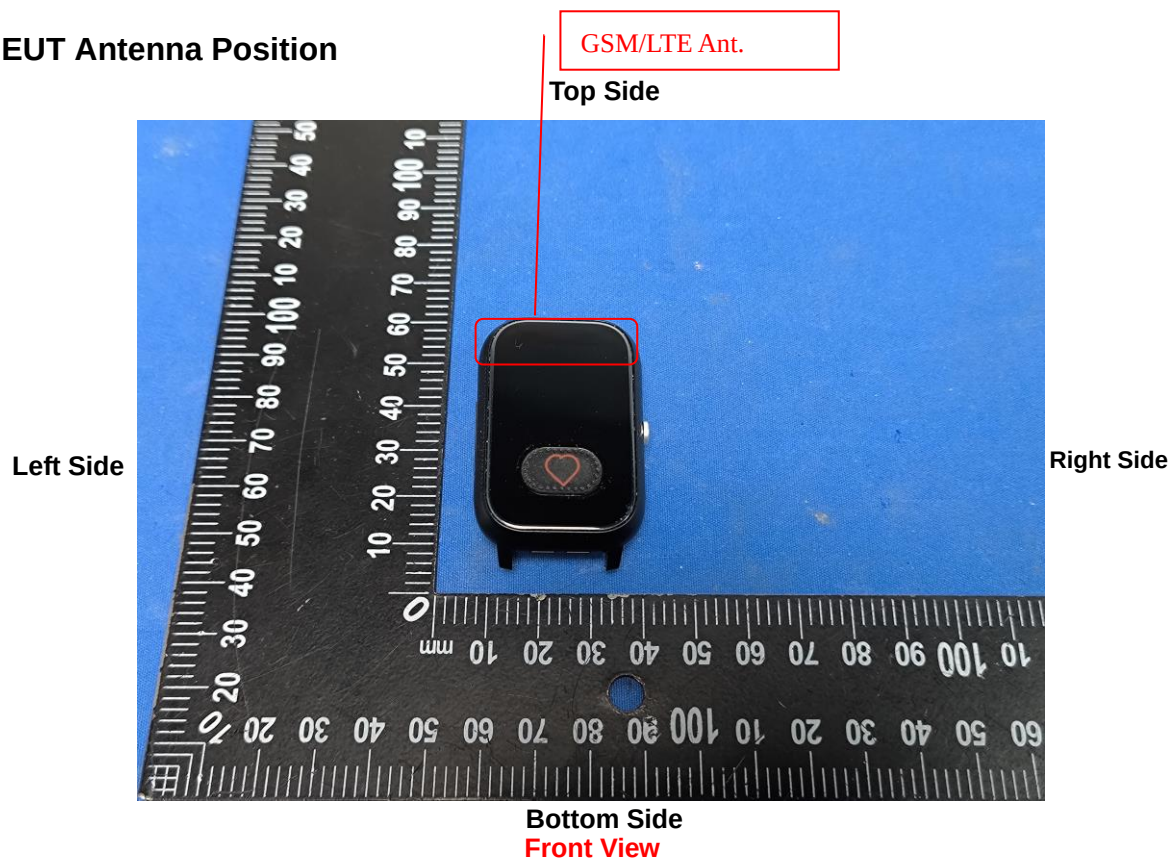
(a) Transmitters that are built-in within a wrist watch or similar wrist-worn devices typically operate in speaker mode for voice communication, with the device worn on the wrist and positioned next to the mouth. Next to the mouth exposure requires 1-g SAR, and the wrist-worn condition requires 10-g extremity SAR.

(b) The 10-g extremity and 1-g SAR test exclusions may be applied to the wrist and face exposure conditions. When SAR evaluation is required, next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.

(c) For wrist-worn condition, 10g SAR value should be measured for the inner wrist band at a separation of 0mm. The design of the hard wrist band prevents opening it to a flat shape to be placed under the flat phantom.

(d) Next to the mouth use is evaluated with the front of the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium. SAR for wrist exposure is evaluated with the back of the devices positioned in direct contact against a flat phantom fill with body tissue-equivalent medium.

7.2 EUT Antenna Position



Body SAR tests, Wrist-worn SAR Test distance: 0mm						
Antennas	Front	Back	Right Side	Left Side	Top Side	Bottom
WWAN	No	Yes	No	No	No	No
Body SAR tests, Near to Mouth SAR, Test distance: 10mm						
Antennas	Front	Back	Right Side	Left Side	Top Side	Bottom
WWAN	Yes	No	No	No	No	No

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

GSM - Burst Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	33.31	33.43	33.39	34.0	30.17	29.76	30.02	31.0
GPRS (1 slot)	33.20	32.86	33.19	34.0	29.63	29.67	29.96	30.0
GPRS (2 slots)	32.06	32.09	32.17	33.0	28.66	28.76	29.12	29.0
GPRS (3 slots)	30.06	30.08	30.24	31.0	26.71	26.85	27.27	28.0
GPRS (4 slots)	29.03	29.04	29.21	30.0	25.67	25.79	26.25	27.0
EGPRS (1 slot)	23.77	26.59	26.97	27.0	25.12	25.33	25.91	26.0
EGPRS (2 slots)	25.78	25.40	25.83	26.0	24.30	24.34	24.96	25.0
EGPRS (3 slots)	23.54	23.23	23.57	24.0	22.30	22.30	22.87	23.0
EGPRS (4 slots)	22.29	21.91	22.44	23.0	21.15	21.18	21.78	22.0

GSM - Source-Based Time-Average Power (dBm)								
Band	GSM850			Tune-up power (dBm)	PCS1900			Tune-up power (dBm)
Channel	128	190	251		512	661	810	
Frequency (MHz)	824.2	836.6	848.8		1850.2	1880	1909.8	
GSM	24.31	24.43	24.39	25.0	21.17	20.76	21.02	22.00
GPRS (1 slot)	24.20	23.86	24.19	25.0	20.63	20.67	20.96	21.0
GPRS (2 slots)	26.06	26.09	26.17	27.0	22.66	22.76	23.12	23.5
GPRS (3 slots)	25.81	25.83	25.99	26.5	22.46	22.60	23.02	23.5
GPRS (4 slots)	26.03	26.04	26.21	26.5	22.67	22.79	23.25	23.5
EGPRS (1 slot)	14.77	17.59	17.97	18.0	16.12	16.33	16.91	17.0
EGPRS (2 slots)	19.78	19.40	19.83	20.0	18.30	18.34	18.96	19.0
EGPRS (3 slots)	19.29	18.98	19.32	20.0	18.05	18.05	18.62	19.0
EGPRS (4 slots)	19.29	18.91	19.44	20.0	18.15	18.18	18.78	19.0

Note: The source-based time-averaged power is linearly scaled the maximum burst averaged power based on time slots. The calculated method are shown as below:

Source based time-average power = Burst averaged power - Duty cycle factor in dB

Duty cycle factor = 9 dB for 1 Tx slot, 6 dB for 2 Tx slots, 4.25 dB for 3 Tx slots, 3 dB for 4 Tx slots

Remark:

1. For Near to Mouth SAR testing, GSM should be evaluated; therefore the EUT was set in GSM for GSM850 and GSM1900 due to its highest source-based time-average power.
2. For Wrist-worn SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS (4TX slots) for GSM850

and GPRS (4TX slots) for GSM1900 due to its highest source-based time-average power.

3. Per KDB 447498 D01 v06, the maximum output power channel is used for SAR testing and for further SAR test reduction.

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	23.21	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	23.70	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	23.92	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	24.15	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	24.31	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	24.39	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	23.30	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.25	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	22.59	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	22.76	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	22.92	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	23.20	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	23.08	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	22.09	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	24.08	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	24.00	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	23.96	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	23.87	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	23.87	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	23.83	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	22.54	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	22.54	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	22.75	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	22.44	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	22.42	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	22.44	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	22.34	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	21.26	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	23.93	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	23.69	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	23.37	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	23.61	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	23.53	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	23.30	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	22.63	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	22.81	PASS

Band2	1.4MHz	16QAM	19193	1RB#2	22.75	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	22.43	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	22.44	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	22.53	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	22.30	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.89	PASS
Band2	3MHz	QPSK	18615	1RB#0	24.17	PASS
Band2	3MHz	QPSK	18615	1RB#8	24.17	PASS
Band2	3MHz	QPSK	18615	1RB#14	24.05	PASS
Band2	3MHz	QPSK	18615	8RB#0	22.95	PASS
Band2	3MHz	QPSK	18615	8RB#4	22.94	PASS
Band2	3MHz	QPSK	18615	8RB#7	22.96	PASS
Band2	3MHz	QPSK	18615	15RB#0	23.07	PASS
Band2	3MHz	16QAM	18615	1RB#0	22.91	PASS
Band2	3MHz	16QAM	18615	1RB#8	22.81	PASS
Band2	3MHz	16QAM	18615	1RB#14	22.75	PASS
Band2	3MHz	16QAM	18615	8RB#0	21.83	PASS
Band2	3MHz	16QAM	18615	8RB#4	21.81	PASS
Band2	3MHz	16QAM	18615	8RB#7	21.83	PASS
Band2	3MHz	16QAM	18615	15RB#0	21.89	PASS
Band2	3MHz	QPSK	18900	1RB#0	24.02	PASS
Band2	3MHz	QPSK	18900	1RB#8	23.92	PASS
Band2	3MHz	QPSK	18900	1RB#14	23.98	PASS
Band2	3MHz	QPSK	18900	8RB#0	22.63	PASS
Band2	3MHz	QPSK	18900	8RB#4	22.64	PASS
Band2	3MHz	QPSK	18900	8RB#7	22.61	PASS
Band2	3MHz	QPSK	18900	15RB#0	22.66	PASS
Band2	3MHz	16QAM	18900	1RB#0	22.47	PASS
Band2	3MHz	16QAM	18900	1RB#8	22.69	PASS
Band2	3MHz	16QAM	18900	1RB#14	22.37	PASS
Band2	3MHz	16QAM	18900	8RB#0	21.52	PASS
Band2	3MHz	16QAM	18900	8RB#4	21.43	PASS
Band2	3MHz	16QAM	18900	8RB#7	21.48	PASS
Band2	3MHz	16QAM	18900	15RB#0	21.44	PASS
Band2	3MHz	QPSK	19185	1RB#0	24.51	PASS
Band2	3MHz	QPSK	19185	1RB#8	24.00	PASS
Band2	3MHz	QPSK	19185	1RB#14	23.46	PASS
Band2	3MHz	QPSK	19185	8RB#0	22.72	PASS
Band2	3MHz	QPSK	19185	8RB#4	22.92	PASS
Band2	3MHz	QPSK	19185	8RB#7	22.96	PASS
Band2	3MHz	QPSK	19185	15RB#0	22.85	PASS
Band2	3MHz	16QAM	19185	1RB#0	22.28	PASS

Band2	3MHz	16QAM	19185	1RB#8	22.90	PASS
Band2	3MHz	16QAM	19185	1RB#14	22.60	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.75	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.92	PASS
Band2	3MHz	16QAM	19185	8RB#7	21.10	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.87	PASS
Band2	5MHz	QPSK	18625	1RB#0	24.61	PASS
Band2	5MHz	QPSK	18625	1RB#12	24.23	PASS
Band2	5MHz	QPSK	18625	1RB#24	24.48	PASS
Band2	5MHz	QPSK	18625	12RB#0	23.02	PASS
Band2	5MHz	QPSK	18625	12RB#6	23.04	PASS
Band2	5MHz	QPSK	18625	12RB#13	23.01	PASS
Band2	5MHz	QPSK	18625	25RB#0	23.04	PASS
Band2	5MHz	16QAM	18625	1RB#0	23.13	PASS
Band2	5MHz	16QAM	18625	1RB#12	22.90	PASS
Band2	5MHz	16QAM	18625	1RB#24	23.07	PASS
Band2	5MHz	16QAM	18625	12RB#0	21.84	PASS
Band2	5MHz	16QAM	18625	12RB#6	21.91	PASS
Band2	5MHz	16QAM	18625	12RB#13	21.74	PASS
Band2	5MHz	16QAM	18625	25RB#0	21.89	PASS
Band2	5MHz	QPSK	18900	1RB#0	24.17	PASS
Band2	5MHz	QPSK	18900	1RB#12	23.96	PASS
Band2	5MHz	QPSK	18900	1RB#24	24.28	PASS
Band2	5MHz	QPSK	18900	12RB#0	22.63	PASS
Band2	5MHz	QPSK	18900	12RB#6	22.74	PASS
Band2	5MHz	QPSK	18900	12RB#13	22.69	PASS
Band2	5MHz	QPSK	18900	25RB#0	22.73	PASS
Band2	5MHz	16QAM	18900	1RB#0	22.92	PASS
Band2	5MHz	16QAM	18900	1RB#12	22.72	PASS
Band2	5MHz	16QAM	18900	1RB#24	22.94	PASS
Band2	5MHz	16QAM	18900	12RB#0	21.59	PASS
Band2	5MHz	16QAM	18900	12RB#6	21.65	PASS
Band2	5MHz	16QAM	18900	12RB#13	21.62	PASS
Band2	5MHz	16QAM	18900	25RB#0	21.54	PASS
Band2	5MHz	QPSK	19175	1RB#0	24.36	PASS
Band2	5MHz	QPSK	19175	1RB#12	24.46	PASS
Band2	5MHz	QPSK	19175	1RB#24	23.70	PASS
Band2	5MHz	QPSK	19175	12RB#0	22.21	PASS
Band2	5MHz	QPSK	19175	12RB#6	22.56	PASS
Band2	5MHz	QPSK	19175	12RB#13	22.95	PASS
Band2	5MHz	QPSK	19175	25RB#0	22.60	PASS
Band2	5MHz	16QAM	19175	1RB#0	23.11	PASS

Band2	5MHz	16QAM	19175	1RB#12	22.64	PASS
Band2	5MHz	16QAM	19175	1RB#24	23.17	PASS
Band2	5MHz	16QAM	19175	12RB#0	21.17	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.81	PASS
Band2	5MHz	16QAM	19175	12RB#13	21.04	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.98	PASS
Band2	10MHz	QPSK	18650	1RB#0	24.64	PASS
Band2	10MHz	QPSK	18650	1RB#24	24.22	PASS
Band2	10MHz	QPSK	18650	1RB#49	24.23	PASS
Band2	10MHz	QPSK	18650	25RB#0	22.80	PASS
Band2	10MHz	QPSK	18650	25RB#12	23.00	PASS
Band2	10MHz	QPSK	18650	25RB#25	22.84	PASS
Band2	10MHz	QPSK	18650	50RB#0	22.94	PASS
Band2	10MHz	16QAM	18650	1RB#0	23.21	PASS
Band2	10MHz	16QAM	18650	1RB#24	22.96	PASS
Band2	10MHz	16QAM	18650	1RB#49	22.86	PASS
Band2	10MHz	16QAM	18650	25RB#0	21.64	PASS
Band2	10MHz	16QAM	18650	25RB#12	21.73	PASS
Band2	10MHz	16QAM	18650	25RB#25	21.54	PASS
Band2	10MHz	QPSK	18900	1RB#0	24.07	PASS
Band2	10MHz	QPSK	18900	1RB#24	24.01	PASS
Band2	10MHz	QPSK	18900	1RB#49	24.83	PASS
Band2	10MHz	QPSK	18900	25RB#0	23.12	PASS
Band2	10MHz	QPSK	18900	25RB#12	23.10	PASS
Band2	10MHz	QPSK	18900	25RB#25	22.99	PASS
Band2	10MHz	QPSK	18900	50RB#0	22.92	PASS
Band2	10MHz	16QAM	18900	1RB#0	22.84	PASS
Band2	10MHz	16QAM	18900	1RB#24	23.10	PASS
Band2	10MHz	16QAM	18900	1RB#49	23.31	PASS
Band2	10MHz	16QAM	18900	25RB#0	21.98	PASS
Band2	10MHz	16QAM	18900	25RB#12	21.93	PASS
Band2	10MHz	16QAM	18900	25RB#25	21.76	PASS
Band2	10MHz	QPSK	19150	1RB#0	23.61	PASS
Band2	10MHz	QPSK	19150	1RB#24	23.80	PASS
Band2	10MHz	QPSK	19150	1RB#49	24.44	PASS
Band2	10MHz	QPSK	19150	25RB#0	22.88	PASS
Band2	10MHz	QPSK	19150	25RB#12	23.21	PASS
Band2	10MHz	QPSK	19150	25RB#25	22.98	PASS
Band2	10MHz	QPSK	19150	50RB#0	22.79	PASS
Band2	10MHz	16QAM	19150	1RB#0	22.37	PASS
Band2	10MHz	16QAM	19150	1RB#24	22.53	PASS
Band2	10MHz	16QAM	19150	1RB#49	23.71	PASS

Band2	10MHz	16QAM	19150	25RB#0	21.70	PASS
Band2	10MHz	16QAM	19150	25RB#12	21.76	PASS
Band2	10MHz	16QAM	19150	25RB#25	21.49	PASS
Band2	15MHz	QPSK	18675	1RB#0	23.62	PASS
Band2	15MHz	QPSK	18675	1RB#38	23.50	PASS
Band2	15MHz	QPSK	18675	1RB#74	23.70	PASS
Band2	15MHz	QPSK	18675	38RB#0	22.66	PASS
Band2	15MHz	QPSK	18675	38RB#18	22.92	PASS
Band2	15MHz	QPSK	18675	38RB#37	22.24	PASS
Band2	15MHz	QPSK	18675	75RB#0	22.44	PASS
Band2	15MHz	16QAM	18675	1RB#0	22.50	PASS
Band2	15MHz	16QAM	18675	1RB#38	22.34	PASS
Band2	15MHz	16QAM	18675	1RB#74	22.73	PASS
Band2	15MHz	16QAM	18675	38RB#0	22.75	PASS
Band2	15MHz	16QAM	18675	38RB#18	23.69	PASS
Band2	15MHz	16QAM	18675	38RB#37	22.30	PASS
Band2	15MHz	QPSK	18900	1RB#0	23.35	PASS
Band2	15MHz	QPSK	18900	1RB#38	23.42	PASS
Band2	15MHz	QPSK	18900	1RB#74	23.67	PASS
Band2	15MHz	QPSK	18900	38RB#0	22.57	PASS
Band2	15MHz	QPSK	18900	38RB#18	22.72	PASS
Band2	15MHz	QPSK	18900	38RB#37	22.24	PASS
Band2	15MHz	QPSK	18900	75RB#0	22.43	PASS
Band2	15MHz	16QAM	18900	1RB#0	22.31	PASS
Band2	15MHz	16QAM	18900	1RB#38	22.33	PASS
Band2	15MHz	16QAM	18900	1RB#74	22.71	PASS
Band2	15MHz	16QAM	18900	38RB#0	22.68	PASS
Band2	15MHz	16QAM	18900	38RB#18	23.47	PASS
Band2	15MHz	16QAM	18900	38RB#37	22.26	PASS
Band2	15MHz	QPSK	19125	1RB#0	23.66	PASS
Band2	15MHz	QPSK	19125	1RB#38	23.39	PASS
Band2	15MHz	QPSK	19125	1RB#74	24.85	PASS
Band2	15MHz	QPSK	19125	38RB#0	22.78	PASS
Band2	15MHz	QPSK	19125	38RB#18	22.65	PASS
Band2	15MHz	QPSK	19125	38RB#37	22.52	PASS
Band2	15MHz	QPSK	19125	75RB#0	22.66	PASS
Band2	15MHz	16QAM	19125	1RB#0	22.75	PASS
Band2	15MHz	16QAM	19125	1RB#38	22.11	PASS
Band2	15MHz	16QAM	19125	1RB#74	23.52	PASS
Band2	15MHz	16QAM	19125	38RB#0	22.73	PASS
Band2	15MHz	16QAM	19125	38RB#18	22.69	PASS
Band2	15MHz	16QAM	19125	38RB#37	22.50	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	23.03	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	22.62	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.39	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	22.13	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	21.99	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.92	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.80	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.54	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.35	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.02	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.80	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.81	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.60	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.77	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.27	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	21.21	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.13	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.12	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.11	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.04	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.06	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.17	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.19	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.05	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.91	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.03	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.86	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.13	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	21.13	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.11	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.06	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.09	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	21.08	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	21.03	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	21.03	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	20.95	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.01	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.86	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	20.84	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	20.94	PASS

Band4	1.4MHz	16QAM	20393	3RB#3	20.80	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	19.93	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.53	PASS
Band4	3MHz	QPSK	19965	1RB#8	21.59	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.49	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.53	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.55	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.56	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.53	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.49	PASS
Band4	3MHz	16QAM	19965	1RB#8	21.52	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.47	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.56	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.50	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.54	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.51	PASS
Band4	3MHz	QPSK	20175	1RB#0	20.98	PASS
Band4	3MHz	QPSK	20175	1RB#8	21.02	PASS
Band4	3MHz	QPSK	20175	1RB#14	20.94	PASS
Band4	3MHz	QPSK	20175	8RB#0	20.97	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.00	PASS
Band4	3MHz	QPSK	20175	8RB#7	20.98	PASS
Band4	3MHz	QPSK	20175	15RB#0	20.98	PASS
Band4	3MHz	16QAM	20175	1RB#0	20.97	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.00	PASS
Band4	3MHz	16QAM	20175	1RB#14	20.93	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.06	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.07	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.07	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.06	PASS
Band4	3MHz	QPSK	20385	1RB#0	21.05	PASS
Band4	3MHz	QPSK	20385	1RB#8	21.11	PASS
Band4	3MHz	QPSK	20385	1RB#14	20.94	PASS
Band4	3MHz	QPSK	20385	8RB#0	21.06	PASS
Band4	3MHz	QPSK	20385	8RB#4	21.11	PASS
Band4	3MHz	QPSK	20385	8RB#7	21.08	PASS
Band4	3MHz	QPSK	20385	15RB#0	21.15	PASS
Band4	3MHz	16QAM	20385	1RB#0	21.02	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.97	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.88	PASS
Band4	3MHz	16QAM	20385	8RB#0	19.96	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.02	PASS

