

TEST REPORT

Reference No...... : WTF24X07179658W007
FCC ID..... : 2BH83-HERO
Applicant..... : FULL TECHNOLOGY TRADE LIMITED
Address..... : RM 13,UNIT A1,2/F.,PHASE 1,KAISER ESTATE,NO.41 MAN YUE STREET,
HUNGHOM,KLN HONG KONG
Manufacturer..... : FULL TECHNOLOGY TRADE LIMITED
Address..... : RM 13,UNIT A1,2/F.,PHASE 1,KAISER ESTATE,NO.41 MAN YUE STREET,
HUNGHOM,KLN HONG KONG
Product Name..... : Mobile Phone
Model No...... : HERO
FCC Part 2.1093
Standards..... : IEEE Std C95.1: 2019
IEEE Std C95.3: 2002 + Rev. 2008
IEC/IEEE 62209-1528 Ed. 1.0 (2020-10)
Date of Receipt sample..... : 2024-08-08
Date of Test..... : 2024-08-08 to 2024-08-16
Date of Issue..... : 2024-08-20
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	2024-08-20	Original
/	/	/

1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	Mobile Phone
Brand Name:	Lifephone
Model No.:	HERO
Adding Model(s):	/
Rated Voltage:	DC3.85V
Battery Capacity:	4900mAh
Power Adapter:	UT-681A-5200MY Input:AC100-220V 50/60Hz 0.35A Output:DC5.0V2A
Note: The test data is gathered from a production sample provided by the manufacturer.	

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
RF Output Power:	GSM850: 32.17dBm, GSM1900: 28.73dBm EDGE850: 24.72dBm, EDGE1900: 23.70dBm
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	FPC Antenna
Antenna Gain:	GSM850: -0.45dBi; GSM1900: -1.01dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Band:	WCDMA Band 2, WCDMA Band 4, WCDMA Band 5
Uplink Frequency:	WCDMA Band 2: 1850~1910MHz WCDMA Band 4: 1710-1755MHz WCDMA Band 5: 824~849MHz
Downlink Frequency:	WCDMA Band 2: 1930~1990MHz WCDMA Band 4: 2110-2155MHz WCDMA Band 5: 869~894MHz
RF Output Power:	WCDMA Band 2: 23.16dBm,

	WCDMA Band 4: 23.02dBm, WCDMA Band 5: 23.09dBm
Type of Modulation:	BPSK, QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	WCDMA Band 2: -1.01dBi, WCDMA Band 4: -0.08dBi, WCDMA Band 5: -0.45dBi
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 7, 12, 13, 17, 66
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 13: Tx: 777-787MHz, FDD-LTE Band 17: Tx: 704-716MHz, FDD-LTE Band 66: Tx: 1710-1780MHz,
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 13: Rx: 746-756MHz, FDD-LTE Band 17: Rx: 734-746MHz, FDD-LTE Band 66: Rx: 2110-2200MHz,
RF Output Power:	FDD-LTE Band 2: 21.91dBm, FDD-LTE Band 4: 22.40dBm, FDD-LTE Band 5: 22.39dBm, FDD-LTE Band 7: 21.68dBm FDD-LTE Band 12: 22.79dBm, FDD-LTE Band 13: 22.45dBm, FDD-LTE Band 17: 22.75dBm, FDD-LTE Band 66: 22.27dBm
Type of Modulation:	QPSK, 16QAM
Antenna Type:	FPC Antenna
Antenna Gain:	FDD-LTE Band 2: -1.01dBi, FDD-LTE Band 4: -0.08dBi, FDD-LTE Band 5: -0.45dBi, FDD-LTE Band 7: -1.92dBi, FDD-LTE Band 12: -2.07dBi, FDD-LTE Band 13: -1.51dBi, FDD-LTE Band 17: -2.07dBi, FDD-LTE Band 66: -0.08dBi
WIFI(2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n-HT20
Frequency Range:	2412-2462MHz for 11b/g/n(HT20),
Max. RF Output Power:	15.75dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20)

Channel Separation:	5MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.32dBi
Bluetooth	
Bluetooth Version:	Bluetooth V4.0
Frequency Range:	2402-2480MHz
Max. RF Output Power:	4.710dBm (Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Quantity of Channels:	79/40
Channel Separation:	1MHz/2MHz
Antenna Type:	FPC Antenna
Antenna Gain:	1.52dBi
<i>Note: The Antenna Gain is provided by the customer and can affect the validity of results.</i>	

1.2 Test Standards

The following report is accordance with FCC 47 CFR Part 2.1093, IEEE Std C95.1: 2019, IEEE Std C95.3: 2002 + Rev. 2008, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), KDB 447498 D01 v06, KDB 648474 D04 v01r03, KDB 248227 D01 v02r02, KDB 941225 D01 v03r01, KDB 941225 D05 v02r05 , and KDB 865664 D01 v01r04 and KDB 865664 D02 v01r02.

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

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

1.3 Test Methodology

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

1.4 Test Facility

Address of the test laboratory

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

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

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010. Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

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

2. Summary of Test Results

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

Frequency Band	Head SAR	Body-worn (10mm Gap)	Hotspot (10mm Gap)	SAR _{1g} Limit (W/kg)
	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	Maximum SAR _{1g} (W/kg)	
GSM	0.167	0.385	0.540	1.6
WCDMA	0.122	0.707	0.725	1.6
LTE	1.342	0.763	1.239	1.6
WLAN 2.4GHz	0.287	0.108	0.108	1.6
Simultaneous Transmission	1.498	0.871	1.300	1.6

Remark:

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR Part 2.1093 and IEEE Std C95.1: 2019, and had been tested in accordance with the measurement methods and procedure specified in IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and 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.

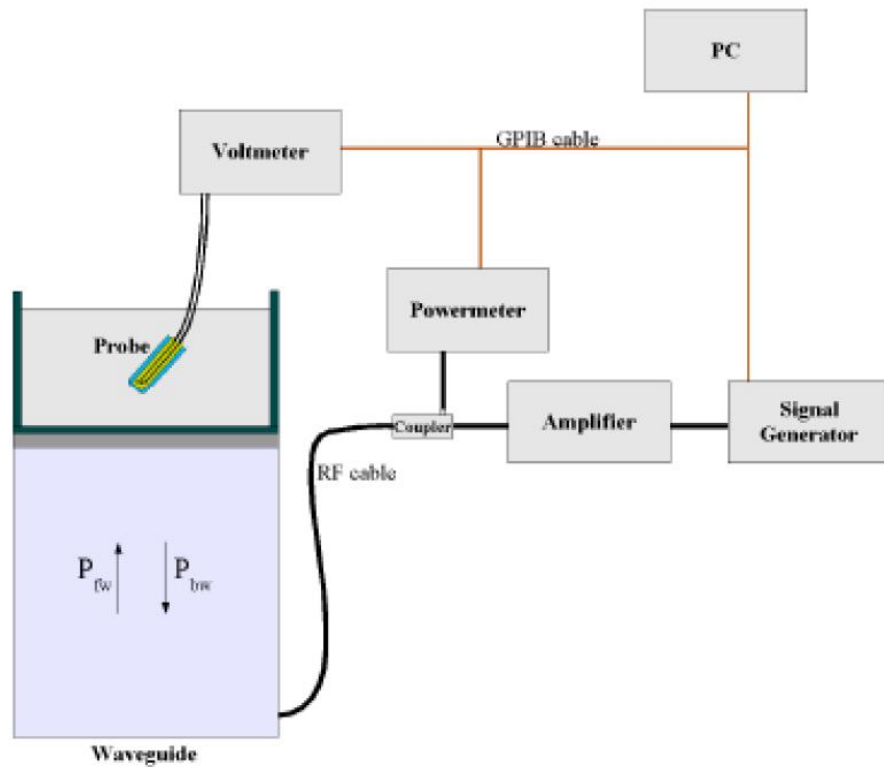


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE2 3823-EPGO-435, and refer to the calibration report for probe parameters.

Probe calibration is realized, in compliance with EN 62209-1 and IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) STD, with CALISAR, Antenna proprietary calibration system. The calibration is performed with the EN 62209-1 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,

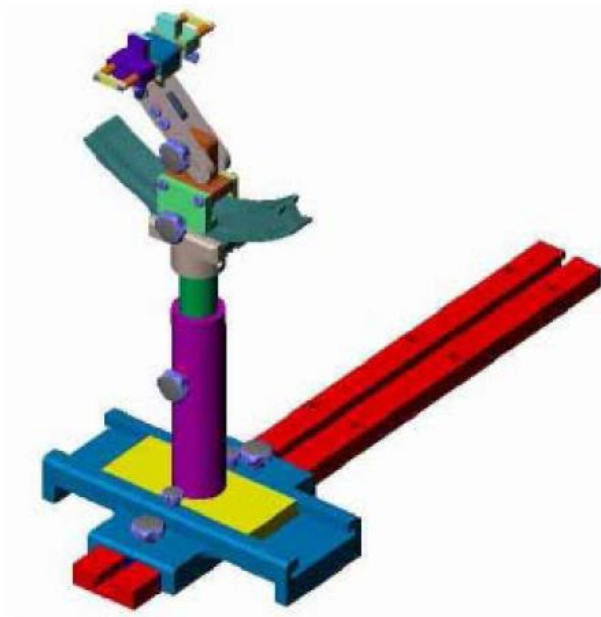
ρ = Tissue density (1.25 g/cm³ for brain tissue)

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

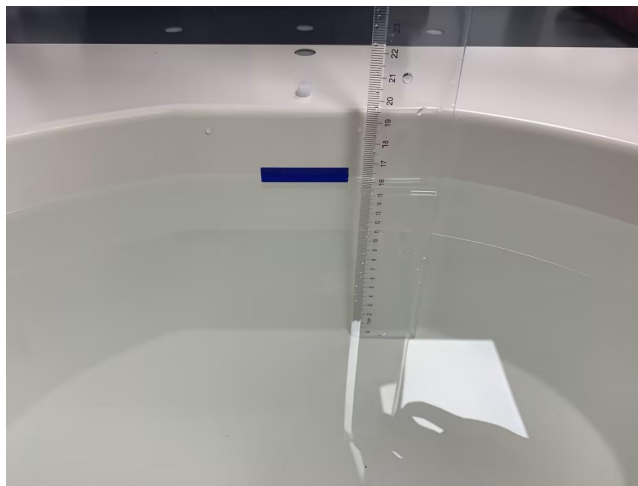
4.6 Test Equipment List

Fixed asset Number	Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
WTXE1053A1006	E-Field Probe	MVG	SSE2	3823-EPGO-435	2024-07-11	2025-07-10
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
WTXE1053A1001-007	2450MHz Dipole	MVG	SID2450	SN 13/15 DIP 2G450-364	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	2024-02-24	2025-02-23
WTXE1075A1003	Power meter	Keithley	3500	1232959	2024-02-24	2025-02-23
WTXE1075A1002	Power meter	Keithley	3500	1162591	2024-02-24	2025-02-23
WTXE1104A1003	EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2024-02-24	2025-02-23
WTXE1022A1002	GSM Tester	Rohde & Schwarz	CMU200	114403	2024-02-27	2025-02-26
WTXE1041A1002	Communications Tester	Rohde & Schwarz	CMW500	148650	2024-03-19	2025-03-18
WTXE1036A1001	Network Analyzer	Rohde & Schwarz	ZVB 8	101353	2023-10-17	2024-10-16

5. Tissue Simulating Liquids

5.1 Composition of Tissue Simulating Liquid

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



Liquid Height for Head/Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	Sugar (%)	HEC (%)	Preventol (%)	DGBE (%)
Head/Body						
750	41.1	1.4	57.0	0.2	0.3	0
835	40.3	1.4	57.9	0.2	0.2	0
1700-1900	55.2	0.3	0	0	0	44.5
2450	55.0	0.1	0	0	0	44.9
2600	54.9	0.1	0	0	0	45.0

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)
Head/Body			
5200-5800	65.52	17.24	17.24

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

According to FCC KDBs, IEC/IEEE 62209-1528 Ed. 1.0 (2020-10) and CEI/IEC 62209 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	
	Conductivity (σ)	Permittivity (ϵ_r)
150	0.76	52.3
300	0.87	45.3
450	0.87	43.5
750	0.89	41.9
835	0.90	41.5
900	0.97	41.5
915	0.98	41.5
1450	1.20	40.5
1800-2000	1.40	40.0
2100	1.49	39.8
2300	1.67	39.5
2450	1.80	39.2
2600	1.96	39.0
3000	2.40	38.5
3500	2.91	37.9
4000	3.43	37.4
4500	3.94	36.8
5000	4.45	36.2
5200	4.66	36.0
5400	4.86	35.8
5600	5.07	35.5
5800	5.27	35.3
6000	5.48	35.1

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. (℃)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (εr)	Target (εr)	Delta (%)		
750	22.6	0.86	0.89	-3.37	41.15	41.90	-1.79	±5	2024-08-08
835	22.6	0.89	0.90	-1.11	40.92	41.50	-1.40	±5	2024-08-09
1800	22.4	1.38	1.40	-1.43	39.21	40.00	-1.98	±5	2024-08-12
1900	22.4	1.41	1.40	0.71	40.98	40.00	2.45	±5	2024-08-14
2450	22.5	1.77	1.80	-1.67	38.53	39.20	-1.71	±5	2024-08-16
2600	22.5	1.92	1.96	-2.04	39.74	39.00	1.90	±5	2024-08-19

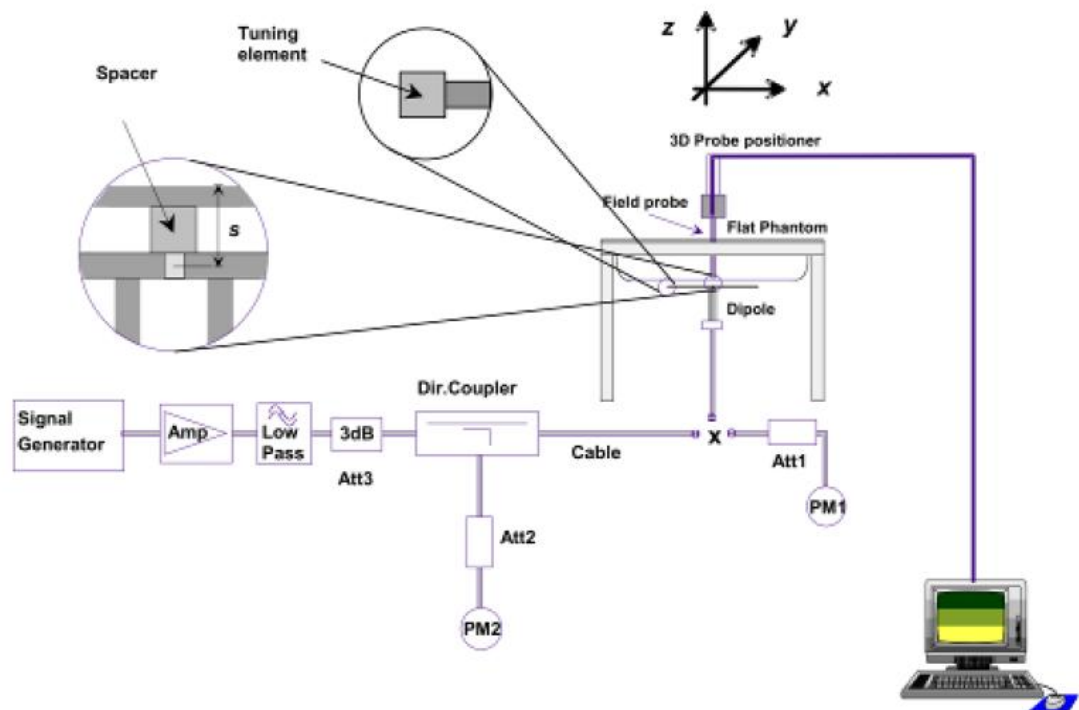
6. SAR Measurement Evaluation

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	2024-08-08
835	250	9.65	2.210	8.84	-8.39	2024-08-09
1800	250	38.49	9.624	38.496	0.02	2024-08-12
1900	250	39.59	10.223	40.892	3.29	2024-08-14
2450	250	53.76	13.747	54.988	2.28	2024-08-16
2600	250	56.81	14.815	59.26	4.31	2024-08-19

Remark: Referring to IEC/IEEE 62209-1528 Ed. 1.0 (2020-10), the system check shall be performed at a test frequency that is within ±10% or ±100 MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

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

7. EUT Testing Position

7.1 Define Two Imaginary Lines on The Handset

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

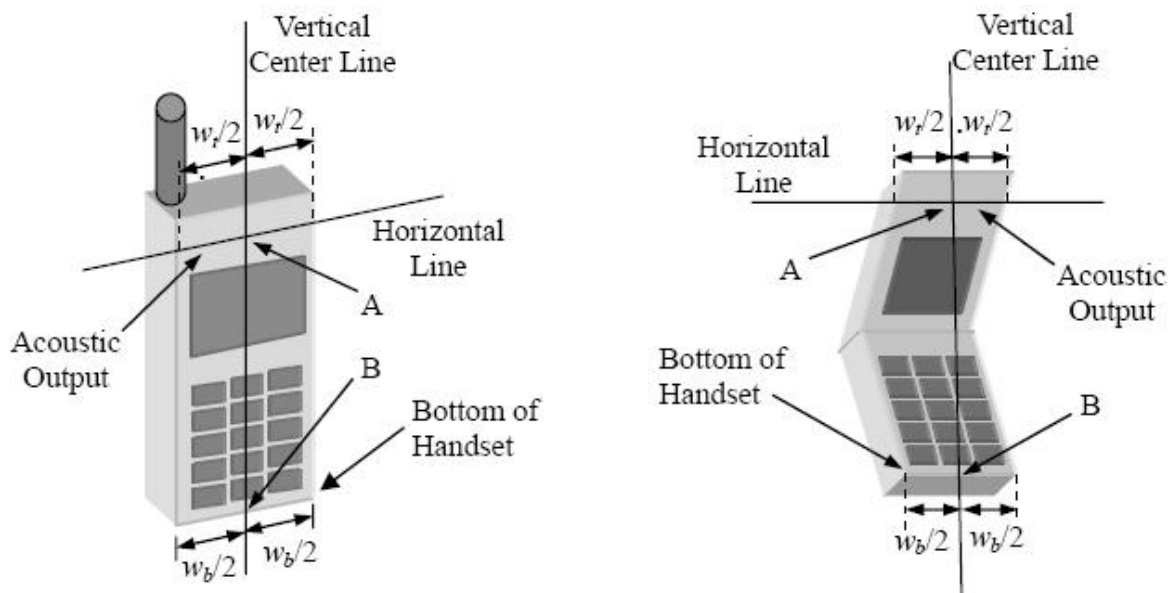


Illustration for Handset Vertical and Horizontal Reference Lines

7.2 Cheek Position

- (a) To position the device with the vertical center line of the body of the device and the horizontal line crossing the center piece in a plane parallel to the sagittal plane of the phantom. While maintaining the device in this plane, align the vertical center line with the reference plane containing the three ear and mouth reference point (M: Mouth, RE: Right Ear, and LE: Left Ear) and align the center of the ear piece with the line RE-LE.
- (b) To move the device towards the phantom with the ear piece aligned with the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with the ear, move the bottom of the phone until any point on the front side is in contact with the cheek of the phantom or until contact with the ear is lost (see Fig. 7.2).

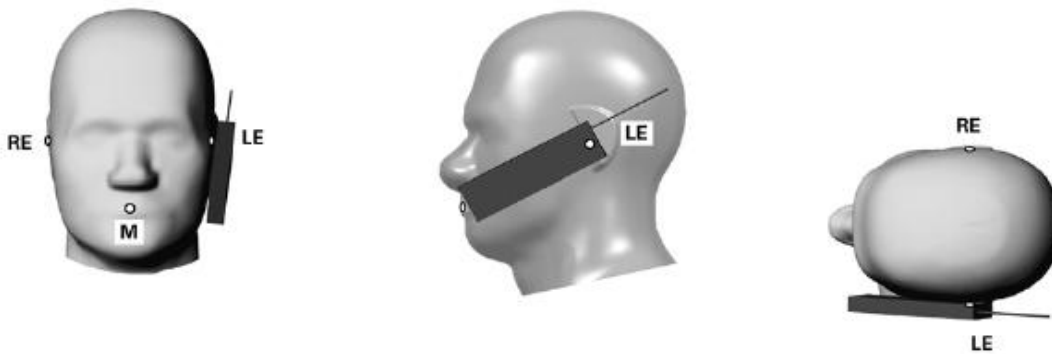


Illustration for Cheek Position

7.3 Tilted Position

- (a) To position the device in the “cheek” position described above.
- (b) While maintaining the device the reference plane described above and pivoting against the ear, moves it outward away from the mouth by an angle of 15 degrees or until contact with the ear is lost (see Fig. 7.3).

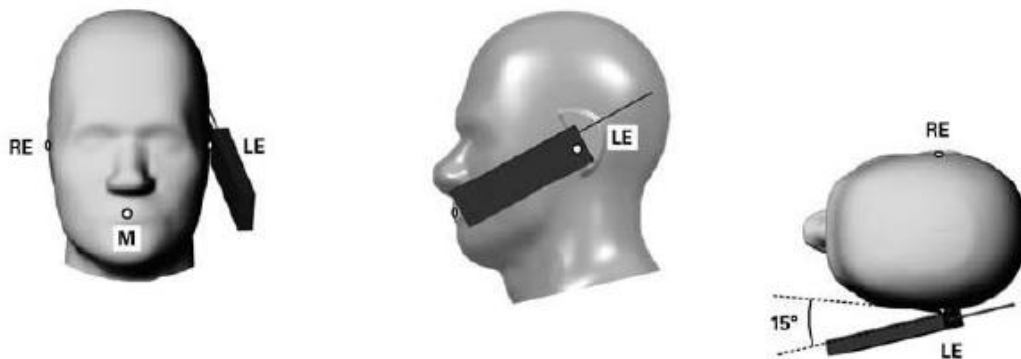


Illustration for Tilted Position

7.4 Body Position

- (a) To position the device parallel to the phantom surface with each side.
- (b) To adjust the device parallel to the flat phantom.
- (c) To adjust the distance between the device surface and the flat phantom to 10mm.

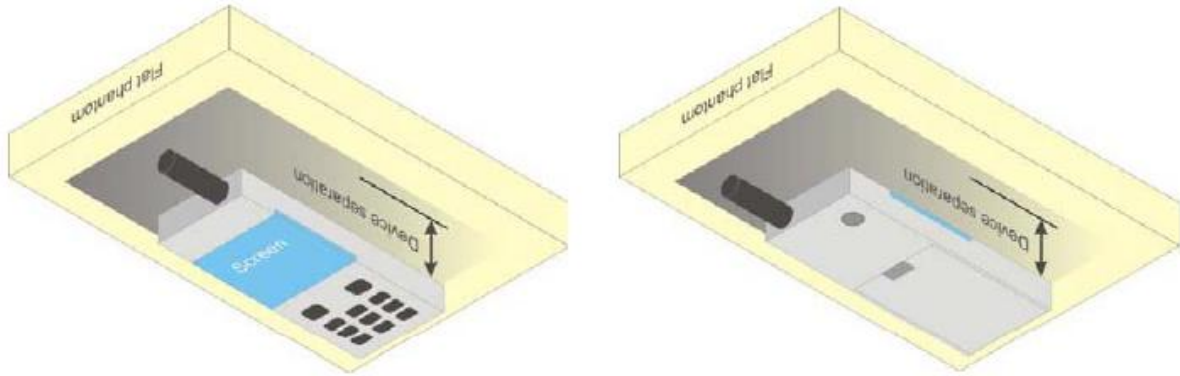
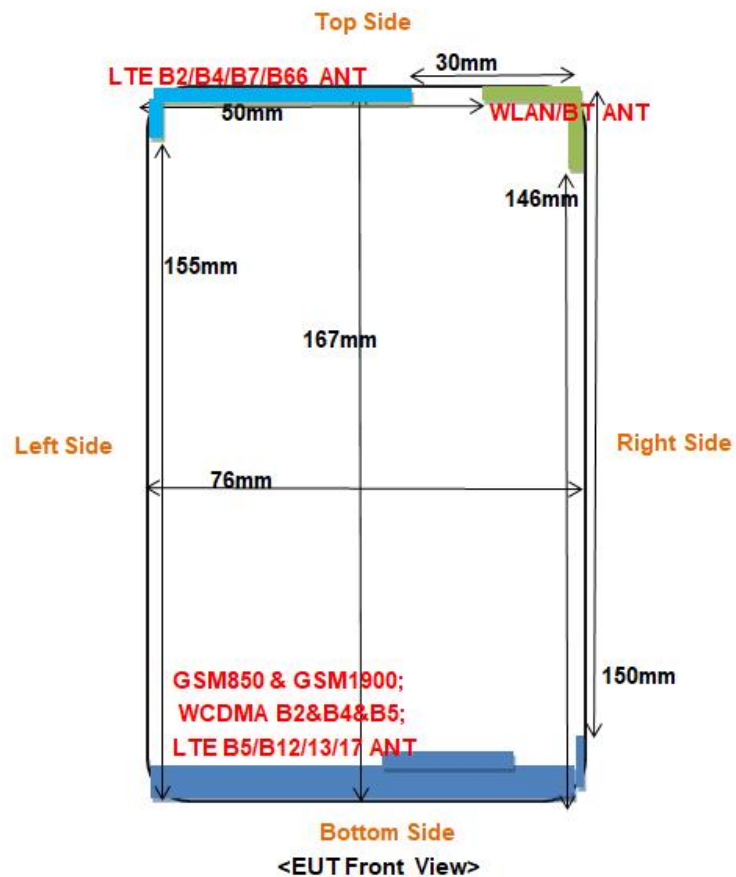


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

Distance of EUT antenna-to-edge/surface(mm),						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
LTE B2/B4/B7/B66 ANT	<25	<25	<25	30	<25	155
GSM850 & GSM1900; WCDMA B2&B4&B5; LTE B5/B12/13/17 ANT	<25	<25	<25	<25	150	<25
WLAN/BT	<25	<25	50	<25	<25	146

7.6 EUT Testing Position

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

Head SAR tests				
Antennas	Right Cheek	Left Cheek	Right Tilted	Left Tilted
WWAN	Yes	Yes	Yes	Yes
WLAN/BT	Yes	Yes	Yes	Yes

Body SAR tests, Test distance: 10mm						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
LTE B2/B4/B7/B66 ANT	Yes	Yes	Yes	No	Yes	No
GSM850 & GSM1900; WCDMA B2&B4&B5; LTE B5/B12/13/17 ANT	Yes	Yes	Yes	Yes	No	Yes
WLAN/BT	Yes	Yes	No	Yes	Yes	No

Remark:

- Referring to KDB 941225 D06, when the overall device length and width are $\geq 9\text{cm} \times 5\text{cm}$, the test separation distances is 10 mm. SAR must be measured for all sides and surfaces with a transmitting antenna located within 25mm from that surface or edge. When the form factor of a handset is smaller than $9\text{ cm} \times 5\text{ cm}$, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode.
- Referring to KDB 648474 D04 Handset SAR v01r03, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR $> 1.2\text{ W/kg}$.

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

8. SAR Measurement Procedures

8.1 Measurement Procedures

The measurement procedures are as follows:

- (a) Use base station simulator (if applicable) or engineering software to transmit RF power continuously (continuous Tx) in the highest power channel.
- (b) Keep EUT to radiate maximum output power or 100% factor (if applicable)
- (c) Measure output power through RF cable and power meter.
- (d) Place the EUT in the positions as Annex D demonstrates.
- (e) Set scan area, grid size and other setting on the SATIMO software.
- (f) Measure SAR results for the highest power channel on each testing position.
- (g) Find out the largest SAR result on these testing positions of each band
- (h) Measure SAR results for other channels in worst SAR testing position if the SAR of highest power channel is larger than 0.8 W/kg

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

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

8.2 Spatial Peak SAR Evaluation

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

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

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

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

8.3 Area & Zoom Scan Procedures

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

8.4 Volume Scan Procedures

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

8.5 SAR Averaged Methods

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

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

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

8.6 Power Drift Monitoring

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

9. SAR Test Result

9.1 Conducted RF Output Power

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	32.05	32.17	32.01	32.5	28.73	28.19	27.95	29.0
GPRS (1 slot)	32.01	32.12	31.96	32.5	28.29	28.38	28.18	28.5
GPRS (2 slots)	29.93	30.05	29.94	30.5	26.03	25.90	25.59	26.5
GPRS (3 slots)	28.04	28.20	28.15	28.5	24.40	24.30	24.04	24.5
GPRS (4 slots)	25.85	26.02	26.03	26.5	22.40	22.32	22.10	23.0
EGPRS (1 slot)	24.67	24.71	24.72	25.0	23.70	23.06	22.52	24.0
EGPRS (2 slots)	23.33	23.60	23.62	24.0	21.98	21.58	21.16	22.0
EGPRS (3 slots)	21.24	21.35	21.51	22.0	19.71	19.32	18.78	20.0
EGPRS (4 slots)	18.79	19.14	19.10	20.0	16.89	16.63	15.98	17.0

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	23.05	23.17	23.01	23.5	19.73	19.19	18.95	20.0
GPRS (1 slot)	23.01	23.12	22.96	23.5	19.29	19.38	19.18	20.0
GPRS (2 slots)	23.93	24.05	23.94	24.5	20.03	19.90	19.59	20.5
GPRS (3 slots)	23.79	23.95	23.90	24.0	20.15	20.05	19.79	20.5
GPRS (4 slots)	22.85	23.02	23.03	23.5	19.40	19.32	19.10	20.0
EGPRS (1 slot)	15.67	15.71	15.72	16.0	14.70	14.06	13.52	15.0
EGPRS (2 slots)	17.33	17.60	17.62	18.0	15.98	15.58	15.16	16.0
EGPRS (3 slots)	16.99	17.10	17.26	18.0	15.46	15.07	14.53	16.0
EGPRS (4 slots)	15.79	16.14	16.10	17.0	13.89	13.63	12.98	14.0

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 Head 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 Body SAR testing, GPRS should be evaluated; therefore the EUT was set in GPRS (2TX slots) for

GSM850 and GPRS (3TX 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.

4. The DUT do not support DTM function.

WCDMA - Average Power (dBm)								
Band	WCDMA Band II				WCDMA Band IV			
Channel	9262	9400	9538	Tune-up power (dBm)	1312	1413	1513	Tune-up power (dBm)
Frequency (MHz)	1852.4	1880.0	1907.6		1712.4	1732.6	1752.6	
RMC 12.2k	23.16	22.84	22.94	23.5	22.55	23.02	22.89	23.5
HSDPA Subtest-1	22.09	22.98	22.11	23.0	21.58	21.82	21.26	23.0
HSDPA Subtest-2	22.76	22.7	21.77	23.0	22.35	22.54	21.98	23.0
HSDPA Subtest-3	22.55	22.55	21.63	23.0	22.33	22.60	22.00	23.0
HSDPA Subtest-4	22.57	22.59	21.65	23.0	22.51	22.62	22.08	23.0
HSUPA Subtest-1	20.97	20.99	20.31	23.0	20.67	20.89	20.44	23.0
HSUPA Subtest-2	20.80	20.90	20.23	23.0	20.03	20.44	19.83	23.0
HSUPA Subtest-3	21.42	21.24	20.70	23.0	20.84	21.07	20.60	23.0
HSUPA Subtest-4	21.47	21.25	20.51	23.0	20.65	20.86	20.34	23.0
HSUPA Subtest-5	22.29	22.02	22.05	23.0	22.41	22.36	21.70	23.0

WCDMA - Average Power (dBm)								
Band	WCDMA Band V							
Channel	4132	4182	4233	Tune-up power (dBm)				
Frequency (MHz)	826.4	836.4	846.6					
RMC 12.2k	23.09	22.81	22.63	23.5				
HSDPA Subtest-1	22.84	22.32	22.92	23.0				
HSDPA Subtest-2	22.63	22.00	22.68	23.0				
HSDPA Subtest-3	22.31	22.62	22.3	23.0				
HSDPA Subtest-4	22.23	22.62	22.3	23.0				
HSUPA Subtest-1	21.36	21.98	21.66	23.0				
HSUPA Subtest-2	21.12	21.50	21.20	23.0				
HSUPA Subtest-3	21.6	21.98	21.66	23.0				
HSUPA Subtest-4	21.17	21.57	21.02	23.0				
HSUPA Subtest-5	22.8	22.05	22.57	23.0				

Remark:

1. Per KDB 941225 D01 v03, the 12.2kbps RMC mode was selected for SAR testing (the primary mode).
2. When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq 1/4$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is ≤ 1.2 W/kg, SAR measurement is not required for the secondary mode.