Band4	3MHz	16QAM	20385	8RB#7	19.98	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.06	PASS
Band4	5MHz	QPSK	19975	1RB#0	21.91	PASS
Band4	5MHz	QPSK	19975	1RB#12	21.64	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.72	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.57	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.61	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.51	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.54	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.75	PASS
Band4	5MHz	16QAM	19975	1RB#12	21.55	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.63	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.47	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.62	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.52	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.49	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.16	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.00	PASS
Band4	5MHz	QPSK	20175	1RB#24	21.15	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.92	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.03	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.96	PASS
Band4	5MHz	QPSK	20175	25RB#0	20.96	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.02	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.00	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.06	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.02	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.06	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.06	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.05	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.26	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.09	PASS
Band4	5MHz	QPSK	20375	1RB#24	21.16	PASS
Band4	5MHz	QPSK	20375	12RB#0	21.03	PASS
Band4	5MHz	QPSK	20375	12RB#6	21.17	PASS
Band4	5MHz	QPSK	20375	12RB#13	21.15	PASS
Band4	5MHz	QPSK	20375	25RB#0	21.10	PASS
Band4	5MHz	16QAM	20375	1RB#0	21.14	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.99	PASS
Band4	5MHz	16QAM	20375	1RB#24	21.03	PASS
Band4	5MHz	16QAM	20375	12RB#0	19.98	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.09	PASS

Band4	5MHz	16QAM	20375	12RB#13	20.01	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.06	PASS
Band4	10MHz	QPSK	20000	1RB#0	21.77	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.42	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.34	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.27	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.32	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.09	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.20	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.68	PASS
Band4	10MHz	16QAM	20000	1RB#24	21.33	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.33	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.21	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.36	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.11	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.18	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.45	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.38	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.03	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.05	PASS
Band4	10MHz	QPSK	20175	25RB#25	20.85	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.83	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.74	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.47	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.16	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.07	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.10	PASS
Band4	10MHz	16QAM	20175	25RB#25	19.92	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.78	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.92	PASS
Band4	10MHz	QPSK	20350	1RB#49	21.79	PASS
Band4	10MHz	QPSK	20350	25RB#0	21.40	PASS
Band4	10MHz	QPSK	20350	25RB#12	21.33	PASS
Band4	10MHz	QPSK	20350	25RB#25	21.24	PASS
Band4	10MHz	QPSK	20350	50RB#0	21.05	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.17	PASS
Band4	10MHz	16QAM	20350	1RB#24	21.71	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.43	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.32	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.22	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.16	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.98	PASS

Band4	15MHz	QPSK	20025	1RB#38	22.35	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.94	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.75	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.75	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.38	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.92	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.45	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.16	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.60	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.68	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.06	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.41	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.75	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.49	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.27	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.27	PASS
Band4	15MHz	QPSK	20175	38RB#37	22.01	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.56	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.12	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.58	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.44	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.22	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.70	PASS
Band4	15MHz	QPSK	20325	1RB#0	23.17	PASS
Band4	15MHz	QPSK	20325	1RB#38	22.22	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.92	PASS
Band4	15MHz	QPSK	20325	38RB#0	21.57	PASS
Band4	15MHz	QPSK	20325	38RB#18	21.46	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.69	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.06	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.17	PASS
Band4	15MHz	16QAM	20325	1RB#38	21.98	PASS
Band4	15MHz	16QAM	20325	1RB#74	21.52	PASS
Band4	15MHz	16QAM	20325	38RB#0	21.49	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.26	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.45	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.27	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.07	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.21	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.12	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.08	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.11	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.09	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.16	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.80	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.02	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.10	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.79	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.08	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	24.07	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	24.02	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	24.05	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	24.02	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	24.02	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	24.00	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.95	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.76	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.85	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.85	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.71	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.81	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.75	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	22.00	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.27	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.42	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.61	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.19	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.33	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.42	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.10	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.97	PASS
Band5	1.4MHz	16QAM	20643	1RB#2	22.12	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.25	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	21.80	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.00	PASS

Band5	1.4MHz	16QAM	20643	3RB#3	22.01	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.08	PASS
Band5	3MHz	QPSK	20415	1RB#0	22.86	PASS
Band5	3MHz	QPSK	20415	1RB#8	22.55	PASS
Band5	3MHz	QPSK	20415	1RB#14	22.32	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.75	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.61	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.51	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.62	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.86	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.52	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.21	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.75	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.63	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.49	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.68	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.83	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.97	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.90	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.81	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.95	PASS
Band5	3MHz	QPSK	20525	8RB#7	23.07	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.93	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.62	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.81	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.93	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.89	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.97	PASS
Band5	3MHz	16QAM	20525	8RB#7	22.08	PASS
Band5	3MHz	16QAM	20525	15RB#0	22.00	PASS
Band5	3MHz	QPSK	20635	1RB#0	22.61	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.13	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.53	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.57	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.90	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.08	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.89	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.43	PASS
Band5	3MHz	16QAM	20635	1RB#8	21.90	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.27	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.62	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.78	PASS

Band5	3MHz	16QAM	20635	8RB#7	21.02	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.77	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.00	PASS
Band5	5MHz	QPSK	20425	1RB#12	22.45	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.59	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.56	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.46	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.20	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.42	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.91	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.30	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.24	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.53	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.42	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.23	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.48	PASS
Band5	5MHz	QPSK	20525	1RB#0	24.23	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.88	PASS
Band5	5MHz	QPSK	20525	1RB#24	24.20	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.77	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.92	PASS
Band5	5MHz	QPSK	20525	12RB#13	23.09	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.89	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.81	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.82	PASS
Band5	5MHz	16QAM	20525	1RB#24	23.07	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.82	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.95	PASS
Band5	5MHz	16QAM	20525	12RB#13	22.16	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.98	PASS
Band5	5MHz	QPSK	20625	1RB#0	22.51	PASS
Band5	5MHz	QPSK	20625	1RB#12	22.61	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.74	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.24	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.56	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.88	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.57	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.36	PASS
Band5	5MHz	16QAM	20625	1RB#12	21.45	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.36	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.23	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.51	PASS

Band5	5MHz	16QAM	20625	12RB#13	20.74	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.51	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.93	PASS
Band5	10MHz	QPSK	20450	1RB#24	22.45	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.99	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.14	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.23	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.47	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.33	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.79	PASS
Band5	10MHz	16QAM	20450	1RB#24	21.16	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.65	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.16	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.24	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.43	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.07	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.62	PASS
Band5	10MHz	QPSK	20525	1RB#49	24.07	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.85	PASS
Band5	10MHz	QPSK	20525	25RB#12	23.01	PASS
Band5	10MHz	QPSK	20525	25RB#25	23.19	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.85	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.52	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.62	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.88	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.76	PASS
Band5	10MHz	16QAM	20525	25RB#12	22.03	PASS
Band5	10MHz	16QAM	20525	25RB#25	22.22	PASS
Band5	10MHz	QPSK	20600	1RB#0	24.32	PASS
Band5	10MHz	QPSK	20600	1RB#24	22.71	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.78	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.46	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.65	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.53	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.59	PASS
Band5	10MHz	16QAM	20600	1RB#0	23.30	PASS
Band5	10MHz	16QAM	20600	1RB#24	21.62	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.43	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.46	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.63	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.47	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	23.49	PASS
Band7	5MHz	QPSK	20775	1RB#12	23.02	PASS
Band7	5MHz	QPSK	20775	1RB#24	22.84	PASS
Band7	5MHz	QPSK	20775	12RB#0	22.72	PASS
Band7	5MHz	QPSK	20775	12RB#6	22.63	PASS
Band7	5MHz	QPSK	20775	12RB#13	22.56	PASS
Band7	5MHz	QPSK	20775	25RB#0	22.51	PASS
Band7	5MHz	16QAM	20775	1RB#0	23.17	PASS
Band7	5MHz	16QAM	20775	1RB#12	22.92	PASS
Band7	5MHz	16QAM	20775	1RB#24	22.77	PASS
Band7	5MHz	16QAM	20775	12RB#0	22.67	PASS
Band7	5MHz	16QAM	20775	12RB#6	22.59	PASS
Band7	5MHz	16QAM	20775	12RB#13	22.53	PASS
Band7	5MHz	16QAM	20775	25RB#0	22.49	PASS
Band7	5MHz	QPSK	21100	1RB#0	22.43	PASS
Band7	5MHz	QPSK	21100	1RB#12	22.32	PASS
Band7	5MHz	QPSK	21100	1RB#24	22.99	PASS
Band7	5MHz	QPSK	21100	12RB#0	22.47	PASS
Band7	5MHz	QPSK	21100	12RB#6	22.56	PASS
Band7	5MHz	QPSK	21100	12RB#13	22.56	PASS
Band7	5MHz	QPSK	21100	25RB#0	22.52	PASS
Band7	5MHz	16QAM	21100	1RB#0	22.29	PASS
Band7	5MHz	16QAM	21100	1RB#24	22.62	PASS
Band7	5MHz	16QAM	21100	12RB#0	21.26	PASS
Band7	5MHz	16QAM	21100	12RB#6	21.29	PASS
Band7	5MHz	16QAM	21100	12RB#13	21.34	PASS
Band7	5MHz	16QAM	21100	25RB#0	21.31	PASS
Band7	5MHz	QPSK	21425	1RB#0	22.41	PASS
Band7	5MHz	QPSK	21425	1RB#12	22.27	PASS
Band7	5MHz	QPSK	21425	1RB#24	21.66	PASS
Band7	5MHz	QPSK	21425	12RB#0	22.22	PASS
Band7	5MHz	QPSK	21425	12RB#6	22.19	PASS
Band7	5MHz	QPSK	21425	12RB#13	21.89	PASS
Band7	5MHz	QPSK	21425	25RB#0	22.07	PASS
Band7	5MHz	16QAM	21425	1RB#0	22.29	PASS
Band7	5MHz	16QAM	21425	1RB#12	22.24	PASS
Band7	5MHz	16QAM	21425	1RB#24	21.58	PASS
Band7	5MHz	16QAM	21425	12RB#0	21.49	PASS
Band7	5MHz	16QAM	21425	12RB#6	21.46	PASS
Band7	5MHz	16QAM	21425	12RB#13	21.22	PASS
Band7	5MHz	16QAM	21425	25RB#0	21.29	PASS

Band7	10MHz	QPSK	20800	1RB#0	22.99	PASS
Band7	10MHz	QPSK	20800	1RB#24	23.10	PASS
Band7	10MHz	QPSK	20800	1RB#49	23.55	PASS
Band7	10MHz	QPSK	20800	25RB#0	23.40	PASS
Band7	10MHz	QPSK	20800	25RB#12	23.34	PASS
Band7	10MHz	QPSK	20800	25RB#25	23.11	PASS
Band7	10MHz	QPSK	20800	50RB#0	22.98	PASS
Band7	10MHz	16QAM	20800	1RB#0	22.84	PASS
Band7	10MHz	16QAM	20800	1RB#24	23.15	PASS
Band7	10MHz	16QAM	20800	1RB#49	23.39	PASS
Band7	10MHz	16QAM	20800	25RB#0	22.16	PASS
Band7	10MHz	16QAM	20800	25RB#12	22.07	PASS
Band7	10MHz	16QAM	20800	25RB#25	21.88	PASS
Band7	10MHz	QPSK	21100	1RB#0	23.58	PASS
Band7	10MHz	QPSK	21100	1RB#24	23.30	PASS
Band7	10MHz	QPSK	21100	1RB#49	23.47	PASS
Band7	10MHz	QPSK	21100	25RB#0	22.97	PASS
Band7	10MHz	QPSK	21100	25RB#12	22.96	PASS
Band7	10MHz	QPSK	21100	25RB#25	22.87	PASS
Band7	10MHz	QPSK	21100	50RB#0	22.73	PASS
Band7	10MHz	16QAM	21100	1RB#0	23.45	PASS
Band7	10MHz	16QAM	21100	1RB#24	23.21	PASS
Band7	10MHz	16QAM	21100	1RB#49	23.31	PASS
Band7	10MHz	16QAM	21100	25RB#0	21.66	PASS
Band7	10MHz	16QAM	21100	25RB#12	21.67	PASS
Band7	10MHz	16QAM	21100	25RB#25	21.52	PASS
Band7	10MHz	QPSK	21400	1RB#0	23.62	PASS
Band7	10MHz	QPSK	21400	1RB#24	23.36	PASS
Band7	10MHz	QPSK	21400	1RB#49	22.78	PASS
Band7	10MHz	QPSK	21400	25RB#0	23.05	PASS
Band7	10MHz	QPSK	21400	25RB#12	23.00	PASS
Band7	10MHz	QPSK	21400	25RB#25	22.67	PASS
Band7	10MHz	QPSK	21400	50RB#0	22.65	PASS
Band7	10MHz	16QAM	21400	1RB#0	23.13	PASS
Band7	10MHz	16QAM	21400	1RB#24	23.23	PASS
Band7	10MHz	16QAM	21400	1RB#49	22.33	PASS
Band7	10MHz	16QAM	21400	25RB#0	22.17	PASS
Band7	10MHz	16QAM	21400	25RB#12	22.09	PASS
Band7	10MHz	16QAM	21400	25RB#25	21.83	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	23.08	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	23.17	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	23.08	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	23.10	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	23.11	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	23.08	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	22.18	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.10	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.22	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.04	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	22.01	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	22.11	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.95	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	21.18	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	23.19	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	23.29	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	23.16	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	23.22	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	23.16	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	23.14	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	22.26	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	22.18	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.28	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	22.13	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	22.06	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	22.16	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	22.02	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	21.23	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	23.18	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	23.18	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	23.14	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	23.22	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	23.12	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	23.18	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	22.17	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.05	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.34	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.09	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	22.01	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	22.08	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	22.07	PASS

Band12	1.4MHz	16QAM	23173	6RB#0	21.01	PASS
Band12	3MHz	QPSK	23025	1RB#0	23.13	PASS
Band12	3MHz	QPSK	23025	1RB#8	23.13	PASS
Band12	3MHz	QPSK	23025	1RB#14	23.22	PASS
Band12	3MHz	QPSK	23025	8RB#0	22.17	PASS
Band12	3MHz	QPSK	23025	8RB#4	22.16	PASS
Band12	3MHz	QPSK	23025	8RB#7	22.21	PASS
Band12	3MHz	QPSK	23025	15RB#0	22.17	PASS
Band12	3MHz	16QAM	23025	1RB#0	22.15	PASS
Band12	3MHz	16QAM	23025	1RB#8	22.13	PASS
Band12	3MHz	16QAM	23025	1RB#14	22.21	PASS
Band12	3MHz	16QAM	23025	8RB#0	21.21	PASS
Band12	3MHz	16QAM	23025	8RB#4	21.19	PASS
Band12	3MHz	16QAM	23025	8RB#7	21.21	PASS
Band12	3MHz	16QAM	23025	15RB#0	21.22	PASS
Band12	3MHz	QPSK	23095	1RB#0	23.28	PASS
Band12	3MHz	QPSK	23095	1RB#8	23.17	PASS
Band12	3MHz	QPSK	23095	1RB#14	23.25	PASS
Band12	3MHz	QPSK	23095	8RB#0	22.28	PASS
Band12	3MHz	QPSK	23095	8RB#4	22.22	PASS
Band12	3MHz	QPSK	23095	8RB#7	22.23	PASS
Band12	3MHz	QPSK	23095	15RB#0	22.25	PASS
Band12	3MHz	16QAM	23095	1RB#0	22.31	PASS
Band12	3MHz	16QAM	23095	1RB#8	22.20	PASS
Band12	3MHz	16QAM	23095	1RB#14	22.23	PASS
Band12	3MHz	16QAM	23095	8RB#0	21.31	PASS
Band12	3MHz	16QAM	23095	8RB#4	21.26	PASS
Band12	3MHz	16QAM	23095	8RB#7	21.24	PASS
Band12	3MHz	16QAM	23095	15RB#0	21.22	PASS
Band12	3MHz	QPSK	23165	1RB#0	23.18	PASS
Band12	3MHz	QPSK	23165	1RB#8	23.08	PASS
Band12	3MHz	QPSK	23165	1RB#14	23.10	PASS
Band12	3MHz	QPSK	23165	8RB#0	22.19	PASS
Band12	3MHz	QPSK	23165	8RB#4	22.17	PASS
Band12	3MHz	QPSK	23165	8RB#7	22.13	PASS
Band12	3MHz	QPSK	23165	15RB#0	22.17	PASS
Band12	3MHz	16QAM	23165	1RB#0	22.11	PASS
Band12	3MHz	16QAM	23165	1RB#8	22.29	PASS
Band12	3MHz	16QAM	23165	1RB#14	22.02	PASS
Band12	3MHz	16QAM	23165	8RB#0	21.17	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.09	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.17	PASS

Band12	3MHz	16QAM	23165	15RB#0	21.08	PASS
Band12	5MHz	QPSK	23035	1RB#0	23.34	PASS
Band12	5MHz	QPSK	23035	1RB#12	23.25	PASS
Band12	5MHz	QPSK	23035	1RB#24	23.44	PASS
Band12	5MHz	QPSK	23035	12RB#0	22.22	PASS
Band12	5MHz	QPSK	23035	12RB#6	22.23	PASS
Band12	5MHz	QPSK	23035	12RB#13	22.25	PASS
Band12	5MHz	QPSK	23035	25RB#0	22.28	PASS
Band12	5MHz	16QAM	23035	1RB#0	22.21	PASS
Band12	5MHz	16QAM	23035	1RB#12	22.22	PASS
Band12	5MHz	16QAM	23035	1RB#24	22.29	PASS
Band12	5MHz	16QAM	23035	12RB#0	21.23	PASS
Band12	5MHz	16QAM	23035	12RB#6	21.24	PASS
Band12	5MHz	16QAM	23035	12RB#13	21.25	PASS
Band12	5MHz	16QAM	23035	25RB#0	21.27	PASS
Band12	5MHz	QPSK	23095	1RB#0	23.42	PASS
Band12	5MHz	QPSK	23095	1RB#12	23.27	PASS
Band12	5MHz	QPSK	23095	1RB#24	23.41	PASS
Band12	5MHz	QPSK	23095	12RB#0	22.31	PASS
Band12	5MHz	QPSK	23095	12RB#6	22.27	PASS
Band12	5MHz	QPSK	23095	12RB#13	22.25	PASS
Band12	5MHz	QPSK	23095	25RB#0	22.28	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.29	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.22	PASS
Band12	5MHz	16QAM	23095	1RB#24	22.28	PASS
Band12	5MHz	16QAM	23095	12RB#0	21.30	PASS
Band12	5MHz	16QAM	23095	12RB#6	21.30	PASS
Band12	5MHz	16QAM	23095	12RB#13	21.25	PASS
Band12	5MHz	16QAM	23095	25RB#0	21.29	PASS
Band12	5MHz	QPSK	23155	1RB#0	23.34	PASS
Band12	5MHz	QPSK	23155	1RB#12	23.27	PASS
Band12	5MHz	QPSK	23155	1RB#24	23.28	PASS
Band12	5MHz	QPSK	23155	12RB#0	22.26	PASS
Band12	5MHz	QPSK	23155	12RB#6	22.24	PASS
Band12	5MHz	QPSK	23155	12RB#13	22.23	PASS
Band12	5MHz	QPSK	23155	25RB#0	22.29	PASS
Band12	5MHz	16QAM	23155	1RB#0	22.31	PASS
Band12	5MHz	16QAM	23155	1RB#12	22.36	PASS
Band12	5MHz	16QAM	23155	1RB#24	22.29	PASS
Band12	5MHz	16QAM	23155	12RB#0	21.31	PASS
Band12	5MHz	16QAM	23155	12RB#6	21.32	PASS
Band12	5MHz	16QAM	23155	12RB#13	21.29	PASS

Band12	5MHz	16QAM	23155	25RB#0	21.23	PASS
Band12	10MHz	QPSK	23060	1RB#0	23.35	PASS
Band12	10MHz	QPSK	23060	1RB#24	23.28	PASS
Band12	10MHz	QPSK	23060	1RB#49	23.36	PASS
Band12	10MHz	QPSK	23060	25RB#0	22.28	PASS
Band12	10MHz	QPSK	23060	25RB#12	22.27	PASS
Band12	10MHz	QPSK	23060	25RB#25	22.30	PASS
Band12	10MHz	QPSK	23060	50RB#0	22.29	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.29	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.21	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.32	PASS
Band12	10MHz	16QAM	23060	25RB#0	21.24	PASS
Band12	10MHz	16QAM	23060	25RB#12	21.25	PASS
Band12	10MHz	16QAM	23060	25RB#25	21.29	PASS
Band12	10MHz	QPSK	23095	1RB#0	23.36	PASS
Band12	10MHz	QPSK	23095	1RB#24	23.38	PASS
Band12	10MHz	QPSK	23095	1RB#49	23.35	PASS
Band12	10MHz	QPSK	23095	25RB#0	22.31	PASS
Band12	10MHz	QPSK	23095	25RB#12	22.31	PASS
Band12	10MHz	QPSK	23095	25RB#25	22.26	PASS
Band12	10MHz	QPSK	23095	50RB#0	22.28	PASS
Band12	10MHz	16QAM	23095	1RB#0	22.25	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.45	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.20	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.28	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.31	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.29	PASS
Band12	10MHz	QPSK	23130	1RB#0	23.68	PASS
Band12	10MHz	QPSK	23130	1RB#24	23.25	PASS
Band12	10MHz	QPSK	23130	1RB#49	23.25	PASS
Band12	10MHz	QPSK	23130	25RB#0	22.34	PASS
Band12	10MHz	QPSK	23130	25RB#12	22.26	PASS
Band12	10MHz	QPSK	23130	25RB#25	22.24	PASS
Band12	10MHz	QPSK	23130	50RB#0	22.31	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.17	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.22	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.04	PASS
Band12	10MHz	16QAM	23130	25RB#0	21.36	PASS
Band12	10MHz	16QAM	23130	25RB#12	21.24	PASS
Band12	10MHz	16QAM	23130	25RB#25	21.27	PASS

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.14	PASS
Band17	5MHz	QPSK	23755	1RB#12	21.93	PASS
Band17	5MHz	QPSK	23755	1RB#24	21.49	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.78	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.84	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.60	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.66	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.93	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.90	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.37	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.91	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.91	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.73	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.79	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.65	PASS
Band17	5MHz	QPSK	23790	1RB#12	21.93	PASS
Band17	5MHz	QPSK	23790	1RB#24	21.53	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.54	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.61	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.35	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.42	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.30	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.75	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.42	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.61	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.70	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.43	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.53	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.33	PASS
Band17	5MHz	QPSK	23825	1RB#12	21.62	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.42	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.40	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.52	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.87	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.57	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.90	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.57	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.27	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.49	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.56	PASS
Band17	5MHz	16QAM	23825	12RB#13	20.96	PASS

Band17	5MHz	16QAM	23825	25RB#0	20.69	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.32	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.24	PASS
Band17	10MHz	QPSK	23780	25RB#0	22.35	PASS
Band17	10MHz	QPSK	23780	25RB#12	22.05	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.65	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.60	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.83	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.13	PASS
Band17	10MHz	16QAM	23780	25RB#0	21.35	PASS
Band17	10MHz	16QAM	23780	25RB#12	21.08	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.67	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.91	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.27	PASS
Band17	10MHz	QPSK	23790	1RB#49	21.97	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.83	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.71	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.34	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.48	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.58	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.25	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.78	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.99	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.78	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.44	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.34	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.22	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.48	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.75	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.64	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.47	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.50	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.64	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.03	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.20	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.91	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.70	PASS
Band17	10MHz	16QAM	23800	25RB#25	20.58	PASS

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. 6 When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test 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.

9.2 Test Results for Standalone SAR Test

Near to Mouth SAR

GSM850 –Near to Mouth SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Front side	190	836.6	33.43	34.0	1.140	0.122	0.139
1.	GPRS_4TX	Front side	251	848.8	29.21	30.0	1.199	0.281	0.337

GSM1900 –Near to Mouth SAR Test (Gap: 10mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Front side	512	1850.2	30.17	31.0	1.211	0.063	0.076
2.	GPRS_4TX	Front side	810	1909.8	26.25	27.0	1.189	0.095	0.113

LTE Band 2–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
	QPSK 15MHz 1RB	Front Side	1902.5	24.85	25.0	1.035	1.149	1.189
3.	QPSK 15MHz 1RB	Front Side	1857.5	23.70	25.0	1.349	1.014	1.368
	QPSK 15MHz 1RB	Front Side	1880	23.67	25.0	1.358	0.975	1.324
	QPSK 15MHz 50%RB	Front Side	1902.5	24.85	25.0	1.035	1.102	1.141
	QPSK 15MHz 50%RB	Front Side	1857.5	23.70	25.0	1.349	0.892	1.203
	QPSK 15MHz 50%RB	Front Side	1880	23.67	25.0	1.358	0.923	1.254

LTE Band 4–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
4.	QPSK 15MHz 1RB	Front Side	1747.5	23.17	23.5	1.079	0.594	0.641
	QPSK 15MHz 50%RB	Front Side	1747.5	23.17	23.5	1.079	0.587	0.633

LTE Band 5–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
5.	QPSK 10MHz 1RB	Front Side	844	24.32	25.0	1.169	0.080	0.094
	QPSK 10MHz 50%RB	Front Side	844	24.32	25.0	1.169	0.073	0.085

LTE Band 7–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
6.	QPSK 10MHz 1RB	Front Side	2565	23.62	24.0	1.091	0.814	0.888
	QPSK 10MHz 1RB	Front Side	2505	23.55	24.0	1.109	0.613	0.680
	QPSK 10MHz 1RB	Front Side	2535	23.58	24.0	1.102	0.542	0.597
	QPSK 10MHz 50%RB	Front Side	2565	23.62	24.0	1.091	0.745	0.813
	QPSK 10MHz 50%RB	Front Side	2505	23.55	24.0	1.109	0.567	0.629
	QPSK 10MHz 50%RB	Front Side	2535	23.58	24.0	1.102	0.515	0.567

LTE Band 12–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
7.	QPSK 10MHz 1RB	Front Side	711	23.68	24.0	1.076	0.132	0.142
	QPSK 10MHz 50%RB	Front Side	711	23.68	24.0	1.076	0.124	0.133

LTE Band 17–Near to Mouth SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
	Bandwidth, RB		MHz					
8.	QPSK 10MHz 1RB	Front Side	711	23.34	24.0	1.164	0.093	0.108
	QPSK 10MHz 50%RB	Front Side	711	23.34	24.0	1.164	0.088	0.102

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.

Wrist-worn SAR

GSM850 –Wrist-worn SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
			CH.	MHz					
	GSM	Back Side	190	836.6	33.43	34.0	1.140	0.052	0.059
9.	GPRS_4TX	Back Side	251	848.8	29.21	30.0	1.199	0.114	0.137

GSM1900 –Wrist-worn SAR Test (Gap: 0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
			CH.	MHz					
10.	GSM	Back Side	512	1850.2	30.17	31.0	1.211	0.419	0.507
	GPRS_4TX	Back Side	810	1909.8	26.25	27.0	1.189	0.351	0.417

LTE Band 2–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Freque ncy	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
	QPSK 15MHz 1RB	Back Side	1902.5	24.85	25.0	1.035	2.152	2.228
11.	QPSK 15MHz 1RB	Back Side	1857.5	23.70	25.0	1.349	2.190	2.954
	QPSK 15MHz 1RB	Back Side	1880	23.67	25.0	1.358	2.004	2.722
	QPSK 15MHz 50%RB	Back Side	1902.5	24.85	25.0	1.035	2.105	2.179
	QPSK 15MHz 50%RB	Back Side	1857.5	23.70	25.0	1.349	2.145	2.894
	QPSK 15MHz 50%RB	Back Side	1880	23.67	25.0	1.358	1.995	2.710

LTE Band 4–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Freque ncy	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
	QPSK 15MHz 1RB	Back Side	1747.5	23.17	23.5	1.079	1.803	1.945
	QPSK 15MHz 1RB	Back Side	1717.5	22.98	23.5	1.127	1.956	2.205
12.	QPSK 15MHz 1RB	Back Side	1732.5	22.41	23.5	1.285	1.867	2.400
	QPSK 15MHz 50%RB	Back Side	1747.5	23.17	23.5	1.079	1.739	1.876
	QPSK 15MHz 50%RB	Back Side	1717.5	22.98	23.5	1.127	1.869	2.107
	QPSK 15MHz 50%RB	Back Side	1732.5	22.41	23.5	1.285	1.819	2.338

LTE Band 5–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
13.	QPSK 10MHz 1RB	Back Side	844	24.32	25.0	1.169	0.331	0.387
	QPSK 10MHz 50%RB	Back Side	844	24.32	25.0	1.169	0.326	0.381

LTE Band 7–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
14.	QPSK 10MHz 1RB	Back Side	2565	23.62	24.0	1.091	0.568	0.620
	QPSK 10MHz 50%RB	Back Side	2565	23.62	24.0	1.091	0.555	0.606

LTE Band 12–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
15.	QPSK 10MHz 1RB	Back Side	711	23.68	24.0	1.076	0.382	0.411
	QPSK 10MHz 50%RB	Back Side	711	23.68	24.0	1.076	0.269	0.290

LTE Band 17–Wrist-worn SAR Test (Gap: 0mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 10g (W/kg)	Scaled SAR 10g (W/kg)
	Bandwidth, RB		MHz					
16.	QPSK 10MHz 1RB	Back Side	711	23.34	24.0	1.164	0.254	0.296
	QPSK 10MHz 50%RB	Back Side	711	23.34	24.0	1.164	0.241	0.281

Remark: Per 447498 D01 General RF Exposure Guidance v06, if the highest output channel SAR for each exposure position ≤ 2.0 W/kg other channels SAR tests are not necessary.

Repeated SAR**Near to Mouth SAR**

LTE Band 2–Near to Mouth SAR Test (Gap: 10mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 15MHz 1RB	Front Side	1902.5	1.149	1.112	/	1.033	/
QPSK 15MHz 1RB	Front Side	1857.5	1.014	1.003	/	1.011	/
QPSK 15MHz 1RB	Front Side	1880	0.975	0.956	/	1.020	/
QPSK 15MHz 50%RB	Front Side	1902.5	1.102	1.089	/	1.012	/
QPSK 15MHz 50%RB	Front Side	1857.5	0.892	0.871	/	1.024	/
QPSK 15MHz 50%RB	Front Side	1880	0.923	0.904	/	1.021	/

LTE Band 7–Near to Mouth SAR Test (Gap: 10mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 10MHz 1RB	Front Side	2565	0.814	0.801	/	1.016	/

Wrist-worn SAR

LTE Band 2–Wrist-worn SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR 10g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 15MHz 1RB	Back Side	1902.5	2.152	2.121	/	1.015	/
QPSK 15MHz 1RB	Back Side	1857.5	2.190	2.163	/	1.012	/
QPSK 15MHz 1RB	Back Side	1880	2.004	1.992	/	1.006	/
QPSK 15MHz 50%RB	Back Side	1902.5	2.105	2.085	/	1.010	/
QPSK 15MHz 50%RB	Back Side	1857.5	2.145	2.111	/	1.016	/
QPSK 15MHz 50%RB	Back Side	1880	1.995	1.978	/	1.009	/

Remark:

- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

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	$v_{\text{eff}} =$
Expanded uncertainty, U		K=2			20.23		20.23	

Annex A. Plots of System Performance Check

MEASUREMENT 1

Type: Validation measurement (Fast, 75.00 %)
Date of measurement:2025-09-17
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.08; Calibrated: 2025-02-12

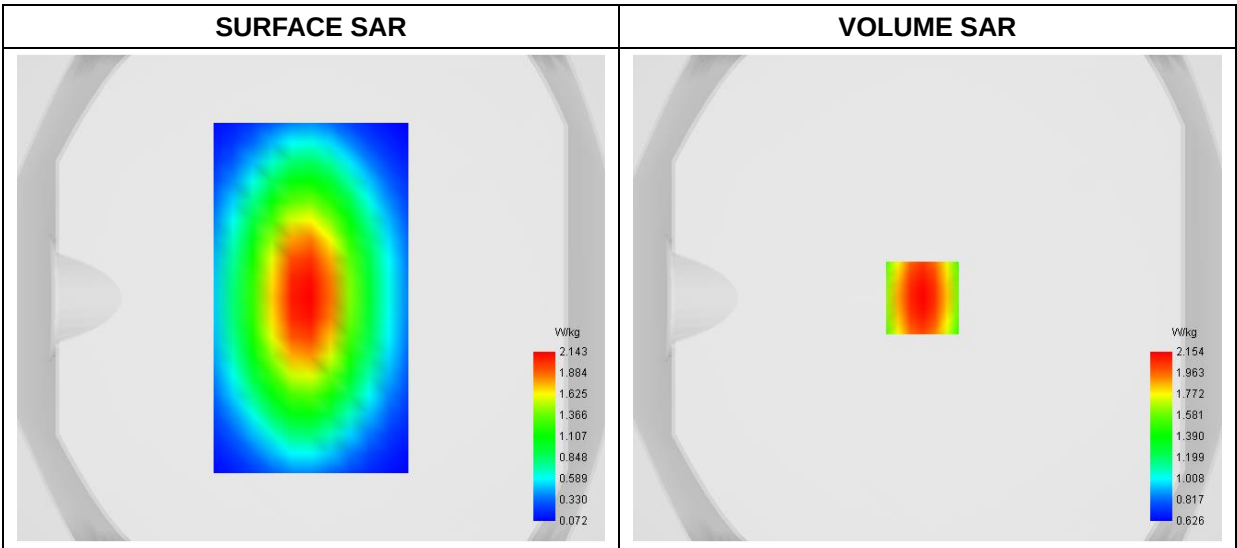
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	750.000000
Relative Permittivity (real part)	41.242457
Conductivity (S/m)	0.873479
Power Variation (%)	2.178100
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



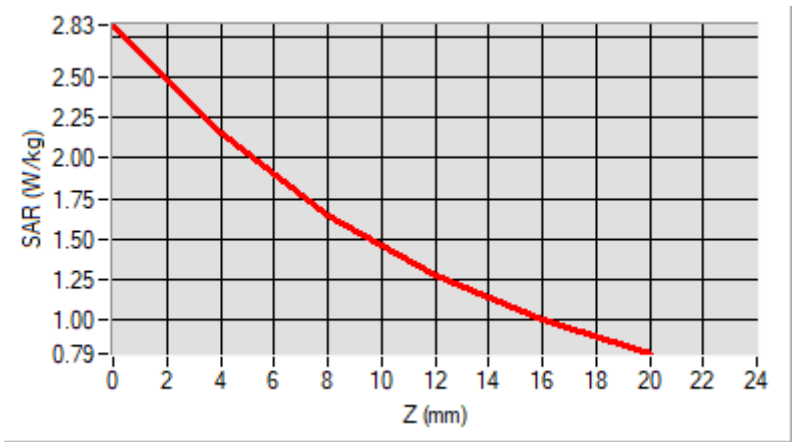
Maximum location: X=-2.00, Y=0.00

D. SAR 1g & 10g

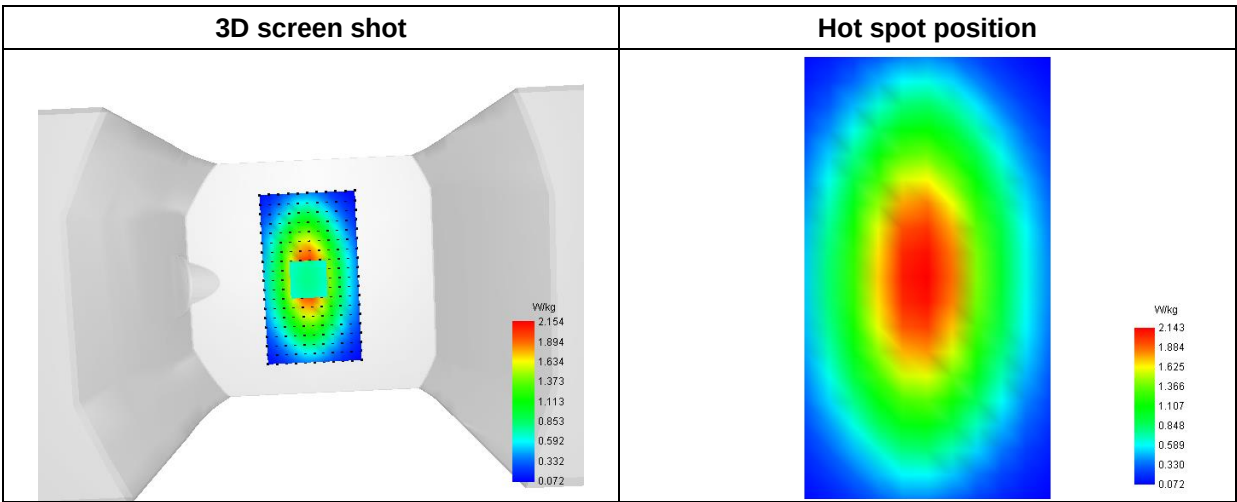
SAR 10g (W/Kg)	1.430855
SAR 1g (W/Kg)	2.051374

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.8268	2.1542	1.6473	1.2759	1.0033



F. 3D Image



MEASUREMENT 2

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 0.99; Calibrated: 2025-02-12

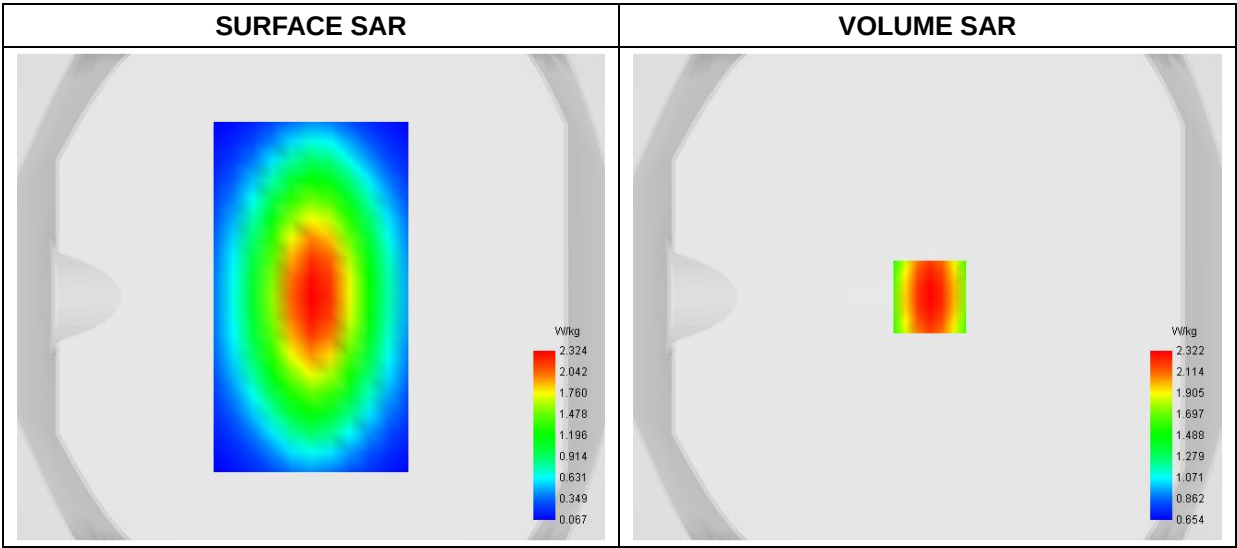
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	835.000000
Relative Permittivity (real part)	41.094898
Conductivity (S/m)	0.884178
Power Variation (%)	-1.848700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

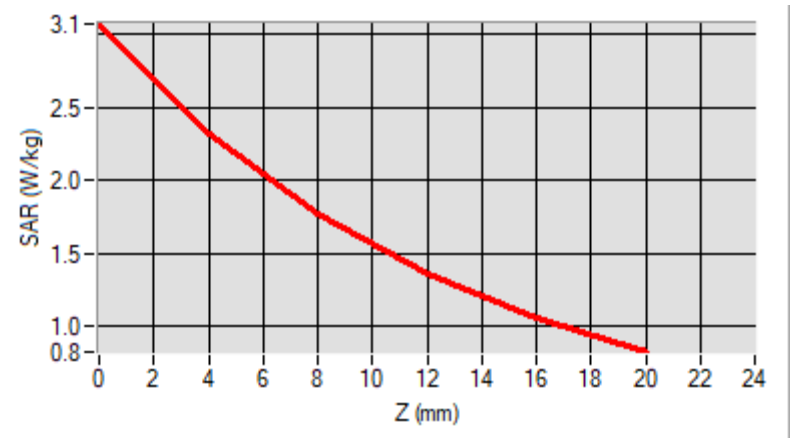


Maximum location: X=1.00, Y=0.00
D. SAR 1g & 10g

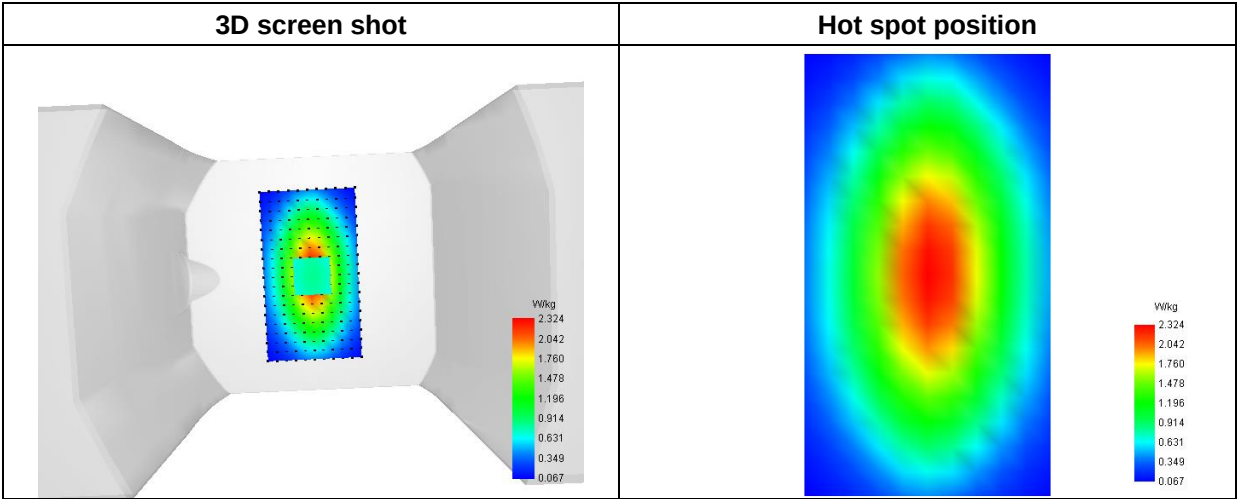
SAR 10g (W/Kg)	1.527360
SAR 1g (W/Kg)	2.210386

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	3.0677	2.3224	1.7644	1.3585	1.0631



F. 3D Image



MEASUREMENT 3

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2025-10-11
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