FDD-LTE Band 2:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band2	1.4MHz	QPSK	18607	1RB#0	21.19	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	21.89	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	21.13	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.90	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	21.12	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.41	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	21.22	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	20.28	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	21.22	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	20.25	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	21.25	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	20.28	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	19.88	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	20.88	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.18	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	20.84	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.11	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	20.90	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.04	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	21.10	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	20.43	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	20.42	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	20.96	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	20.45	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	20.58	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	19.54	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	21.23	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.02	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	21.25	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.02	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	21.26	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.03	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	21.22	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	20.62	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	21.11	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	20.62	PASS
Band2	1.4MHz	16QAM	19193	3RB#3	20.66	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	20.67	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	19.87	PASS

Band2	3MHz	QPSK	18615	1RB#0	21.14	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.07	PASS
Band2	3MHz	QPSK	18615	1RB#8	21.20	PASS
Band2	3MHz	16QAM	18615	1RB#8	20.96	PASS
Band2	3MHz	QPSK	18615	1RB#14	21.13	PASS
Band2	3MHz	16QAM	18615	1RB#14	20.98	PASS
Band2	3MHz	QPSK	18615	8RB#0	20.73	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.03	PASS
Band2	3MHz	QPSK	18615	8RB#4	20.62	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.04	PASS
Band2	3MHz	QPSK	18615	8RB#7	20.73	PASS
Band2	3MHz	16QAM	18615	8RB#7	19.98	PASS
Band2	3MHz	QPSK	18615	15RB#0	20.68	PASS
Band2	3MHz	16QAM	18615	15RB#0	19.81	PASS
Band2	3MHz	QPSK	18900	1RB#0	20.83	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.10	PASS
Band2	3MHz	QPSK	18900	1RB#8	20.79	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.04	PASS
Band2	3MHz	QPSK	18900	1RB#14	20.82	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.10	PASS
Band2	3MHz	QPSK	18900	8RB#0	20.41	PASS
Band2	3MHz	16QAM	18900	8RB#0	19.82	PASS
Band2	3MHz	QPSK	18900	8RB#4	20.44	PASS
Band2	3MHz	16QAM	18900	8RB#4	19.80	PASS
Band2	3MHz	QPSK	18900	8RB#7	20.54	PASS
Band2	3MHz	16QAM	18900	8RB#7	19.87	PASS
Band2	3MHz	QPSK	18900	15RB#0	20.50	PASS
Band2	3MHz	16QAM	18900	15RB#0	19.48	PASS
Band2	3MHz	QPSK	19185	1RB#0	21.25	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.04	PASS
Band2	3MHz	QPSK	19185	1RB#8	21.26	PASS
Band2	3MHz	16QAM	19185	1RB#8	20.98	PASS
Band2	3MHz	QPSK	19185	1RB#14	21.06	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.73	PASS
Band2	3MHz	QPSK	19185	8RB#0	20.61	PASS
Band2	3MHz	16QAM	19185	8RB#0	19.93	PASS
Band2	3MHz	QPSK	19185	8RB#4	20.56	PASS
Band2	3MHz	16QAM	19185	8RB#4	19.74	PASS
Band2	3MHz	QPSK	19185	8RB#7	20.52	PASS
Band2	3MHz	16QAM	19185	8RB#7	19.68	PASS
Band2	3MHz	QPSK	19185	15RB#0	20.52	PASS
Band2	3MHz	16QAM	19185	15RB#0	19.62	PASS

Band2	5MHz	QPSK	18625	1RB#0	21.28	PASS
Band2	5MHz	16QAM	18625	1RB#0	20.80	PASS
Band2	5MHz	QPSK	18625	1RB#12	21.30	PASS
Band2	5MHz	16QAM	18625	1RB#12	20.60	PASS
Band2	5MHz	QPSK	18625	1RB#24	21.31	PASS
Band2	5MHz	16QAM	18625	1RB#24	20.55	PASS
Band2	5MHz	QPSK	18625	12RB#0	20.73	PASS
Band2	5MHz	16QAM	18625	12RB#0	19.83	PASS
Band2	5MHz	QPSK	18625	12RB#6	20.75	PASS
Band2	5MHz	16QAM	18625	12RB#6	19.84	PASS
Band2	5MHz	QPSK	18625	12RB#13	20.63	PASS
Band2	5MHz	16QAM	18625	12RB#13	19.76	PASS
Band2	5MHz	QPSK	18625	25RB#0	20.71	PASS
Band2	5MHz	16QAM	18625	25RB#0	19.90	PASS
Band2	5MHz	QPSK	18900	1RB#0	21.00	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.21	PASS
Band2	5MHz	QPSK	18900	1RB#12	21.02	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.26	PASS
Band2	5MHz	QPSK	18900	1RB#24	20.99	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.28	PASS
Band2	5MHz	QPSK	18900	12RB#0	20.45	PASS
Band2	5MHz	16QAM	18900	12RB#0	19.75	PASS
Band2	5MHz	QPSK	18900	12RB#6	20.48	PASS
Band2	5MHz	16QAM	18900	12RB#6	19.76	PASS
Band2	5MHz	QPSK	18900	12RB#13	20.52	PASS
Band2	5MHz	16QAM	18900	12RB#13	19.66	PASS
Band2	5MHz	QPSK	18900	25RB#0	20.46	PASS
Band2	5MHz	16QAM	18900	25RB#0	19.51	PASS
Band2	5MHz	QPSK	19175	1RB#0	20.92	PASS
Band2	5MHz	16QAM	19175	1RB#0	20.77	PASS
Band2	5MHz	QPSK	19175	1RB#12	20.98	PASS
Band2	5MHz	16QAM	19175	1RB#12	20.85	PASS
Band2	5MHz	QPSK	19175	1RB#24	21.07	PASS
Band2	5MHz	16QAM	19175	1RB#24	20.84	PASS
Band2	5MHz	QPSK	19175	12RB#0	20.62	PASS
Band2	5MHz	16QAM	19175	12RB#0	19.60	PASS
Band2	5MHz	QPSK	19175	12RB#6	20.56	PASS
Band2	5MHz	16QAM	19175	12RB#6	19.66	PASS
Band2	5MHz	QPSK	19175	12RB#13	20.50	PASS
Band2	5MHz	16QAM	19175	12RB#13	19.84	PASS
Band2	5MHz	QPSK	19175	25RB#0	20.65	PASS
Band2	5MHz	16QAM	19175	25RB#0	19.82	PASS

Band2	10MHz	QPSK	18650	1RB#0	21.25	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.35	PASS
Band2	10MHz	QPSK	18650	1RB#24	21.10	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.27	PASS
Band2	10MHz	QPSK	18650	1RB#49	21.11	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.22	PASS
Band2	10MHz	QPSK	18650	25RB#0	20.72	PASS
Band2	10MHz	16QAM	18650	25RB#0	19.84	PASS
Band2	10MHz	QPSK	18650	25RB#12	20.75	PASS
Band2	10MHz	16QAM	18650	25RB#12	19.85	PASS
Band2	10MHz	QPSK	18650	25RB#25	20.67	PASS
Band2	10MHz	16QAM	18650	25RB#25	19.83	PASS
Band2	10MHz	QPSK	18650	50RB#0	20.71	PASS
Band2	10MHz	16QAM	18650	50RB#0	19.84	PASS
Band2	10MHz	QPSK	18900	1RB#0	20.99	PASS
Band2	10MHz	16QAM	18900	1RB#0	20.99	PASS
Band2	10MHz	QPSK	18900	1RB#24	21.04	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.02	PASS
Band2	10MHz	QPSK	18900	1RB#49	20.99	PASS
Band2	10MHz	16QAM	18900	1RB#49	20.97	PASS
Band2	10MHz	QPSK	18900	25RB#0	20.55	PASS
Band2	10MHz	16QAM	18900	25RB#0	19.80	PASS
Band2	10MHz	QPSK	18900	25RB#12	20.55	PASS
Band2	10MHz	16QAM	18900	25RB#12	19.80	PASS
Band2	10MHz	QPSK	18900	25RB#25	20.53	PASS
Band2	10MHz	16QAM	18900	25RB#25	19.83	PASS
Band2	10MHz	QPSK	18900	50RB#0	20.52	PASS
Band2	10MHz	16QAM	18900	50RB#0	19.69	PASS
Band2	10MHz	QPSK	19150	1RB#0	21.01	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.12	PASS
Band2	10MHz	QPSK	19150	1RB#24	21.01	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.17	PASS
Band2	10MHz	QPSK	19150	1RB#49	21.08	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.18	PASS
Band2	10MHz	QPSK	19150	25RB#0	20.65	PASS
Band2	10MHz	16QAM	19150	25RB#0	19.62	PASS
Band2	10MHz	QPSK	19150	25RB#12	20.54	PASS
Band2	10MHz	16QAM	19150	25RB#12	19.64	PASS
Band2	10MHz	QPSK	19150	25RB#25	20.59	PASS
Band2	10MHz	16QAM	19150	25RB#25	19.68	PASS
Band2	10MHz	QPSK	19150	50RB#0	20.58	PASS
Band2	10MHz	16QAM	19150	50RB#0	19.68	PASS

Band2	15MHz	QPSK	18675	1RB#0	21.25	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.36	PASS
Band2	15MHz	QPSK	18675	1RB#38	21.07	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.15	PASS
Band2	15MHz	QPSK	18675	1RB#74	21.02	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.14	PASS
Band2	15MHz	QPSK	18675	38RB#0	20.74	PASS
Band2	15MHz	16QAM	18675	38RB#0	20.63	PASS
Band2	15MHz	QPSK	18675	38RB#18	20.63	PASS
Band2	15MHz	16QAM	18675	38RB#18	20.64	PASS
Band2	15MHz	QPSK	18675	38RB#37	20.64	PASS
Band2	15MHz	16QAM	18675	38RB#37	20.64	PASS
Band2	15MHz	QPSK	18675	75RB#0	20.64	PASS
Band2	15MHz	QPSK	18900	38RB#37	20.53	PASS
Band2	15MHz	16QAM	18900	38RB#37	20.53	PASS
Band2	15MHz	16QAM	18900	75RB#0	19.66	PASS
Band2	15MHz	QPSK	19125	1RB#0	21.08	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.18	PASS
Band2	15MHz	QPSK	19125	1RB#38	21.00	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.08	PASS
Band2	15MHz	QPSK	19125	1RB#74	21.07	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.23	PASS
Band2	15MHz	QPSK	19125	38RB#0	20.68	PASS
Band2	15MHz	16QAM	19125	38RB#0	20.71	PASS
Band2	15MHz	QPSK	19125	38RB#18	20.55	PASS
Band2	15MHz	16QAM	19125	38RB#18	20.55	PASS
Band2	15MHz	QPSK	19125	38RB#37	20.55	PASS
Band2	15MHz	16QAM	19125	38RB#37	20.55	PASS
Band2	15MHz	QPSK	19125	75RB#0	20.57	PASS
Band2	15MHz	16QAM	19125	75RB#0	19.68	PASS
Band2	20MHz	QPSK	18700	1RB#0	21.51	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.22	PASS
Band2	20MHz	QPSK	18700	1RB#49	21.33	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.04	PASS
Band2	20MHz	QPSK	18700	1RB#99	21.22	PASS
Band2	20MHz	16QAM	18700	1RB#99	20.94	PASS
Band2	20MHz	QPSK	18700	50RB#0	20.78	PASS
Band2	20MHz	16QAM	18700	50RB#0	19.95	PASS
Band2	20MHz	QPSK	18700	50RB#25	20.72	PASS
Band2	20MHz	16QAM	18700	50RB#25	19.91	PASS
Band2	20MHz	QPSK	18700	50RB#50	20.57	PASS
Band2	20MHz	16QAM	18700	50RB#50	19.81	PASS

Band2	20MHz	QPSK	18700	100RB#0	20.70	PASS
Band2	20MHz	16QAM	18700	100RB#0	19.74	PASS
Band2	20MHz	QPSK	18900	1RB#0	21.14	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.91	PASS
Band2	20MHz	QPSK	18900	1RB#49	21.17	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.60	PASS
Band2	20MHz	QPSK	18900	1RB#99	21.29	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.69	PASS
Band2	20MHz	QPSK	18900	50RB#0	20.50	PASS
Band2	20MHz	16QAM	18900	50RB#0	19.72	PASS
Band2	20MHz	QPSK	18900	50RB#25	20.57	PASS
Band2	20MHz	16QAM	18900	50RB#25	19.75	PASS
Band2	20MHz	QPSK	18900	50RB#50	20.54	PASS
Band2	20MHz	16QAM	18900	50RB#50	19.77	PASS
Band2	20MHz	QPSK	18900	100RB#0	20.56	PASS
Band2	20MHz	16QAM	18900	100RB#0	19.69	PASS
Band2	20MHz	QPSK	19100	1RB#0	21.34	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.14	PASS
Band2	20MHz	QPSK	19100	1RB#49	21.26	PASS
Band2	20MHz	16QAM	19100	1RB#49	20.95	PASS
Band2	20MHz	QPSK	19100	1RB#99	21.32	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.09	PASS
Band2	20MHz	QPSK	19100	50RB#0	20.57	PASS
Band2	20MHz	16QAM	19100	50RB#0	19.87	PASS
Band2	20MHz	QPSK	19100	50RB#25	20.60	PASS
Band2	20MHz	16QAM	19100	50RB#25	19.85	PASS
Band2	20MHz	QPSK	19100	50RB#50	20.57	PASS
Band2	20MHz	16QAM	19100	50RB#50	19.77	PASS
Band2	20MHz	QPSK	19100	100RB#0	20.64	PASS
Band2	20MHz	16QAM	19100	100RB#0	19.76	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	20.74	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	21.10	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	21.15	PASS
Band2	15MHz	16QAM	18675	75RB#0	19.78	PASS
Band2	15MHz	QPSK	18900	1RB#0	20.56	PASS
Band2	15MHz	16QAM	18900	1RB#0	20.89	PASS
Band2	15MHz	QPSK	18900	1RB#38	20.60	PASS
Band2	15MHz	16QAM	18900	1RB#38	20.92	PASS
Band2	15MHz	QPSK	18900	1RB#74	20.55	PASS
Band2	15MHz	16QAM	18900	1RB#74	20.91	PASS
Band2	15MHz	QPSK	18900	38RB#0	20.55	PASS
Band2	15MHz	16QAM	18900	38RB#0	20.54	PASS

Band2	15MHz	QPSK	18900	38RB#18	20.53	PASS
Band2	15MHz	16QAM	18900	38RB#18	20.53	PASS
Band2	15MHz	QPSK	18900	75RB#0	20.53	PASS

FDD-LTE Band 4:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	21.86	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.39	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	21.86	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.35	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	21.90	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.13	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	21.96	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.32	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	22.03	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.29	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	21.90	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.32	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	21.55	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	21.50	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	20.84	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	21.44	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	20.76	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.48	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	21.76	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	20.93	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	21.52	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	21.04	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	21.32	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	20.86	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	21.37	PASS
Band4	1.4MHz	16QAM	20393	3RB#0	20.76	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	21.34	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	20.74	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	21.34	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	20.75	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	20.89	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	20.75	PASS
Band4	3MHz	QPSK	19965	1RB#0	21.99	PASS
Band4	3MHz	16QAM	19965	1RB#0	21.83	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.01	PASS

Band4	3MHz	16QAM	19965	1RB#8	21.80	PASS
Band4	3MHz	QPSK	19965	1RB#14	21.84	PASS
Band4	3MHz	16QAM	19965	1RB#14	21.73	PASS
Band4	3MHz	QPSK	19965	8RB#0	21.45	PASS
Band4	3MHz	16QAM	19965	8RB#0	20.86	PASS
Band4	3MHz	QPSK	19965	8RB#4	21.50	PASS
Band4	3MHz	16QAM	19965	8RB#4	20.75	PASS
Band4	3MHz	QPSK	19965	8RB#7	21.33	PASS
Band4	3MHz	16QAM	19965	8RB#7	20.65	PASS
Band4	3MHz	QPSK	19965	15RB#0	21.40	PASS
Band4	3MHz	16QAM	19965	15RB#0	20.61	PASS
Band4	3MHz	QPSK	20175	1RB#0	21.54	PASS
Band4	3MHz	16QAM	20175	1RB#0	21.34	PASS
Band4	3MHz	QPSK	20175	1RB#8	21.55	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.67	PASS
Band4	3MHz	QPSK	20175	1RB#14	21.50	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.62	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.13	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.39	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.07	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.43	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.00	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.32	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.04	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.20	PASS
Band4	3MHz	QPSK	20385	1RB#0	21.59	PASS
Band4	3MHz	16QAM	20385	1RB#0	20.80	PASS
Band4	3MHz	QPSK	20385	1RB#8	21.34	PASS
Band4	3MHz	16QAM	20385	1RB#8	20.88	PASS
Band4	3MHz	QPSK	20385	1RB#14	21.21	PASS
Band4	3MHz	16QAM	20385	1RB#14	20.77	PASS
Band4	3MHz	QPSK	20385	8RB#0	20.74	PASS
Band4	3MHz	16QAM	20385	8RB#0	20.81	PASS
Band4	3MHz	QPSK	20385	8RB#4	20.71	PASS
Band4	3MHz	16QAM	20385	8RB#4	20.80	PASS
Band4	3MHz	QPSK	20385	8RB#7	20.75	PASS
Band4	3MHz	16QAM	20385	8RB#7	20.85	PASS
Band4	3MHz	QPSK	20385	15RB#0	20.71	PASS
Band4	3MHz	16QAM	20385	15RB#0	20.79	PASS
Band4	5MHz	QPSK	19975	1RB#0	22.00	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.40	PASS
Band4	5MHz	QPSK	19975	1RB#12	21.86	PASS

Band4	5MHz	16QAM	19975	1RB#12	21.34	PASS
Band4	5MHz	QPSK	19975	1RB#24	21.87	PASS
Band4	5MHz	16QAM	19975	1RB#24	21.36	PASS
Band4	5MHz	QPSK	19975	12RB#0	21.45	PASS
Band4	5MHz	16QAM	19975	12RB#0	20.57	PASS
Band4	5MHz	QPSK	19975	12RB#6	21.48	PASS
Band4	5MHz	16QAM	19975	12RB#6	20.58	PASS
Band4	5MHz	QPSK	19975	12RB#13	21.36	PASS
Band4	5MHz	16QAM	19975	12RB#13	20.48	PASS
Band4	5MHz	QPSK	19975	25RB#0	21.33	PASS
Band4	5MHz	16QAM	19975	25RB#0	20.58	PASS
Band4	5MHz	QPSK	20175	1RB#0	21.54	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.01	PASS
Band4	5MHz	QPSK	20175	1RB#12	21.51	PASS
Band4	5MHz	16QAM	20175	1RB#12	20.97	PASS
Band4	5MHz	QPSK	20175	1RB#24	21.59	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.04	PASS
Band4	5MHz	QPSK	20175	12RB#0	20.99	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.15	PASS
Band4	5MHz	QPSK	20175	12RB#6	20.94	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.14	PASS
Band4	5MHz	QPSK	20175	12RB#13	20.99	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.17	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.00	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.21	PASS
Band4	5MHz	QPSK	20375	1RB#0	21.18	PASS
Band4	5MHz	16QAM	20375	1RB#0	20.31	PASS
Band4	5MHz	QPSK	20375	1RB#12	21.27	PASS
Band4	5MHz	16QAM	20375	1RB#12	20.74	PASS
Band4	5MHz	QPSK	20375	1RB#24	20.84	PASS
Band4	5MHz	16QAM	20375	1RB#24	20.35	PASS
Band4	5MHz	QPSK	20375	12RB#0	20.49	PASS
Band4	5MHz	16QAM	20375	12RB#0	20.53	PASS
Band4	5MHz	QPSK	20375	12RB#6	20.45	PASS
Band4	5MHz	16QAM	20375	12RB#6	20.52	PASS
Band4	5MHz	QPSK	20375	12RB#13	20.52	PASS
Band4	5MHz	16QAM	20375	12RB#13	20.58	PASS
Band4	5MHz	QPSK	20375	25RB#0	20.48	PASS
Band4	5MHz	16QAM	20375	25RB#0	20.57	PASS
Band4	10MHz	QPSK	20000	1RB#0	22.03	PASS
Band4	10MHz	16QAM	20000	1RB#0	21.51	PASS
Band4	10MHz	QPSK	20000	1RB#24	21.86	PASS

Band4	10MHz	16QAM	20000	1RB#24	21.96	PASS
Band4	10MHz	QPSK	20000	1RB#49	21.80	PASS
Band4	10MHz	16QAM	20000	1RB#49	21.86	PASS
Band4	10MHz	QPSK	20000	25RB#0	21.45	PASS
Band4	10MHz	16QAM	20000	25RB#0	20.57	PASS
Band4	10MHz	QPSK	20000	25RB#12	21.48	PASS
Band4	10MHz	16QAM	20000	25RB#12	20.58	PASS
Band4	10MHz	QPSK	20000	25RB#25	21.36	PASS
Band4	10MHz	16QAM	20000	25RB#25	20.47	PASS
Band4	10MHz	QPSK	20000	50RB#0	21.32	PASS
Band4	10MHz	16QAM	20000	50RB#0	20.53	PASS
Band4	10MHz	QPSK	20175	1RB#0	21.61	PASS
Band4	10MHz	16QAM	20175	1RB#0	21.65	PASS
Band4	10MHz	QPSK	20175	1RB#24	21.45	PASS
Band4	10MHz	16QAM	20175	1RB#24	21.62	PASS
Band4	10MHz	QPSK	20175	1RB#49	21.56	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.69	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.04	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.20	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.03	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.19	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.14	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.23	PASS
Band4	10MHz	QPSK	20175	50RB#0	20.97	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.19	PASS
Band4	10MHz	QPSK	20350	1RB#0	21.59	PASS
Band4	10MHz	16QAM	20350	1RB#0	20.80	PASS
Band4	10MHz	QPSK	20350	1RB#24	21.16	PASS
Band4	10MHz	16QAM	20350	1RB#24	20.72	PASS
Band4	10MHz	QPSK	20350	1RB#49	21.44	PASS
Band4	10MHz	16QAM	20350	1RB#49	21.00	PASS
Band4	10MHz	QPSK	20350	25RB#0	20.65	PASS
Band4	10MHz	16QAM	20350	25RB#0	20.50	PASS
Band4	10MHz	QPSK	20350	25RB#12	20.66	PASS
Band4	10MHz	16QAM	20350	25RB#12	20.49	PASS
Band4	10MHz	QPSK	20350	25RB#25	20.85	PASS
Band4	10MHz	16QAM	20350	25RB#25	20.68	PASS
Band4	10MHz	QPSK	20350	50RB#0	20.72	PASS
Band4	10MHz	16QAM	20350	50RB#0	20.58	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.07	PASS
Band4	15MHz	16QAM	20025	1RB#0	21.79	PASS
Band4	15MHz	QPSK	20025	1RB#38	21.91	PASS

Band4	15MHz	16QAM	20025	1RB#38	21.89	PASS
Band4	15MHz	QPSK	20025	1RB#74	21.73	PASS
Band4	15MHz	16QAM	20025	1RB#74	21.81	PASS
Band4	15MHz	QPSK	20025	38RB#0	21.38	PASS
Band4	15MHz	16QAM	20025	38RB#0	21.37	PASS
Band4	15MHz	QPSK	20025	38RB#18	21.37	PASS
Band4	15MHz	16QAM	20025	38RB#18	21.37	PASS
Band4	15MHz	QPSK	20025	38RB#37	21.37	PASS
Band4	15MHz	16QAM	20025	38RB#37	21.37	PASS
Band4	15MHz	QPSK	20025	75RB#0	21.37	PASS
Band4	15MHz	16QAM	20025	75RB#0	20.50	PASS
Band4	15MHz	QPSK	20175	1RB#0	21.73	PASS
Band4	15MHz	16QAM	20175	1RB#0	21.82	PASS
Band4	15MHz	QPSK	20175	1RB#38	21.51	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.61	PASS
Band4	15MHz	QPSK	20175	1RB#74	21.60	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.51	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.09	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.14	PASS
Band4	15MHz	QPSK	20175	38RB#18	21.15	PASS
Band4	15MHz	16QAM	20175	38RB#18	21.16	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.06	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.06	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.07	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.12	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.02	PASS
Band4	15MHz	16QAM	20325	1RB#0	21.69	PASS
Band4	15MHz	QPSK	20325	1RB#38	21.15	PASS
Band4	15MHz	16QAM	20325	1RB#38	20.70	PASS
Band4	15MHz	QPSK	20325	1RB#74	21.13	PASS
Band4	15MHz	16QAM	20325	1RB#74	20.70	PASS
Band4	15MHz	QPSK	20325	38RB#0	20.89	PASS
Band4	15MHz	16QAM	20325	38RB#0	20.88	PASS
Band4	15MHz	QPSK	20325	38RB#18	20.88	PASS
Band4	15MHz	16QAM	20325	38RB#18	20.87	PASS
Band4	15MHz	QPSK	20325	38RB#37	20.87	PASS
Band4	15MHz	16QAM	20325	38RB#37	20.86	PASS
Band4	15MHz	QPSK	20325	75RB#0	20.87	PASS
Band4	15MHz	16QAM	20325	75RB#0	20.47	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.40	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.77	PASS
Band4	20MHz	QPSK	20050	1RB#49	22.04	PASS

Band4	20MHz	16QAM	20050	1RB#49	21.74	PASS
Band4	20MHz	QPSK	20050	1RB#99	21.85	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.56	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.42	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.62	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.40	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.64	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.16	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.44	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.30	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.48	PASS
Band4	20MHz	QPSK	20175	1RB#0	21.88	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.70	PASS
Band4	20MHz	QPSK	20175	1RB#49	21.72	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.34	PASS
Band4	20MHz	QPSK	20175	1RB#99	21.87	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.54	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.12	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.40	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.14	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.37	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.13	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.27	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.03	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.14	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.01	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.13	PASS
Band4	20MHz	QPSK	20300	1RB#49	21.41	PASS
Band4	20MHz	16QAM	20300	1RB#49	20.80	PASS
Band4	20MHz	QPSK	20300	1RB#99	21.85	PASS
Band4	20MHz	16QAM	20300	1RB#99	21.27	PASS
Band4	20MHz	QPSK	20300	50RB#0	21.52	PASS
Band4	20MHz	16QAM	20300	50RB#0	20.64	PASS
Band4	20MHz	QPSK	20300	50RB#25	21.50	PASS
Band4	20MHz	16QAM	20300	50RB#25	20.65	PASS
Band4	20MHz	QPSK	20300	50RB#50	20.93	PASS
Band4	20MHz	16QAM	20300	50RB#50	20.59	PASS
Band4	20MHz	QPSK	20300	100RB#0	21.18	PASS
Band4	20MHz	16QAM	20300	100RB#0	20.58	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	20.92	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	21.39	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.70	PASS

Band4	1.4MHz	QPSK	20175	1RB#2	21.41	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	21.66	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	21.41	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.67	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	21.59	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	20.86	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.00	PASS

FDD-LTE Band 5:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	22.12	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	21.95	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	22.04	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	21.91	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	22.06	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	21.86	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	22.03	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	21.49	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	22.07	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	21.50	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	22.06	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	21.50	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	21.55	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	20.73	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	21.72	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.35	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	21.73	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.37	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	21.72	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.29	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	21.82	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	21.08	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	21.81	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	21.02	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	21.87	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	20.98	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	21.30	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	20.34	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	21.73	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	21.91	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	21.75	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	21.97	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	21.67	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	21.88	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	21.67	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	20.81	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	21.70	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	20.80	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	21.73	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	20.71	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	21.22	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	20.29	PASS
Band5	3MHz	QPSK	20415	1RB#0	21.93	PASS
Band5	3MHz	16QAM	20415	1RB#0	21.62	PASS
Band5	3MHz	QPSK	20415	1RB#8	21.86	PASS
Band5	3MHz	16QAM	20415	1RB#8	21.57	PASS
Band5	3MHz	QPSK	20415	1RB#14	21.87	PASS
Band5	3MHz	16QAM	20415	1RB#14	21.55	PASS
Band5	3MHz	QPSK	20415	8RB#0	21.45	PASS
Band5	3MHz	16QAM	20415	8RB#0	20.66	PASS
Band5	3MHz	QPSK	20415	8RB#4	21.50	PASS
Band5	3MHz	16QAM	20415	8RB#4	20.68	PASS
Band5	3MHz	QPSK	20415	8RB#7	21.54	PASS
Band5	3MHz	16QAM	20415	8RB#7	20.61	PASS
Band5	3MHz	QPSK	20415	15RB#0	21.49	PASS
Band5	3MHz	16QAM	20415	15RB#0	20.50	PASS
Band5	3MHz	QPSK	20525	1RB#0	21.75	PASS
Band5	3MHz	16QAM	20525	1RB#0	21.18	PASS
Band5	3MHz	QPSK	20525	1RB#8	21.80	PASS
Band5	3MHz	16QAM	20525	1RB#8	21.12	PASS
Band5	3MHz	QPSK	20525	1RB#14	21.81	PASS
Band5	3MHz	16QAM	20525	1RB#14	21.12	PASS
Band5	3MHz	QPSK	20525	8RB#0	21.30	PASS
Band5	3MHz	16QAM	20525	8RB#0	20.48	PASS
Band5	3MHz	QPSK	20525	8RB#4	21.30	PASS
Band5	3MHz	16QAM	20525	8RB#4	20.48	PASS
Band5	3MHz	QPSK	20525	8RB#7	21.24	PASS
Band5	3MHz	16QAM	20525	8RB#7	20.45	PASS
Band5	3MHz	QPSK	20525	15RB#0	21.29	PASS
Band5	3MHz	16QAM	20525	15RB#0	20.18	PASS
Band5	3MHz	QPSK	20635	1RB#0	21.76	PASS
Band5	3MHz	16QAM	20635	1RB#0	21.46	PASS
Band5	3MHz	QPSK	20635	1RB#8	21.76	PASS

Band5	3MHz	16QAM	20635	1RB#8	21.49	PASS
Band5	3MHz	QPSK	20635	1RB#14	21.73	PASS
Band5	3MHz	16QAM	20635	1RB#14	21.59	PASS
Band5	3MHz	QPSK	20635	8RB#0	21.29	PASS
Band5	3MHz	16QAM	20635	8RB#0	20.40	PASS
Band5	3MHz	QPSK	20635	8RB#4	21.20	PASS
Band5	3MHz	16QAM	20635	8RB#4	20.39	PASS
Band5	3MHz	QPSK	20635	8RB#7	21.21	PASS
Band5	3MHz	16QAM	20635	8RB#7	20.41	PASS
Band5	3MHz	QPSK	20635	15RB#0	21.19	PASS
Band5	3MHz	16QAM	20635	15RB#0	20.34	PASS
Band5	5MHz	QPSK	20425	1RB#0	22.00	PASS
Band5	5MHz	16QAM	20425	1RB#0	21.49	PASS
Band5	5MHz	QPSK	20425	1RB#12	21.95	PASS
Band5	5MHz	16QAM	20425	1RB#12	21.43	PASS
Band5	5MHz	QPSK	20425	1RB#24	22.06	PASS
Band5	5MHz	16QAM	20425	1RB#24	21.44	PASS
Band5	5MHz	QPSK	20425	12RB#0	21.41	PASS
Band5	5MHz	16QAM	20425	12RB#0	20.46	PASS
Band5	5MHz	QPSK	20425	12RB#6	21.41	PASS
Band5	5MHz	16QAM	20425	12RB#6	20.47	PASS
Band5	5MHz	QPSK	20425	12RB#13	21.46	PASS
Band5	5MHz	16QAM	20425	12RB#13	20.50	PASS
Band5	5MHz	QPSK	20425	25RB#0	21.35	PASS
Band5	5MHz	16QAM	20425	25RB#0	20.71	PASS
Band5	5MHz	QPSK	20525	1RB#0	21.77	PASS
Band5	5MHz	16QAM	20525	1RB#0	21.98	PASS
Band5	5MHz	QPSK	20525	1RB#12	21.81	PASS
Band5	5MHz	16QAM	20525	1RB#12	21.99	PASS
Band5	5MHz	QPSK	20525	1RB#24	21.74	PASS
Band5	5MHz	16QAM	20525	1RB#24	21.95	PASS
Band5	5MHz	QPSK	20525	12RB#0	21.34	PASS
Band5	5MHz	16QAM	20525	12RB#0	20.41	PASS
Band5	5MHz	QPSK	20525	12RB#6	21.34	PASS
Band5	5MHz	16QAM	20525	12RB#6	20.42	PASS
Band5	5MHz	QPSK	20525	12RB#13	21.32	PASS
Band5	5MHz	16QAM	20525	12RB#13	20.38	PASS
Band5	5MHz	QPSK	20525	25RB#0	21.20	PASS
Band5	5MHz	16QAM	20525	25RB#0	20.33	PASS
Band5	5MHz	QPSK	20625	1RB#0	21.84	PASS
Band5	5MHz	16QAM	20625	1RB#0	21.30	PASS
Band5	5MHz	QPSK	20625	1RB#12	21.71	PASS