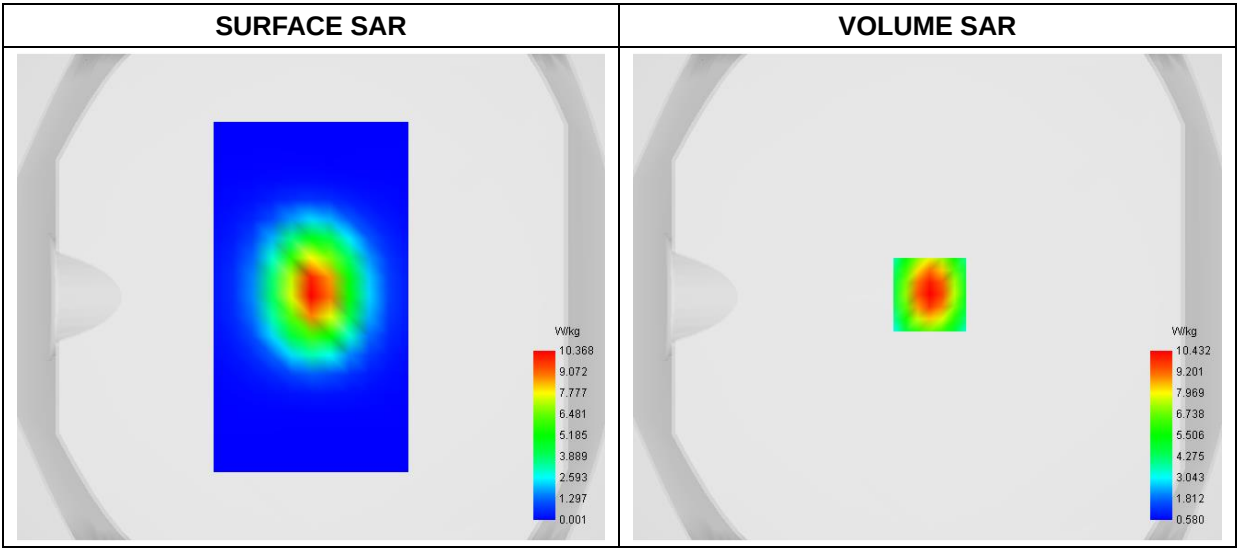
A. Experimental conditions

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)	39.261747
Conductivity (S/m)	1.384858
Power Variation (%)	1.459800
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

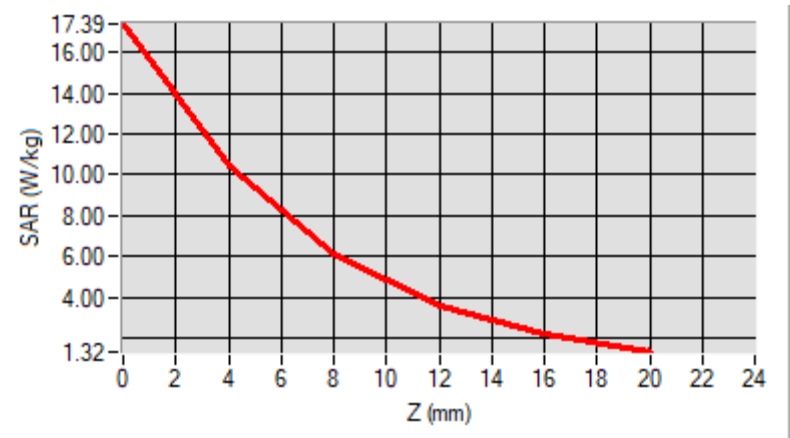


Maximum location: X=1.00, Y=1.00
D. SAR 1g & 10g

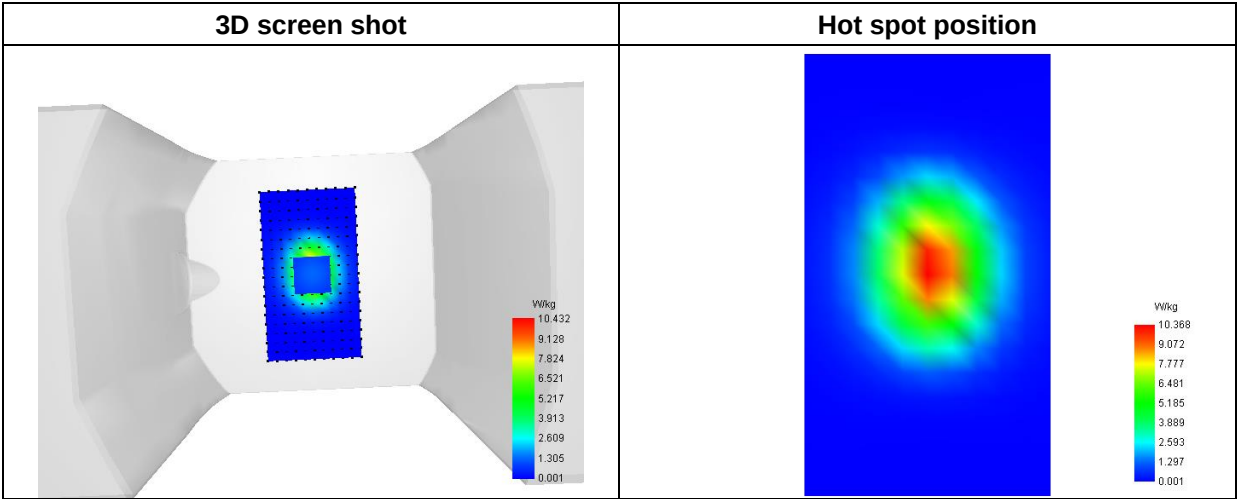
SAR 10g (W/Kg)	4.968858
SAR 1g (W/Kg)	9.623880

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	17.3936	10.4322	6.1187	3.6132	2.2066



F. 3D Image



MEASUREMENT 4

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2025-09-18
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.39; Calibrated: 2025-02-12

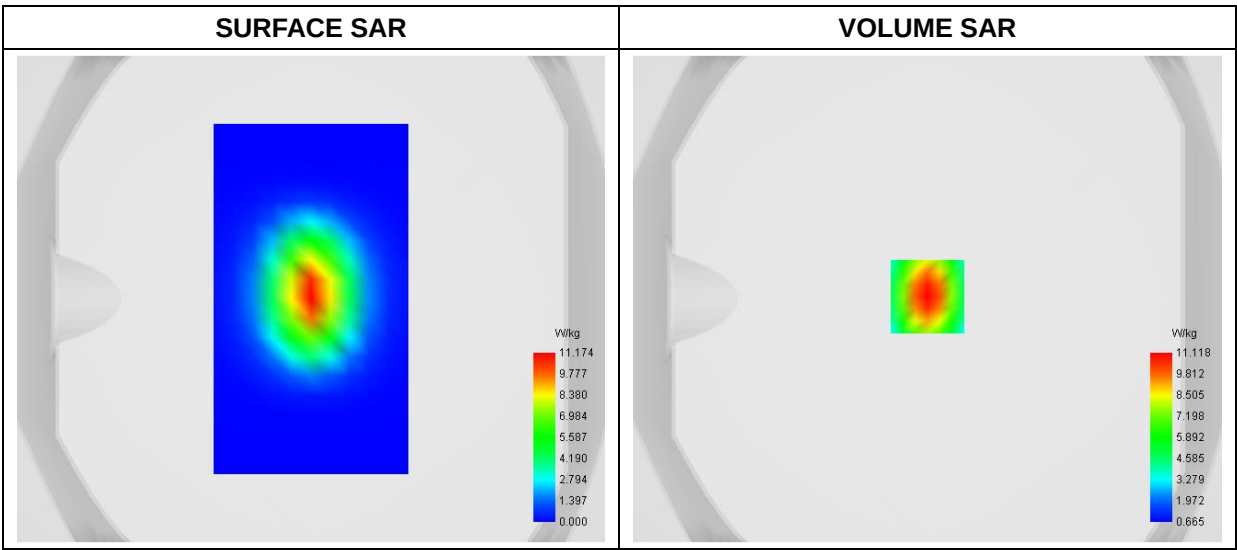
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1900.000000
Relative Permittivity (real part)	41.264574
Conductivity (S/m)	1.413135
Power Variation (%)	-1.224700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

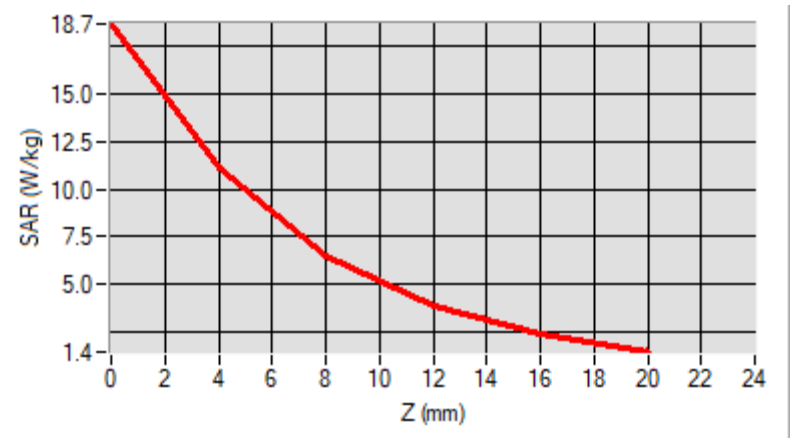


Maximum location: X=0.00, Y=1.00
D. SAR 1g & 10g

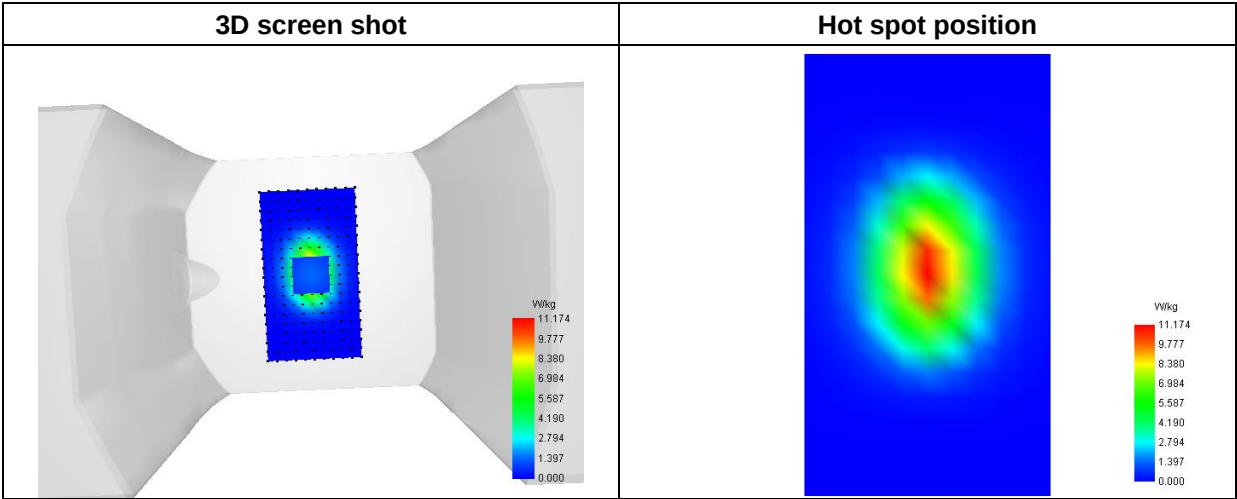
SAR 10g (W/Kg)	5.260825
SAR 1g (W/Kg)	10.222516

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	18.6940	11.1182	6.4717	3.8103	2.3414



F. 3D Image



MEASUREMENT 5

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 22025-09-19
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.36; Calibrated: 2025-02-12

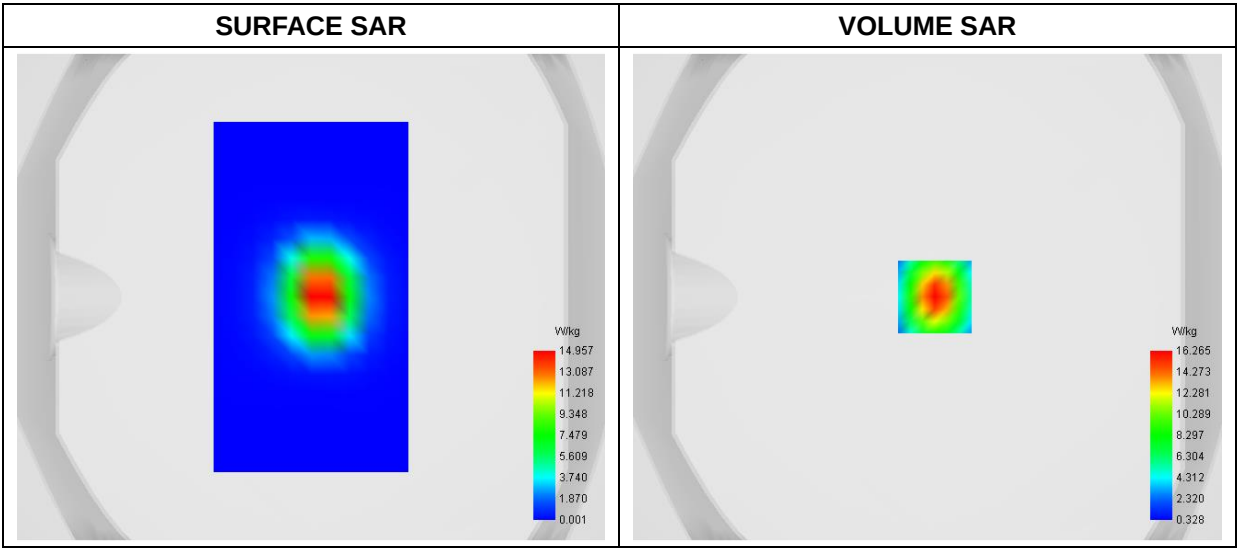
A. Experimental conditions

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)	39.824541
Conductivity (S/m)	1.982478
Power Variation (%)	1.347100
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



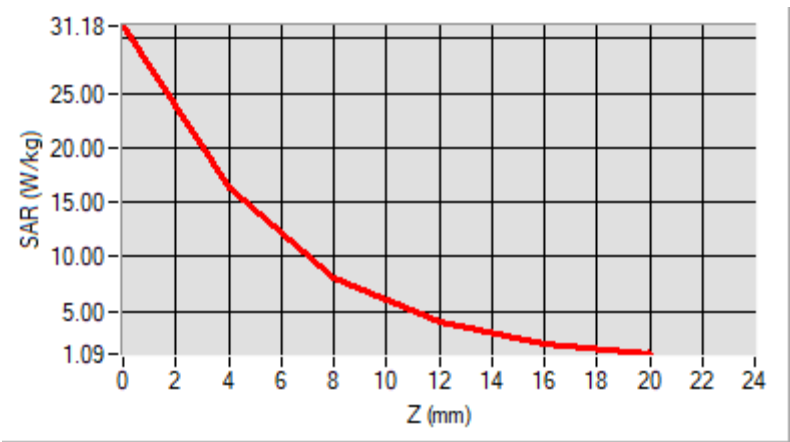
Maximum location: X=3.00, Y=0.00

D. SAR 1g & 10g

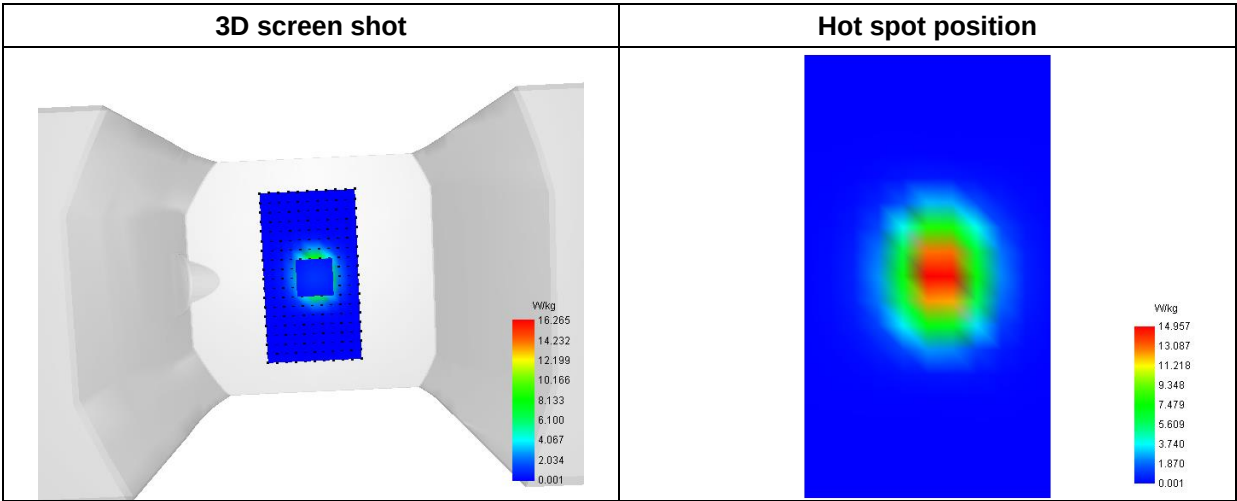
SAR 10g (W/Kg)	6.553727
SAR 1g (W/Kg)	14.814545

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	31.1802	16.2650	8.0339	3.9472	2.0732



F. 3D Image



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 0.99; Calibrated: 2025-02-12

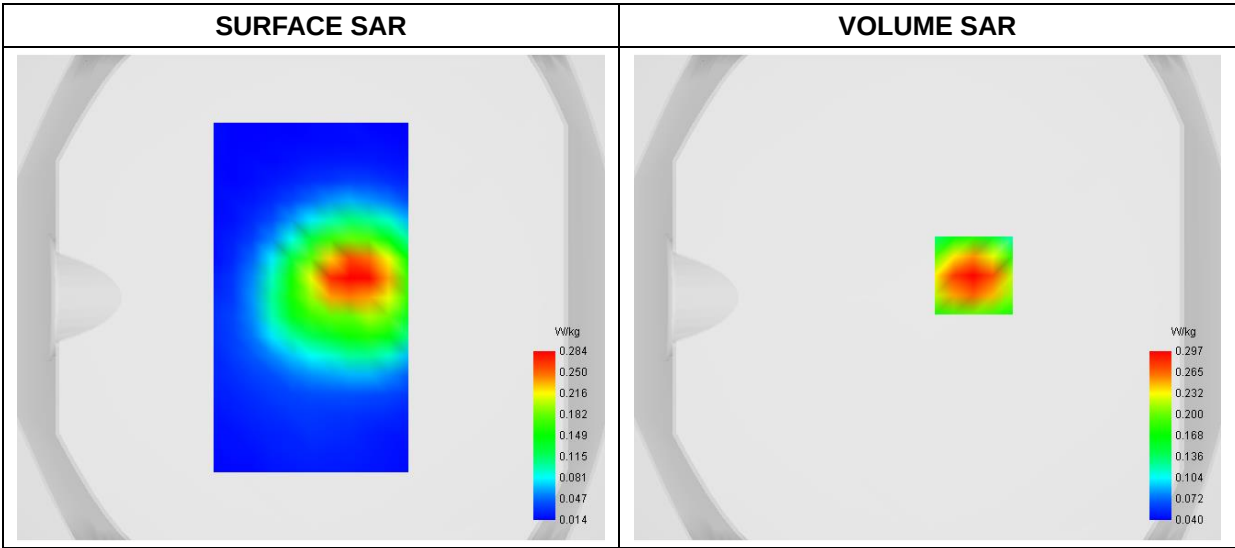
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	GPRS850_4TX
Channels	High
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	41.094575
Conductivity (S/m)	0.881245
Power Variation (%)	1.144600
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



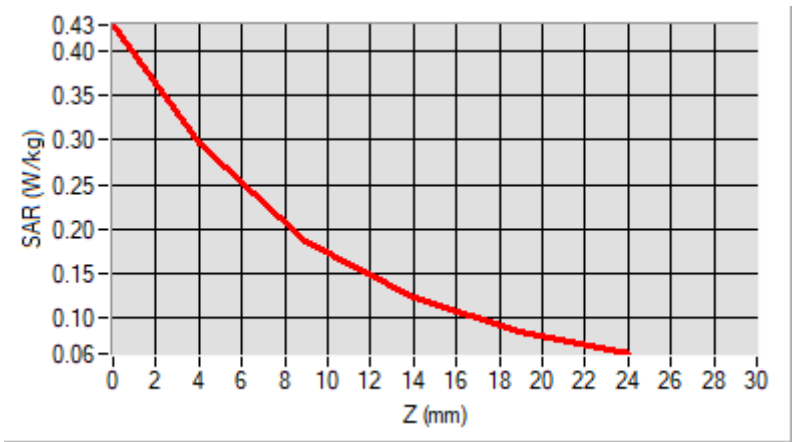
Maximum location: X=19.00, Y=9.00

D. SAR 1g & 10g

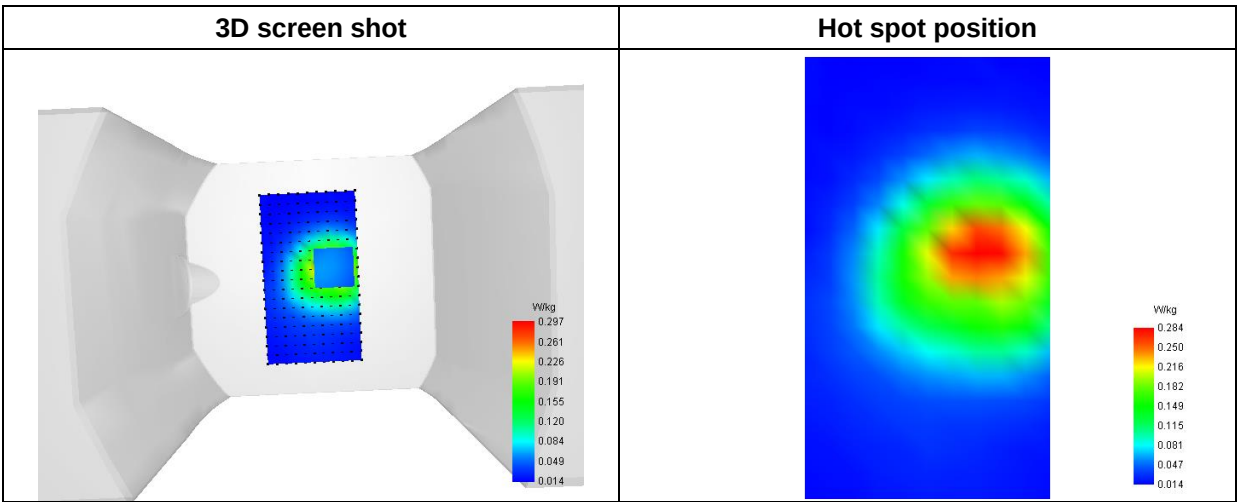
SAR 10g (W/Kg)	0.173683
SAR 1g (W/Kg)	0.280895

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4289	0.2968	0.1873	0.1224	0.0851



F. 3D Image



MEASUREMENT 2

Type: Measurement (Complete)
Date of measurement: 2025-09-18
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.39; Calibrated: 2025-02-12

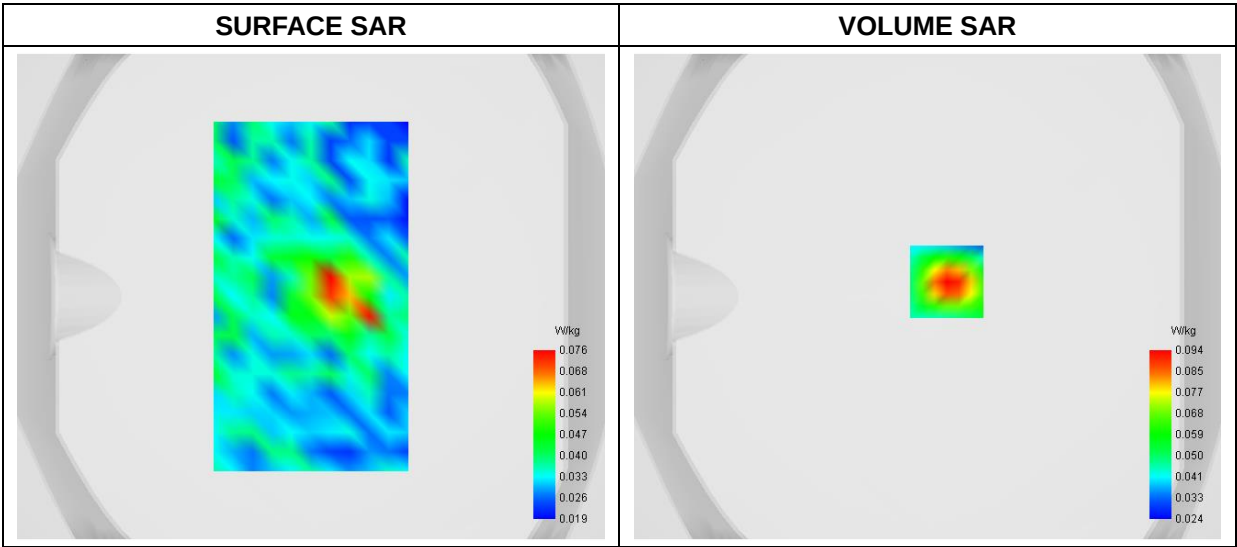
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	GPRS1900_4TX
Channels	High
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	1909.800000
Relative Permittivity (real part)	41.264124
Conductivity (S/m)	1.413619
Power Variation (%)	1.444400
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



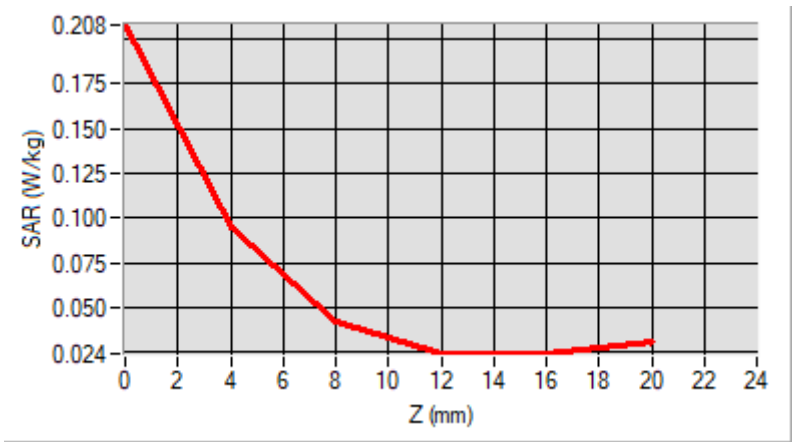
Maximum location: X=8.00, Y=6.00

D. SAR 1g & 10g

SAR 10g (W/Kg)	0.054194
SAR 1g (W/Kg)	0.094996

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2080	0.0942	0.0420	0.0246	0.0241



F. 3D Image

3D screen shot	Hot spot position
The 3D model shows the SAR distribution on a device. The color scale ranges from 0.019 (blue) to 0.094 (red). The highest SAR values are concentrated in the central region of the device.	The heatmap shows the hot spot position. The color scale ranges from 0.019 (blue) to 0.076 (red). The highest SAR values are concentrated in the central region of the device.

MEASUREMENT 3

Type: Measurement (Complete)
Date of measurement: 2025-10-11
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

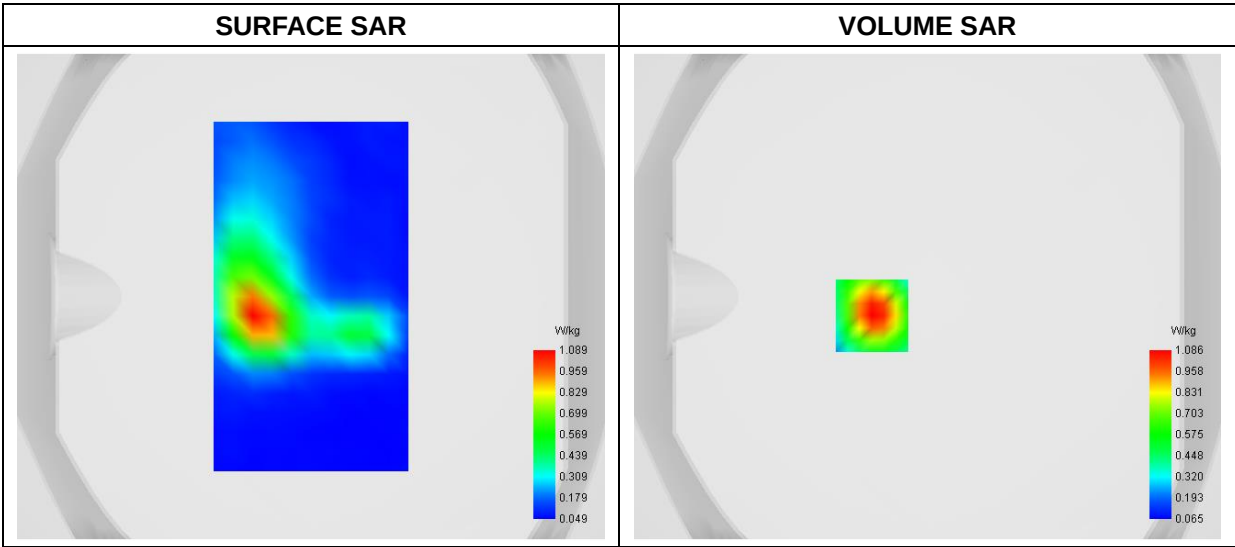
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 2
Channels	QPSK, 15MHz, 1RB, Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1857.500000
Relative Permittivity (real part)	39.264124
Conductivity (S/m)	1.383691
Power Variation (%)	1.536200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



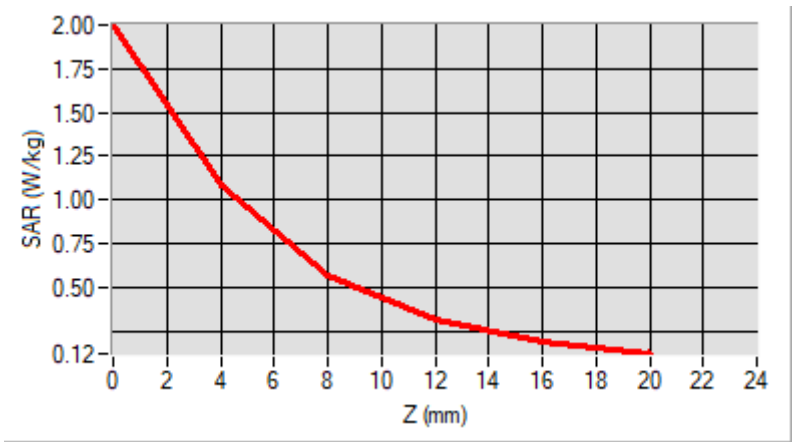
Maximum location: X=-23.00, Y=-8.00

D. SAR 1g & 10g

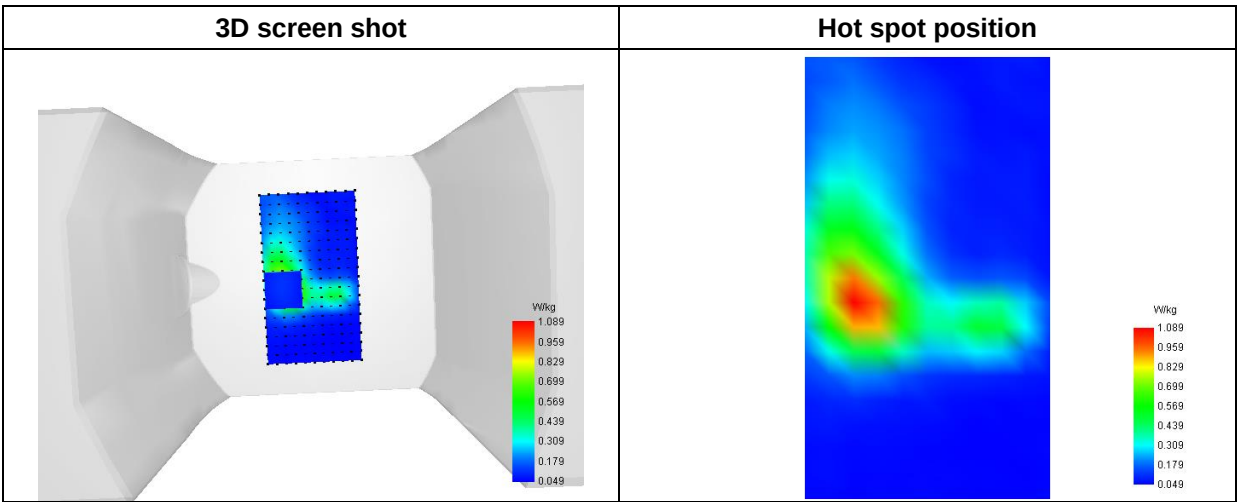
SAR 10g (W/Kg)	0.494177
SAR 1g (W/Kg)	1.013688

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.0016	1.0859	0.5708	0.3092	0.1859



F. 3D Image



MEASUREMENT 4

Type: Measurement (Complete)
Date of measurement: 2025-10-11
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

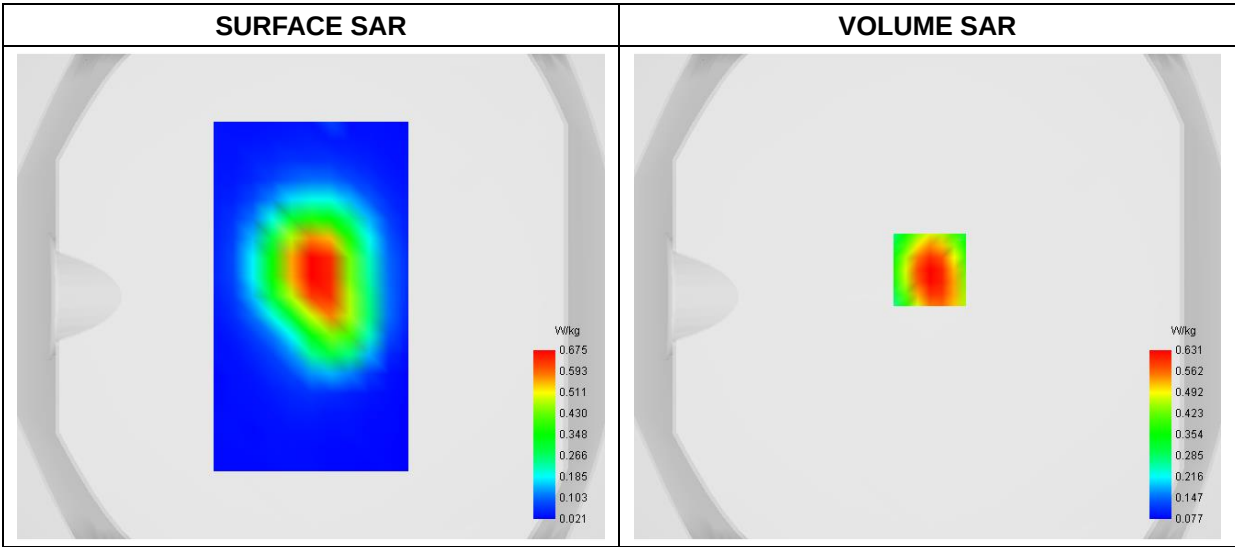
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 4
Channels	QPSK, 15MHz, 1RB,High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1747.500000
Relative Permittivity (real part)	39.262124
Conductivity (S/m)	1.383691
Power Variation (%)	1.537200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



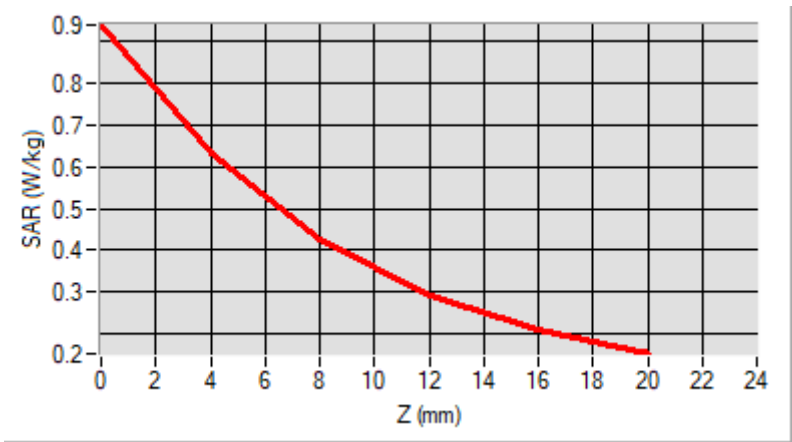
Maximum location: X=1.00, Y=11.00

D. SAR 1g & 10g

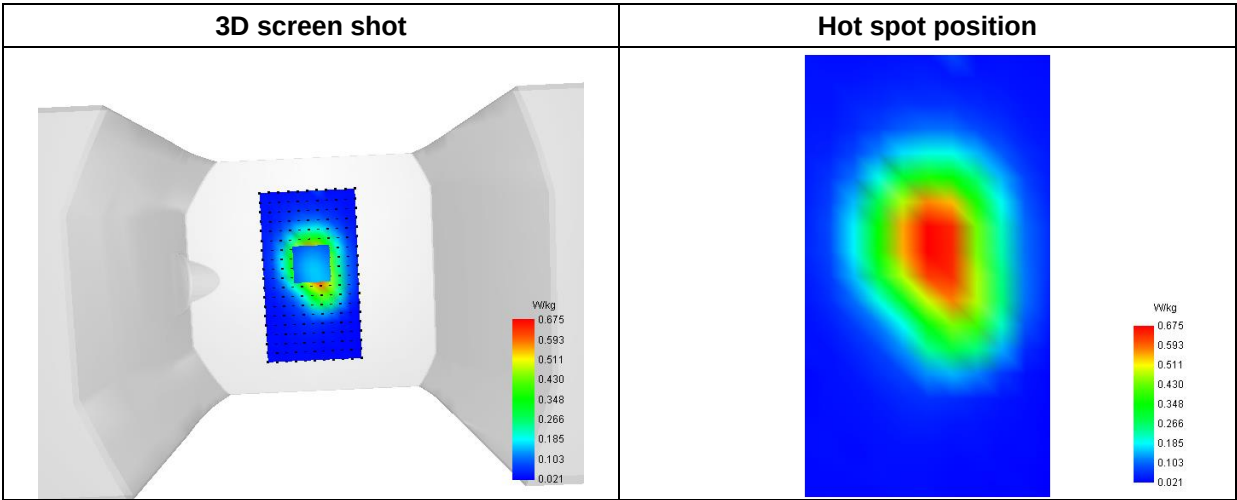
SAR 10g (W/Kg)	0.361797
SAR 1g (W/Kg)	0.594456

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9382	0.6308	0.4247	0.2935	0.2112



F. 3D Image



MEASUREMENT 5

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 0.99; Calibrated: 2025-02-12

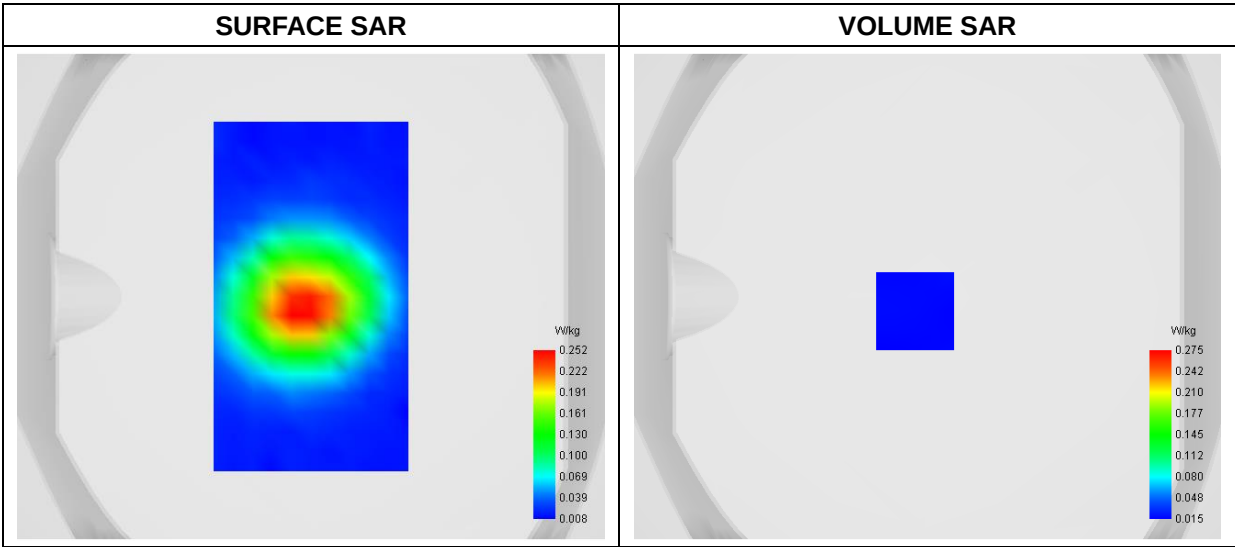
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	844.000000
Relative Permittivity (real part)	41.091489
Conductivity (S/m)	0.881255
Power Variation (%)	1.462800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



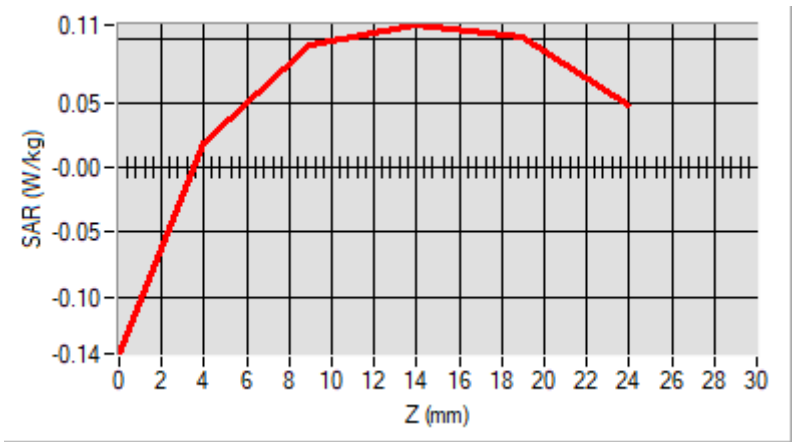
Maximum location: X=-5.00, Y=-6.00

D. SAR 1g & 10g

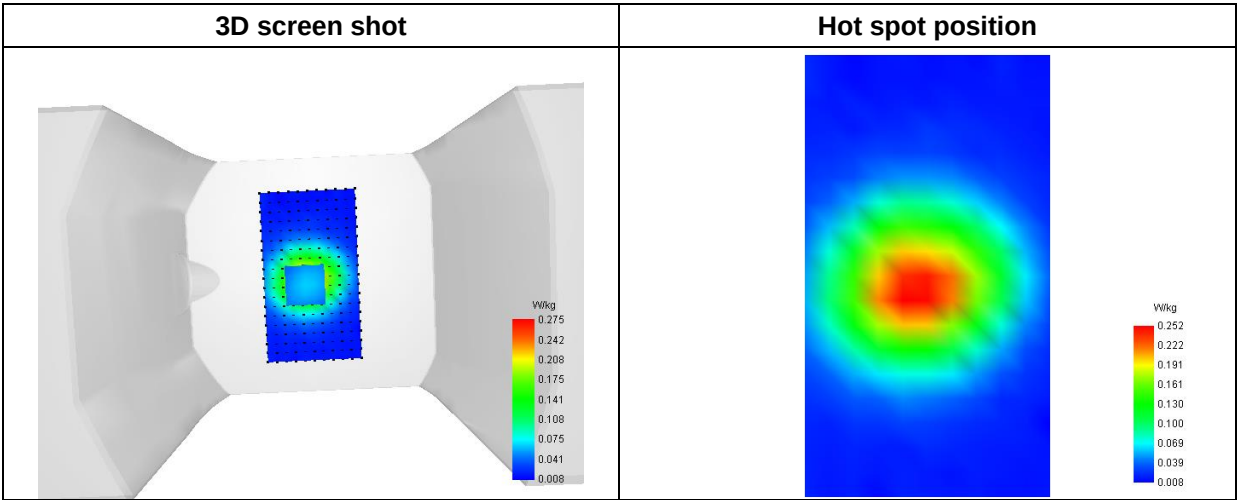
SAR 10g (W/Kg)	0.143410
SAR 1g (W/Kg)	0.079570