Band5	5MHz	16QAM	20625	1RB#12	21.23	PASS
Band5	5MHz	QPSK	20625	1RB#24	21.70	PASS
Band5	5MHz	16QAM	20625	1RB#24	21.25	PASS
Band5	5MHz	QPSK	20625	12RB#0	21.29	PASS
Band5	5MHz	16QAM	20625	12RB#0	20.58	PASS
Band5	5MHz	QPSK	20625	12RB#6	21.15	PASS
Band5	5MHz	16QAM	20625	12RB#6	20.60	PASS
Band5	5MHz	QPSK	20625	12RB#13	21.29	PASS
Band5	5MHz	16QAM	20625	12RB#13	20.29	PASS
Band5	5MHz	QPSK	20625	25RB#0	21.15	PASS
Band5	5MHz	16QAM	20625	25RB#0	20.36	PASS
Band5	10MHz	QPSK	20450	1RB#0	22.39	PASS
Band5	10MHz	16QAM	20450	1RB#0	21.97	PASS
Band5	10MHz	QPSK	20450	1RB#24	21.83	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.02	PASS
Band5	10MHz	QPSK	20450	1RB#49	21.79	PASS
Band5	10MHz	16QAM	20450	1RB#49	21.81	PASS
Band5	10MHz	QPSK	20450	25RB#0	21.45	PASS
Band5	10MHz	16QAM	20450	25RB#0	20.52	PASS
Band5	10MHz	QPSK	20450	25RB#12	21.48	PASS
Band5	10MHz	16QAM	20450	25RB#12	20.53	PASS
Band5	10MHz	QPSK	20450	25RB#25	21.34	PASS
Band5	10MHz	16QAM	20450	25RB#25	20.46	PASS
Band5	10MHz	QPSK	20450	50RB#0	21.44	PASS
Band5	10MHz	16QAM	20450	50RB#0	20.47	PASS
Band5	10MHz	QPSK	20525	1RB#0	21.89	PASS
Band5	10MHz	16QAM	20525	1RB#0	21.76	PASS
Band5	10MHz	QPSK	20525	1RB#24	21.66	PASS
Band5	10MHz	16QAM	20525	1RB#24	21.70	PASS
Band5	10MHz	QPSK	20525	1RB#49	21.65	PASS
Band5	10MHz	16QAM	20525	1RB#49	21.64	PASS
Band5	10MHz	QPSK	20525	25RB#0	21.38	PASS
Band5	10MHz	16QAM	20525	25RB#0	20.52	PASS
Band5	10MHz	QPSK	20525	25RB#12	21.29	PASS
Band5	10MHz	16QAM	20525	25RB#12	20.54	PASS
Band5	10MHz	QPSK	20525	25RB#25	21.32	PASS
Band5	10MHz	16QAM	20525	25RB#25	20.44	PASS
Band5	10MHz	QPSK	20525	50RB#0	21.17	PASS
Band5	10MHz	16QAM	20525	50RB#0	20.40	PASS
Band5	10MHz	QPSK	20600	1RB#0	21.74	PASS
Band5	10MHz	16QAM	20600	1RB#0	21.85	PASS
Band5	10MHz	QPSK	20600	1RB#24	21.68	PASS

Band5	10MHz	16QAM	20600	1RB#24	21.72	PASS
Band5	10MHz	QPSK	20600	1RB#49	21.70	PASS
Band5	10MHz	16QAM	20600	1RB#49	21.75	PASS
Band5	10MHz	QPSK	20600	25RB#0	21.35	PASS
Band5	10MHz	16QAM	20600	25RB#0	20.37	PASS
Band5	10MHz	QPSK	20600	25RB#12	21.20	PASS
Band5	10MHz	16QAM	20600	25RB#12	20.29	PASS
Band5	10MHz	QPSK	20600	25RB#25	21.28	PASS
Band5	10MHz	16QAM	20600	25RB#25	20.29	PASS
Band5	10MHz	QPSK	20600	50RB#0	21.26	PASS
Band5	10MHz	16QAM	20600	50RB#0	20.38	PASS

FDD-LTE Band 7:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	20.98	PASS
Band7	5MHz	16QAM	20775	1RB#0	20.61	PASS
Band7	5MHz	QPSK	20775	1RB#12	20.98	PASS
Band7	5MHz	16QAM	20775	1RB#12	20.57	PASS
Band7	5MHz	QPSK	20775	1RB#24	20.99	PASS
Band7	5MHz	16QAM	20775	1RB#24	20.55	PASS
Band7	5MHz	QPSK	20775	12RB#0	20.46	PASS
Band7	5MHz	16QAM	20775	12RB#0	19.63	PASS
Band7	5MHz	QPSK	20775	12RB#6	20.47	PASS
Band7	5MHz	16QAM	20775	12RB#6	19.59	PASS
Band7	5MHz	QPSK	20775	12RB#13	20.48	PASS
Band7	5MHz	16QAM	20775	12RB#13	19.62	PASS
Band7	5MHz	QPSK	20775	25RB#0	20.47	PASS
Band7	5MHz	16QAM	20775	25RB#0	19.78	PASS
Band7	5MHz	QPSK	21100	1RB#0	20.77	PASS
Band7	5MHz	16QAM	21100	1RB#0	21.20	PASS
Band7	5MHz	QPSK	21100	1RB#12	20.82	PASS
Band7	5MHz	16QAM	21100	1RB#12	21.17	PASS
Band7	5MHz	QPSK	21100	1RB#24	20.73	PASS
Band7	5MHz	16QAM	21100	1RB#24	21.17	PASS
Band7	5MHz	QPSK	21100	12RB#0	20.39	PASS
Band7	5MHz	16QAM	21100	12RB#0	19.69	PASS
Band7	5MHz	QPSK	21100	12RB#6	20.46	PASS
Band7	5MHz	16QAM	21100	12RB#6	19.69	PASS
Band7	5MHz	QPSK	21100	12RB#13	20.42	PASS
Band7	5MHz	16QAM	21100	12RB#13	19.64	PASS
Band7	5MHz	QPSK	21100	25RB#0	20.42	PASS

Band7	5MHz	16QAM	21100	25RB#0	19.52	PASS
Band7	5MHz	QPSK	21425	1RB#0	20.79	PASS
Band7	5MHz	16QAM	21425	1RB#0	20.41	PASS
Band7	5MHz	QPSK	21425	1RB#12	20.79	PASS
Band7	5MHz	16QAM	21425	1RB#12	20.47	PASS
Band7	5MHz	QPSK	21425	1RB#24	20.77	PASS
Band7	5MHz	16QAM	21425	1RB#24	20.45	PASS
Band7	5MHz	QPSK	21425	12RB#0	20.32	PASS
Band7	5MHz	16QAM	21425	12RB#0	19.40	PASS
Band7	5MHz	QPSK	21425	12RB#6	20.33	PASS
Band7	5MHz	16QAM	21425	12RB#6	19.41	PASS
Band7	5MHz	QPSK	21425	12RB#13	20.41	PASS
Band7	5MHz	16QAM	21425	12RB#13	19.42	PASS
Band7	5MHz	QPSK	21425	25RB#0	20.37	PASS
Band7	5MHz	16QAM	21425	25RB#0	19.56	PASS
Band7	10MHz	QPSK	20800	1RB#0	21.02	PASS
Band7	10MHz	16QAM	20800	1RB#0	21.27	PASS
Band7	10MHz	QPSK	20800	1RB#24	20.91	PASS
Band7	10MHz	16QAM	20800	1RB#24	21.24	PASS
Band7	10MHz	QPSK	20800	1RB#49	20.92	PASS
Band7	10MHz	16QAM	20800	1RB#49	21.15	PASS
Band7	10MHz	QPSK	20800	25RB#0	20.54	PASS
Band7	10MHz	16QAM	20800	25RB#0	19.65	PASS
Band7	10MHz	QPSK	20800	25RB#12	20.43	PASS
Band7	10MHz	16QAM	20800	25RB#12	19.68	PASS
Band7	10MHz	QPSK	20800	25RB#25	20.47	PASS
Band7	10MHz	16QAM	20800	25RB#25	19.71	PASS
Band7	10MHz	QPSK	20800	50RB#0	20.53	PASS
Band7	10MHz	16QAM	20800	50RB#0	19.64	PASS
Band7	10MHz	QPSK	21100	1RB#0	20.79	PASS
Band7	10MHz	16QAM	21100	1RB#0	20.97	PASS
Band7	10MHz	QPSK	21100	1RB#24	20.92	PASS
Band7	10MHz	16QAM	21100	1RB#24	20.91	PASS
Band7	10MHz	QPSK	21100	1RB#49	20.77	PASS
Band7	10MHz	16QAM	21100	1RB#49	20.79	PASS
Band7	10MHz	QPSK	21100	25RB#0	20.38	PASS
Band7	10MHz	16QAM	21100	25RB#0	19.69	PASS
Band7	10MHz	QPSK	21100	25RB#12	20.48	PASS
Band7	10MHz	16QAM	21100	25RB#12	19.70	PASS
Band7	10MHz	QPSK	21100	25RB#25	20.29	PASS
Band7	10MHz	16QAM	21100	25RB#25	19.70	PASS
Band7	10MHz	QPSK	21100	50RB#0	20.51	PASS

Band7	10MHz	16QAM	21100	50RB#0	19.64	PASS
Band7	10MHz	QPSK	21400	1RB#0	20.76	PASS
Band7	10MHz	16QAM	21400	1RB#0	21.50	PASS
Band7	10MHz	QPSK	21400	1RB#24	20.85	PASS
Band7	10MHz	16QAM	21400	1RB#24	21.54	PASS
Band7	10MHz	QPSK	21400	1RB#49	20.84	PASS
Band7	10MHz	16QAM	21400	1RB#49	21.54	PASS
Band7	10MHz	QPSK	21400	25RB#0	20.27	PASS
Band7	10MHz	16QAM	21400	25RB#0	19.58	PASS
Band7	10MHz	QPSK	21400	25RB#12	20.30	PASS
Band7	10MHz	16QAM	21400	25RB#12	19.55	PASS
Band7	10MHz	QPSK	21400	25RB#25	20.32	PASS
Band7	10MHz	16QAM	21400	25RB#25	19.64	PASS
Band7	10MHz	QPSK	21400	50RB#0	20.33	PASS
Band7	10MHz	16QAM	21400	50RB#0	19.56	PASS
Band7	15MHz	QPSK	20825	1RB#0	20.93	PASS
Band7	15MHz	16QAM	20825	1RB#0	21.28	PASS
Band7	15MHz	QPSK	20825	1RB#38	20.94	PASS
Band7	15MHz	16QAM	20825	1RB#38	21.23	PASS
Band7	15MHz	QPSK	20825	1RB#74	20.83	PASS
Band7	15MHz	16QAM	20825	1RB#74	21.14	PASS
Band7	15MHz	QPSK	20825	38RB#0	20.53	PASS
Band7	15MHz	16QAM	20825	38RB#0	20.55	PASS
Band7	15MHz	QPSK	20825	38RB#18	20.56	PASS
Band7	15MHz	16QAM	20825	38RB#18	20.56	PASS
Band7	15MHz	QPSK	20825	38RB#37	20.56	PASS
Band7	15MHz	16QAM	20825	38RB#37	20.56	PASS
Band7	15MHz	QPSK	20825	75RB#0	20.55	PASS
Band7	15MHz	16QAM	20825	75RB#0	19.65	PASS
Band7	15MHz	QPSK	21100	1RB#0	20.76	PASS
Band7	15MHz	16QAM	21100	1RB#0	20.99	PASS
Band7	15MHz	QPSK	21100	1RB#38	20.52	PASS
Band7	15MHz	16QAM	21100	1RB#38	20.87	PASS
Band7	15MHz	QPSK	21100	1RB#74	20.57	PASS
Band7	15MHz	16QAM	21100	1RB#74	20.79	PASS
Band7	15MHz	QPSK	21100	38RB#0	20.42	PASS
Band7	15MHz	16QAM	21100	38RB#0	20.42	PASS
Band7	15MHz	QPSK	21100	38RB#18	20.43	PASS
Band7	15MHz	16QAM	21100	38RB#18	20.43	PASS
Band7	15MHz	QPSK	21100	38RB#37	20.43	PASS
Band7	15MHz	16QAM	21100	38RB#37	20.43	PASS
Band7	15MHz	QPSK	21100	75RB#0	20.43	PASS

Band7	15MHz	16QAM	21100	75RB#0	19.54	PASS
Band7	15MHz	QPSK	21375	1RB#0	20.79	PASS
Band7	15MHz	16QAM	21375	1RB#0	21.49	PASS
Band7	15MHz	QPSK	21375	1RB#38	20.75	PASS
Band7	15MHz	16QAM	21375	1RB#38	21.53	PASS
Band7	15MHz	QPSK	21375	1RB#74	20.80	PASS
Band7	15MHz	16QAM	21375	1RB#74	21.58	PASS
Band7	15MHz	QPSK	21375	38RB#0	20.30	PASS
Band7	15MHz	16QAM	21375	38RB#0	20.30	PASS
Band7	15MHz	QPSK	21375	38RB#18	20.30	PASS
Band7	15MHz	16QAM	21375	38RB#18	20.30	PASS
Band7	15MHz	QPSK	21375	38RB#37	20.30	PASS
Band7	15MHz	16QAM	21375	38RB#37	20.30	PASS
Band7	15MHz	QPSK	21375	75RB#0	20.30	PASS
Band7	15MHz	16QAM	21375	75RB#0	19.64	PASS
Band7	20MHz	QPSK	20850	1RB#0	21.18	PASS
Band7	20MHz	16QAM	20850	1RB#0	20.88	PASS
Band7	20MHz	QPSK	20850	1RB#49	21.10	PASS
Band7	20MHz	16QAM	20850	1RB#49	20.82	PASS
Band7	20MHz	QPSK	20850	1RB#99	21.12	PASS
Band7	20MHz	16QAM	20850	1RB#99	20.71	PASS
Band7	20MHz	QPSK	20850	50RB#0	20.51	PASS
Band7	20MHz	16QAM	20850	50RB#0	19.82	PASS
Band7	20MHz	QPSK	20850	50RB#25	20.57	PASS
Band7	20MHz	16QAM	20850	50RB#25	19.84	PASS
Band7	20MHz	QPSK	20850	50RB#50	20.52	PASS
Band7	20MHz	16QAM	20850	50RB#50	19.75	PASS
Band7	20MHz	QPSK	20850	100RB#0	20.60	PASS
Band7	20MHz	16QAM	20850	100RB#0	19.69	PASS
Band7	20MHz	QPSK	21100	1RB#0	21.03	PASS
Band7	20MHz	16QAM	21100	1RB#0	21.68	PASS
Band7	20MHz	QPSK	21100	1RB#49	20.95	PASS
Band7	20MHz	16QAM	21100	1RB#49	21.50	PASS
Band7	20MHz	QPSK	21100	1RB#99	20.91	PASS
Band7	20MHz	16QAM	21100	1RB#99	21.37	PASS
Band7	20MHz	QPSK	21100	50RB#0	20.41	PASS
Band7	20MHz	16QAM	21100	50RB#0	19.61	PASS
Band7	20MHz	QPSK	21100	50RB#25	20.38	PASS
Band7	20MHz	16QAM	21100	50RB#25	19.63	PASS
Band7	20MHz	QPSK	21100	50RB#50	20.31	PASS
Band7	20MHz	16QAM	21100	50RB#50	19.71	PASS
Band7	20MHz	QPSK	21100	100RB#0	20.49	PASS

Band7	20MHz	16QAM	21100	100RB#0	19.75	PASS
Band7	20MHz	QPSK	21350	1RB#0	20.88	PASS
Band7	20MHz	16QAM	21350	1RB#0	20.83	PASS
Band7	20MHz	QPSK	21350	1RB#49	20.83	PASS
Band7	20MHz	16QAM	21350	1RB#49	20.81	PASS
Band7	20MHz	QPSK	21350	1RB#99	20.90	PASS
Band7	20MHz	16QAM	21350	1RB#99	20.85	PASS
Band7	20MHz	QPSK	21350	50RB#0	20.29	PASS
Band7	20MHz	16QAM	21350	50RB#0	19.60	PASS
Band7	20MHz	QPSK	21350	50RB#25	20.29	PASS
Band7	20MHz	16QAM	21350	50RB#25	19.61	PASS
Band7	20MHz	QPSK	21350	50RB#50	20.45	PASS
Band7	20MHz	16QAM	21350	50RB#50	19.67	PASS
Band7	20MHz	QPSK	21350	100RB#0	20.34	PASS
Band7	20MHz	16QAM	21350	100RB#0	19.39	PASS

FDD-LTE Band 12:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.11	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	22.43	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.10	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	22.39	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.04	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	22.34	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.16	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.46	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.15	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.45	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.11	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.42	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.53	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.94	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.48	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.12	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	21.52	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.22	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.54	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.28	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.41	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.26	PASS

Band12	1.4MHz	16QAM	23095	3RB#1	21.28	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.18	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.32	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.61	PASS
Band12	1.4MHz	16QAM	23095	6RB#0	20.86	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.12	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	22.41	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.12	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.49	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.13	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	22.40	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.05	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.11	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.07	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.12	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.16	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.17	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.70	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.77	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.08	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.87	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.09	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.82	PASS
Band12	3MHz	QPSK	23025	1RB#14	21.99	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.74	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.74	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.94	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.76	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.95	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.74	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.87	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.54	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.70	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.46	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.28	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.57	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.14	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.52	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.46	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.80	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.58	PASS

Band12	3MHz	16QAM	23095	8RB#4	20.77	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.68	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.91	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.65	PASS
Band12	3MHz	16QAM	23095	15RB#0	20.62	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.22	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.98	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.15	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.88	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.16	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.97	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.67	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.72	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.70	PASS
Band12	3MHz	16QAM	23165	8RB#4	21.00	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.71	PASS
Band12	3MHz	16QAM	23165	8RB#7	21.02	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.70	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.72	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.20	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.65	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.02	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.57	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.04	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.54	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.77	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.73	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.81	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.74	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.63	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.56	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.51	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.78	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.09	PASS
Band12	5MHz	16QAM	23095	1RB#0	22.33	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.21	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.36	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.20	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.81	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.57	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.66	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.57	PASS

Band12	5MHz	16QAM	23095	12RB#6	20.73	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.68	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.74	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.66	PASS
Band12	5MHz	16QAM	23095	25RB#0	20.70	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.17	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.66	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.08	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.69	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.22	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.69	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.74	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.76	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.65	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.78	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.69	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.66	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.72	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.75	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.14	PASS
Band12	10MHz	16QAM	23060	1RB#0	22.35	PASS
Band12	10MHz	QPSK	23060	1RB#24	21.94	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.12	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.07	PASS
Band12	10MHz	16QAM	23060	1RB#49	22.23	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.65	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.60	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.68	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.71	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.66	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.65	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.60	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.50	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.12	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.96	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.21	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.08	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.25	PASS
Band12	10MHz	16QAM	23095	1RB#49	22.00	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.60	PASS
Band12	10MHz	16QAM	23095	25RB#0	20.84	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.60	PASS

Band12	10MHz	16QAM	23095	25RB#12	20.85	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.58	PASS
Band12	10MHz	16QAM	23095	25RB#25	20.82	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.71	PASS
Band12	10MHz	16QAM	23095	50RB#0	20.75	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.13	PASS
Band12	10MHz	16QAM	23130	1RB#0	22.77	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.11	PASS
Band12	10MHz	16QAM	23130	1RB#24	22.79	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.25	PASS
Band12	10MHz	16QAM	23130	1RB#49	22.79	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.68	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.80	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.59	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.83	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.62	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.73	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.69	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.78	PASS

FDD-LTE Band 13:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.40	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.15	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.26	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.03	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.34	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.12	PASS
Band13	5MHz	QPSK	23205	12RB#0	21.81	PASS
Band13	5MHz	16QAM	23205	12RB#0	20.85	PASS
Band13	5MHz	QPSK	23205	12RB#6	21.76	PASS
Band13	5MHz	16QAM	23205	12RB#6	20.96	PASS
Band13	5MHz	QPSK	23205	12RB#13	21.75	PASS
Band13	5MHz	16QAM	23205	12RB#13	20.98	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.78	PASS
Band13	5MHz	16QAM	23205	25RB#0	20.66	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.12	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.88	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.25	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.98	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.13	PASS

Band13	5MHz	16QAM	23230	1RB#24	21.88	PASS
Band13	5MHz	QPSK	23230	12RB#0	21.69	PASS
Band13	5MHz	16QAM	23230	12RB#0	20.62	PASS
Band13	5MHz	QPSK	23230	12RB#6	21.70	PASS
Band13	5MHz	16QAM	23230	12RB#6	20.78	PASS
Band13	5MHz	QPSK	23230	12RB#13	21.76	PASS
Band13	5MHz	16QAM	23230	12RB#13	20.83	PASS
Band13	5MHz	QPSK	23230	25RB#0	21.84	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.22	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.25	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.76	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.23	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.66	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.01	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.55	PASS
Band13	5MHz	QPSK	23255	12RB#0	21.63	PASS
Band13	5MHz	16QAM	23255	12RB#0	20.69	PASS
Band13	5MHz	QPSK	23255	12RB#6	21.68	PASS
Band13	5MHz	16QAM	23255	12RB#6	20.70	PASS
Band13	5MHz	QPSK	23255	12RB#13	21.50	PASS
Band13	5MHz	16QAM	23255	12RB#13	20.91	PASS
Band13	5MHz	QPSK	23255	25RB#0	21.70	PASS
Band13	5MHz	16QAM	23255	25RB#0	20.80	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.45	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.28	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.23	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.29	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.11	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.10	PASS
Band13	10MHz	QPSK	23230	25RB#0	21.68	PASS
Band13	10MHz	16QAM	23230	25RB#0	20.78	PASS
Band13	10MHz	QPSK	23230	25RB#12	21.72	PASS
Band13	10MHz	16QAM	23230	25RB#12	20.79	PASS
Band13	10MHz	QPSK	23230	25RB#25	21.75	PASS
Band13	10MHz	16QAM	23230	25RB#25	20.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	21.81	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.29	PASS

FDD-LTE Band 17:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.25	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.19	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.25	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.34	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.34	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.50	PASS
Band17	5MHz	QPSK	23755	12RB#0	21.66	PASS
Band17	5MHz	16QAM	23755	12RB#0	20.67	PASS
Band17	5MHz	QPSK	23755	12RB#6	21.64	PASS
Band17	5MHz	16QAM	23755	12RB#6	20.56	PASS
Band17	5MHz	QPSK	23755	12RB#13	21.59	PASS
Band17	5MHz	16QAM	23755	12RB#13	20.65	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.57	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.71	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.08	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.31	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.15	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.25	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.14	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.32	PASS
Band17	5MHz	QPSK	23790	12RB#0	21.73	PASS
Band17	5MHz	16QAM	23790	12RB#0	20.77	PASS
Band17	5MHz	QPSK	23790	12RB#6	21.65	PASS
Band17	5MHz	16QAM	23790	12RB#6	20.72	PASS
Band17	5MHz	QPSK	23790	12RB#13	21.65	PASS
Band17	5MHz	16QAM	23790	12RB#13	20.83	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.58	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.68	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.19	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.63	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.09	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.68	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.23	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.64	PASS
Band17	5MHz	QPSK	23825	12RB#0	21.72	PASS
Band17	5MHz	16QAM	23825	12RB#0	20.75	PASS
Band17	5MHz	QPSK	23825	12RB#6	21.63	PASS
Band17	5MHz	16QAM	23825	12RB#6	20.76	PASS
Band17	5MHz	QPSK	23825	12RB#13	21.69	PASS

Band17	5MHz	16QAM	23825	12RB#13	20.65	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.71	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.74	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.09	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.19	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.03	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.24	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.06	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.29	PASS
Band17	10MHz	QPSK	23780	25RB#0	21.61	PASS
Band17	10MHz	16QAM	23780	25RB#0	20.59	PASS
Band17	10MHz	QPSK	23780	25RB#12	21.54	PASS
Band17	10MHz	16QAM	23780	25RB#12	20.60	PASS
Band17	10MHz	QPSK	23780	25RB#25	21.60	PASS
Band17	10MHz	16QAM	23780	25RB#25	20.72	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.68	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.72	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.16	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.99	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.16	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.01	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.19	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.95	PASS
Band17	10MHz	QPSK	23790	25RB#0	21.73	PASS
Band17	10MHz	16QAM	23790	25RB#0	20.82	PASS
Band17	10MHz	QPSK	23790	25RB#12	21.60	PASS
Band17	10MHz	16QAM	23790	25RB#12	20.83	PASS
Band17	10MHz	QPSK	23790	25RB#25	21.73	PASS
Band17	10MHz	16QAM	23790	25RB#25	20.85	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.74	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.76	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.11	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.75	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.10	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.72	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.20	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.73	PASS
Band17	10MHz	QPSK	23800	25RB#0	21.68	PASS
Band17	10MHz	16QAM	23800	25RB#0	20.83	PASS
Band17	10MHz	QPSK	23800	25RB#12	21.60	PASS
Band17	10MHz	16QAM	23800	25RB#12	20.85	PASS
Band17	10MHz	QPSK	23800	25RB#25	21.82	PASS

Band17	10MHz	16QAM	23800	25RB#25	20.75	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.57	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.81	PASS

FDD-LTE Band 66:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	21.86	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.83	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	21.91	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	21.92	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	21.93	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.93	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	21.86	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	21.86	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	21.84	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	21.82	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	21.88	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.89	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.87	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	21.86	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	21.83	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.15	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	21.68	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	21.21	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	21.43	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	20.97	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	21.63	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	21.01	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	21.60	PASS
Band66	1.4MHz	16QAM	132322	3RB#1	21.00	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	21.51	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	20.90	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.10	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.83	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	21.93	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	21.64	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	21.91	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	21.66	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	21.85	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	21.38	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	22.07	PASS

Band66	1.4MHz	16QAM	132665	3RB#0	21.07	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	22.03	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	21.10	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	21.96	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	21.12	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	21.46	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	20.72	PASS
Band66	3MHz	QPSK	131987	1RB#0	21.99	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.80	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.00	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.82	PASS
Band66	3MHz	QPSK	131987	1RB#14	21.94	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.83	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.57	PASS
Band66	3MHz	16QAM	131987	8RB#0	20.88	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.52	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.89	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.58	PASS
Band66	3MHz	16QAM	131987	8RB#7	20.83	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.56	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.78	PASS
Band66	3MHz	QPSK	132322	1RB#0	21.80	PASS
Band66	3MHz	16QAM	132322	1RB#0	21.15	PASS
Band66	3MHz	QPSK	132322	1RB#8	21.48	PASS
Band66	3MHz	16QAM	132322	1RB#8	21.04	PASS
Band66	3MHz	QPSK	132322	1RB#14	21.21	PASS
Band66	3MHz	16QAM	132322	1RB#14	20.78	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.07	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.78	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.08	PASS
Band66	3MHz	16QAM	132322	8RB#4	20.79	PASS
Band66	3MHz	QPSK	132322	8RB#7	20.94	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.99	PASS
Band66	3MHz	QPSK	132322	15RB#0	20.98	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.70	PASS
Band66	3MHz	QPSK	132657	1RB#0	22.01	PASS
Band66	3MHz	16QAM	132657	1RB#0	21.75	PASS
Band66	3MHz	QPSK	132657	1RB#8	21.98	PASS
Band66	3MHz	16QAM	132657	1RB#8	21.62	PASS
Band66	3MHz	QPSK	132657	1RB#14	21.73	PASS
Band66	3MHz	16QAM	132657	1RB#14	21.30	PASS
Band66	3MHz	QPSK	132657	8RB#0	21.53	PASS

Band66	3MHz	16QAM	132657	8RB#0	20.80	PASS
Band66	3MHz	QPSK	132657	8RB#4	21.59	PASS
Band66	3MHz	16QAM	132657	8RB#4	20.82	PASS
Band66	3MHz	QPSK	132657	8RB#7	21.55	PASS
Band66	3MHz	16QAM	132657	8RB#7	20.95	PASS
Band66	3MHz	QPSK	132657	15RB#0	21.48	PASS
Band66	3MHz	16QAM	132657	15RB#0	20.71	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.08	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.57	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.02	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.51	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.06	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.50	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.52	PASS
Band66	5MHz	16QAM	131997	12RB#0	20.64	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.56	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.77	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.57	PASS
Band66	5MHz	16QAM	131997	12RB#13	20.62	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.54	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.75	PASS
Band66	5MHz	QPSK	132322	1RB#0	21.73	PASS
Band66	5MHz	16QAM	132322	1RB#0	20.97	PASS
Band66	5MHz	QPSK	132322	1RB#12	21.62	PASS
Band66	5MHz	16QAM	132322	1RB#12	21.07	PASS
Band66	5MHz	QPSK	132322	1RB#24	20.90	PASS
Band66	5MHz	16QAM	132322	1RB#24	20.38	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.05	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.64	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.06	PASS
Band66	5MHz	16QAM	132322	12RB#6	20.65	PASS
Band66	5MHz	QPSK	132322	12RB#13	20.79	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.60	PASS
Band66	5MHz	QPSK	132322	25RB#0	20.91	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.77	PASS
Band66	5MHz	QPSK	132647	1RB#0	22.08	PASS
Band66	5MHz	16QAM	132647	1RB#0	21.59	PASS
Band66	5MHz	QPSK	132647	1RB#12	22.06	PASS
Band66	5MHz	16QAM	132647	1RB#12	21.49	PASS
Band66	5MHz	QPSK	132647	1RB#24	21.52	PASS
Band66	5MHz	16QAM	132647	1RB#24	20.99	PASS
Band66	5MHz	QPSK	132647	12RB#0	21.53	PASS

Band66	5MHz	16QAM	132647	12RB#0	20.67	PASS
Band66	5MHz	QPSK	132647	12RB#6	21.46	PASS
Band66	5MHz	16QAM	132647	12RB#6	20.58	PASS
Band66	5MHz	QPSK	132647	12RB#13	21.53	PASS
Band66	5MHz	16QAM	132647	12RB#13	20.63	PASS
Band66	5MHz	QPSK	132647	25RB#0	21.53	PASS
Band66	5MHz	16QAM	132647	25RB#0	20.78	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.02	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.71	PASS
Band66	10MHz	QPSK	132022	1RB#24	21.97	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.08	PASS
Band66	10MHz	QPSK	132022	1RB#49	21.98	PASS
Band66	10MHz	16QAM	132022	1RB#49	22.02	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.63	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.61	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.56	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.60	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.41	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.58	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.50	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.70	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.00	PASS
Band66	10MHz	16QAM	132322	1RB#0	21.59	PASS
Band66	10MHz	QPSK	132322	1RB#24	21.53	PASS
Band66	10MHz	16QAM	132322	1RB#24	21.08	PASS
Band66	10MHz	QPSK	132322	1RB#49	21.41	PASS
Band66	10MHz	16QAM	132322	1RB#49	20.97	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.26	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.64	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.31	PASS
Band66	10MHz	16QAM	132322	25RB#12	20.65	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.03	PASS
Band66	10MHz	16QAM	132322	25RB#25	20.59	PASS
Band66	10MHz	QPSK	132322	50RB#0	21.13	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.62	PASS
Band66	10MHz	QPSK	132622	1RB#0	21.99	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.02	PASS
Band66	10MHz	QPSK	132622	1RB#24	21.92	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.07	PASS
Band66	10MHz	QPSK	132622	1RB#49	21.92	PASS
Band66	10MHz	16QAM	132622	1RB#49	21.57	PASS
Band66	10MHz	QPSK	132622	25RB#0	21.39	PASS

Band66	10MHz	16QAM	132622	25RB#0	20.53	PASS
Band66	10MHz	QPSK	132622	25RB#12	21.51	PASS
Band66	10MHz	16QAM	132622	25RB#12	20.57	PASS
Band66	10MHz	QPSK	132622	25RB#25	21.39	PASS
Band66	10MHz	16QAM	132622	25RB#25	20.54	PASS
Band66	10MHz	QPSK	132622	50RB#0	21.48	PASS
Band66	10MHz	16QAM	132622	50RB#0	20.58	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.09	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.99	PASS
Band66	15MHz	QPSK	132047	1RB#38	21.97	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.07	PASS
Band66	15MHz	QPSK	132047	1RB#74	21.86	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.96	PASS
Band66	15MHz	QPSK	132047	38RB#0	21.53	PASS
Band66	15MHz	16QAM	132047	38RB#0	21.52	PASS
Band66	15MHz	QPSK	132047	38RB#18	21.52	PASS
Band66	15MHz	16QAM	132047	38RB#18	21.52	PASS
Band66	15MHz	QPSK	132047	38RB#37	21.52	PASS
Band66	15MHz	16QAM	132047	38RB#37	21.52	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.52	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.65	PASS
Band66	15MHz	QPSK	132322	1RB#0	21.95	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.00	PASS
Band66	15MHz	QPSK	132322	1RB#38	21.55	PASS
Band66	15MHz	16QAM	132322	1RB#38	21.08	PASS
Band66	15MHz	QPSK	132322	1RB#74	21.20	PASS
Band66	15MHz	16QAM	132322	1RB#74	20.75	PASS
Band66	15MHz	QPSK	132322	38RB#0	21.24	PASS
Band66	15MHz	16QAM	132322	38RB#0	21.23	PASS
Band66	15MHz	QPSK	132322	38RB#18	21.23	PASS
Band66	15MHz	16QAM	132322	38RB#18	21.22	PASS
Band66	15MHz	QPSK	132322	38RB#37	21.22	PASS
Band66	15MHz	16QAM	132322	38RB#37	21.22	PASS
Band66	15MHz	QPSK	132322	75RB#0	21.21	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.68	PASS
Band66	15MHz	QPSK	132597	1RB#0	21.97	PASS
Band66	15MHz	16QAM	132597	1RB#0	21.71	PASS
Band66	15MHz	QPSK	132597	1RB#38	21.86	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.03	PASS
Band66	15MHz	QPSK	132597	1RB#74	21.76	PASS
Band66	15MHz	16QAM	132597	1RB#74	21.30	PASS
Band66	15MHz	QPSK	132597	38RB#0	21.50	PASS

Band66	15MHz	16QAM	132597	38RB#0	21.51	PASS
Band66	15MHz	QPSK	132597	38RB#18	21.38	PASS
Band66	15MHz	16QAM	132597	38RB#18	21.52	PASS
Band66	15MHz	QPSK	132597	38RB#37	21.52	PASS
Band66	15MHz	16QAM	132597	38RB#37	21.52	PASS
Band66	15MHz	QPSK	132597	75RB#0	21.52	PASS
Band66	15MHz	16QAM	132597	75RB#0	20.47	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.27	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.78	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.19	PASS
Band66	20MHz	16QAM	132072	1RB#49	21.90	PASS
Band66	20MHz	QPSK	132072	1RB#99	21.91	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.67	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.54	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.87	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.54	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.80	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.32	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.56	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.45	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.60	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.16	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.28	PASS
Band66	20MHz	QPSK	132322	1RB#49	21.46	PASS
Band66	20MHz	16QAM	132322	1RB#49	20.87	PASS
Band66	20MHz	QPSK	132322	1RB#99	21.92	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.35	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.60	PASS
Band66	20MHz	16QAM	132322	50RB#0	20.79	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.68	PASS
Band66	20MHz	16QAM	132322	50RB#25	20.81	PASS
Band66	20MHz	QPSK	132322	50RB#50	21.00	PASS
Band66	20MHz	16QAM	132322	50RB#50	20.67	PASS
Band66	20MHz	QPSK	132322	100RB#0	21.27	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.73	PASS
Band66	20MHz	QPSK	132572	1RB#0	21.85	PASS
Band66	20MHz	16QAM	132572	1RB#0	21.03	PASS
Band66	20MHz	QPSK	132572	1RB#49	22.04	PASS
Band66	20MHz	16QAM	132572	1RB#49	21.75	PASS
Band66	20MHz	QPSK	132572	1RB#99	21.98	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.65	PASS
Band66	20MHz	QPSK	132572	50RB#0	21.35	PASS

Band66	20MHz	16QAM	132572	50RB#0	20.62	PASS
Band66	20MHz	QPSK	132572	50RB#25	21.42	PASS
Band66	20MHz	16QAM	132572	50RB#25	20.64	PASS
Band66	20MHz	QPSK	132572	50RB#50	21.34	PASS
Band66	20MHz	16QAM	132572	50RB#50	20.56	PASS
Band66	20MHz	QPSK	132572	100RB#0	21.31	PASS
Band66	20MHz	16QAM	132572	100RB#0	20.54	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.
2. Per KDB941225 D05 v02r05, the procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
3. Per KDB941225 D05 v02r05, For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations, and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg. Otherwise, SAR is measured for the highest output power channel; and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
4. Per KDB941225 D05 v02r05, for each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in 5.2.1, 5.2.2, and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.

WLAN(2.4GHz)					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11b	11Mbps	CH 01	2412	13.01	16.0
		CH 06	2437	15.40	16.0
		CH 11	2462	15.75	16.0
802.11g	54Mbps	CH 01	2412	12.28	14.0
		CH 06	2437	12.45	14.0
		CH 11	2462	13.05	14.0
802.11n-HT20	MCS7	CH 01	2412	12.17	13.0
		CH 06	2437	11.03	13.0
		CH 11	2462	12.55	13.0

Remark:

1. Per KDB 248227 D01 v02r02, for 802.11b DSSS SAR measurements, DSSS SAR procedure applies to fixed exposure test position and initial test position procedure applies to multiple exposure test positions.
2. Per KDB 248227 D01 v02r02, For 802.11b DSSS SAR measurements ,when the reported SAR of the highest measured maximum output power channel (see 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration. When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.
- 3 .For OFDM modes (802.11g/n), SAR is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and it is ≤ 1.2 W/kg.
4. Per KDB 248227 D01 v02r02, when multiple channel bandwidth configurations in a frequency band have the same specified maximum output power, the initial test configuration is determined by applying the following steps sequentially.
 - 1) The largest channel bandwidth configuration is selected among the multiple configurations in a frequency band with the same specified maximum output power.
 - 2) If multiple configurations have the same specified maximum output power and largest channel bandwidth, the lowest order modulation among the largest channel bandwidth configurations is selected.
 - 3) If multiple configurations have the same specified maximum output power, largest channel bandwidth and lowest order modulation, the lowest data rate configuration among these configurations is selected.
 - 4) When multiple transmission modes (802.11a/g/n/ac) have the same specified maximum output power, largest channel bandwidth, lowest order modulation and lowest data rate, the lowest order 802.11 mode is selected; i.e., 802.11a is chosen over 802.11n then 802.11ac or 802.11g is chosen over 802.11n.

Bluetooth - Maximum Average Power			
Test Mode	Data Rate	Conducted Power(dBm)	Tune-up power (dBm)
GFSK	1Mbps	4.710	5.0
$\pi/4$ DQPSK	2Mbps	3.059	5.0
8DPSK	3Mbps	3.453	5.0

Bluetooth - Maximum Average Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power(dBm)	Tune-up power (dBm)
BLE	1Mbps	CH 00	2402	0.971	4.0
		CH 19	2440	3.811	4.0
		CH 39	2480	3.688	4.0

Remark:

Bluetooth maximum output power is 4.710dBm and Maximum Tune-Up output power is 5.0dBm. Per KDB 447498 D01 V06, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f}(\text{GHz})] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,16 where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- The result is rounded to one decimal place for comparison

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	Result	Limit
5.0	3.16	5	2.48	0.995	3

The exclusion threshold is $0.995 < 3$, therefore, the RF exposure evaluation is not required.

9.2 Test Results for Standalone SAR Test

Head SAR

GSM850 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Right Cheek	190	836.6	32.17	32.5	1.079	0.136	0.147
	GSM	Right Tilted	190	836.6	32.17	32.5	1.079	0.117	0.126
1.	GSM	Left Cheek	190	836.6	32.17	32.5	1.079	0.155	0.167
	GSM	Left Tilted	190	836.6	32.17	32.5	1.079	0.132	0.142

GPRS850 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GPRS_2TX	Right Cheek	190	836.6	30.05	30.5	1.109	0.124	0.138
	GPRS_2TX	Right Tilted	190	836.6	30.05	30.5	1.109	0.109	0.121
2.	GPRS_2TX	Left Cheek	190	836.6	30.05	30.5	1.109	0.132	0.146
	GPRS_2TX	Left Tilted	190	836.6	30.05	30.5	1.109	0.115	0.128

GSM1900 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GSM	Right Cheek	512	1850.2	28.73	29.0	1.064	0.040	0.043
	GSM	Right Tilted	512	1850.2	28.73	29.0	1.064	0.032	0.034
3.	GSM	Left Cheek	512	1850.2	28.73	29.0	1.064	0.074	0.079
	GSM	Left Tilted	512	1850.2	28.73	29.0	1.064	0.068	0.072

GPRS1900 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	GPRS_3TX	Right Cheek	512	1850.2	24.40	24.5	1.023	0.042	0.043
	GPRS_3TX	Right Tilted	512	1850.2	24.40	24.5	1.023	0.037	0.038
4.	GPRS_3TX	Left Cheek	512	1850.2	24.40	24.5	1.023	0.065	0.067
	GPRS_3TX	Left Tilted	512	1850.2	24.40	24.5	1.023	0.059	0.060

WCDMA Band 2 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	9262	1852.4	23.16	23.5	1.081	0.072	0.078
	RMC	Right Tilted	9262	1852.4	23.16	23.5	1.081	0.065	0.070
5.	RMC	Left Cheek	9262	1852.4	23.16	23.5	1.081	0.089	0.096
	RMC	Left Tilted	9262	1852.4	23.16	23.5	1.081	0.081	0.088

WCDMA Band 4 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	1413	1732.6	23.02	23.5	1.117	0.051	0.057
	RMC	Right Tilted	1413	1732.6	23.02	23.5	1.117	0.045	0.050
6.	RMC	Left Cheek	1413	1732.6	23.02	23.5	1.117	0.068	0.076
	RMC	Left Tilted	1413	1732.6	23.02	23.5	1.117	0.062	0.069

WCDMA Band 5 – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	4132	826.4	23.09	23.5	1.099	0.108	0.119
	RMC	Right Tilted	4132	826.4	23.09	23.5	1.099	0.093	0.102
7.	RMC	Left Cheek	4132	826.4	23.09	23.5	1.099	0.111	0.122
	RMC	Left Tilted	4132	826.4	23.09	23.5	1.099	0.096	0.106

LTE Band 2– Head SAR Test								
P I o t N o.	Mode	Test Position	Frequ ency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	16QAM 20MHz 1RB	Right Cheek	1880	21.91	22.0	1.021	1.164	1.188
	16QAM 20MHz 1RB	Right Tilted	1880	21.91	22.0	1.021	1.089	1.112
	16QAM 20MHz 1RB	Left Cheek	1880	21.91	22.0	1.021	0.741	0.757
	16QAM 20MHz 1RB	Left Tilted	1880	21.91	22.0	1.021	0.654	0.668
8.	16QAM 20MHz 1RB	Right Cheek	1860	21.51	22.0	1.119	1.199	1.342
	16QAM 20MHz 1RB	Right Tilted	1860	21.51	22.0	1.119	1.142	1.278
	16QAM 20MHz 1RB	Right Cheek	1900	21.34	22.0	1.164	1.050	1.175
	16QAM 20MHz 1RB	Right Tilted	1900	21.34	22.0	1.164	1.014	1.170
	16QAM 20MHz 50%RB	Right Cheek	1880	21.91	22.0	1.021	1.122	1.145
	16QAM 20MHz 50%RB	Right Tilted	1880	21.91	22.0	1.021	1.060	1.082
	16QAM 20MHz 50%RB	Left Cheek	1880	21.91	22.0	1.021	0.718	0.733
	16QAM 20MHz 50%RB	Left Tilted	1880	21.91	22.0	1.021	0.654	0.668
	16QAM 20MHz 50%RB	Right Cheek	1860	21.51	22.0	1.119	1.137	1.273
	16QAM 20MHz 50%RB	Right Tilted	1860	21.51	22.0	1.119	1.103	1.235
	16QAM 20MHz 50%RB	Right Cheek	1900	21.34	22.0	1.164	1.011	1.132
	16QAM 20MHz 50%RB	Right Tilted	1900	21.34	22.0	1.164	0.981	1.132

LTE Band 4– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Right Cheek	1720	22.40	22.5	1.023	1.026	1.050
	QPSK 20MHz 1RB	Right Tilted	1720	22.40	22.5	1.023	1.001	1.024
	QPSK 20MHz 1RB	Left Cheek	1720	22.40	22.5	1.023	0.742	0.759
	QPSK 20MHz 1RB	Left Tilted	1720	22.40	22.5	1.023	0.687	0.703
9.	QPSK 20MHz 1RB	Right Cheek	1732.5	21.88	22.5	1.153	1.135	1.309
	QPSK 20MHz 1RB	Right Tilted	1732.5	21.88	22.5	1.153	1.086	1.253
	QPSK 20MHz 1RB	Right Cheek	1745	22.01	22.5	1.119	1.152	1.290
	QPSK 20MHz 1RB	Right Tilted	1732.5	21.88	22.5	1.153	1.114	1.285
	QPSK 20MHz 50%RB	Right Cheek	1720	22.40	22.5	1.023	0.998	1.021
	QPSK 20MHz 50%RB	Right Tilted	1720	22.40	22.5	1.023	0.971	0.994
	QPSK 20MHz 50%RB	Left Cheek	1720	22.40	22.5	1.023	0.723	0.740
	QPSK 20MHz 50%RB	Left Tilted	1720	22.40	22.5	1.023	0.685	0.701
	QPSK 20MHz 50%RB	Right Cheek	1732.5	21.88	22.5	1.153	1.062	1.225
	QPSK 20MHz 50%RB	Right Tilted	1732.5	21.88	22.5	1.153	1.027	1.185
	QPSK 20MHz 50%RB	Right Cheek	1745	22.01	22.5	1.119	1.111	1.244
	QPSK 20MHz 50%RB	Right Tilted	1732.5	21.88	22.5	1.153	1.084	1.250

LTE Band 5– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
10.	QPSK 10MHz 1RB	Right Cheek	829	22.39	22.5	1.026	0.088	0.090
	QPSK 10MHz 1RB	Right Tilted	829	22.39	22.5	1.026	0.080	0.082
	QPSK 10MHz 1RB	Left Cheek	829	22.39	22.5	1.026	0.052	0.053
	QPSK 10MHz 1RB	Left Tilted	829	22.39	22.5	1.026	0.049	0.050
	QPSK 10MHz 50%RB	Right Cheek	829	22.39	22.5	1.026	0.079	0.081
	QPSK 10MHz 50%RB	Right Tilted	829	22.39	22.5	1.026	0.072	0.074
	QPSK 10MHz 50%RB	Left Cheek	829	22.39	22.5	1.026	0.048	0.049
	QPSK 10MHz 50%RB	Left Tilted	829	22.39	22.5	1.026	0.042	0.043

LTE Band 7– Head SAR Test								
P I o t N o.	Mode	Test Position	Fre qu ency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	16QAM 20MHz 1RB	Right Cheek	2535	21.68	22.0	1.076	1.107	1.192
	16QAM 20MHz 1RB	Right Tilted	2535	21.68	22.0	1.076	1.012	1.089
	16QAM 20MHz 1RB	Left Cheek	2535	21.68	22.0	1.076	0.677	0.729
	16QAM 20MHz 1RB	Left Tilted	2535	21.68	22.0	1.076	0.624	0.672
11.	16QAM 20MHz 1RB	Right Cheek	2510	21.18	22.0	1.208	1.086	1.312
	16QAM 20MHz 1RB	Right Tilted	2510	21.18	22.0	1.208	1.027	1.240
	16QAM 20MHz 1RB	Right Cheek	2560	20.90	22.0	1.288	0.994	1.281
	16QAM 20MHz 1RB	Right Tilted	2560	20.90	22.0	1.288	0.931	1.199
	16QAM 20MHz 50%RB	Right Cheek	2535	21.68	22.0	1.076	1.030	1.109
	16QAM 20MHz 50%RB	Right Tilted	2535	21.68	22.0	1.076	0.998	1.074
	16QAM 20MHz 50%RB	Left Cheek	2535	21.68	22.0	1.076	0.643	0.692
	16QAM 20MHz 50%RB	Left Tilted	2535	21.68	22.0	1.076	0.602	0.648
	16QAM 20MHz 50%RB	Right Cheek	2510	21.18	22.0	1.208	1.031	1.245
	16QAM 20MHz 50%RB	Right Tilted	2510	21.18	22.0	1.208	0.998	1.205
	16QAM 20MHz 50%RB	Right Cheek	2560	20.90	22.0	1.288	0.941	1.212
	16QAM 20MHz 50%RB	Right Tilted	2560	20.90	22.0	1.288	0.906	1.167

LTE Band 12– Head SAR Test								
P I o t N o.	Mode	Test Position	Fre qu ency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
12.	16QAM 10MHz 1RB	Right Cheek	711	22.79	23.0	1.050	0.088	0.092
	16QAM 10MHz 1RB	Right Tilted	711	22.79	23.0	1.050	0.081	0.085
	16QAM 10MHz 1RB	Left Cheek	711	22.79	23.0	1.050	0.062	0.065
	16QAM 10MHz 1RB	Left Tilted	711	22.79	23.0	1.050	0.057	0.060
	16QAM 10MHz 50%RB	Right Cheek	711	22.79	23.0	1.050	0.080	0.084
	16QAM 10MHz 50%RB	Right Tilted	711	22.79	23.0	1.050	0.073	0.077
	16QAM 10MHz 50%RB	Left Cheek	711	22.79	23.0	1.050	0.058	0.061
	16QAM 10MHz 50%RB	Left Tilted	711	22.79	23.0	1.050	0.055	0.058

LTE Band 13– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
13.	QPSK 10MHz 1RB	Right Cheek	782	22.45	23.0	1.135	0.099	0.112
	QPSK 10MHz 1RB	Right Tilted	782	22.45	23.0	1.135	0.091	0.103
	QPSK 10MHz 1RB	Left Cheek	782	22.45	23.0	1.135	0.090	0.102
	QPSK 10MHz 1RB	Left Tilted	782	22.45	23.0	1.135	0.086	0.098
	QPSK 10MHz 50%RB	Right Cheek	782	22.45	23.0	1.135	0.090	0.102
	QPSK 10MHz 50%RB	Right Tilted	782	22.45	23.0	1.135	0.081	0.092
	QPSK 10MHz 50%RB	Left Cheek	782	22.45	23.0	1.135	0.085	0.096
	QPSK 10MHz 50%RB	Left Tilted	782	22.45	23.0	1.135	0.080	0.091

LTE Band 17– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
14.	16QAM 10MHz 1RB	Right Cheek	711	22.75	23.0	1.059	0.080	0.085
	6QAM 10MHz 1RB	Right Tilted	711	22.75	23.0	1.059	0.077	0.082
	6QAM 10MHz 1RB	Left Cheek	711	22.75	23.0	1.059	0.054	0.057
	6QAM 10MHz 1RB	Left Tilted	711	22.75	23.0	1.059	0.050	0.053
	16QAM 10MHz 50%RB	Right Cheek	711	22.75	23.0	1.059	0.075	0.079
	16QAM 10MHz 50%RB	Right Tilted	711	22.75	23.0	1.059	0.069	0.073
	16QAM 10MHz 50%RB	Left Cheek	711	22.75	23.0	1.059	0.049	0.052
	16QAM 10MHz 50%RB	Left Tilted	711	22.75	23.0	1.059	0.042	0.044

LTE Band 66– Head SAR Test								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
15.	QPSK 20MHz 1RB	Right Cheek	1720	22.27	22.5	1.054	1.140	1.202
	QPSK 20MHz 1RB	Right Tilted	1720	22.27	22.5	1.054	1.045	1.102
	QPSK 20MHz 1RB	Left Cheek	1720	22.27	22.5	1.054	0.832	0.877
	QPSK 20MHz 1RB	Left Tilted	1720	22.27	22.5	1.054	0.753	0.794
	QPSK 20MHz 1RB	Right Cheek	1745	22.16	22.5	1.081	1.007	1.089
	QPSK 20MHz 1RB	Right Tilted	1745	22.16	22.5	1.081	0.975	1.054
	QPSK 20MHz 1RB	Left Cheek	1745	22.16	22.5	1.081	0.739	0.799
	QPSK 20MHz 1RB	Left Tilted	1745	22.16	22.5	1.081	0.698	0.755
	QPSK 20MHz 1RB	Right Cheek	1770	22.04	22.5	1.112	1.050	1.167
	QPSK 20MHz 1RB	Right Tilted	1770	22.04	22.5	1.112	1.001	1.113
	QPSK 20MHz 1RB	Left Cheek	1770	22.04	22.5	1.112	0.818	0.909
	QPSK 20MHz 1RB	Left Tilted	1770	22.04	22.5	1.112	0.753	0.837
	QPSK 20MHz 50%RB	Right Cheek	1720	22.27	22.5	1.054	1.086	1.145
	QPSK 20MHz 50%RB	Right Tilted	1720	22.27	22.5	1.054	1.005	1.060
	QPSK 20MHz 50%RB	Left Cheek	1720	22.27	22.5	1.054	0.793	0.836
	QPSK 20MHz 50%RB	Left Tilted	1720	22.27	22.5	1.054	0.723	0.762
	QPSK 20MHz 50%RB	Right Cheek	1745	22.16	22.5	1.081	0.979	1.059
	QPSK 20MHz 50%RB	Right Tilted	1745	22.16	22.5	1.081	0.851	0.920
	QPSK 20MHz 50%RB	Left Cheek	1745	22.16	22.5	1.081	0.702	0.759
	QPSK 20MHz 50%RB	Left Tilted	1745	22.16	22.5	1.081	0.673	0.728
	QPSK 20MHz 50%RB	Right Cheek	1770	22.04	22.5	1.112	1.021	1.135
	QPSK 20MHz 50%RB	Right Tilted	1770	22.04	22.5	1.112	0.984	1.094
	QPSK 20MHz 50%RB	Left Cheek	1770	22.04	22.5	1.112	0.801	0.890
	QPSK 20MHz 50%RB	Left Tilted	1770	22.04	22.5	1.112	0.721	0.802

WLAN 2.4GHz – Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR1g (W/kg)	Scaled SAR1g (W/kg)
			CH.	MHz					
	802.11b	Right Cheek	11	2462	15.75	16.0	1.059	0.147	0.156
	802.11b	Right Tilted	11	2462	15.75	16.0	1.059	0.135	0.143
16.	802.11b	Left Cheek	11	2462	15.75	16.0	1.059	0.271	0.287
	802.11b	Left Tilted	11	2462	15.75	16.0	1.059	0.268	0.284

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.

Body-worn SAR

GSM850 – Body 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					
17.	GSM	Back	190	836.6	32.17	32.5	1.079	0.211	0.228
	GSM	Front	190	836.6	32.17	32.5	1.079	0.108	0.117

GSM1900 – Body 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					
18.	GSM	Back	512	1850.2	28.73	29.0	1.064	0.362	0.385
	GSM	Front	512	1850.2	28.73	29.0	1.064	0.173	0.184

WCDMA Band 2 – Body 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					
19.	RMC 12.2k	Back Side	9262	1852.4	23.16	23.5	1.081	0.654	0.707
	RMC 12.2k	Front Face	9262	1852.4	23.16	23.5	1.081	0.293	0.317

WCDMA Band 4 – Body 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					
20.	RMC 12.2k	Back Side	1413	1732.6	23.02	23.5	1.117	0.527	0.589
	RMC 12.2k	Front Face	1413	1732.6	23.02	23.5	1.117	0.188	0.210

WCDMA Band 5 – Body 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					
21.	RMC 12.2k	Back Side	4132	826.4	23.09	23.5	1.099	0.171	0.188
	RMC 12.2k	Front Side	4132	826.4	23.09	23.5	1.099	0.073	0.080

LTE Band 2–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	16QAM 20MHz 1RB	Back Side	1880	21.91	22.0	1.021	0.496	0.506
22.	16QAM 20MHz 1RB	Front Side	1880	21.91	22.0	1.021	0.581	0.593
	16QAM 20MHz 50%RB	Back Side	1880	21.91	22.0	1.021	0.485	0.495
	16QAM 20MHz 50%RB	Front Side	1880	21.91	22.0	1.021	0.563	0.575

LTE Band 4–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
23.	QPSK 20MHz 1RB	Back Side	1720	22.40	22.5	1.023	0.327	0.335
	QPSK 20MHz 1RB	Front Side	1720	22.40	22.5	1.023	0.313	0.320
	QPSK 20MHz 50%RB	Back Side	1720	22.40	22.5	1.023	0.312	0.319
	QPSK 20MHz 50%RB	Front Side	1720	22.40	22.5	1.023	0.300	0.307

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
24.	QPSK 10MHz 1RB	Back Side	829	22.39	22.5	1.026	0.184	0.189
	QPSK 10MHz 1RB	Front Side	829	22.39	22.5	1.026	0.091	0.093
	QPSK 10MHz 50%RB	Back Side	829	22.39	22.5	1.026	0.147	0.151
	QPSK 10MHz 50%RB	Front Side	829	22.39	22.5	1.026	0.084	0.086

LTE Band 7–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
25.	16QAM 20MHz 1RB	Back Side	2535	21.68	22.0	1.076	0.709	0.763
	16QAM 20MHz 1RB	Front Side	2535	21.68	22.0	1.076	0.491	0.529
	16QAM 20MHz 50%RB	Back Side	2535	21.68	22.0	1.076	0.689	0.742
	16QAM 20MHz 50%RB	Front Side	2535	21.68	22.0	1.076	0.487	0.524

LTE Band 12–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
26.	16QAM 10MHz 1RB	Back Side	711	22.79	23.0	1.050	0.133	0.140
	16QAM 10MHz 1RB	Front Side	711	22.79	23.0	1.050	0.091	0.096
	16QAM 10MHz 50%RB	Back Side	711	22.79	23.0	1.050	0.124	0.130
	16QAM 10MHz 50%RB	Front Side	711	22.79	23.0	1.050	0.086	0.090

LTE Band 13–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
27.	QPSK 10MHz 1RB	Back Side	782	22.45	23.0	1.135	0.233	0.264
	QPSK 10MHz 1RB	Front Side	782	22.45	23.0	1.135	0.059	0.067
	QPSK 10MHz 50%RB	Back Side	782	22.45	23.0	1.135	0.200	0.227
	QPSK 10MHz 50%RB	Front Side	782	22.45	23.0	1.135	0.045	0.051

LTE Band 17–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
28.	16QAM 10MHz 1RB	Back Side	711	22.75	23.0	1.059	0.125	0.132
	16QAM 10MHz 1RB	Front Side	711	22.75	23.0	1.059	0.092	0.097
	16QAM 10MHz 50%RB	Back Side	711	22.75	23.0	1.059	0.112	0.119
	16QAM 10MHz 50%RB	Front Side	711	22.75	23.0	1.059	0.085	0.090

LTE Band 66–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
29.	QPSK 20MHz 1RB	Back Side	1720	22.27	22.5	1.054	0.424	0.447
	QPSK 20MHz 1RB	Front Side	1720	22.27	22.5	1.054	0.397	0.419
	QPSK 20MHz 50%RB	Back Side	1720	22.27	22.5	1.054	0.400	0.422
	QPSK 20MHz 50%RB	Front Side	1720	22.27	22.5	1.054	0.385	0.406

WLAN 2.4GHz –Body 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					
30.	802.11b	Back Side	11	2462	15.75	16.0	1.059	0.102	0.108
	802.11b	Front Side	11	2462	15.75	16.0	1.059	0.064	0.068

Hotspot SAR

GSM850 – Body 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					
31.	GPRS_2TX	Back Face	190	836.6	32.17	32.5	1.079	0.238	0.257
	GPRS_2TX	Front Face	190	836.6	32.17	32.5	1.079	0.091	0.098
	GPRS_2TX	Right Side	190	836.6	32.17	32.5	1.079	0.041	0.044
	GPRS_2TX	Left Side	190	836.6	32.17	32.5	1.079	0.002	0.002
	GPRS_2TX	Bottom Side	190	836.6	32.17	32.5	1.079	0.167	0.180

GSM1900 – Body 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					
	GPRS_3TX	Back Face	512	1850.2	24.40	24.5	1.023	0.390	0.399
	GPRS_3TX	Front Face	512	1850.2	24.40	24.5	1.023	0.160	0.164
	GPRS_3TX	Right Side	512	1850.2	24.40	24.5	1.023	0.042	0.043
	GPRS_3TX	Left Side	512	1850.2	24.40	24.5	1.023	0.062	0.063
32.	GPRS_3TX	Bottom Side	512	1850.2	24.40	24.5	1.023	0.528	0.540

WCDMA Band 2 – Body 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					
	RMC 12.2k	Back Face	9262	1852.4	23.16	23.5	1.081	0.654	0.707
	RMC 12.2k	Front Face	9262	1852.4	23.16	23.5	1.081	0.293	0.317
	RMC 12.2k	Right Side	9262	1852.4	23.16	23.5	1.081	0.048	0.052
	RMC 12.2k	Left Side	9262	1852.4	23.16	23.5	1.081	0.110	0.119
33.	RMC 12.2k	Bottom Side	9262	1852.4	23.16	23.5	1.081	0.670	0.725

WCDMA Band 4 – Body 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					
	RMC 12.2k	Back Face	1413	1732.6	23.02	23.5	1.117	0.527	0.589
	RMC 12.2k	Front Face	1413	1732.6	23.02	23.5	1.117	0.188	0.210
	RMC 12.2k	Right Side	1413	1732.6	23.02	23.5	1.117	0.016	0.018
	RMC 12.2k	Left Side	1413	1732.6	23.02	23.5	1.117	0.068	0.076
34.	RMC 12.2k	Bottom Side	1413	1732.6	23.02	23.5	1.117	0.643	0.718

WCDMA Band 5 – Body 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					
35.	RMC 12.2k	Back Face	4132	826.4	23.09	23.5	1.099	0.171	0.188
	RMC 12.2k	Front Face	4132	826.4	23.09	23.5	1.099	0.073	0.080
	RMC 12.2k	Right Side	4132	826.4	23.09	23.5	1.099	0.102	0.112
	RMC 12.2k	Left Side	4132	826.4	23.09	23.5	1.099	0.041	0.045
	RMC 12.2k	Bottom Side	4132	826.4	23.09	23.5	1.099	0.075	0.082

LTE Band 2–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	16QAM 20MHz 1RB	Back Side	1880	21.91	22.0	1.021	0.496	0.506
	16QAM 20MHz 1RB	Front Side	1880	21.91	22.0	1.021	0.581	0.593
	16QAM 20MHz 1RB	Left side	1880	21.91	22.0	1.021	0.061	0.062
36.	16QAM 20MHz 1RB	Top side	1880	21.91	22.0	1.021	0.774	0.790
	16QAM 20MHz 50%RB	Back Side	1880	21.91	22.0	1.021	0.485	0.495
	16QAM 20MHz 50%RB	Front Side	1880	21.91	22.0	1.021	0.563	0.575
	16QAM 20MHz 50%RB	Left side	1880	21.91	22.0	1.021	0.055	0.056
	16QAM 20MHz 50%RB	Top side	1880	21.91	22.0	1.021	0.642	0.655