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	-0.1441	0.0197	0.0957	0.1107	0.1009



F. 3D Image



MEASUREMENT 6

Type: Measurement (Complete)
Date of measurement: 2025-09-19
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.36; Calibrated: 2025-02-12

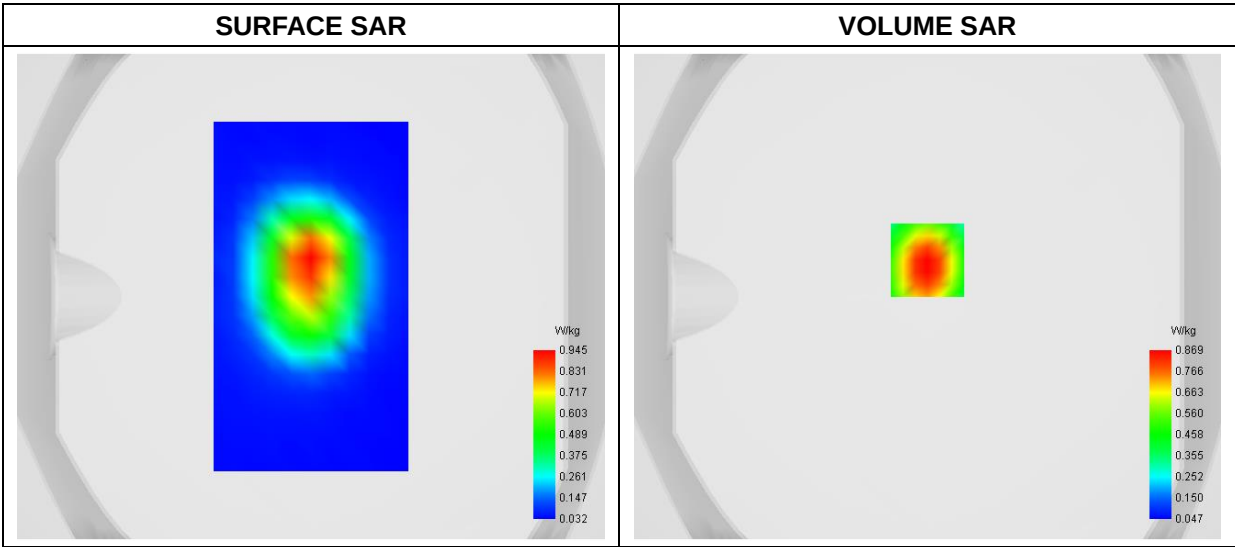
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 7
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2565.000000
Relative Permittivity (real part)	39.821929
Conductivity (S/m)	1.980182
Power Variation (%)	0.924500
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



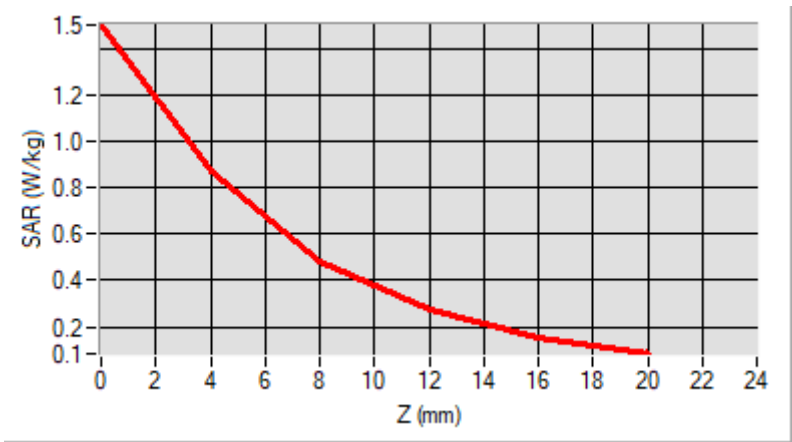
Maximum location: X=0.00, Y=15.00

D. SAR 1g & 10g

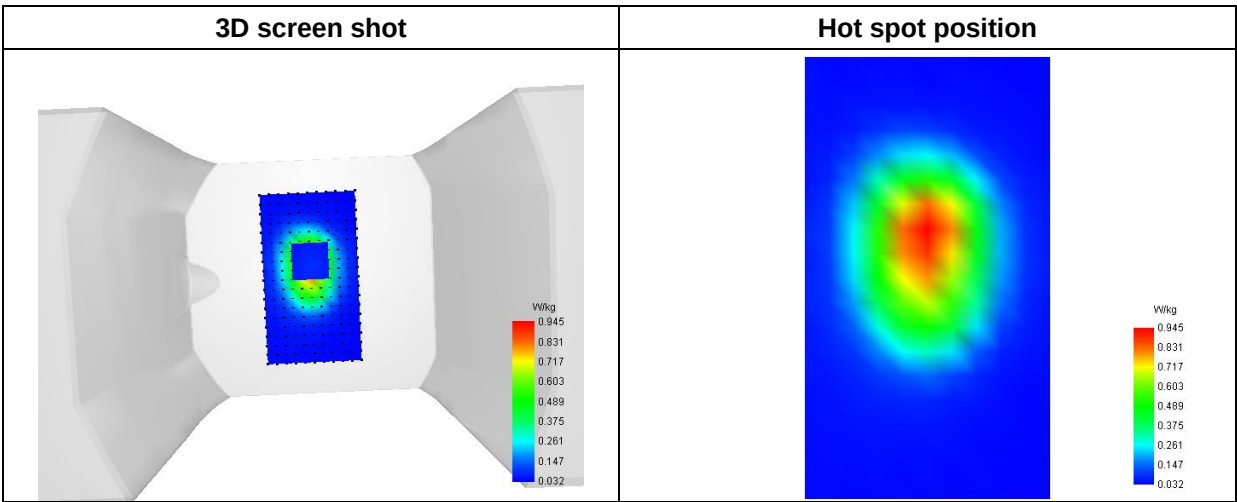
SAR 10g (W/Kg)	0.417688
SAR 1g (W/Kg)	0.814470

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.5024	0.8685	0.4856	0.2702	0.1540



F. 3D Image



MEASUREMENT 7

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.08; Calibrated: 2025-02-12

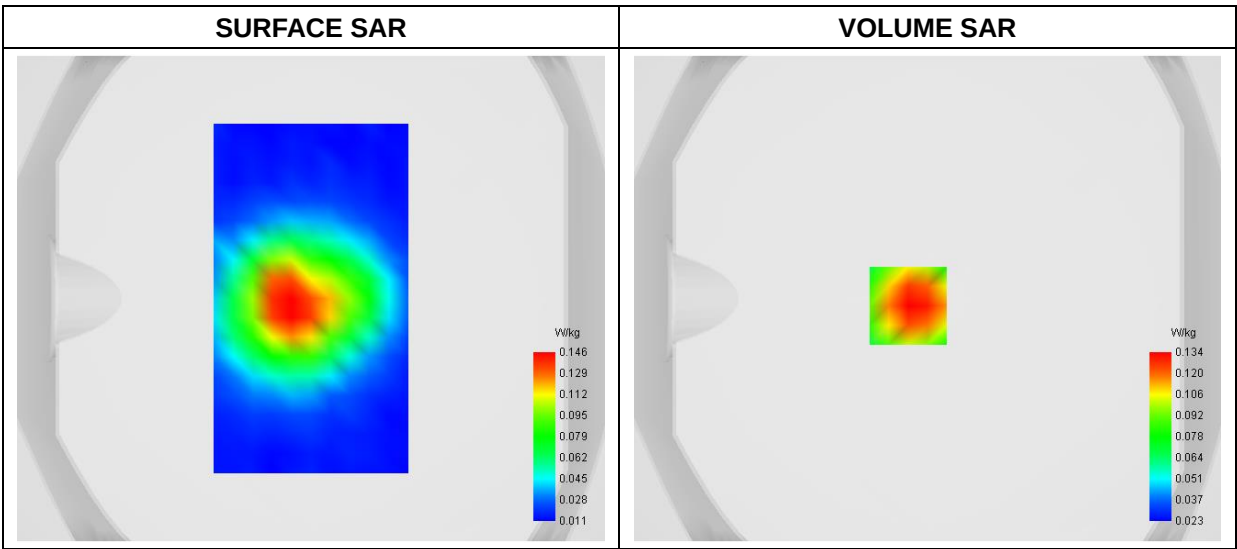
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 12
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.243202
Conductivity (S/m)	0.873245
Power Variation (%)	0.924500
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



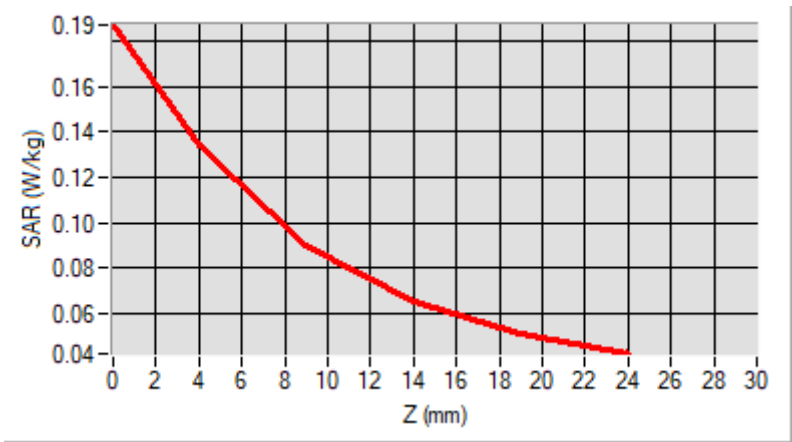
Maximum location: X=-8.00, Y=-3.00

D. SAR 1g & 10g

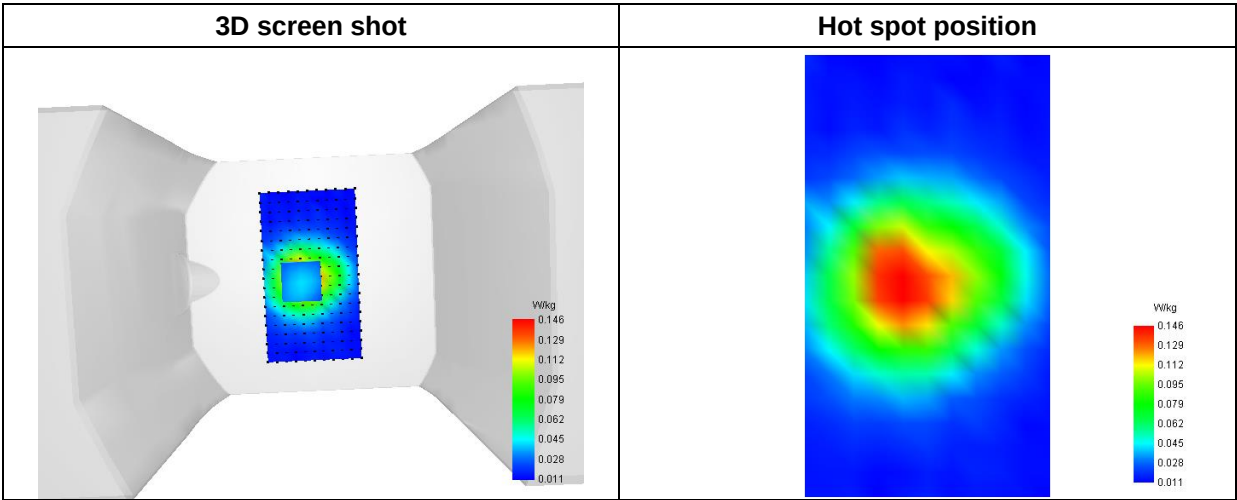
SAR 10g (W/Kg)	0.087521
SAR 1g (W/Kg)	0.131504

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1872	0.1341	0.0902	0.0647	0.0509



F. 3D Image



MEASUREMENT 8

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.08; Calibrated: 2025-02-12

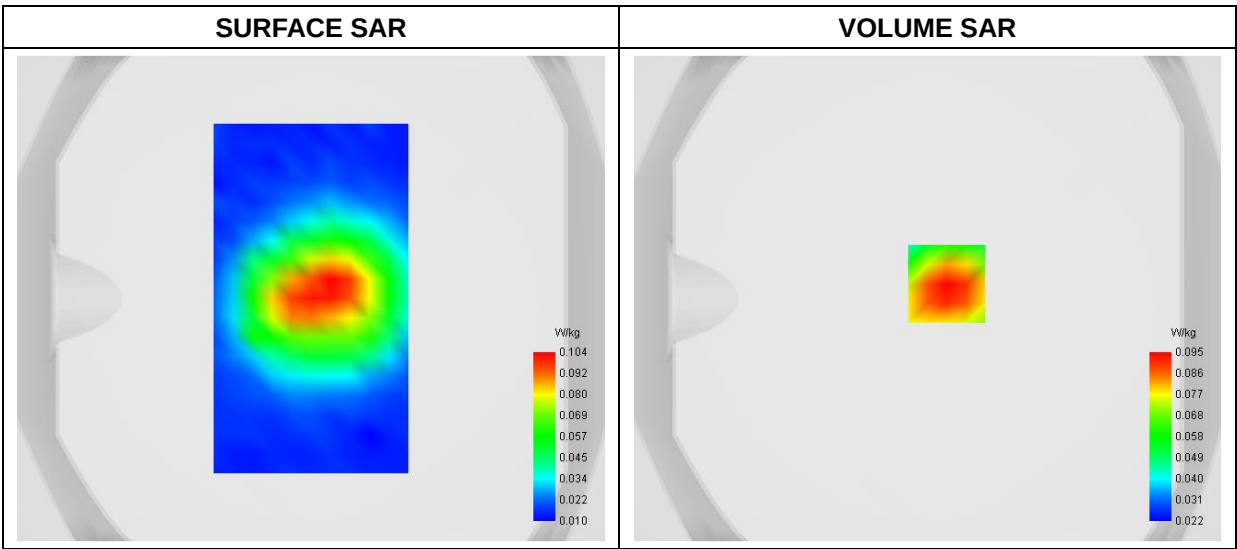
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Front(Near to Mouth)
Band	LTE Band 17
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.243202
Conductivity (S/m)	0.873245
Power Variation (%)	2.453500
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



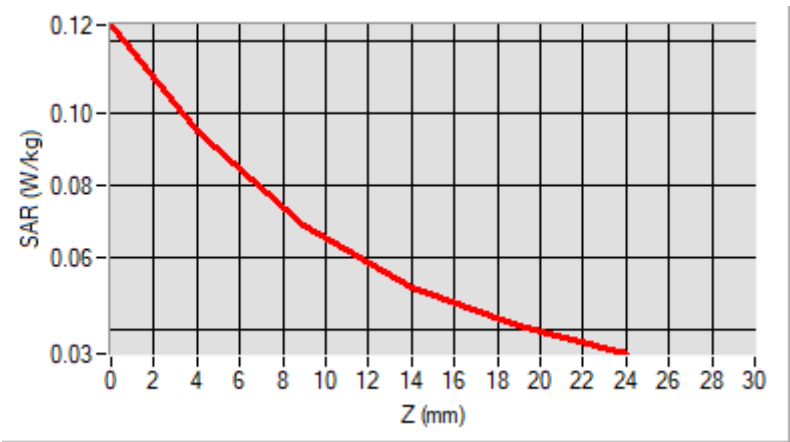
Maximum location: X=8.00, Y=6.00

D. SAR 1g & 10g

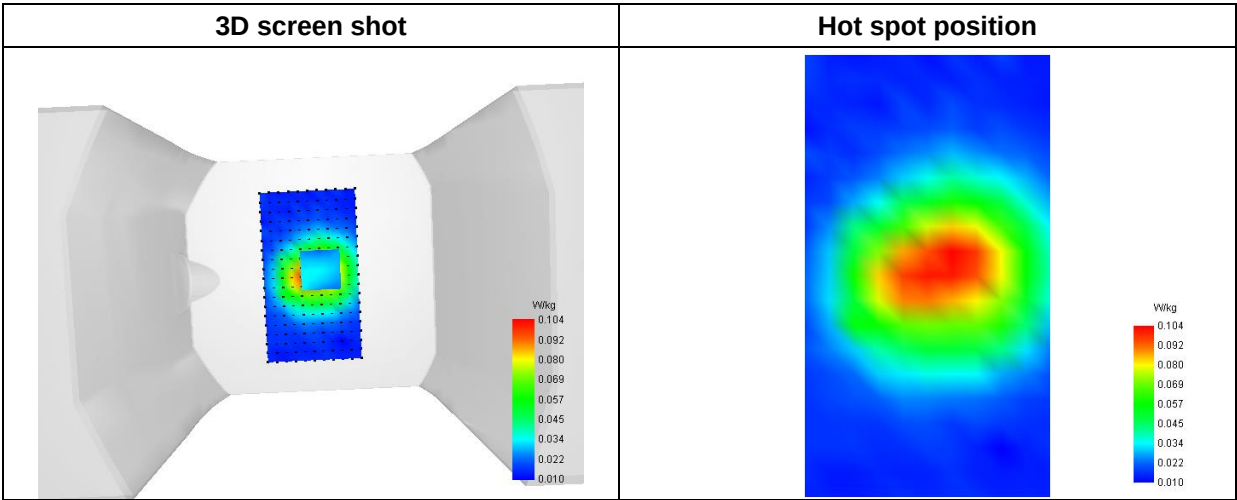
SAR 10g (W/Kg)	0.065363
SAR 1g (W/Kg)	0.093241

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1247	0.0951	0.0688	0.0518	0.0410



F. 3D Image



MEASUREMENT 9

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 0.99; Calibrated: 2025-02-12

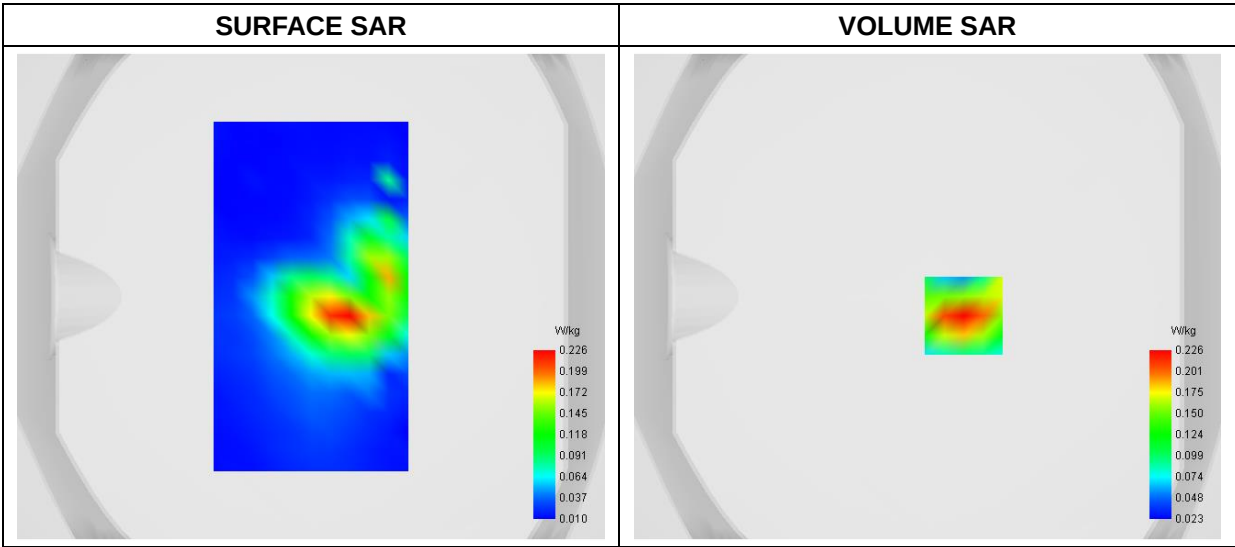
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS850_4TX
Channels	High
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	848.800000
Relative Permittivity (real part)	41.094575
Conductivity (S/m)	0.881245
Power Variation (%)	-3.721400
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