LTE Band 4–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1720	22.40	22.5	1.023	0.327	0.335
	QPSK 20MHz 1RB	Front Side	1720	22.40	22.5	1.023	0.313	0.320
	QPSK 20MHz 1RB	Left side	1720	22.40	22.5	1.023	0.035	0.036
37.	QPSK 20MHz 1RB	Top side	1720	22.40	22.5	1.023	0.329	0.337
	QPSK 20MHz 50%RB	Back Side	1720	22.40	22.5	1.023	0.312	0.319
	QPSK 20MHz 50%RB	Front Side	1720	22.40	22.5	1.023	0.300	0.307
	QPSK 20MHz 50%RB	Left side	1720	22.40	22.5	1.023	0.033	0.034
	QPSK 20MHz 50%RB	Top side	1720	22.40	22.5	1.023	0.316	0.323

LTE Band 5–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
38.	QPSK 10MHz 1RB	Back Face	829	22.39	22.5	1.026	0.184	0.189
	QPSK 10MHz 1RB	Front Face	829	22.39	22.5	1.026	0.091	0.093
	QPSK 10MHz 1RB	Right Side	829	22.39	22.5	1.026	0.034	0.035
	QPSK 10MHz 1RB	Left Side	829	22.39	22.5	1.026	0.022	0.023
	QPSK 10MHz 1RB	Bottom Side	829	22.39	22.5	1.026	0.030	0.031
	QPSK 10MHz 50%RB	Back Face	829	22.39	22.5	1.026	0.147	0.151
	QPSK 10MHz 50%RB	Front Face	829	22.39	22.5	1.026	0.084	0.086
	QPSK 10MHz 50%RB	Right Side	829	22.39	22.5	1.026	0.028	0.029
	QPSK 10MHz 50%RB	Left Side	829	22.39	22.5	1.026	0.019	0.019
	QPSK 10MHz 50%RB	Bottom Side	829	22.39	22.5	1.026	0.026	0.027

LTE Band 7–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	16QAM 20MHz 1RB	Back Side	2535	21.68	22.0	1.076	0.709	0.763
	16QAM 20MHz 1RB	Front Side	2535	21.68	22.0	1.076	0.491	0.529
	16QAM 20MHz 1RB	Left side	2535	21.68	22.0	1.076	0.322	0.347
39.	16QAM 20MHz 1RB	Top side	2535	21.68	22.0	1.076	1.151	1.239
	16QAM 20MHz 1RB	Top side	2510	21.18	22.0	1.208	0.983	1.187
	16QAM 20MHz 1RB	Top side	2560	20.90	22.0	1.288	0.943	1.215
	16QAM 20MHz 50%RB	Back Side	2535	21.68	22.0	1.076	0.689	0.742
	16QAM 20MHz 50%RB	Front Side	2535	21.68	22.0	1.076	0.487	0.524
	16QAM 20MHz 50%RB	Left side	2535	21.68	22.0	1.076	0.312	0.336
	16QAM 20MHz 50%RB	Top side	2535	21.68	22.0	1.076	0.901	0.970
	16QAM 20MHz 50%RB	Top side	2510	21.18	22.0	1.208	0.935	1.129
	16QAM 20MHz 50%RB	Top side	2560	20.90	22.0	1.288	0.902	1.162

LTE Band 12–Body SAR Test (Gap: 10mm)								
P I o t N o.	Mode	Test Position	Fre qu ency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
40.	16QAM 10MHz 1RB	Back Face	711	22.79	23.0	1.050	0.133	0.140
	16QAM 10MHz 1RB	Front Face	711	22.79	23.0	1.050	0.091	0.096
	16QAM 10MHz 1RB	Right Side	711	22.79	23.0	1.050	0.023	0.024
	16QAM 10MHz 1RB	Left Side	711	22.79	23.0	1.050	0.017	0.018
	16QAM 10MHz 1RB	Bottom Side	711	22.79	23.0	1.050	0.021	0.022
	16QAM 10MHz 50%RB	Back Face	711	22.79	23.0	1.050	0.124	0.130
	16QAM 10MHz 50%RB	Front Face	711	22.79	23.0	1.050	0.086	0.090
	16QAM 10MHz 50%RB	Right Side	711	22.79	23.0	1.050	0.020	0.021
	16QAM 10MHz 50%RB	Left Side	711	22.79	23.0	1.050	0.014	0.015
	16QAM 10MHz 50%RB	Bottom Side	711	22.79	23.0	1.050	0.018	0.019

LTE Band 13–Body SAR Test (Gap: 10mm)								
P I o t N o.	Mode	Test Position	Fre qu ency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
41.	QPSK 10MHz 1RB	Back Face	782	22.45	23.0	1.135	0.233	0.264
	QPSK 10MHz 1RB	Front Face	782	22.45	23.0	1.135	0.059	0.067
	QPSK 10MHz 1RB	Right Side	782	22.45	23.0	1.135	0.041	0.047
	QPSK 10MHz 1RB	Left Side	782	22.45	23.0	1.135	0.021	0.024
	QPSK 10MHz 1RB	Bottom Side	782	22.45	23.0	1.135	0.033	0.037
	QPSK 10MHz 50%RB	Back Face	782	22.45	23.0	1.135	0.200	0.227
	QPSK 10MHz 50%RB	Front Face	782	22.45	23.0	1.135	0.045	0.051
	QPSK 10MHz 50%RB	Right Side	782	22.45	23.0	1.135	0.037	0.042
	QPSK 10MHz 50%RB	Left Side	782	22.45	23.0	1.135	0.018	0.020
	QPSK 10MHz 50%RB	Bottom Side	782	22.45	23.0	1.135	0.030	0.034

LTE Band 17–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
42.	16QAM 10MHz 1RB	Back Face	711	22.75	23.0	1.059	0.125	0.132
	16QAM 10MHz 1RB	Front Face	711	22.75	23.0	1.059	0.092	0.097
	16QAM 10MHz 1RB	Right Side	711	22.75	23.0	1.059	0.015	0.016
	16QAM 10MHz 1RB	Left Side	711	22.75	23.0	1.059	0.013	0.014
	16QAM 10MHz 1RB	Bottom Side	711	22.75	23.0	1.059	0.035	0.037
	16QAM 10MHz 50%RB	Back Face	711	22.75	23.0	1.059	0.112	0.119
	16QAM 10MHz 50%RB	Front Face	711	22.75	23.0	1.059	0.085	0.090
	16QAM 10MHz 50%RB	Right Side	711	22.75	23.0	1.059	0.010	0.011
	16QAM 10MHz 50%RB	Left Side	711	22.75	23.0	1.059	0.011	0.012
	16QAM 10MHz 50%RB	Bottom Side	711	22.75	23.0	1.059	0.031	0.033

LTE Band 66–Body SAR Test (Gap: 10mm)								
Plot No.	Mode	Test Position	Frequency	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR 1g (W/kg)	Scaled SAR1g (W/kg)
	Modulation, Bandwidth, RB		MHz					
	QPSK 20MHz 1RB	Back Side	1720	22.27	22.5	1.054	0.424	0.447
	QPSK 20MHz 1RB	Front Side	1720	22.27	22.5	1.054	0.397	0.419
	QPSK 20MHz 1RB	Left side	1720	22.27	22.5	1.054	0.045	0.047
43.	QPSK 20MHz 1RB	Top side	1720	22.27	22.5	1.054	0.437	0.461
	QPSK 20MHz 50%RB	Back Side	1720	22.27	22.5	1.054	0.400	0.422
	QPSK 20MHz 50%RB	Front Side	1720	22.27	22.5	1.054	0.385	0.406
	QPSK 20MHz 50%RB	Left side	1720	22.27	22.5	1.054	0.041	0.043
	QPSK 20MHz 50%RB	Top side	1720	22.27	22.5	1.054	0.409	0.431

WLAN 2.4GHz –Body 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					
44.	802.11b	Back Face	11	2462	15.75	16.0	1.059	0.102	0.108
	802.11b	Front Face	11	2462	15.75	16.0	1.059	0.064	0.068
	802.11b	Right Side	11	2462	15.75	16.0	1.059	0.033	0.035
	802.11b	Top Side	11	2462	15.75	16.0	1.059	0.058	0.061

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

Repeated SAR

LTE Band 2– Head SAR Test							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
16QAM 20MHz 1RB	Right Cheek	1880	1.164	1.119	/	1.040	/
16QAM 20MHz 1RB	Right Tilted	1880	1.089	1.056	/	1.031	/
16QAM 20MHz 1RB	Right Cheek	1860	1.199	1.174	/	1.021	/
16QAM 20MHz 1RB	Right Tilted	1860	1.142	1.108	/	1.031	/
16QAM 20MHz 1RB	Right Cheek	1900	1.050	1.023	/	1.026	/
16QAM 20MHz 1RB	Right Tilted	1900	1.014	0.995	/	1.019	/
16QAM 20MHz 50%RB	Right Cheek	1880	1.122	1.086	/	1.033	/
16QAM 20MHz 50%RB	Right Tilted	1880	1.060	1.021	/	1.038	/
16QAM 20MHz 50%RB	Right Cheek	1860	1.137	1.112	/	1.022	/
16QAM 20MHz 50%RB	Right Tilted	1860	1.103	1.086	/	1.016	/
16QAM 20MHz 50%RB	Right Cheek	1900	1.011	1.001	/	1.010	/
16QAM 20MHz 50%RB	Right Tilted	1900	0.981	0.964	/	1.018	/

LTE Band 4– Head SAR Test							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 20MHz 1RB	Right Cheek	1720	1.026	0.997	/	1.029	/
QPSK 20MHz 1RB	Right Tilted	1720	1.001	0.985	/	1.016	/
QPSK 20MHz 1RB	Right Cheek	1732.5	1.135	1.082	/	1.049	/
QPSK 20MHz 1RB	Right Tilted	1732.5	1.086	1.023	/	1.062	/
QPSK 20MHz 1RB	Right Cheek	1745	1.152	1.121	/	1.028	/
QPSK 20MHz 1RB	Right Tilted	1732.5	1.114	1.102	/	1.011	/
QPSK 20MHz 50%RB	Right Cheek	0.998	1.062	1.034	/	1.027	/
QPSK 20MHz 50%RB	Right Tilted	0.971	1.027	1.001	/	1.026	/
QPSK 20MHz 50%RB	Right Cheek	1732.5	1.111	1.076	/	1.033	/
QPSK 20MHz 50%RB	Right Tilted	1732.5	1.084	1.053	/	1.029	/
QPSK 20MHz 50%RB	Right Cheek	1745	1.062	1.024	/	1.037	/
QPSK 20MHz 50%RB	Right Tilted	1732.5	1.027	0.992	/	1.035	/

LTE Band 7– Head SAR Test							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
16QAM 20MHz 1RB	Right Cheek	2535	1.107	1.085	/	1.020	/
16QAM 20MHz 1RB	Right Tilted	2535	1.012	0.979	/	1.034	/
16QAM 20MHz 1RB	Right Cheek	2510	1.086	1.057	/	1.027	/
16QAM 20MHz 1RB	Right Tilted	2510	1.027	1.006	/	1.021	/
16QAM 20MHz 1RB	Right Cheek	2560	0.994	0.957	/	1.039	/
16QAM 20MHz 1RB	Right Tilted	2560	0.931	0.902	/	1.032	/
16QAM 20MHz 50%RB	Right Cheek	2535	1.030	1.013	/	1.017	/
16QAM 20MHz 50%RB	Right Tilted	2535	0.998	0.987	/	1.011	/
16QAM 20MHz 50%RB	Right Cheek	2510	1.031	1.011	/	1.020	/
16QAM 20MHz 50%RB	Right Tilted	2510	0.998	0.973	/	1.026	/
16QAM 20MHz 50%RB	Right Cheek	2560	0.941	0.923	/	1.020	/
16QAM 20MHz 50%RB	Right Tilted	2560	0.906	0.876	/	1.034	/

LTE Band 66–Body SAR Test (Gap: 0mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
QPSK 20MHz 1RB	Right Cheek	1720	1.140	1.115	/	1.022	/
QPSK 20MHz 1RB	Right Tilted	1720	1.045	1.018	/	1.027	/
QPSK 20MHz 1RB	Left Cheek	1720	0.832	0.912	/	0.912	/
QPSK 20MHz 1RB	Right Cheek	1745	1.007	0.984	/	1.023	/
QPSK 20MHz 1RB	Right Tilted	1745	0.975	0.953	/	1.023	/
QPSK 20MHz 1RB	Right Cheek	1770	1.050	1.021	/	1.028	/
QPSK 20MHz 1RB	Right Tilted	1770	1.001	0.991	/	1.010	/
QPSK 20MHz 1RB	Left Cheek	1770	0.818	0.793	/	1.032	/
QPSK 20MHz 50%RB	Right Cheek	1720	1.086	1.052	/	1.032	/
QPSK 20MHz 50%RB	Right Tilted	1720	1.005	0.986	/	1.019	/
QPSK 20MHz 50%RB	Right Cheek	1745	0.979	0.952	/	1.028	/
QPSK 20MHz 50%RB	Right Tilted	1745	0.851	0.821	/	1.037	/
QPSK 20MHz 50%RB	Right Cheek	1770	1.021	1.007	/	1.014	/
QPSK 20MHz 50%RB	Right Tilted	1770	0.984	0.962	/	1.023	/
QPSK 20MHz 50%RB	Left Cheek	1770	0.801	0.784	/	1.022	/

LTE Band 7–Body SAR Test (Gap: 10mm)							
Mode	Test Position	Frequency	SAR1g (W/kg)	Repeated SAR		Ratio	
		MHz		1	2	1	2
16QAM 20MHz 1RB	Top side	2535	1.151	1.121	/	1.027	/
16QAM 20MHz 1RB	Top side	2510	0.983	0.967	/	1.017	/
16QAM 20MHz 1RB	Top side	2560	0.943	0.925	/	1.019	/
16QAM 20MHz 50%RB	Top side	2535	0.901	0.879	/	1.025	/
16QAM 20MHz 50%RB	Top side	2510	0.935	0.916	/	1.021	/
16QAM 20MHz 50%RB	Top side	2560	0.922	0.905	/	1.019	/

Remark:

- 1) Per KDB 447498 D01 v06, if the highest output channel SAR for each exposure position ≤ 0.8 W/kg other channels SAR tests are not necessary.
- 2) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 3) When the original highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
- 4) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg ($\sim 10\%$ from the 1-g SAR limit).
- 5) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

No.	Configurations	Head SAR	Body SAR
1	GSM(Voice/Data) + WLAN(2.4GHz)(Data)	Yes	Yes
2	WCDMA (Voice/Data)+ WLAN(2.4GHz)(Data)	Yes	Yes
3	LTE(Data) + WLAN(2.4GHz)(Data)	Yes	Yes
4	GSM(Voice/Data) + Bluetooth(Data)	Yes	Yes
5	WCDMA (Voice/Data) + Bluetooth(Data)	Yes	Yes
6	LTE(Data) + Bluetooth(Data)	Yes	Yes

Remark:

1. GSM, WCDMA and LTE share the same antenna, and cannot transmit simultaneously.
2. WLAN and Bluetooth share the same antenna, and cannot transmit simultaneously.
3. According to the KDB 447498 D01 v06, when standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

$(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm}) \cdot [\sqrt{f(\text{GHz})} / x]$
W/kg for test separation distances ≤ 50 mm;

where $x = 7.5$ for 1-g SAR, and $x = 18.75$ for 10-g SAR.

For simultaneous transmission analysis, Bluetooth SAR is estimated per KDB 447498 D01 v06 as below:

Bluetooth:

Tune-Up Power (dBm)	Max. Power (mW)	Distance (mm)	Frequency (GHz)	X	SAR(1g) 5mm	SAR(1g) 10mm
5.0	3.16	5/10	2.480	7.5	0.133	0.066

4. The maximum SAR summation is calculated based on the same configuration and test position.

Head SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.147	0.156	0.303
Right Tilted	GSM	0.126	0.143	0.269
Left Cheek	GSM	0.167	0.287	0.454
Left Tilted	GSM	0.142	0.284	0.426
Right Cheek	WCDMA	0.119	0.156	0.275
Right Tilted	WCDMA	0.102	0.143	0.245
Left Cheek	WCDMA	0.122	0.287	0.409
Left Tilted	WCDMA	0.106	0.284	0.390
Right Cheek	LTE	1.342	0.156	1.498
Right Tilted	LTE	1.285	0.143	1.428
Left Cheek	LTE	0.909	0.287	1.196
Left Tilted	LTE	0.837	0.284	1.121

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

Body-worn SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.385	0.108	0.493
Front	GSM	0.184	0.068	0.252
Back	WCDMA	0.707	0.108	0.815
Front	WCDMA	0.317	0.068	0.385
Back	LTE	0.763	0.108	0.871
Front	LTE	0.593	0.068	0.661

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

Hotspot SAR**WWAN and WLAN**

	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.399	0.108	0.507
Front	GSM	0.164	0.068	0.232
Right side	GSM	0.044	0.035	0.079
Left side	GSM	0.063	--	0.063
Top side	GSM	--	0.061	0.061
Bottom side	GSM	0.540	--	0.540
Back	WCDMA	0.707	0.108	0.815
Front	WCDMA	0.317	0.068	0.385
Right side	WCDMA	0.112	0.035	0.147
Left side	WCDMA	0.119	--	0.119
Top side	WCDMA	--	0.061	0.061
Bottom side	WCDMA	0.725	--	0.725
Back	LTE	0.763	0.108	0.871
Front	LTE	0.593	0.068	0.661
Right side	LTE	0.047	0.035	0.082
Left side	LTE	0.347	--	0.347
Top side	LTE	1.239	0.061	1.300
Bottom side	LTE	0.037	--	0.037

Note:

WWAN + Bluetooth test result less than the WWAN + WLAN (2.4GHz) test result, so the WWAN + Bluetooth test result is not show in the test report.

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	$c_{\epsilon_s}, c_{\sigma}$	4.00	∞
Temperature effects (medium)	8.4.2.2	R	2.50	$\sqrt{3}$	1.44	$c_{\epsilon_s}, c_{\sigma}$	1.44	∞
Shell permittivity	8.4.2.3	R	5.00	$\sqrt{3}$	2.88	See 8.4.2.3	2.88	∞
Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	0.03	1	0.03	2	0.02	∞
Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	0.05	1	0.05	1	0.05	5
Device holder effects	8.4.2.6	N	5.00	1	5.00	1	5.00	
Effect of operating mode on probe sensitivity	8.4.2.7	R	0	$\sqrt{3}$	0	1	0	∞
Time-average SAR	8.4.2.8	R	0	$\sqrt{3}$	0	1	0	∞
Variation in SAR due to drift in output of DUT	8.4.2.9	N	5.00	1	5.00	1	5.00	
Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0	1	0	1	0	
Uncertainty in accepted power	8.4.2.11	N	0	1	0	1	0	

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

Annex A. Plots of System Performance Check

MEASUREMENT 1

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2024-08-08
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

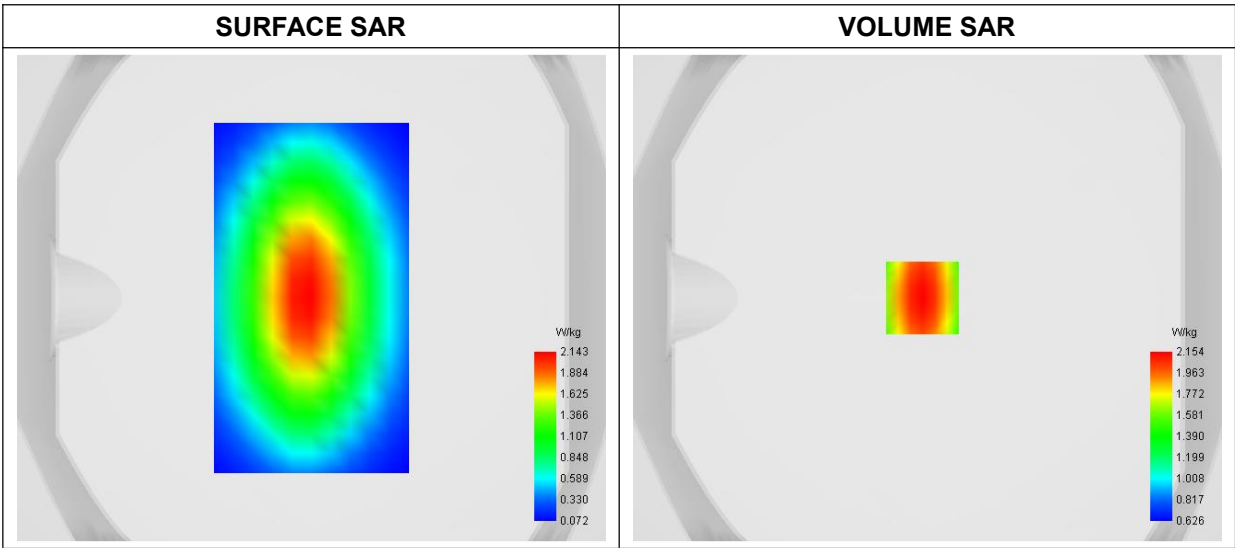
A. Experimental conditions

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)	41.152457
Conductivity (S/m)	0.862347
Power Variation (%)	1.178100
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume



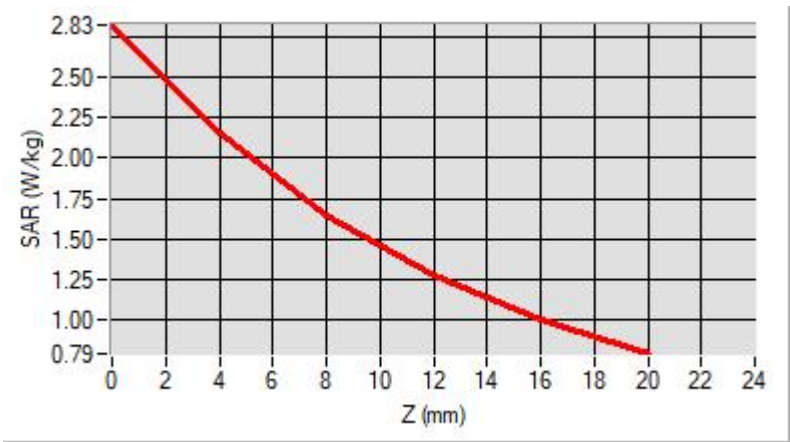
Maximum location: X=-2.00, Y=0.00

D. SAR 1g & 10g

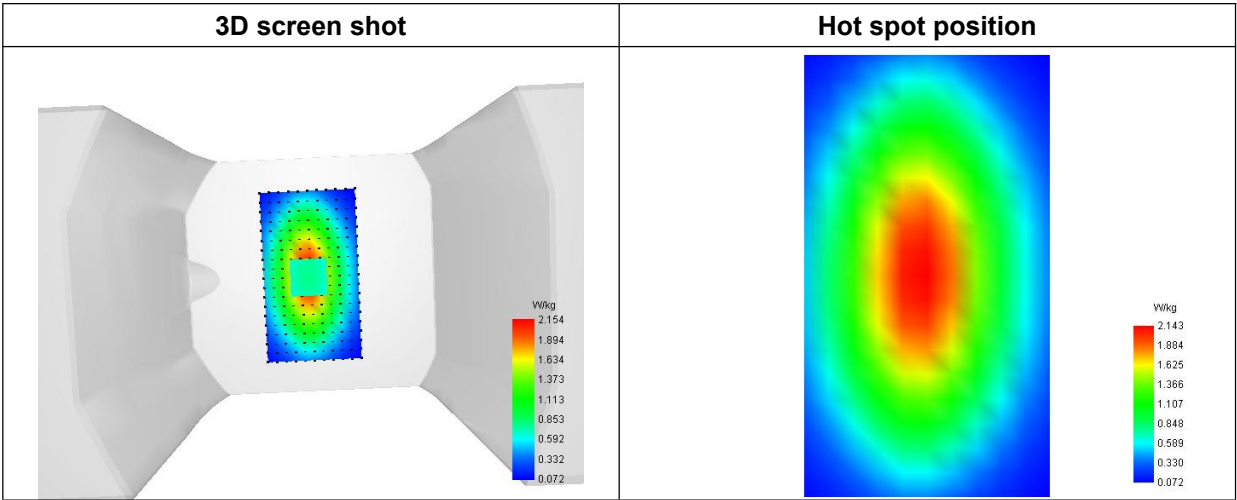
SAR 10g (W/Kg)	1.430855
SAR 1g (W/Kg)	2.051374

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: 2024-08-09
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

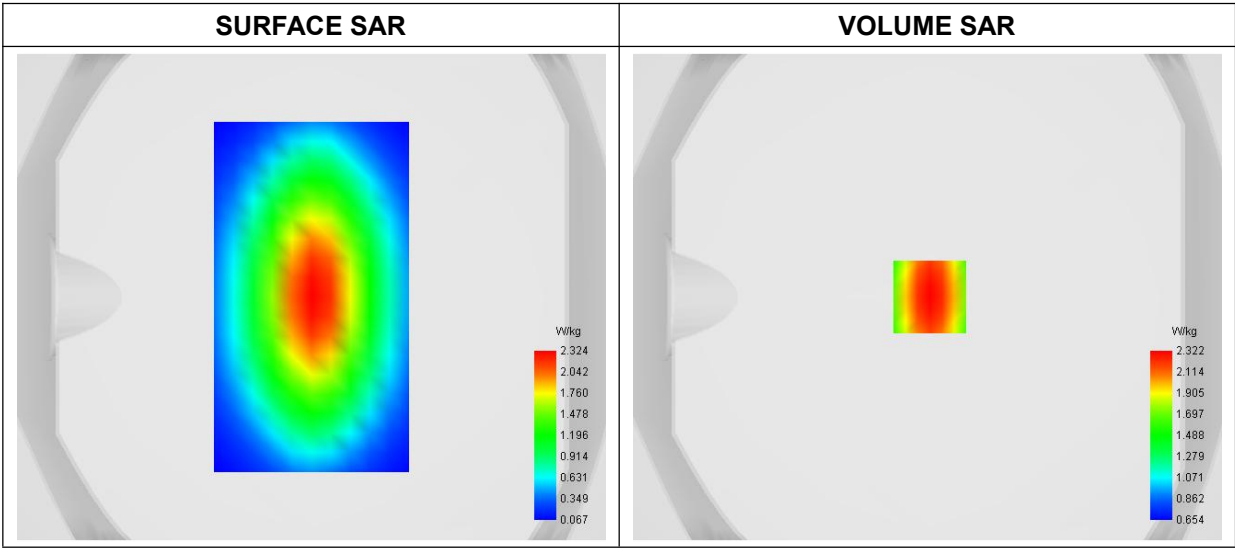
A. Experimental conditions

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)	40.922489
Conductivity (S/m)	0.891417
Power Variation (%)	-1.884700
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

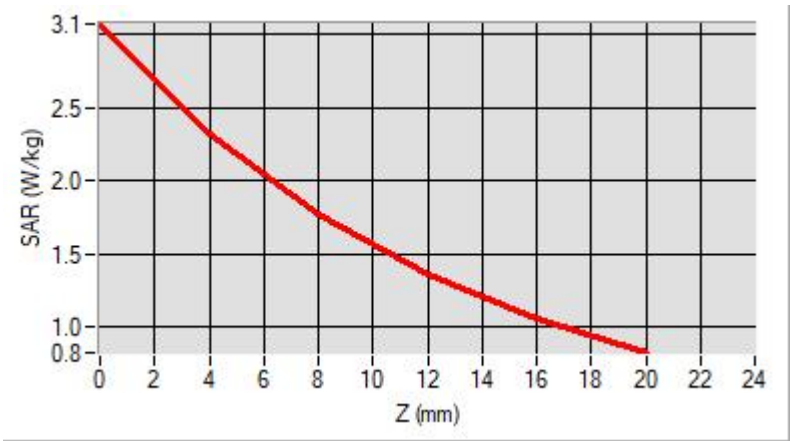


Maximum location: X=1.00, Y=0.00
D. SAR 1g & 10g

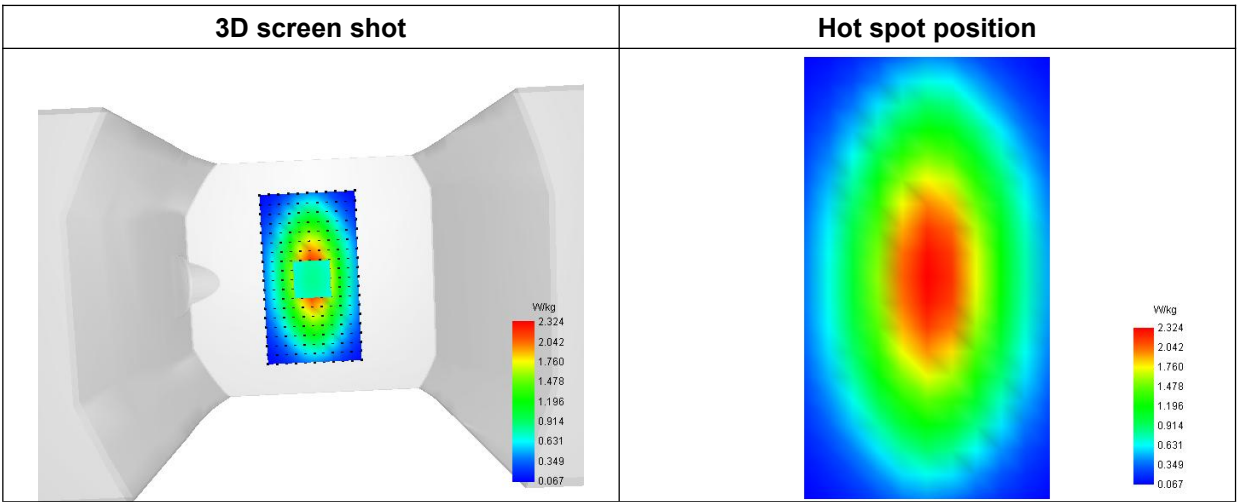
SAR 10g (W/Kg)	1.527360
SAR 1g (W/Kg)	2.210386

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: 2024-08-12
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

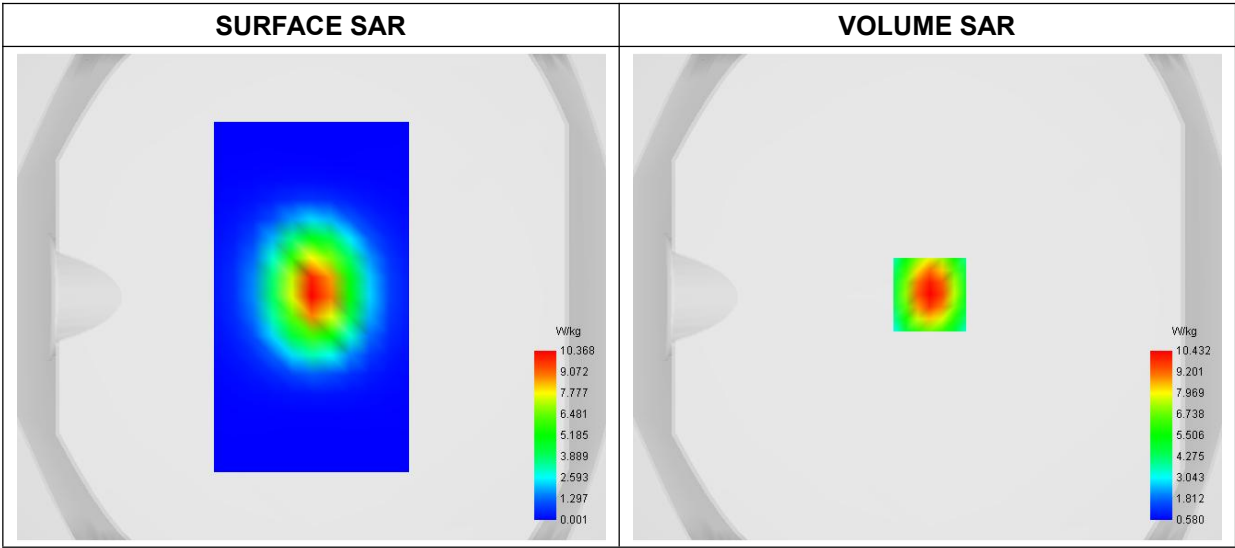
A. Experimental conditions

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)	39.214478
Conductivity (S/m)	1.384858
Power Variation (%)	1.425800
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

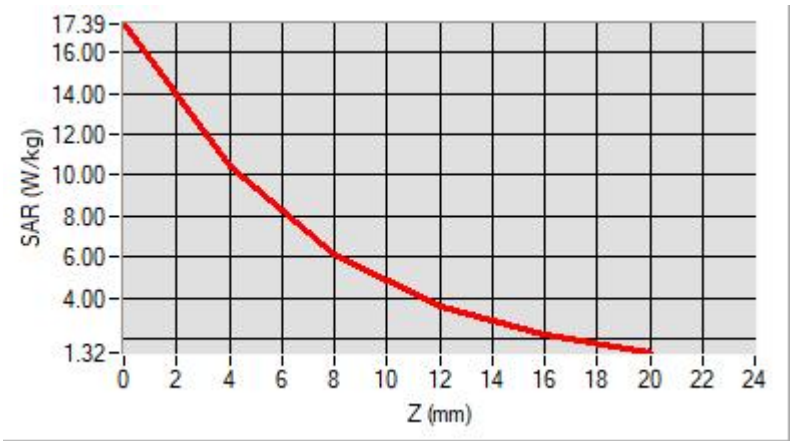


Maximum location: X=1.00, Y=1.00
D. SAR 1g & 10g

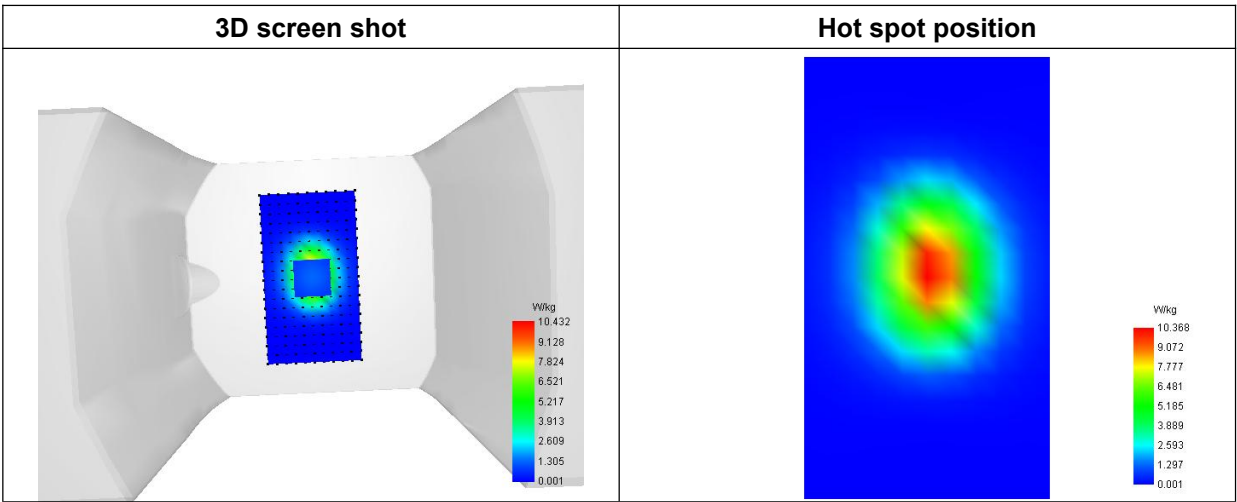
SAR 10g (W/Kg)	4.968858
SAR 1g (W/Kg)	9.623880

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: 2024-08-14
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

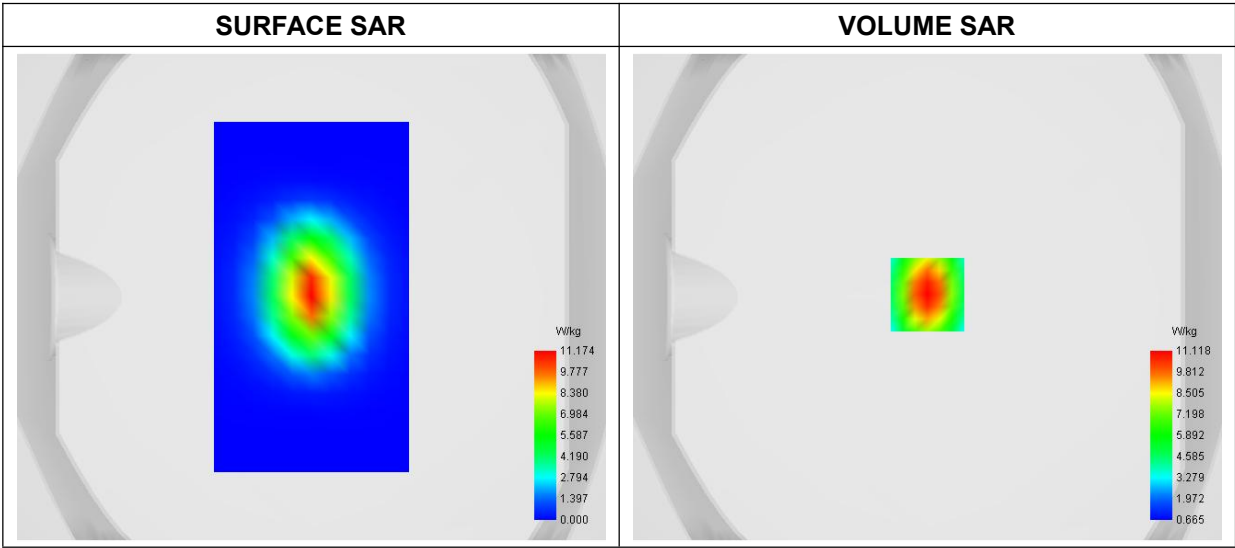
A. Experimental conditions

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)	40.982574
Conductivity (S/m)	1.413135
Power Variation (%)	-1.224700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

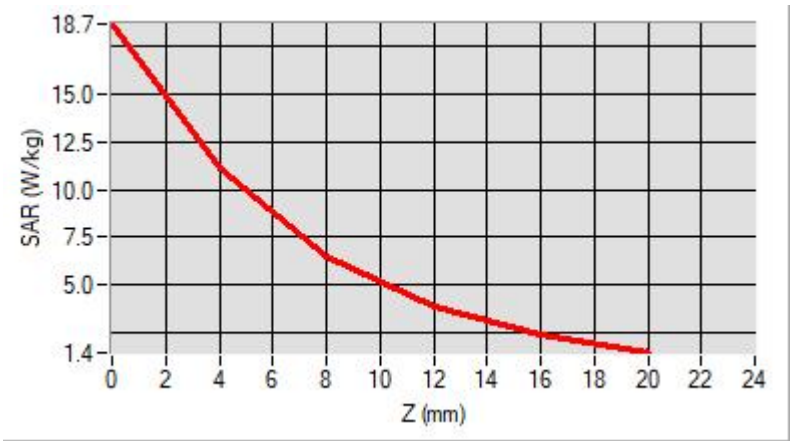


Maximum location: X=0.00, Y=1.00
D. SAR 1g & 10g

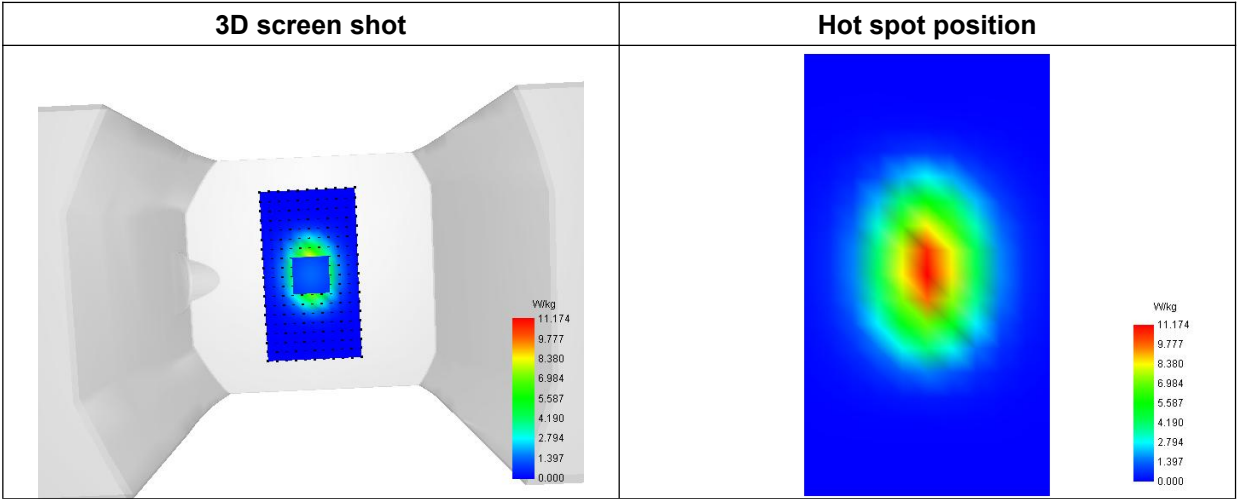
SAR 10g (W/Kg)	5.260825
SAR 1g (W/Kg)	10.222516

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: 2024-08-16
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.62; Calibrated: 2024-07-11

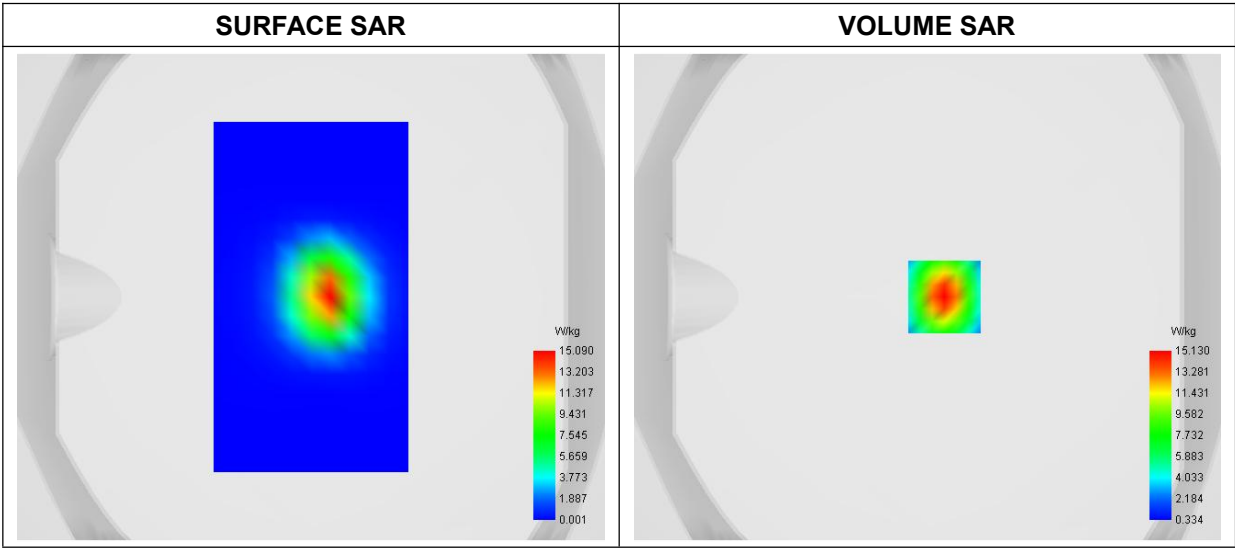
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.532289
Conductivity (S/m)	1.771828
Power Variation (%)	1.475200
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



Maximum location: X=7.00, Y=0.00
D. SAR 1g & 10g

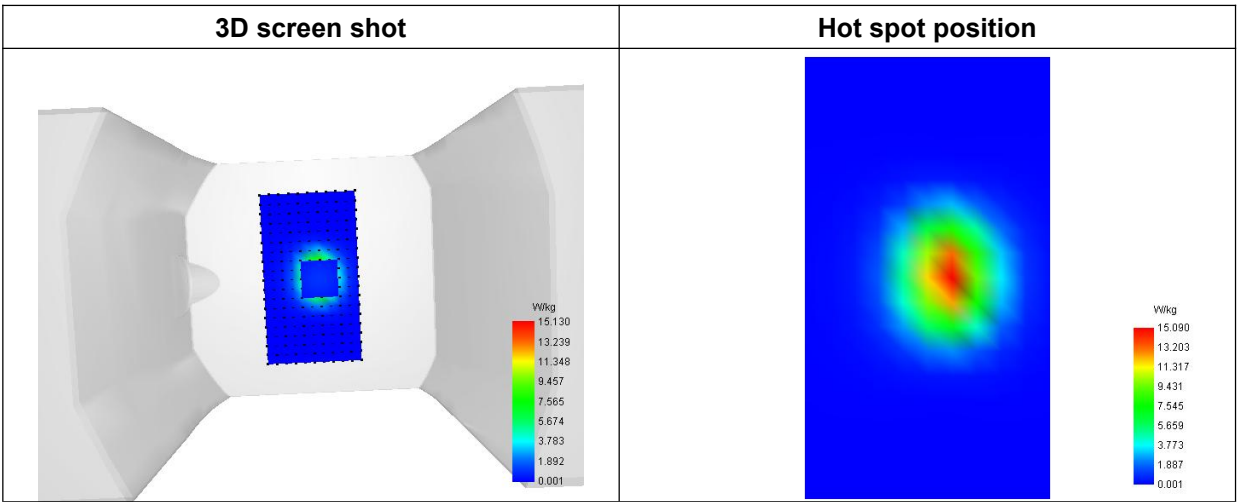
SAR 10g (W/Kg)	6.149024
SAR 1g (W/Kg)	13.746586

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	28.7959	15.1301	7.5430	3.7436	1.9810



F. 3D Image



MEASUREMENT 6

Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2024-08-19
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.50; Calibrated: 2024-07-11

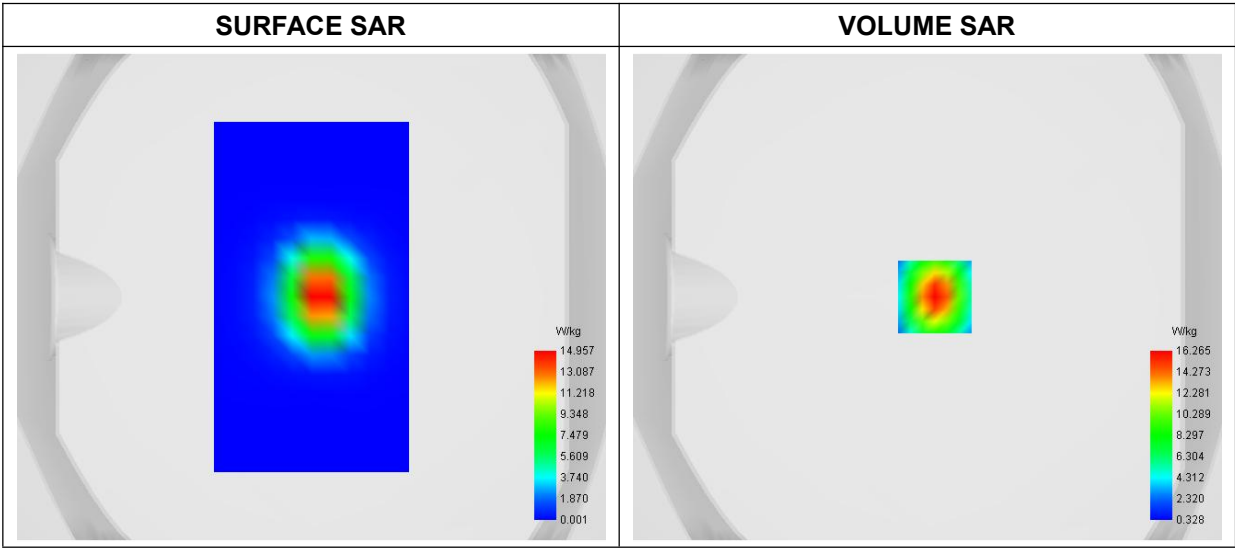
A. Experimental conditions

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)	39.744541
Conductivity (S/m)	1.922478
Power Variation (%)	1.344700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume



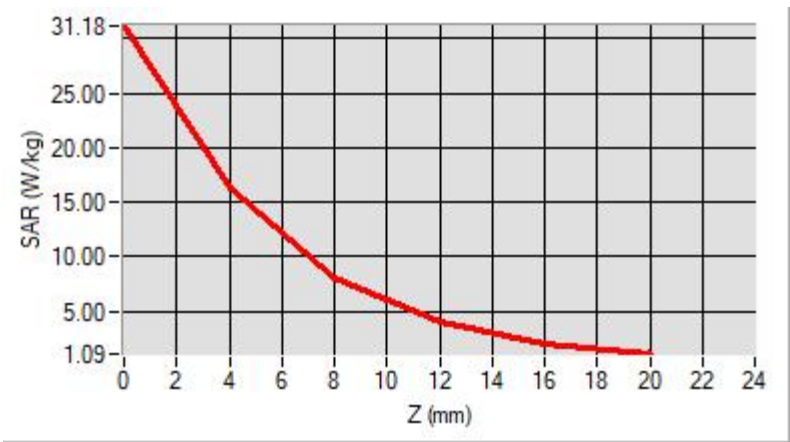
Maximum location: X=3.00, Y=0.00

D. SAR 1g & 10g

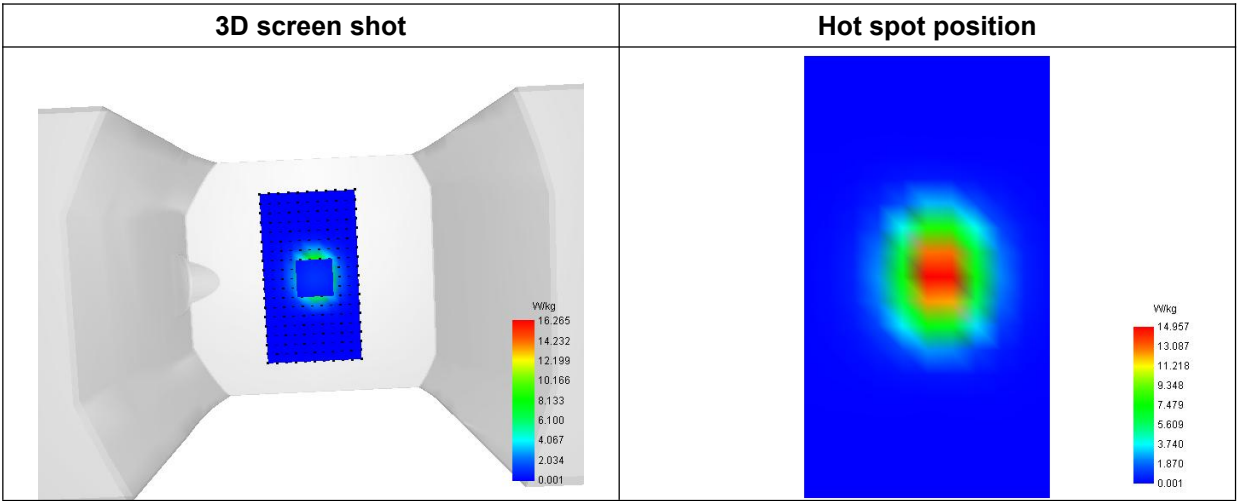
SAR 10g (W/Kg)	6.553727
SAR 1g (W/Kg)	14.814545

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: 2024-08-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

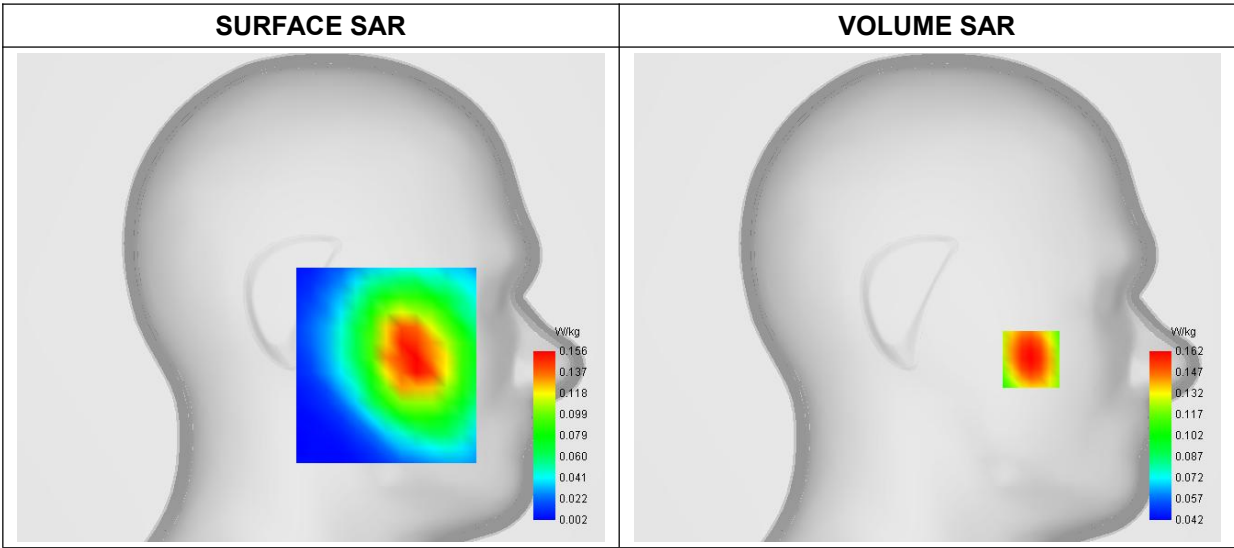
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	40.922245
Conductivity (S/m)	0.892455
Power Variation (%)	1.453600
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

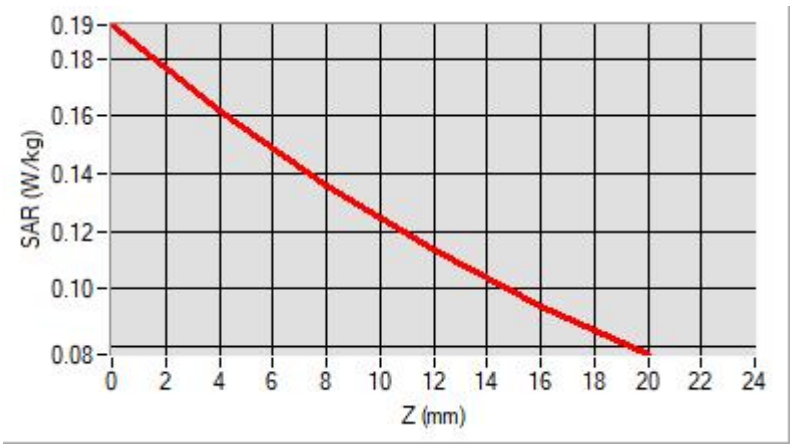


Maximum location: X=-55.00, Y=-33.00
D. SAR 1g & 10g

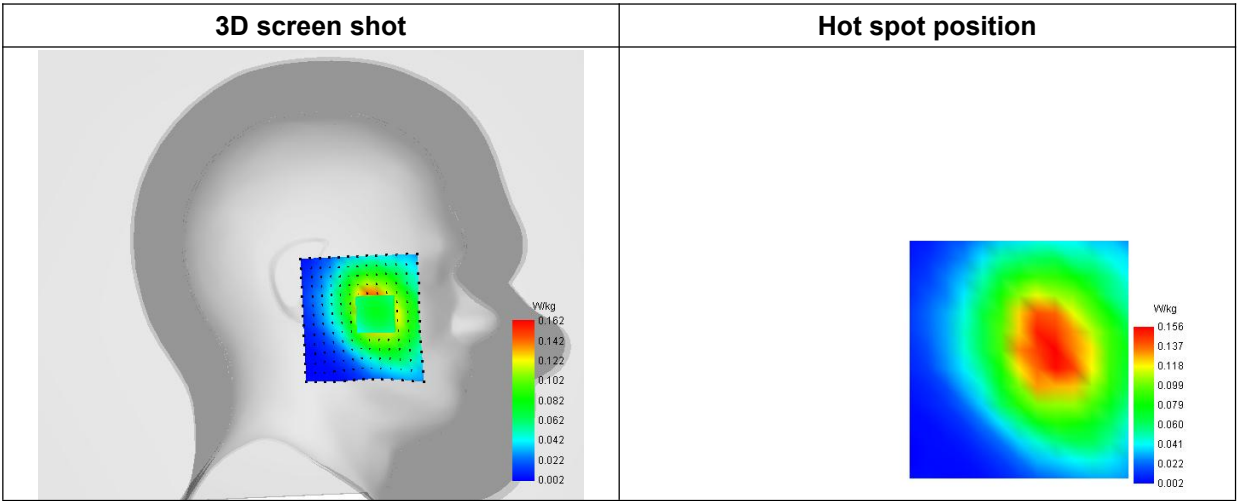
SAR 10g (W/Kg)	0.115452
SAR 1g (W/Kg)	0.155012

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1916	0.1617	0.1357	0.1133	0.0940



F. 3D Image



MEASUREMENT 2

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

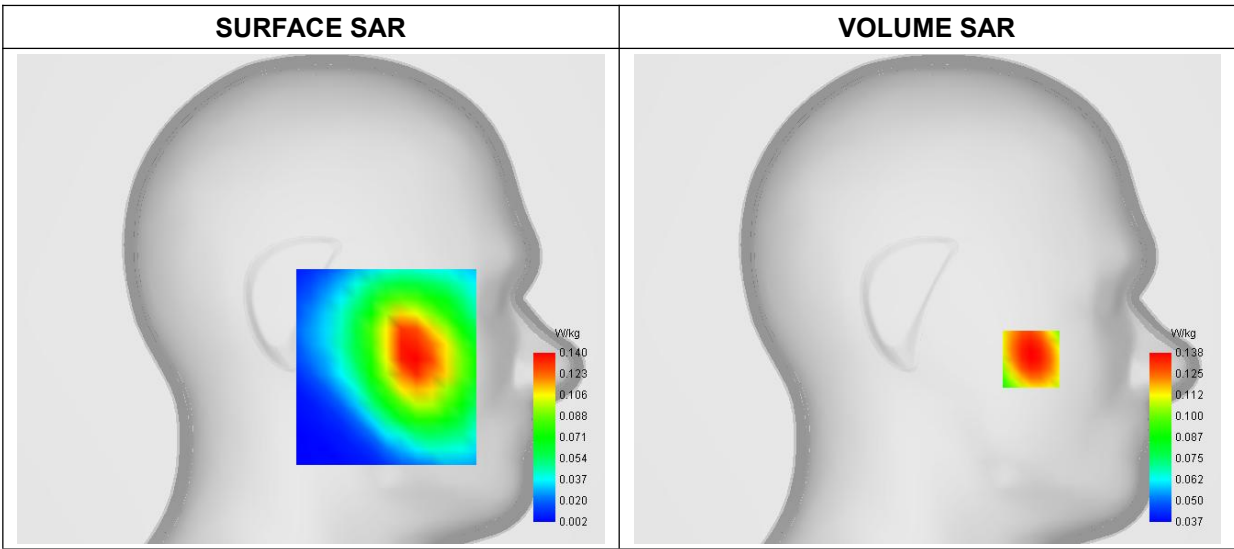
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	40.922245
Conductivity (S/m)	0.892455
Power Variation (%)	0.129400
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

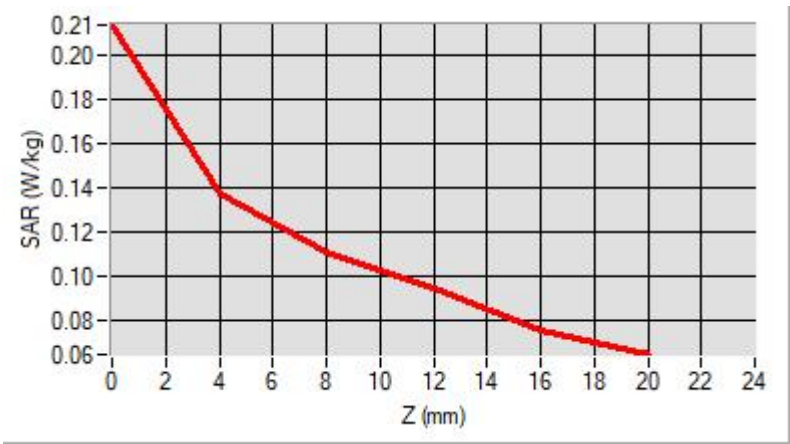


Maximum location: X=-55.00, Y=-32.00
D. SAR 1g & 10g

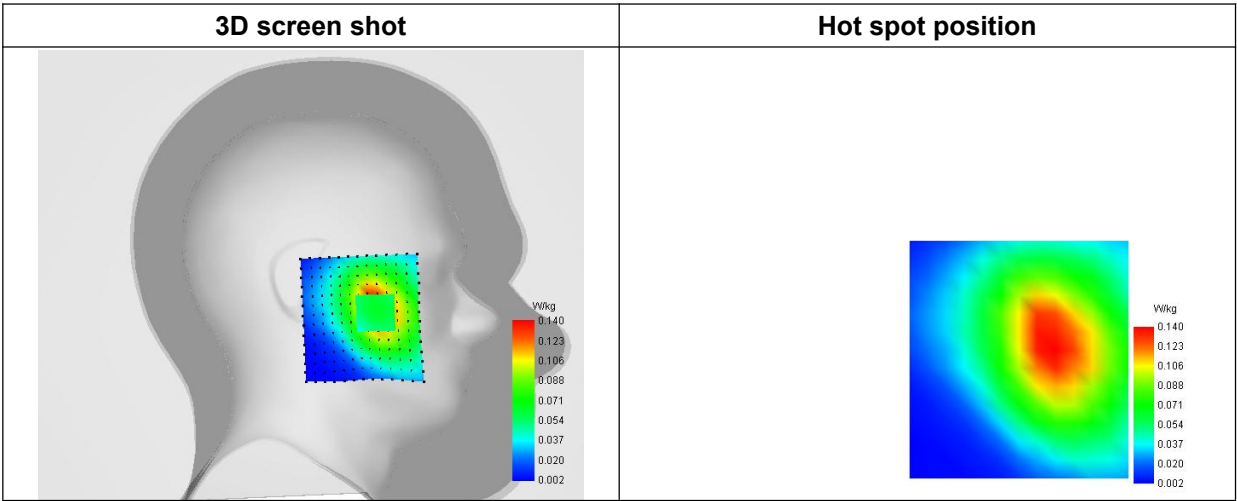
SAR 10g (W/Kg)	0.098976
SAR 1g (W/Kg)	0.132464

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2139	0.1376	0.1106	0.0943	0.0751



F. 3D Image



MEASUREMENT 3

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

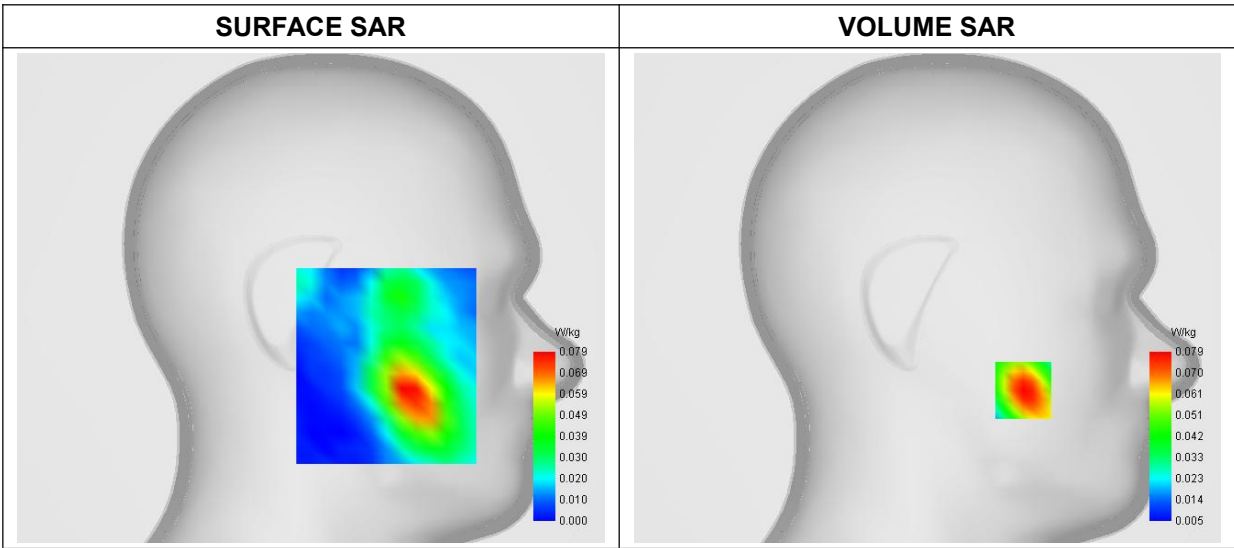
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.212245
Conductivity (S/m)	1.384081
Power Variation (%)	0.254800
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

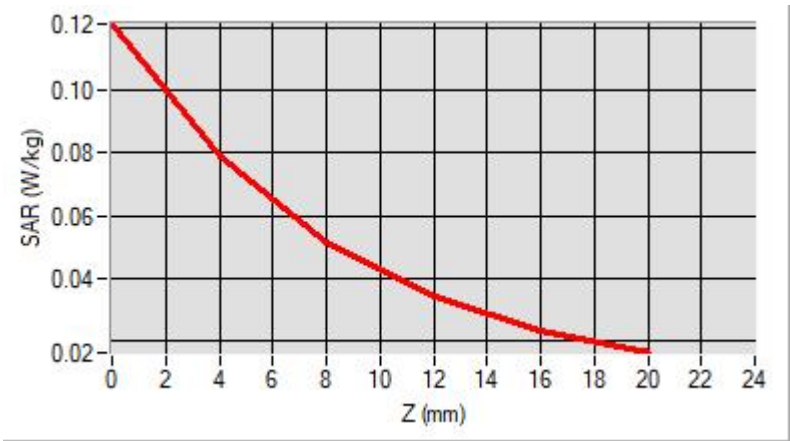


Maximum location: X=-51.00, Y=-49.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.043274
SAR 1g (W/Kg)	0.073590

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1212	0.0792	0.0515	0.0342	0.0236



F. 3D Image

3D screen shot	Hot spot position
A 3D rendering of a human head model in profile, facing right. A color-coded SAR distribution is shown on the head's surface, with a color bar on the right indicating values from 0.000 to 0.079 W/kg. The highest SAR values (red/orange) are concentrated on the ear area.	A 2D color-coded image showing the SAR distribution on the ear area. A color bar on the right indicates values from 0.000 to 0.079 W/kg. The highest SAR values (red/orange) are concentrated in the center of the ear area.