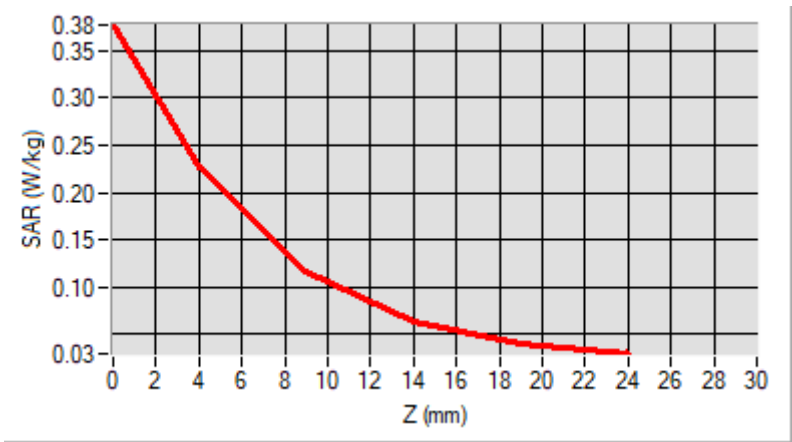
Maximum location: X=15.00, Y=-8.00

D. SAR 1g & 10g

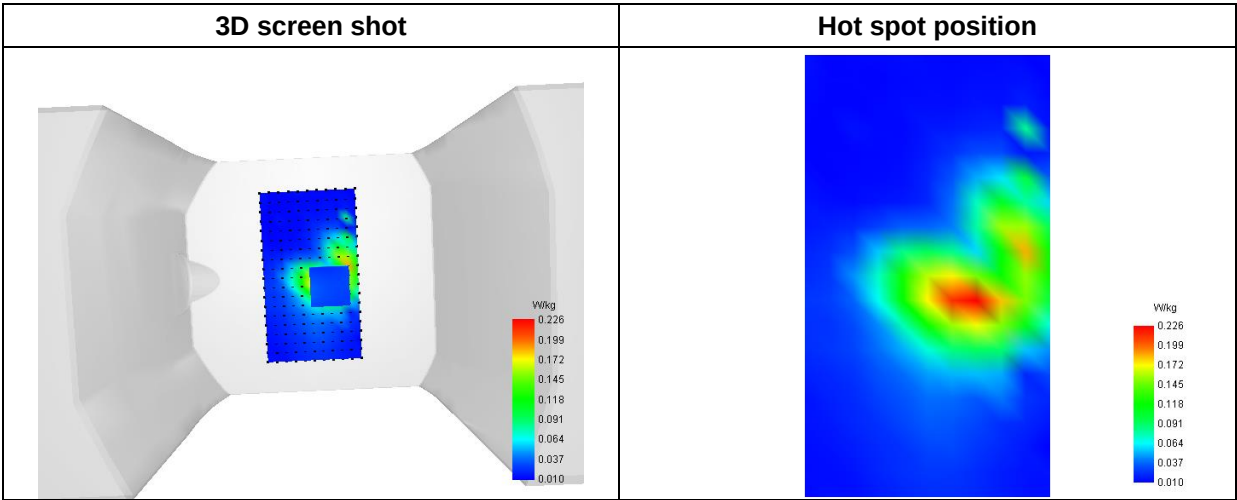
SAR 10g (W/Kg)	0.114285
SAR 1g (W/Kg)	0.211558

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3770	0.2262	0.1171	0.0643	0.0414



F. 3D Image



MEASUREMENT 10

Type: Measurement (Complete)
Date of measurement: 2025-10-11
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

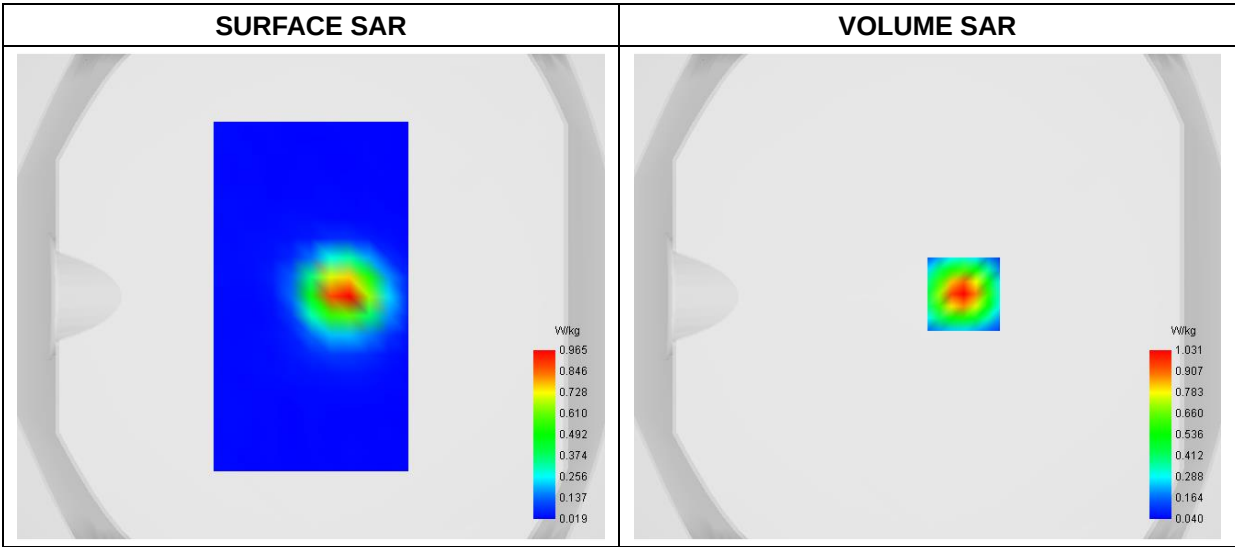
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GSM1900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.264654
Conductivity (S/m)	1.381584
Power Variation (%)	-1.081400
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



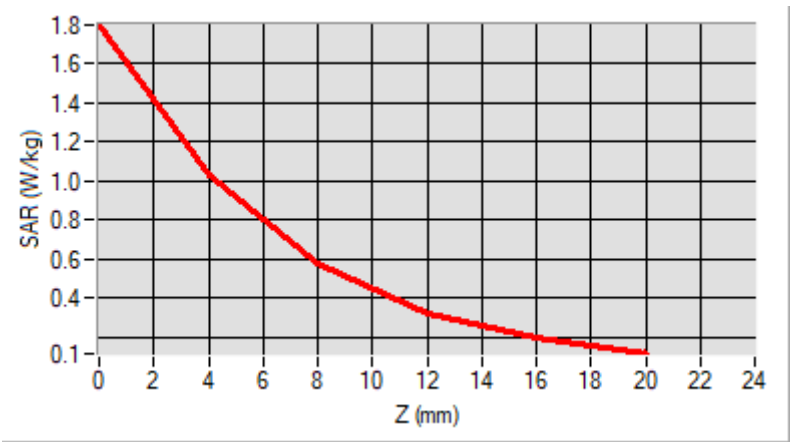
Maximum location: X=15.00, Y=1.00

D. SAR 1g & 10g

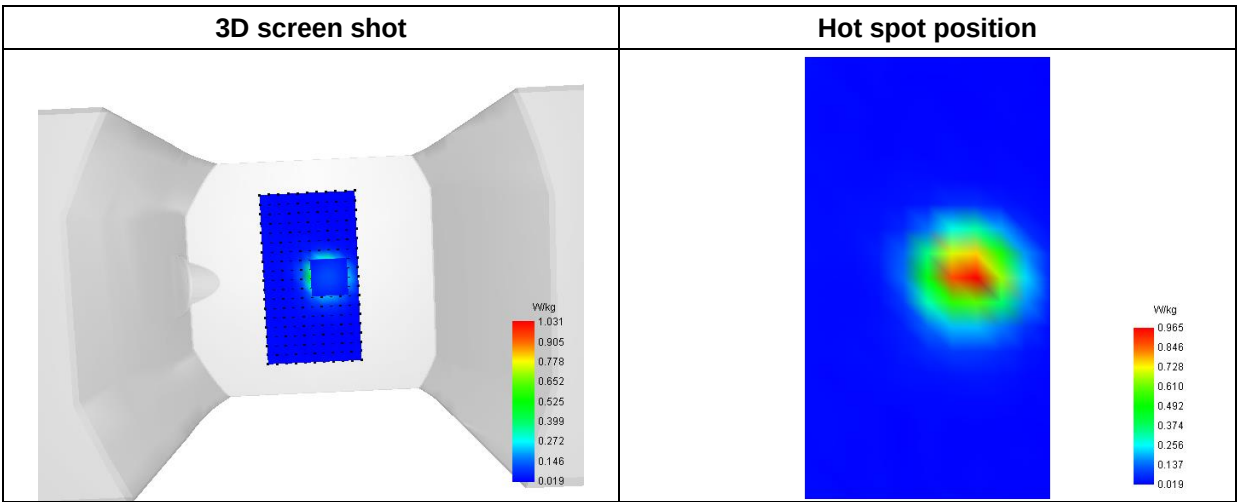
SAR 10g (W/Kg)	0.418925
SAR 1g (W/Kg)	0.914846

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.7954	1.0312	0.5770	0.3275	0.1968



F. 3D Image



MEASUREMENT 11

Type: Measurement (Complete)
Date of measurement: 2025-10-11
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

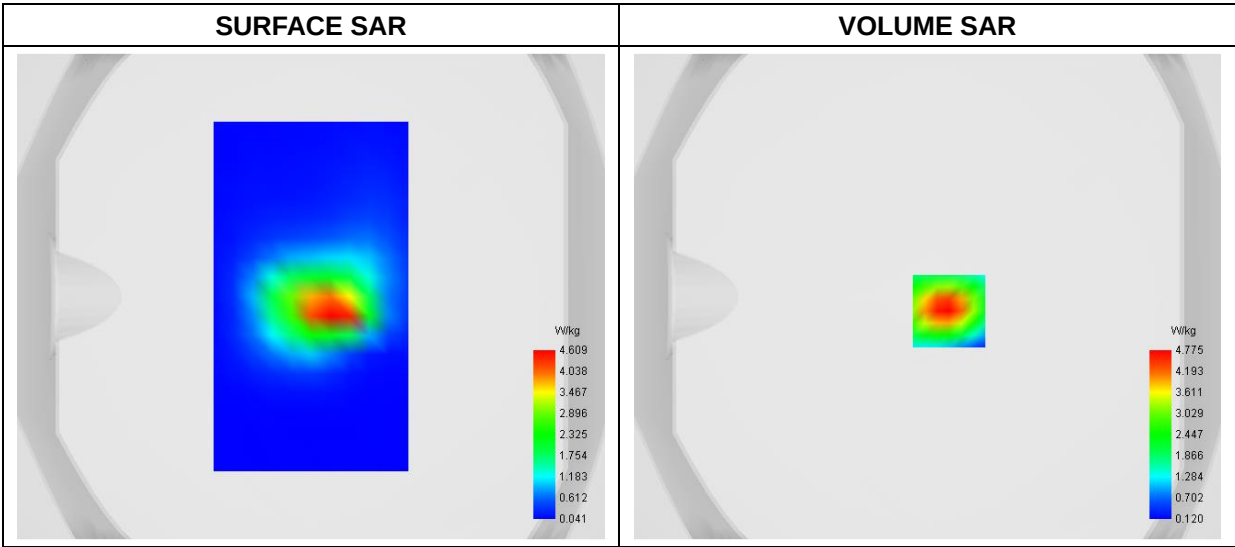
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 2
Channels	QPSK, 15MHz, 1RB, Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1857.500000
Relative Permittivity (real part)	39.264124
Conductivity (S/m)	1.383691
Power Variation (%)	1.627200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



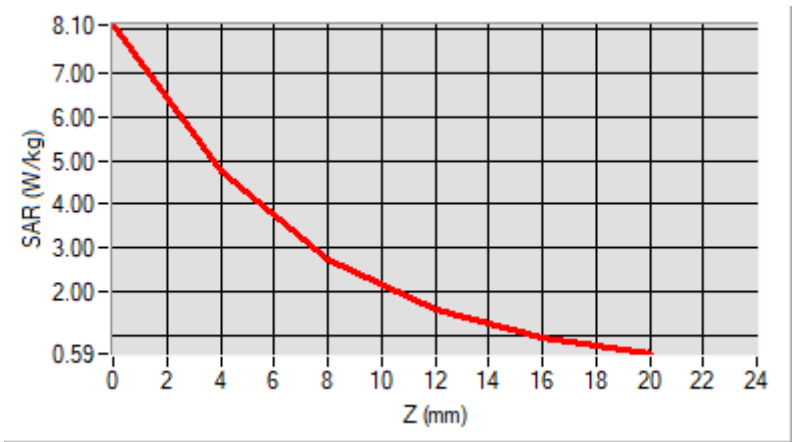
Maximum location: X=9.00, Y=-6.00

D. SAR 1g & 10g

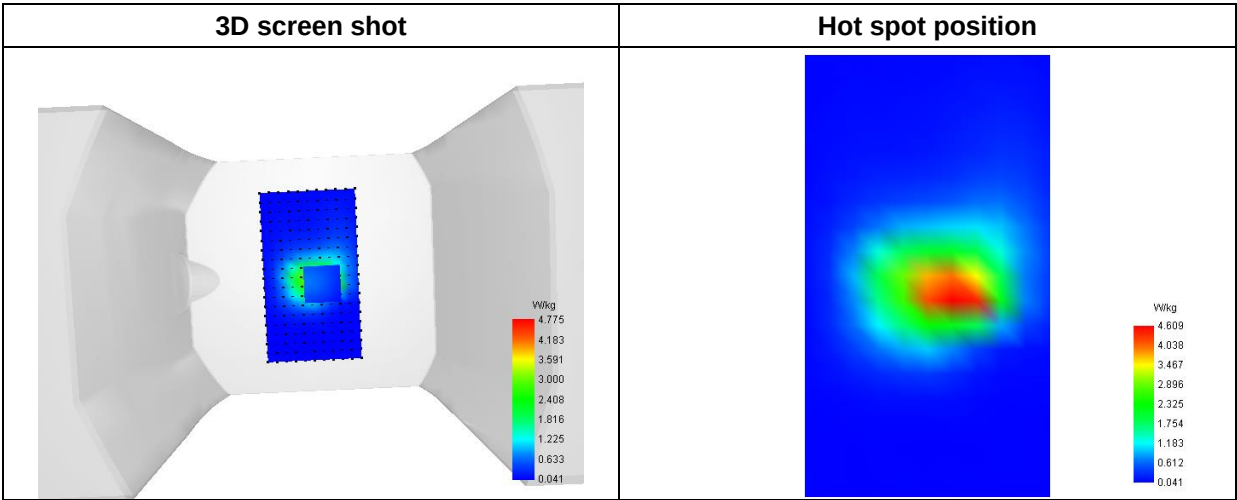
SAR 10g (W/Kg)	2.189947
SAR 1g (W/Kg)	4.360825

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	8.0993	4.7748	2.7503	1.6015	0.9747



F. 3D Image



MEASUREMENT 12

Type: Measurement (Complete)
Date of measurement: 2025-10-11
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.23; Calibrated: 2025-02-12

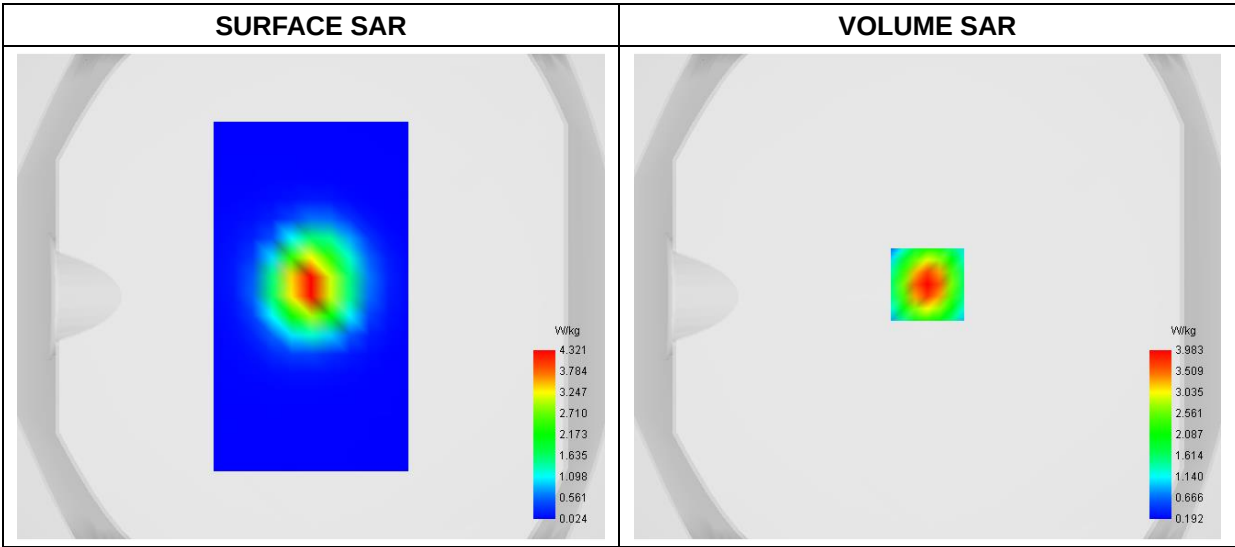
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 4
Channels	QPSK, 15MHz, 1RB, Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative Permittivity (real part)	39.262452
Conductivity (S/m)	1.384129
Power Variation (%)	1.536200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



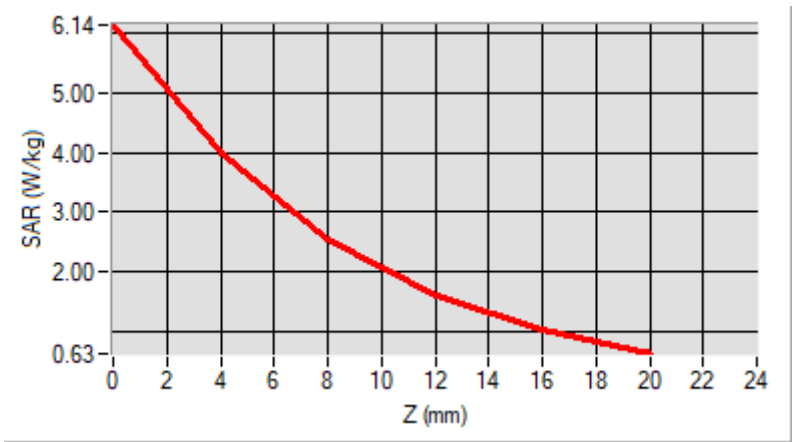
Maximum location: X=0.00, Y=5.00

D. SAR 1g & 10g

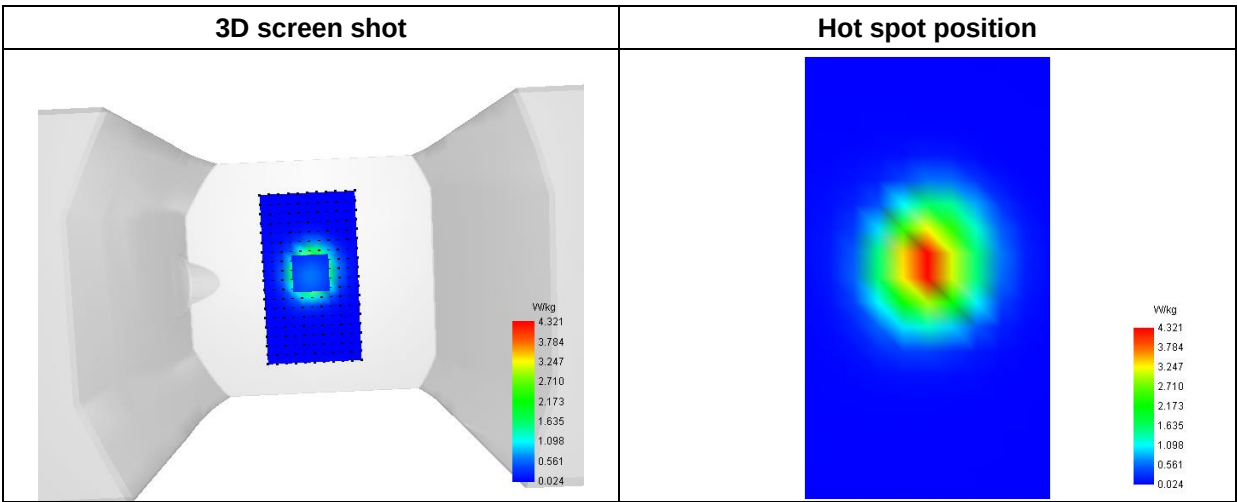
SAR 10g (W/Kg)	1.866605
SAR 1g (W/Kg)	3.592253

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	6.1449	3.9825	2.5362	1.6104	1.0276



F. 3D Image



MEASUREMENT 13

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 0.99; Calibrated: 2025-02-12

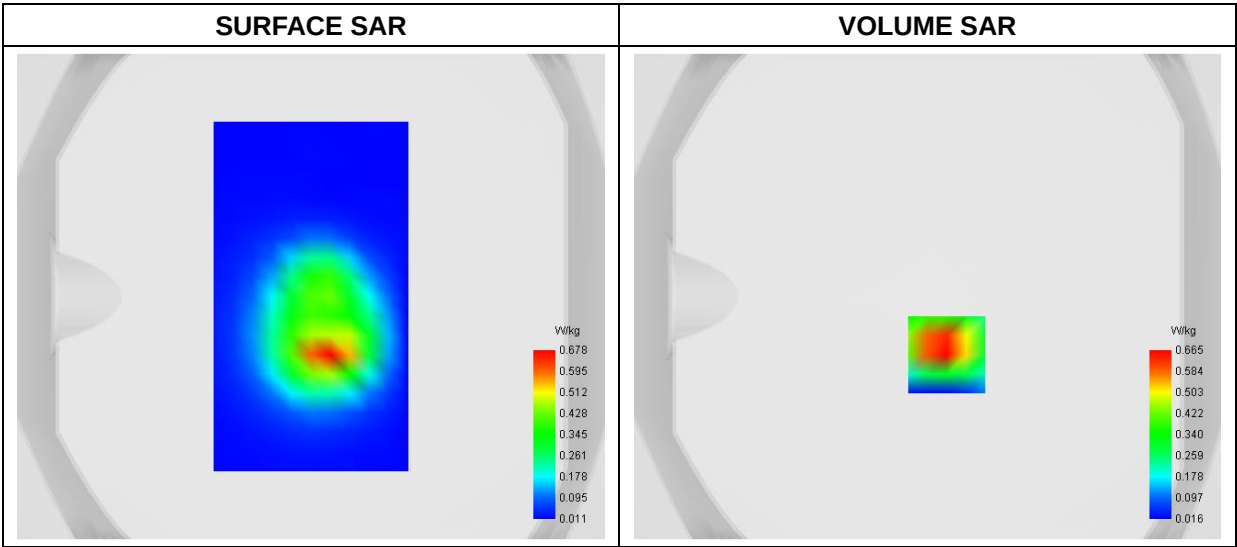
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	844.000000
Relative Permittivity (real part)	41.091489
Conductivity (S/m)	0.881255
Power Variation (%)	1.374600
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