MEASUREMENT 4

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

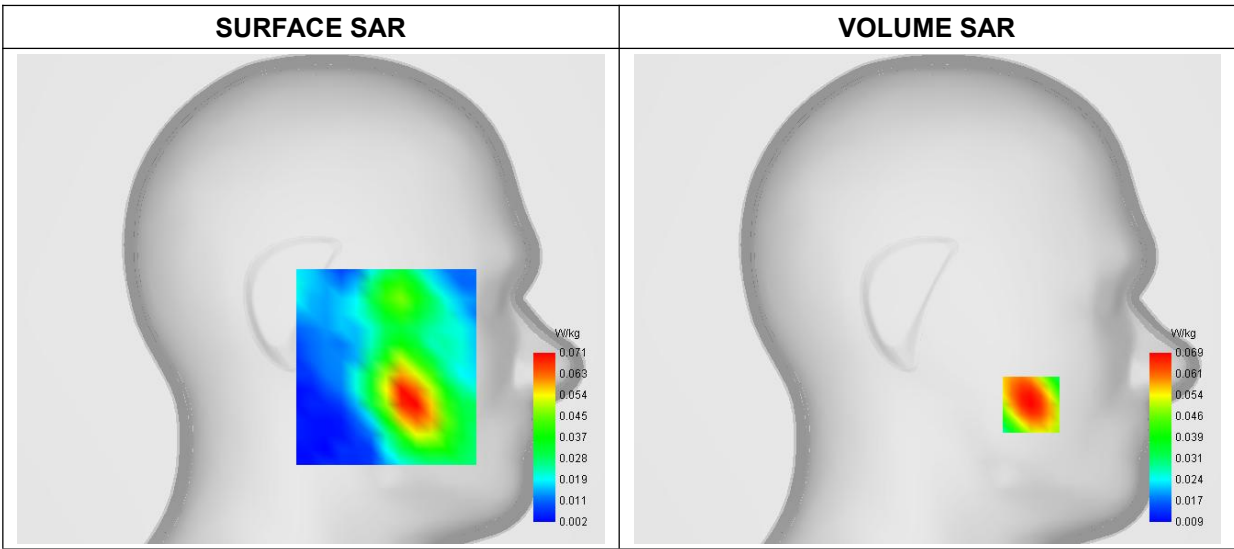
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GPRS1900_3TX
Channels	Low
Signal	Duty Cycle: 1:2.66

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.212245
Conductivity (S/m)	1.384081
Power Variation (%)	-0.154700
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

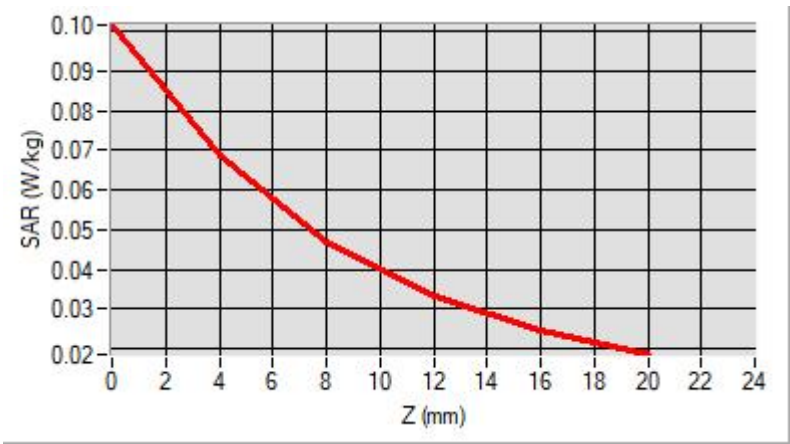


Maximum location: X=-55.00, Y=-56.00
D. SAR 1g & 10g

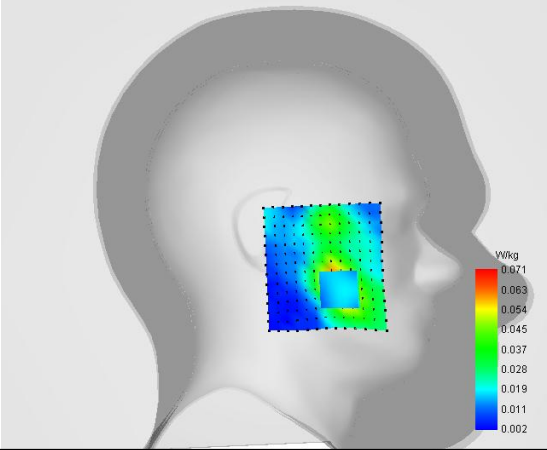
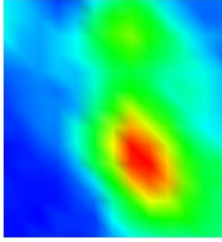
SAR 10g (W/Kg)	0.041145
SAR 1g (W/Kg)	0.065343

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1017	0.0689	0.0471	0.0332	0.0246



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 5

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

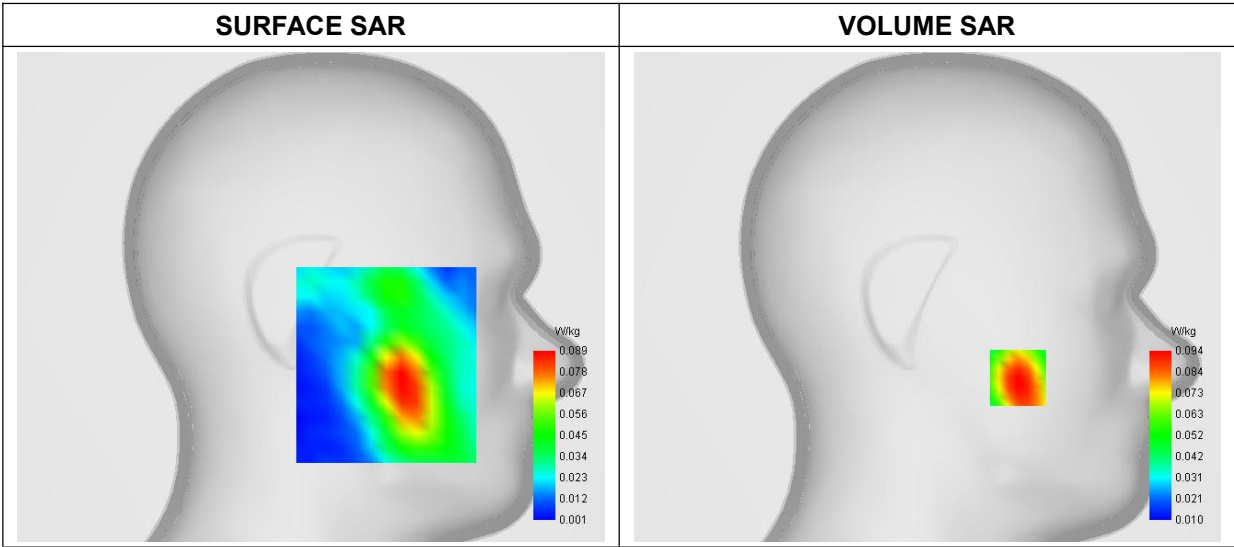
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA1900_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	39.211484
Conductivity (S/m)	1.383607
Power Variation (%)	0.822400
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

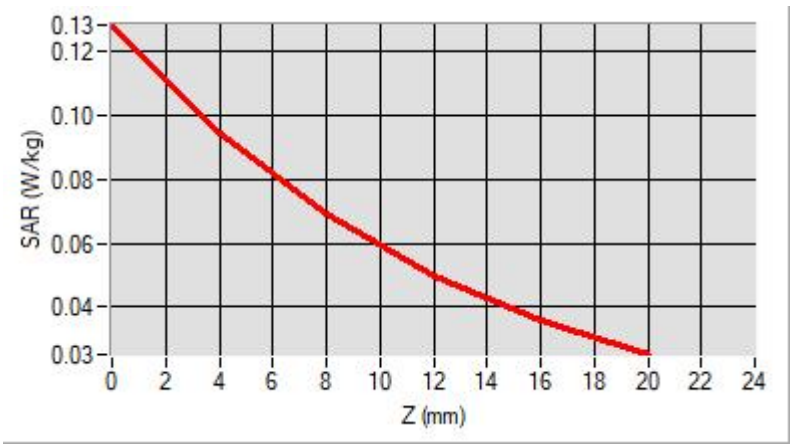


Maximum location: X=-48.00, Y=-43.00
D. SAR 1g & 10g

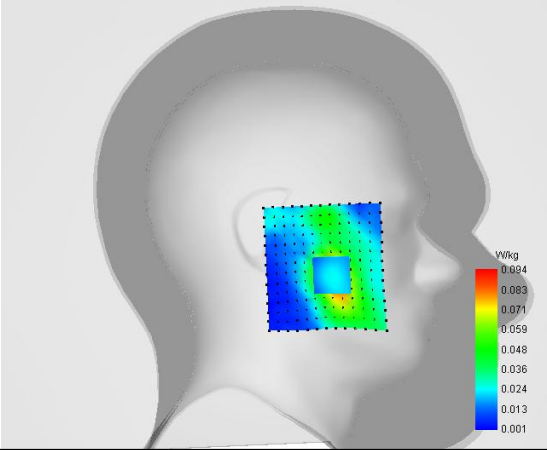
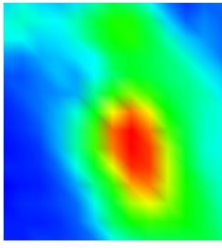
SAR 10g (W/Kg)	0.055851
SAR 1g (W/Kg)	0.089145

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1281	0.0943	0.0688	0.0500	0.0360



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 6

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

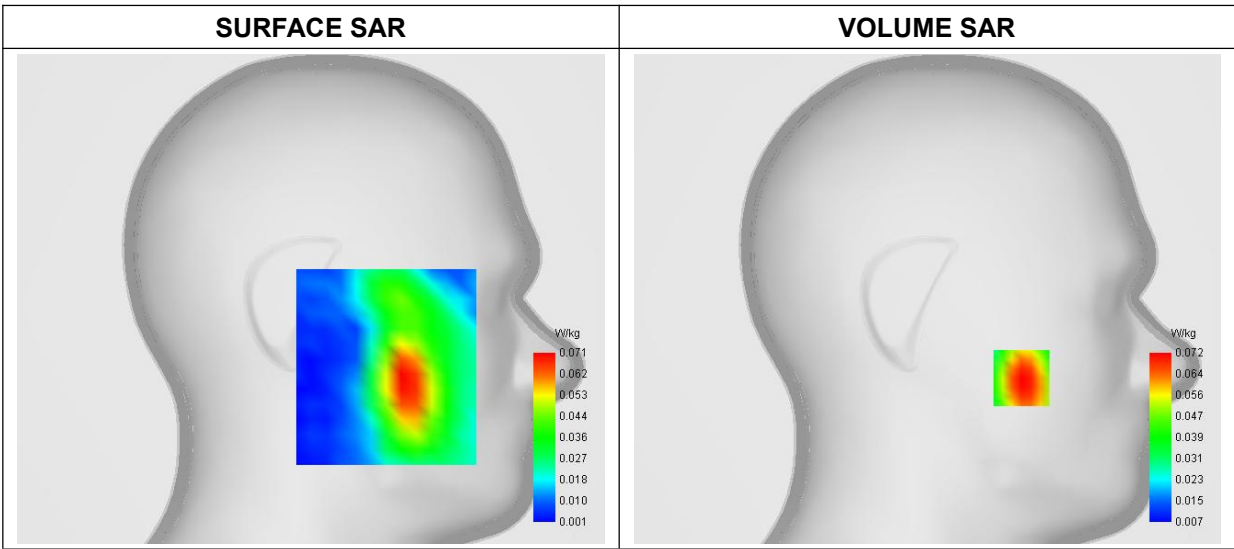
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA1700_RMC
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative Permittivity (real part)	39.211245
Conductivity (S/m)	1.383075
Power Variation (%)	0.864500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

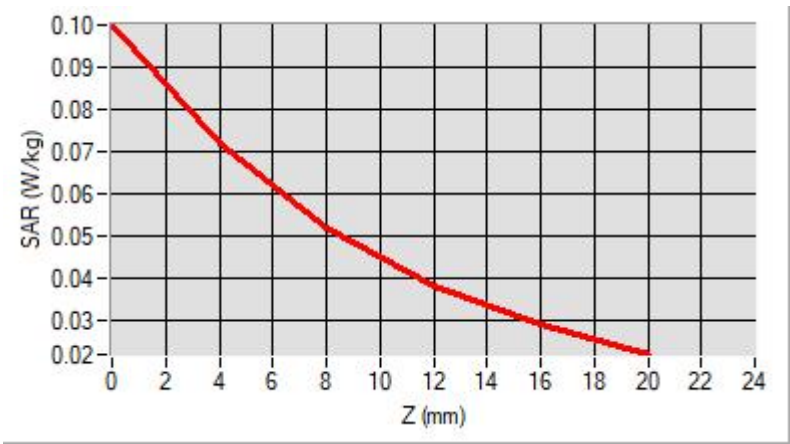


Maximum location: X=-50.00, Y=-42.00
D. SAR 1g & 10g

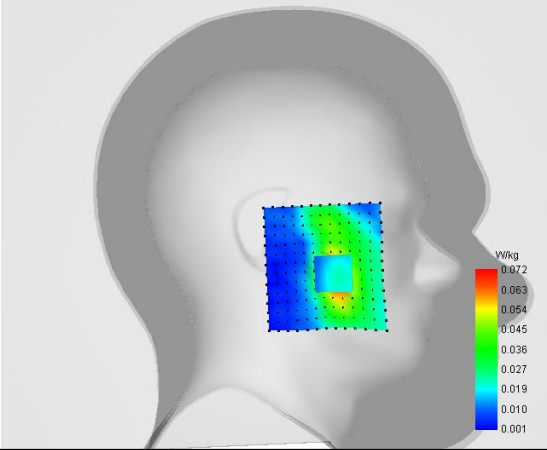
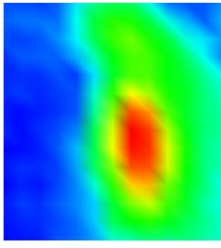
SAR 10g (W/Kg)	0.043519
SAR 1g (W/Kg)	0.067696

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0997	0.0718	0.0518	0.0382	0.0289



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 7

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

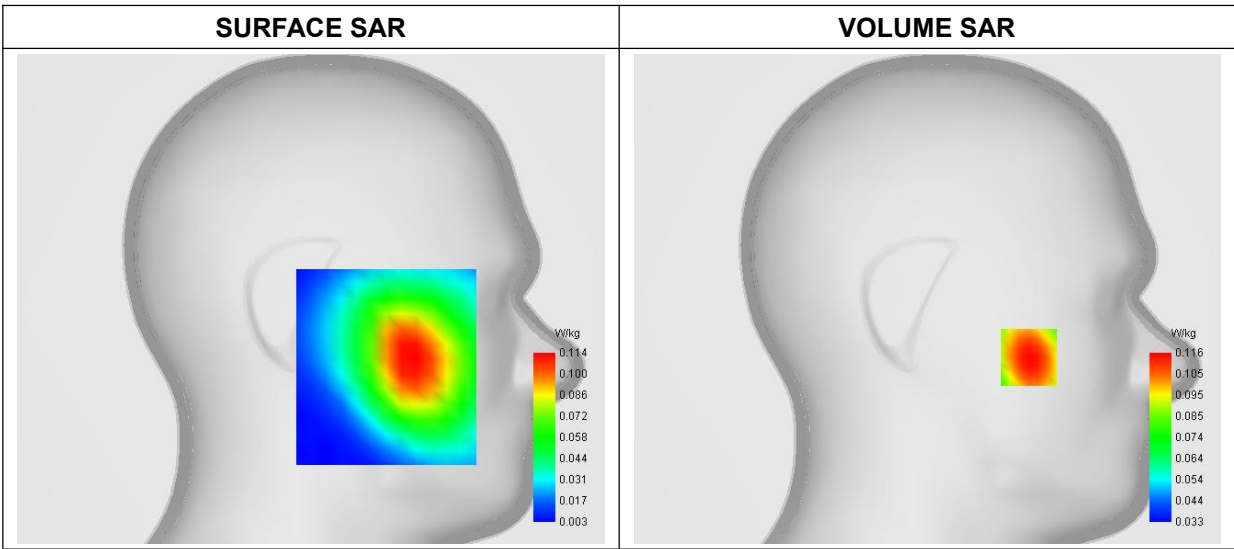
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	826.400000
Relative Permittivity (real part)	40.923325
Conductivity (S/m)	0.891245
Power Variation (%)	-1.363800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

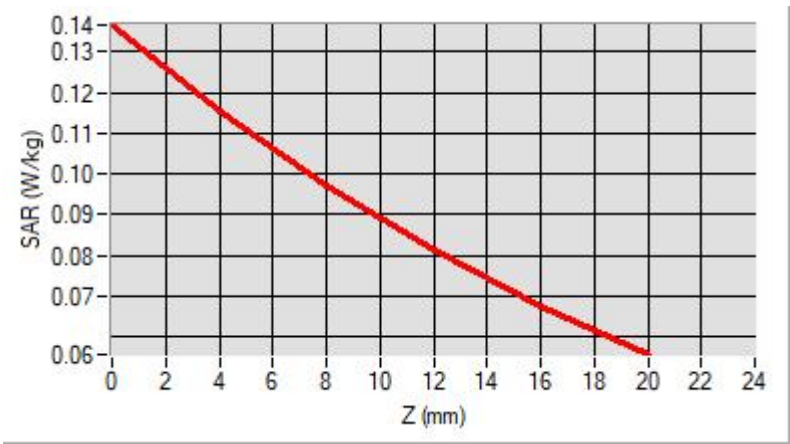


Maximum location: X=-54.00, Y=-31.00
D. SAR 1g & 10g

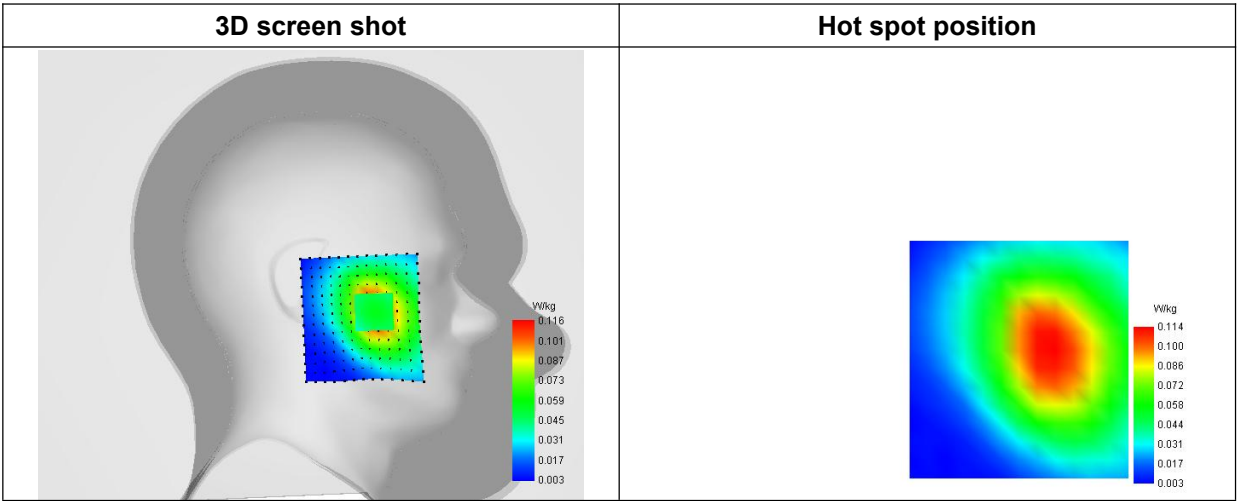
SAR 10g (W/Kg)	0.083490
SAR 1g (W/Kg)	0.110758

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1366	0.1155	0.0972	0.0814	0.0677



F. 3D Image



MEASUREMENT 8

Type: Measurement (Complete)
Date of measurement: 2024-08-14
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

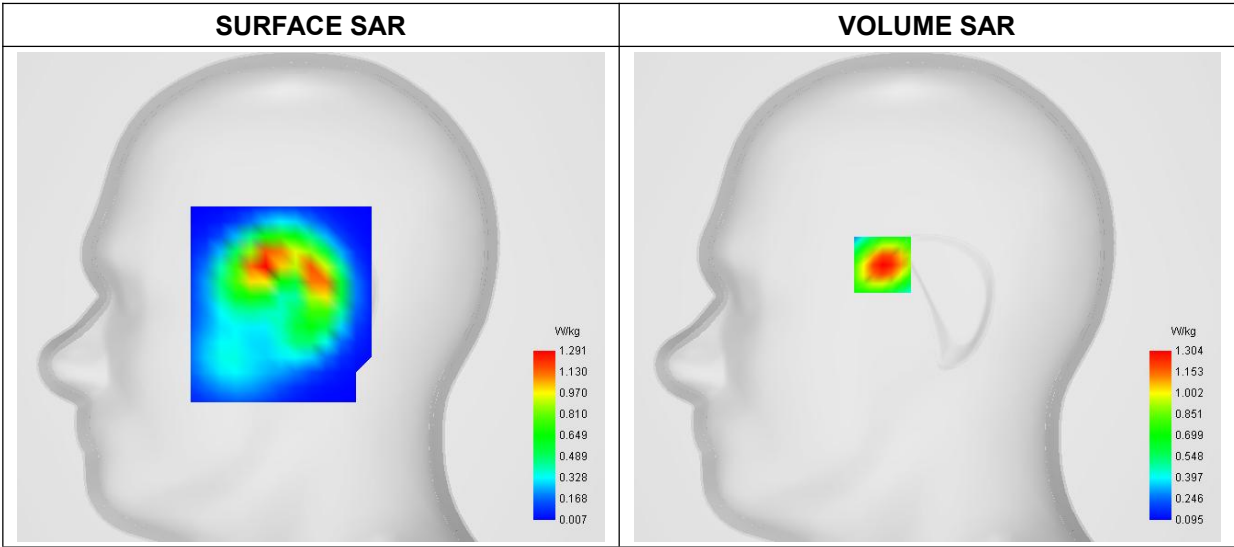
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 2
Channels	16QAM, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	40.981461
Conductivity (S/m)	1.412369
Power Variation (%)	-1.348500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

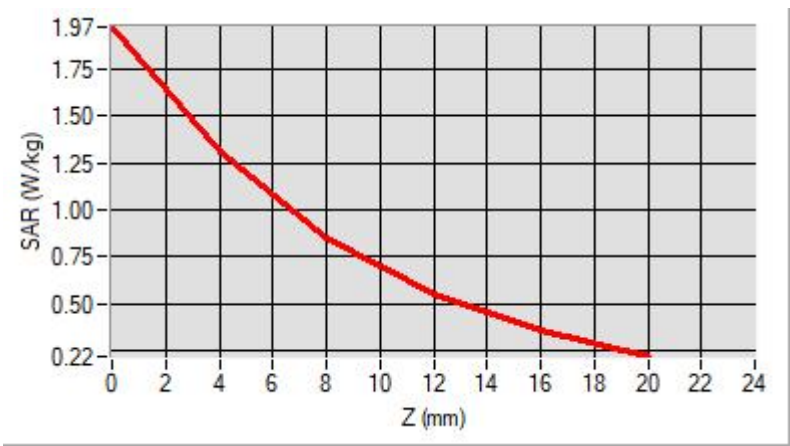


Maximum location: X=-24.00, Y=17.00
D. SAR 1g & 10g

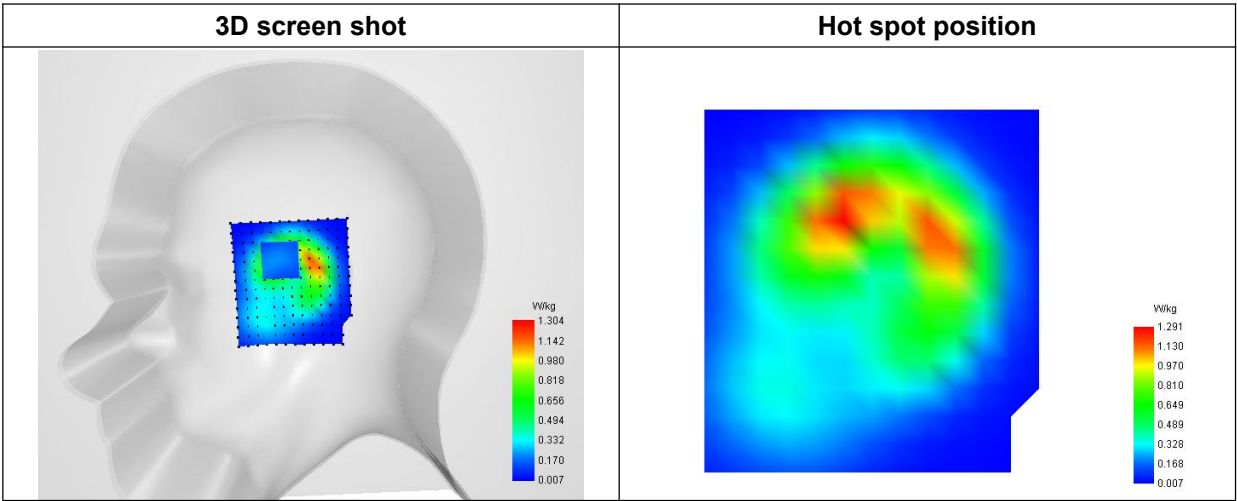
SAR 10g (W/Kg)	0.659392
SAR 1g (W/Kg)	1.199387

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.9726	1.3043	0.8477	0.5477	0.3533



F. 3D Image



MEASUREMENT 9

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

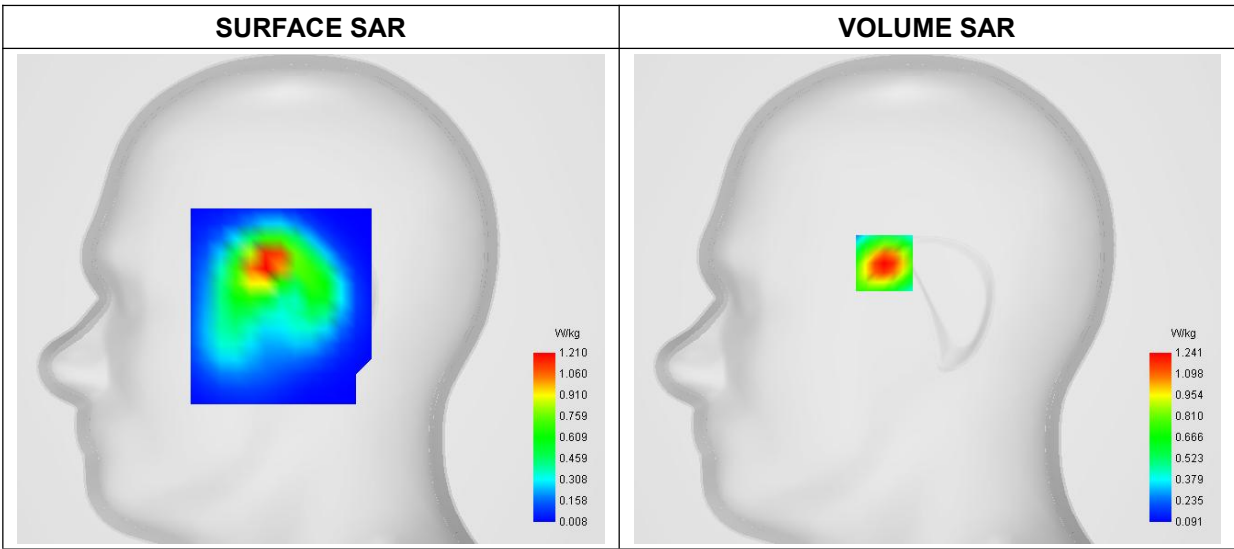
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 4
Channels	QPSK, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.500000
Relative Permittivity (real part)	39.213275
Conductivity (S/m)	1.382987
Power Variation (%)	1.085600
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

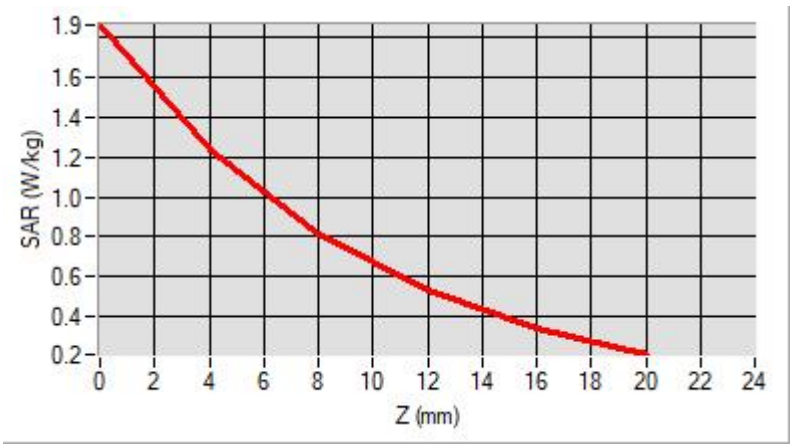


Maximum location: X=-23.00, Y=19.00
D. SAR 1g & 10g

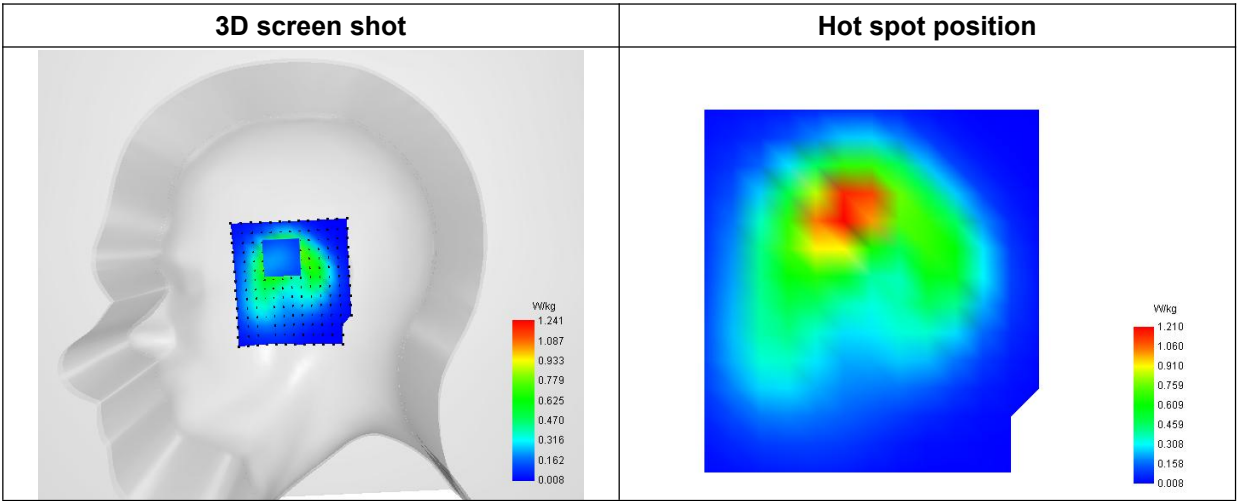
SAR 10g (W/Kg)	0.624654
SAR 1g (W/Kg)	1.135111