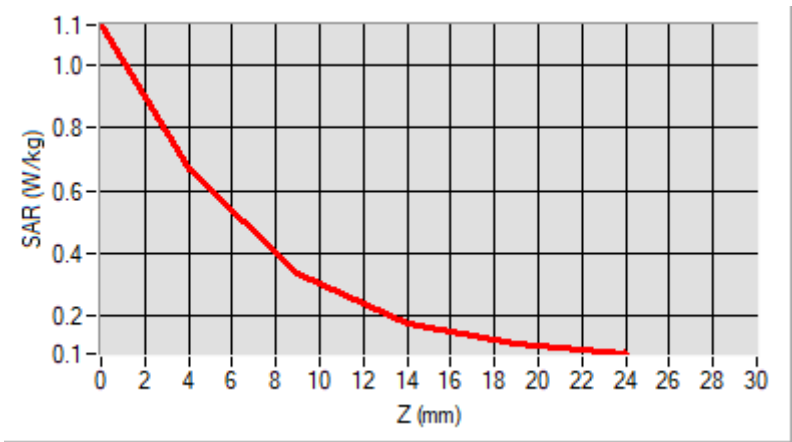
Maximum location: X=8.00, Y=-24.00

D. SAR 1g & 10g

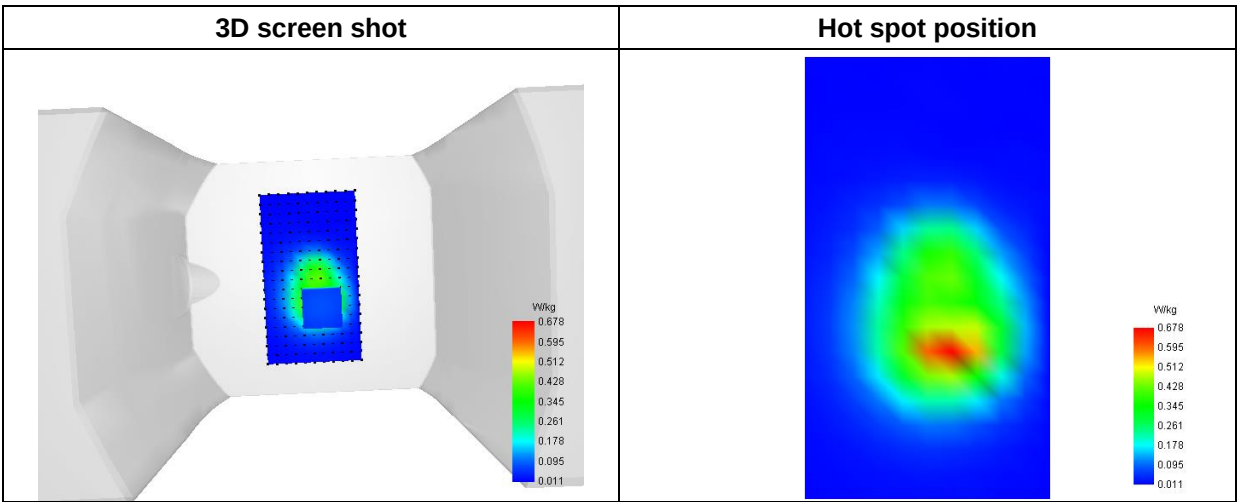
SAR 10g (W/Kg)	0.331283
SAR 1g (W/Kg)	0.652589

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1262	0.6651	0.3357	0.1797	0.1140



F. 3D Image



MEASUREMENT 14

Type: Measurement (Complete)
Date of measurement: 2025-09-19
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.36; Calibrated: 2025-02-12

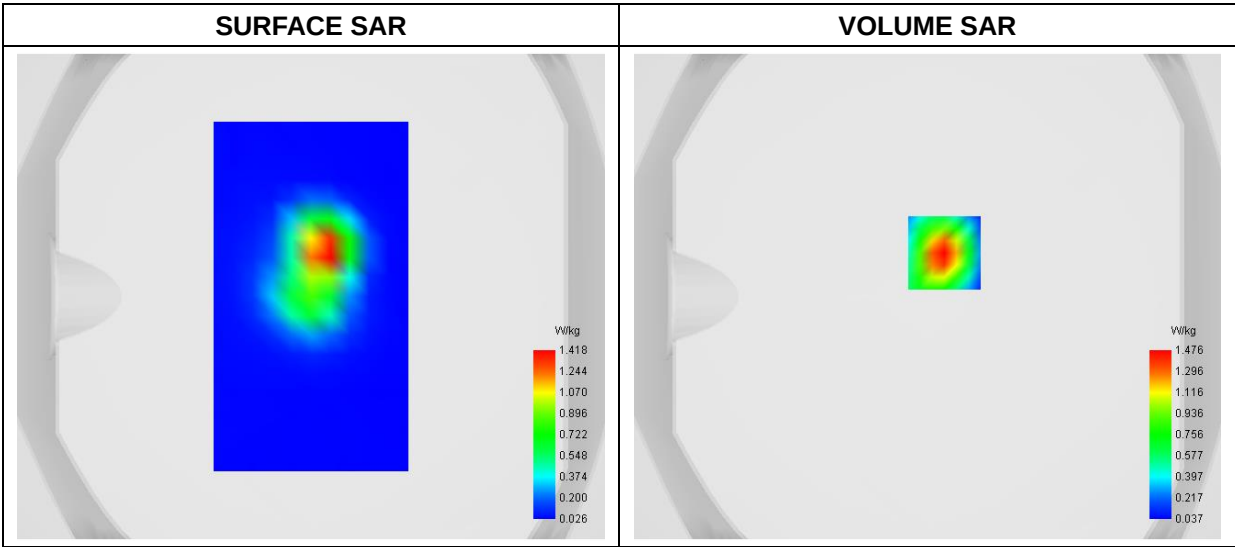
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 7
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2565.000000
Relative Permittivity (real part)	39.821929
Conductivity (S/m)	1.980182
Power Variation (%)	-1.924100
Ambient Temperature	22.8
Liquid Temperature	22.8

C. SAR Surface and Volume



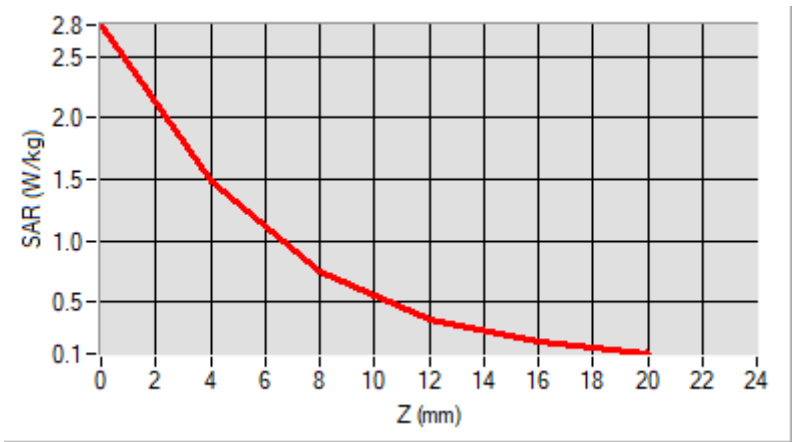
Maximum location: X=7.00, Y=18.00

D. SAR 1g & 10g

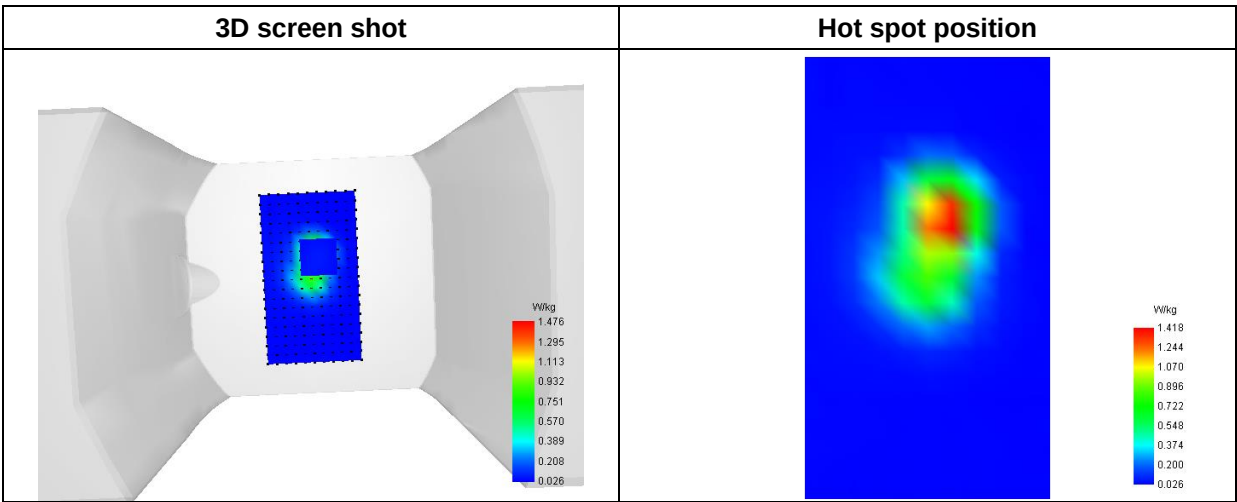
SAR 10g (W/Kg)	0.567635
SAR 1g (W/Kg)	1.317918

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.7597	1.4757	0.7428	0.3608	0.1747



F. 3D Image



MEASUREMENT 15

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.08; Calibrated: 2025-02-12

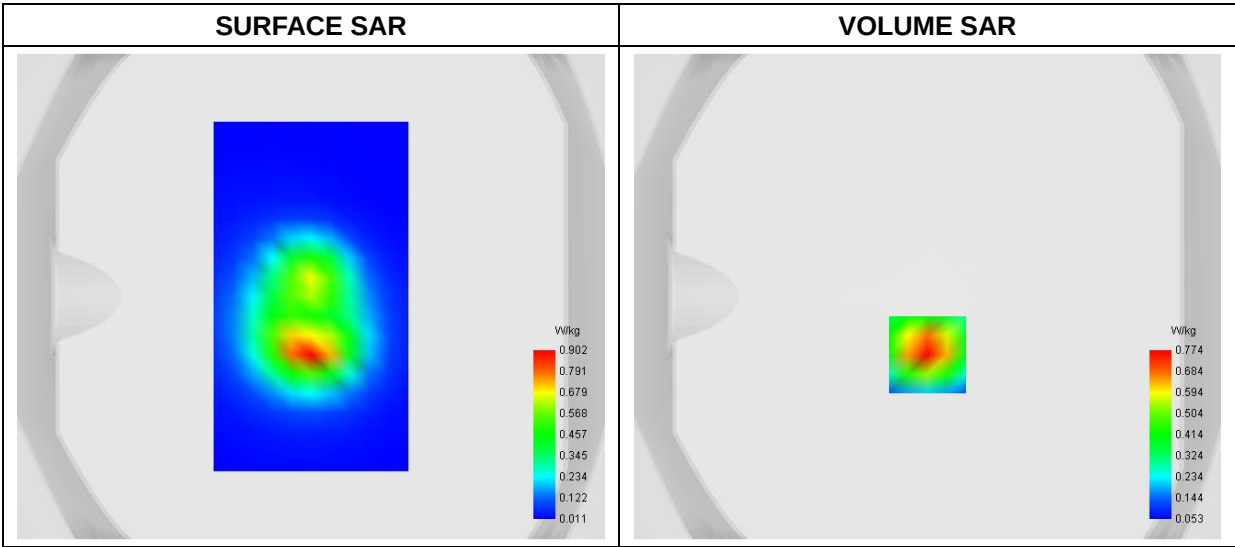
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.243202
Conductivity (S/m)	0.873245
Power Variation (%)	2.351400
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



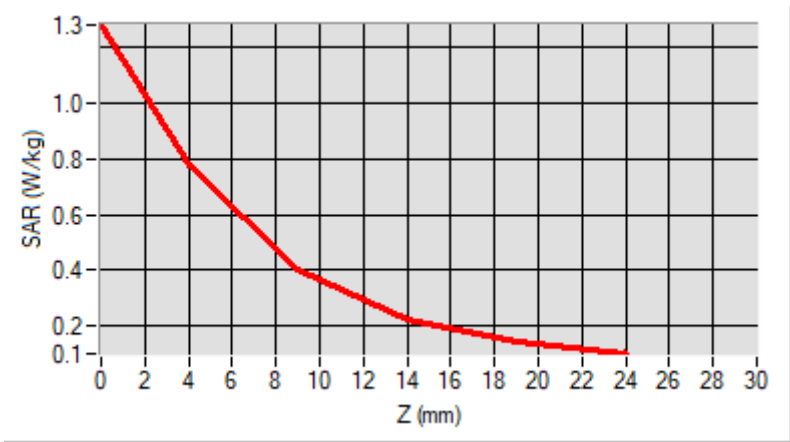
Maximum location: X=0.00, Y=-24.00

D. SAR 1g & 10g

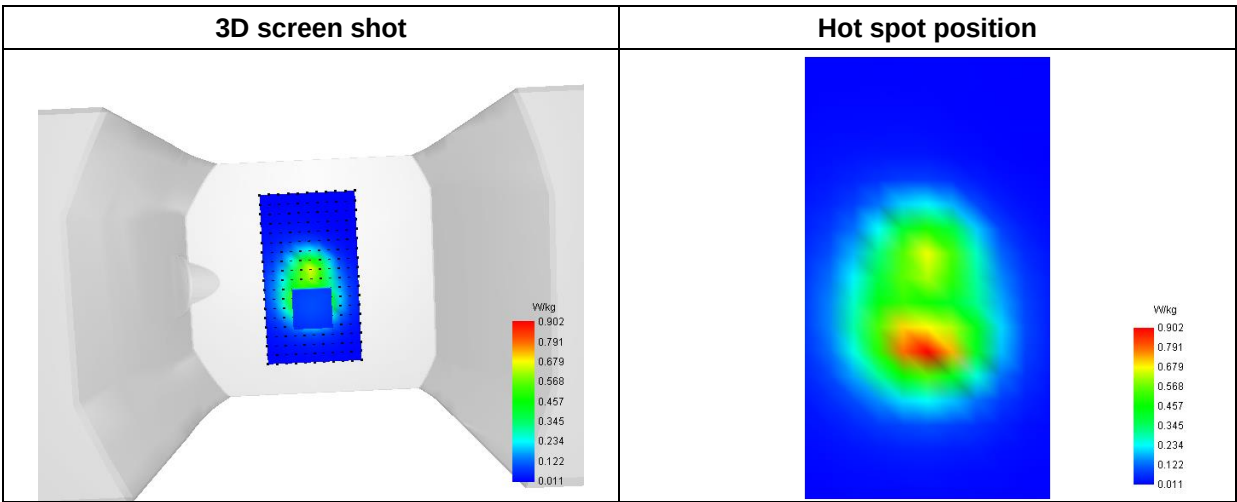
SAR 10g (W/Kg)	0.381662
SAR 1g (W/Kg)	0.736633

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2797	0.7737	0.4042	0.2229	0.1422



F. 3D Image



MEASUREMENT 16

Type: Measurement (Complete)
Date of measurement: 2025-09-17
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 0725-EPGO-446; ConvF: 1.08; Calibrated: 2025-02-12

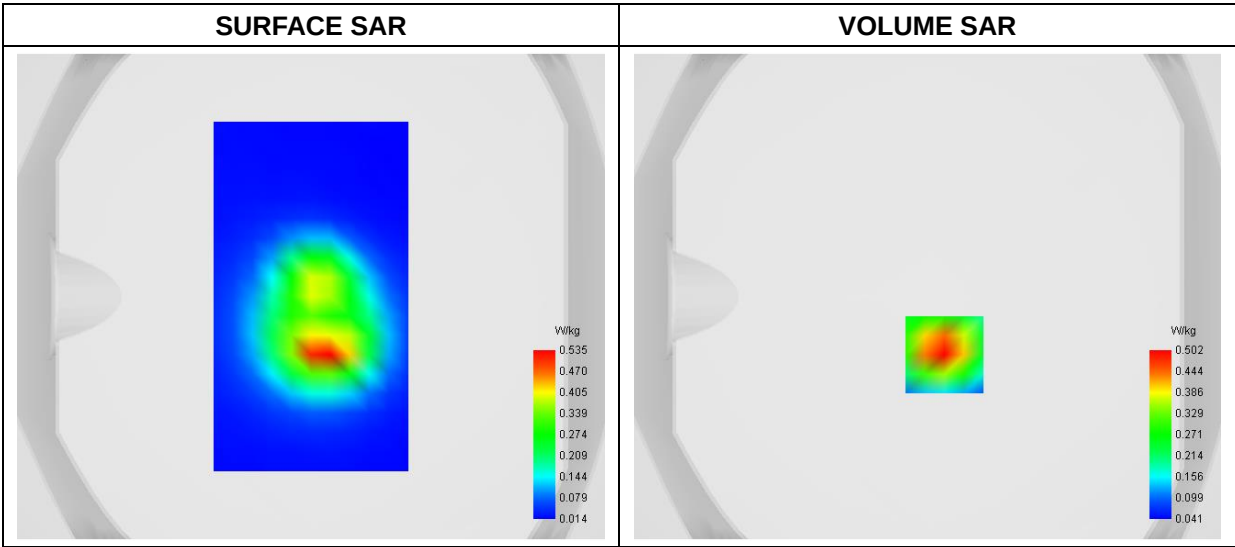
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=8mm dy=8mm dz=5mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 17
Channels	QPSK, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.243202
Conductivity (S/m)	0.873245
Power Variation (%)	1.269800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



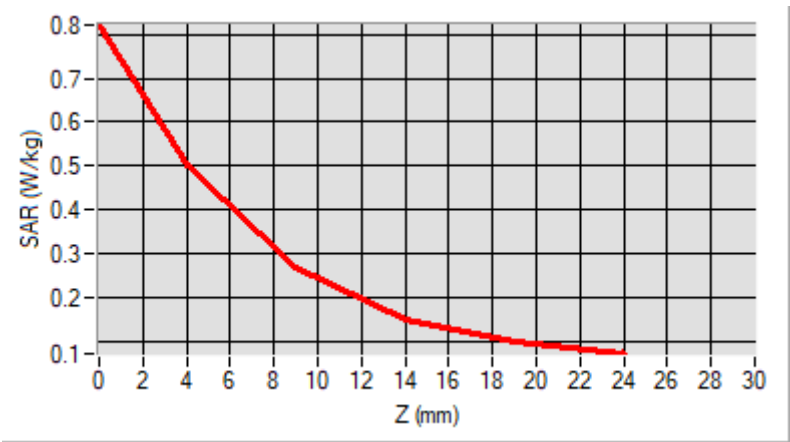
Maximum location: X=7.00, Y=-24.00

D. SAR 1g & 10g

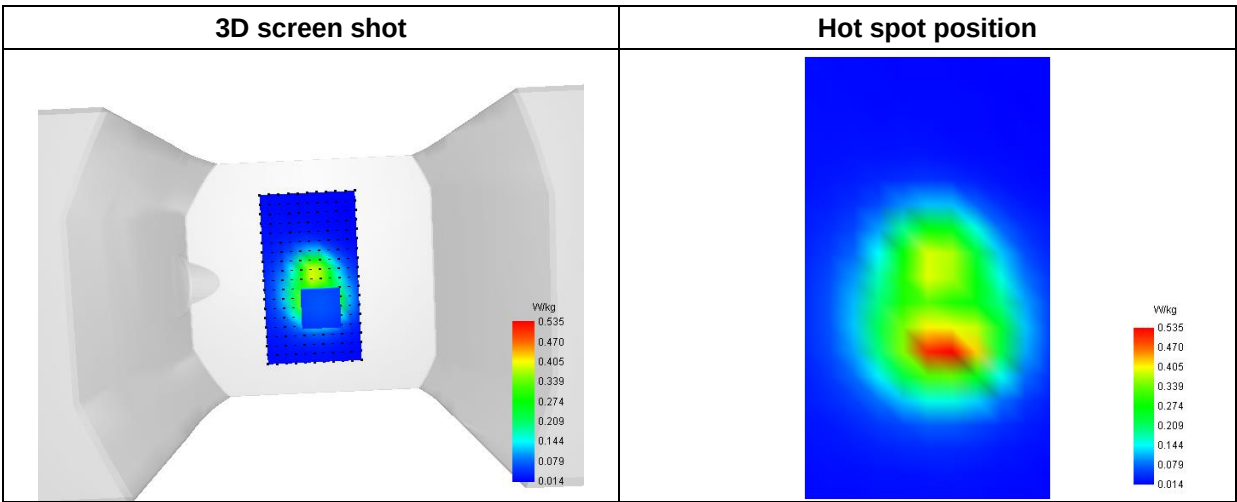
SAR 10g (W/Kg)	0.253992
SAR 1g (W/Kg)	0.479669

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8221	0.5015	0.2662	0.1499	0.0979



F. 3D Image



Annex C. EUT Photos

EUT View 1



EUT View 2



EUT View 3



Antenna View



Annex D. Test Setup Photos

Near to Mouth Exposure Conditions

Test distance: 10mm

Body Front



Wrist-worn mode Exposure Conditions

Test distance: 0mm

Body Back



Annex E. Calibration Certificate

Please refer to the exhibit for the calibration certificate

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