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.8595	1.2415	0.8148	0.5308	0.3441



F. 3D Image



MEASUREMENT 10

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

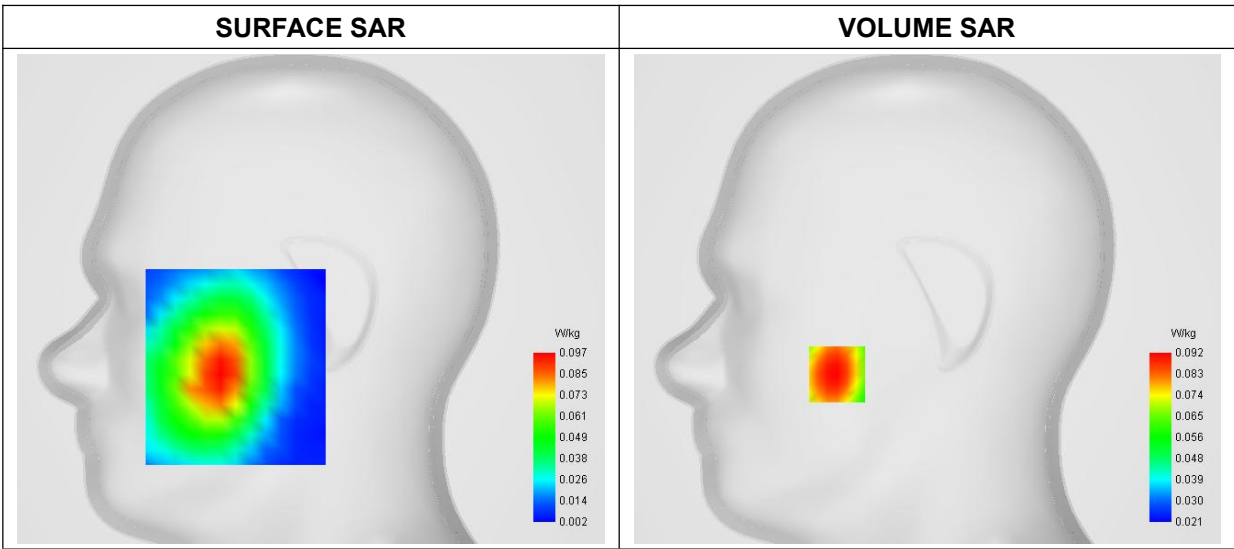
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 5
Channels	QPSK, 10MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	829.000000
Relative Permittivity (real part)	40.923245
Conductivity (S/m)	0.892455
Power Variation (%)	-0.878500
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

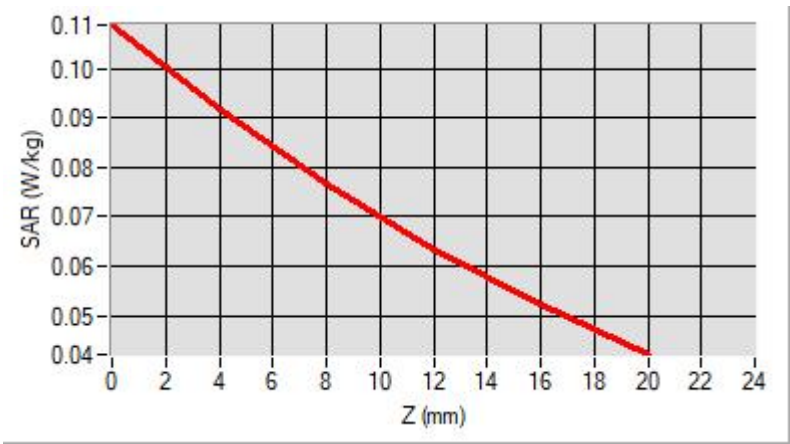


Maximum location: X=-48.00, Y=-40.00
D. SAR 1g & 10g

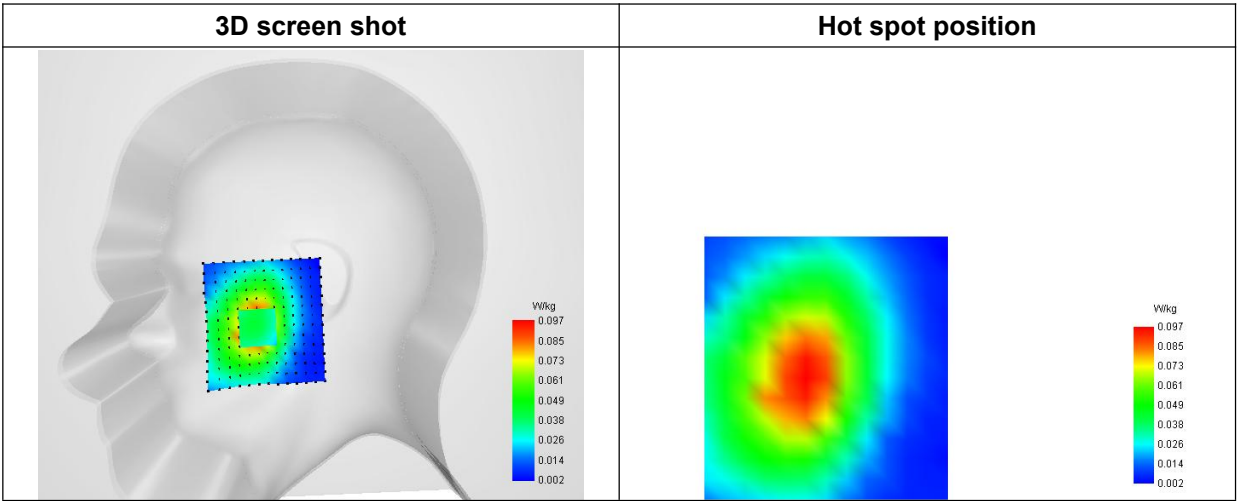
SAR 10g (W/Kg)	0.065367
SAR 1g (W/Kg)	0.087839

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1088	0.0916	0.0765	0.0634	0.0521



F. 3D Image



MEASUREMENT 11

Type: Measurement (Complete)
Date of measurement: 2024-08-19
Measurement duration: 12 minutes 3 seconds

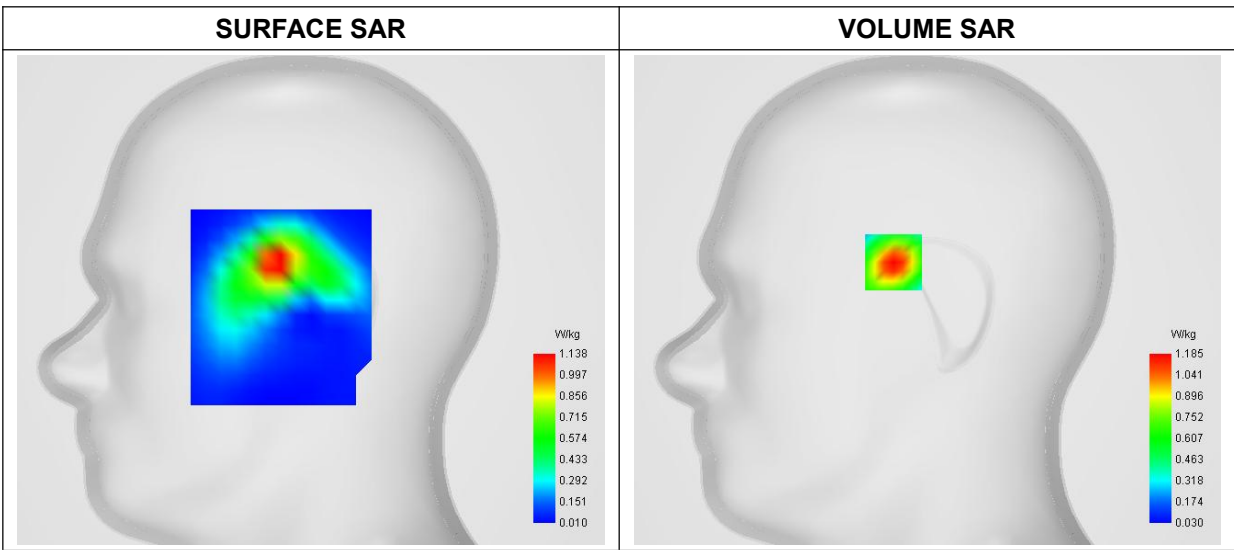
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 7
Channels	16QAM, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2510.000000
Relative Permittivity (real part)	39.741327
Conductivity (S/m)	1.923929
Power Variation (%)	1.085600
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

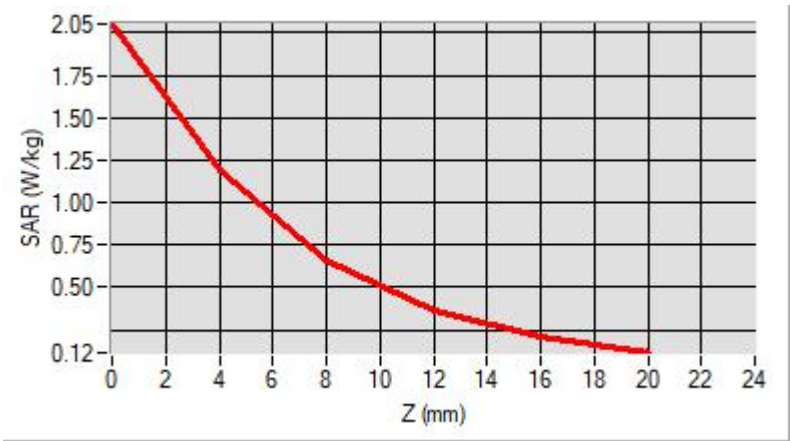


Maximum location: X=-18.00, Y=20.00
D. SAR 1g & 10g

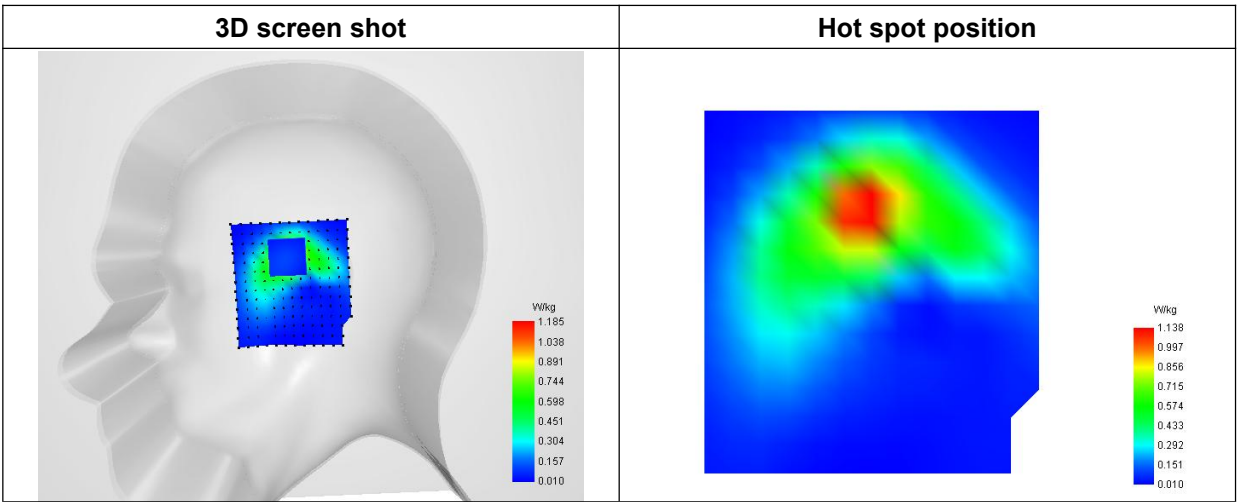
SAR 10g (W/Kg)	0.535085
SAR 1g (W/Kg)	1.086138

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.0514	1.1850	0.6624	0.3690	0.2112



F. 3D Image



MEASUREMENT 12

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

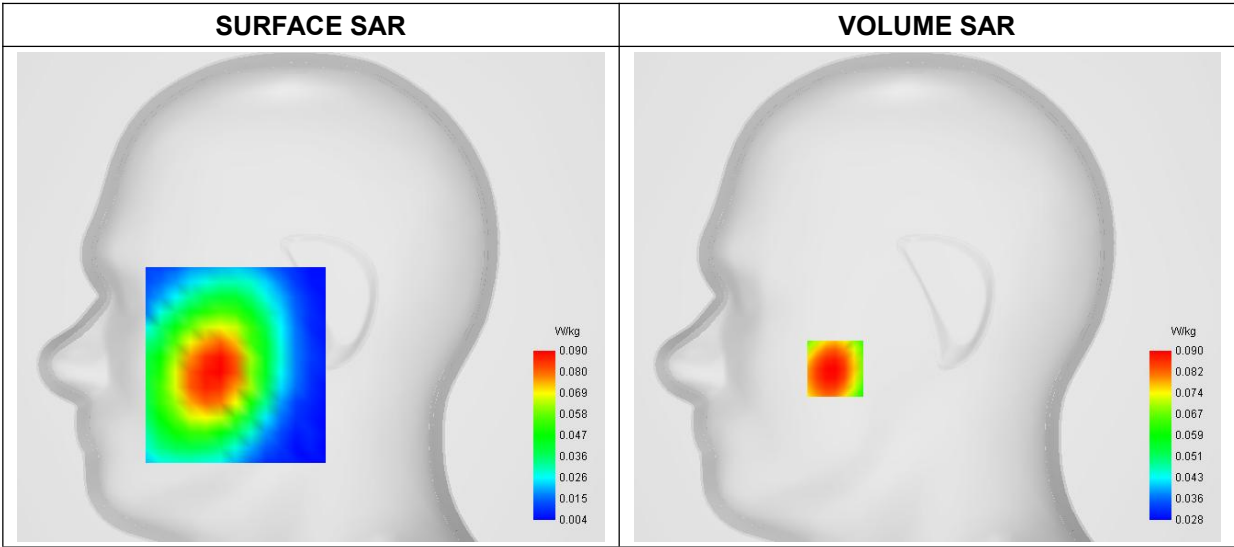
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 12
Channels	16QAM, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.154156
Conductivity (S/m)	0.863182
Power Variation (%)	-1.785400
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

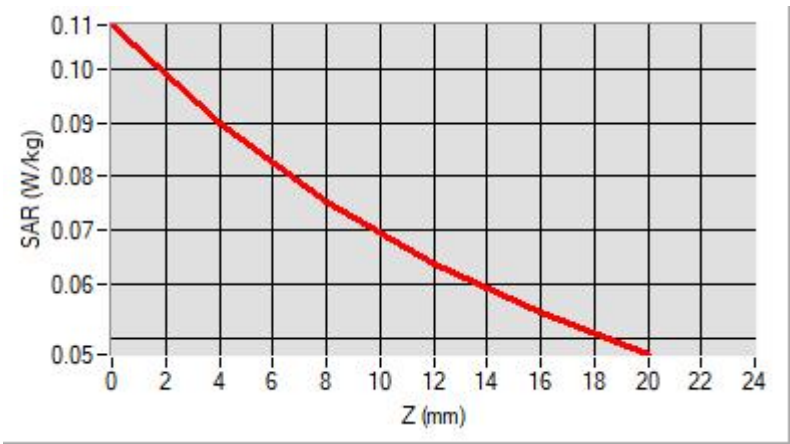


Maximum location: X=-49.00, Y=-38.00
D. SAR 1g & 10g

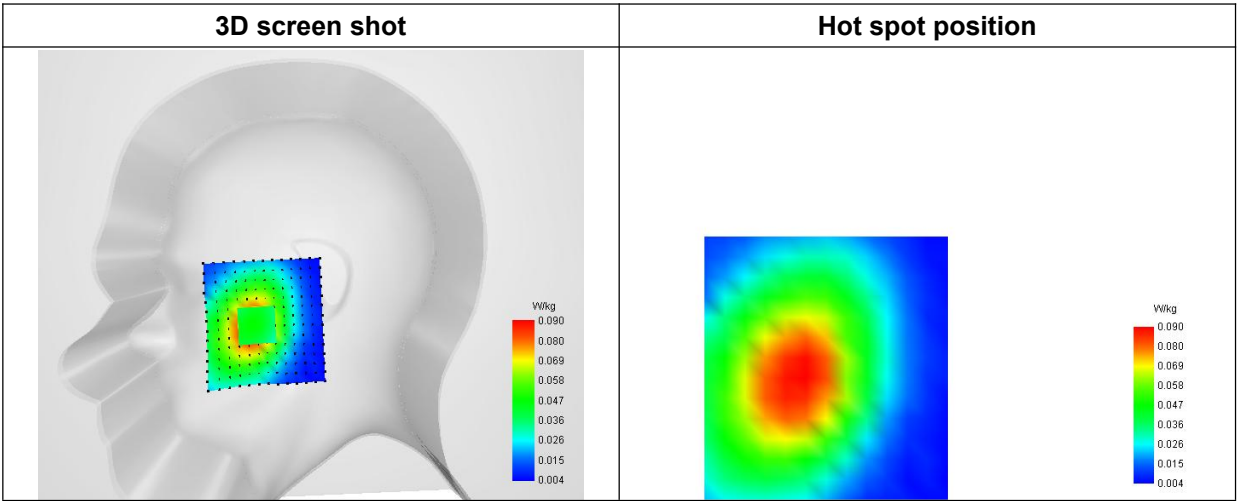
SAR 10g (W/Kg)	0.067726
SAR 1g (W/Kg)	0.088419

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1083	0.0899	0.0752	0.0636	0.0546



F. 3D Image



MEASUREMENT 13

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

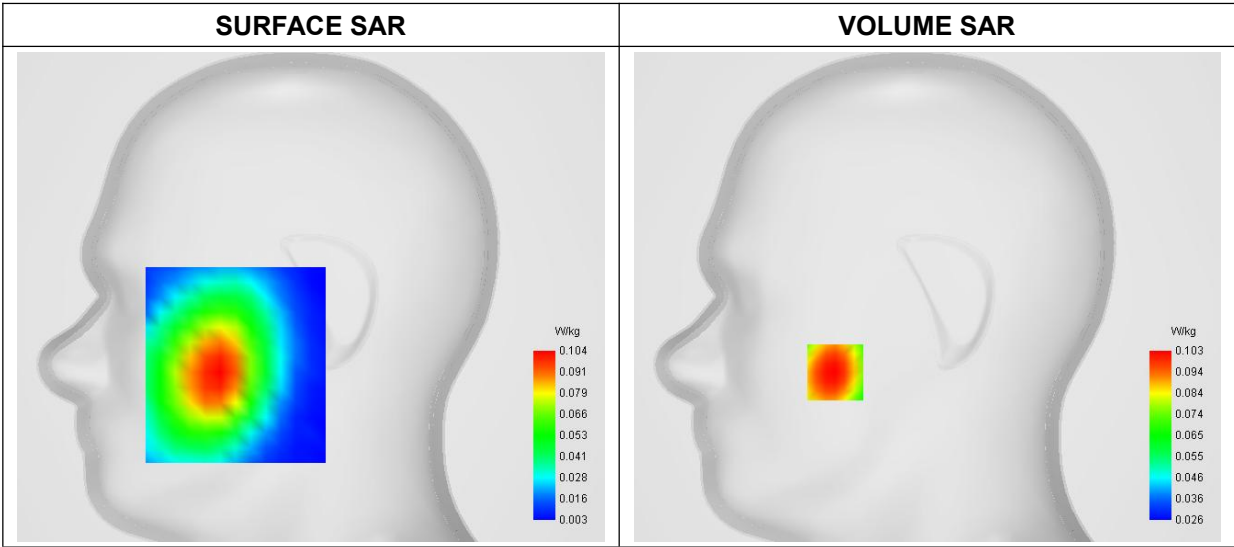
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 13
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	782.000000
Relative Permittivity (real part)	41.154262
Conductivity (S/m)	0.861925
Power Variation (%)	0.199100
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

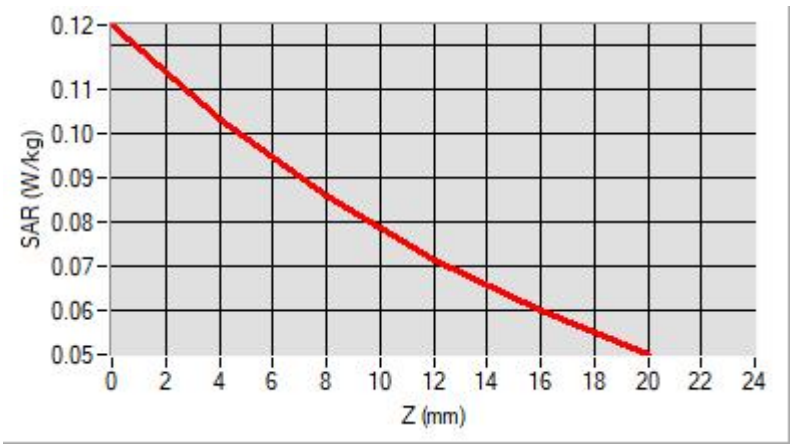


Maximum location: X=-49.00, Y=-40.00
D. SAR 1g & 10g

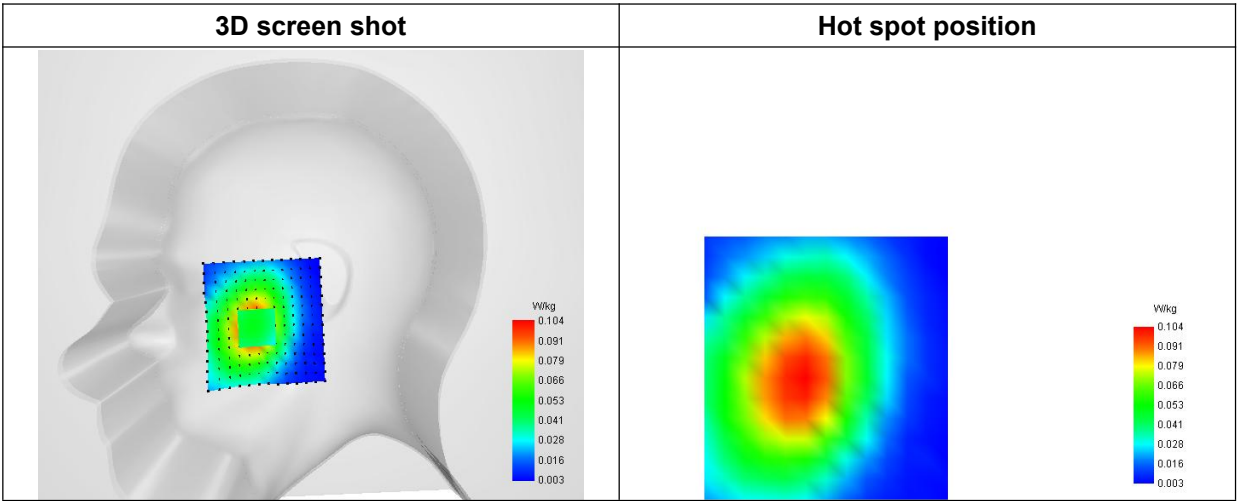
SAR 10g (W/Kg)	0.074730
SAR 1g (W/Kg)	0.099160

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1247	0.1033	0.0857	0.0714	0.0598



F. 3D Image



MEASUREMENT 14

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

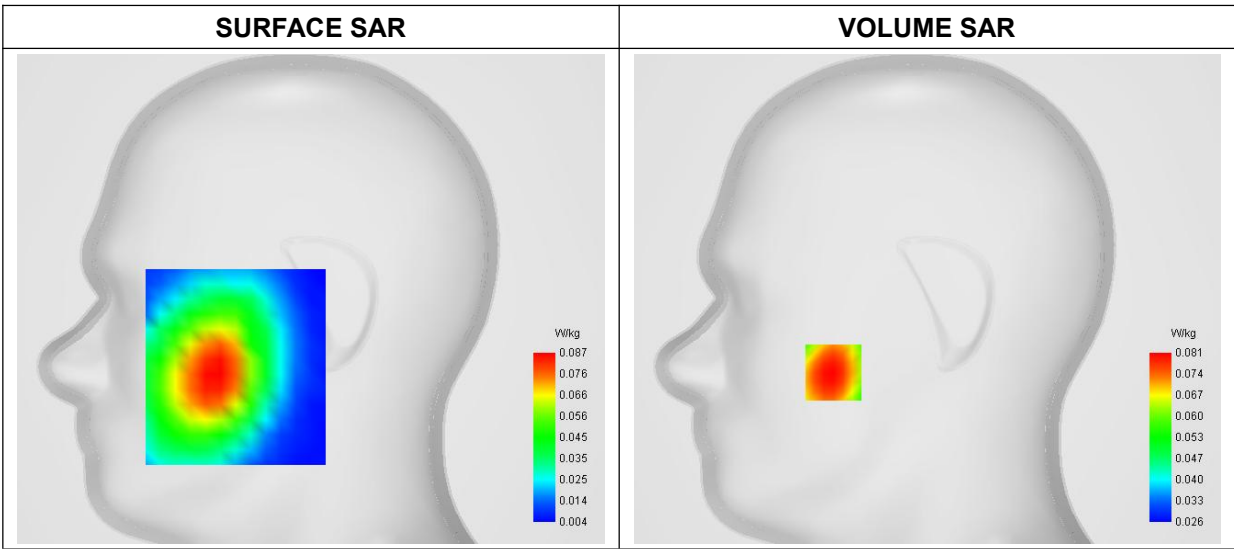
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	LTE Band 17
Channels	16QAM, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.154156
Conductivity (S/m)	0.863182
Power Variation (%)	-1.055800
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

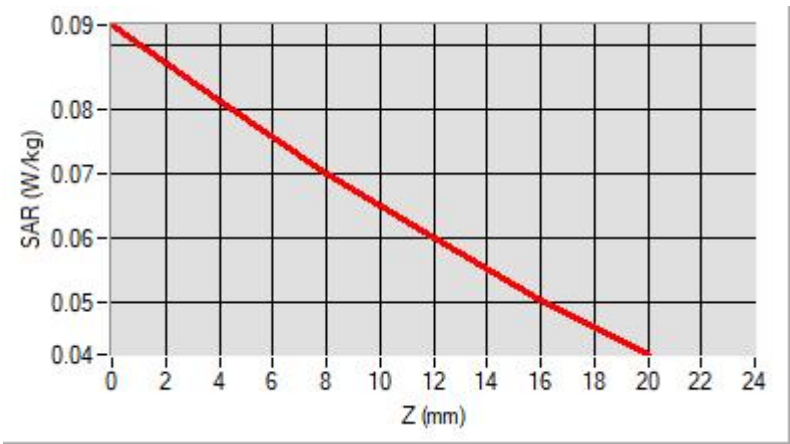


Maximum location: X=-50.00, Y=-39.00
D. SAR 1g & 10g

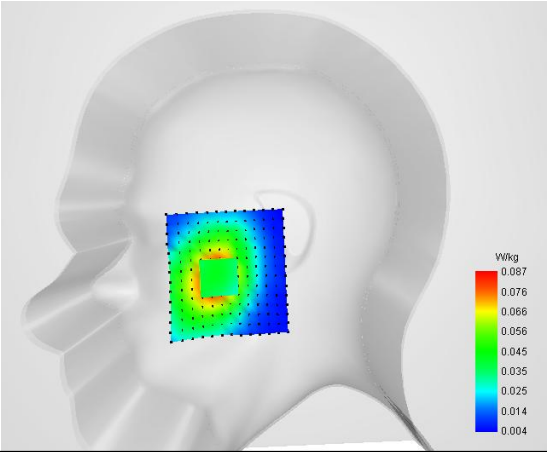
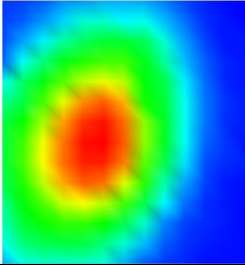
SAR 10g (W/Kg)	0.061702
SAR 1g (W/Kg)	0.079744

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0931	0.0812	0.0701	0.0599	0.0505



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 15

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

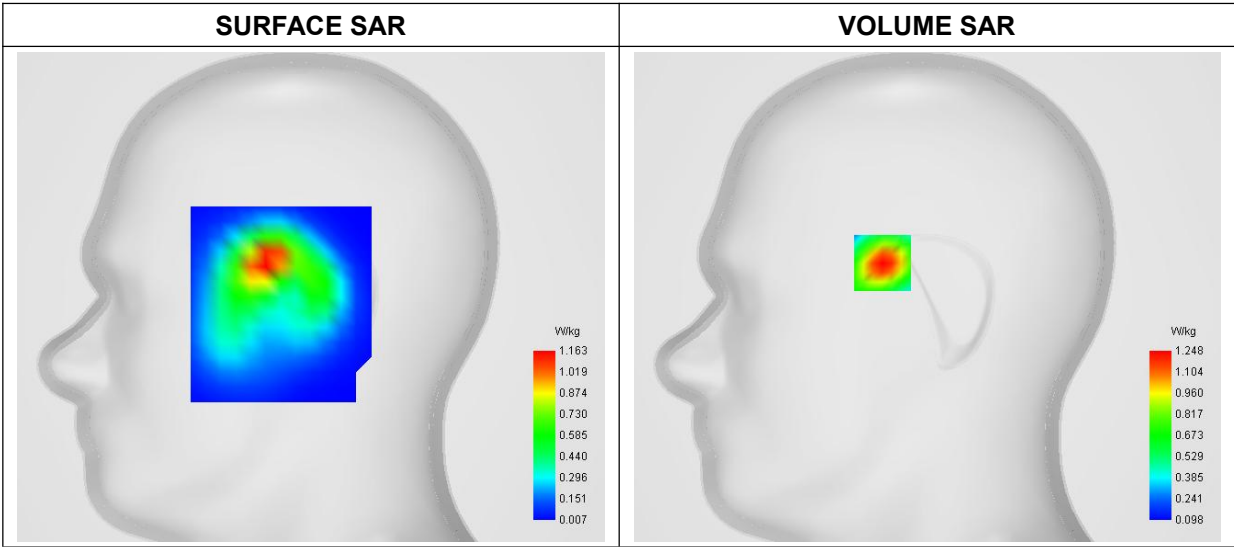
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 66
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.211275
Conductivity (S/m)	1.382872
Power Variation (%)	0.186990
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

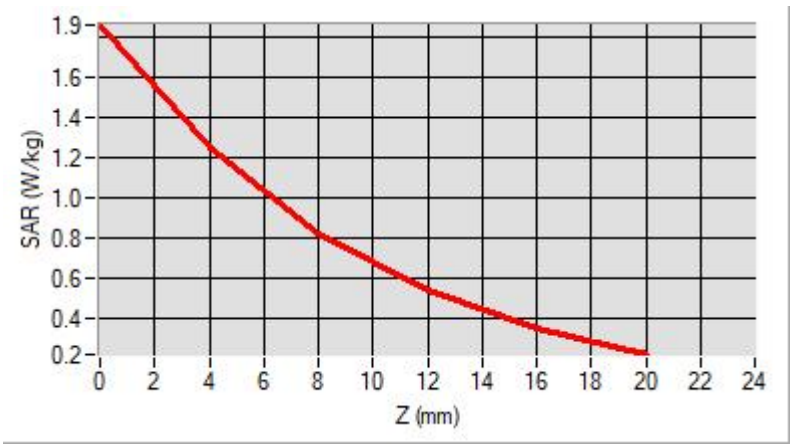


Maximum location: X=-24.00, Y=18.00
D. SAR 1g & 10g

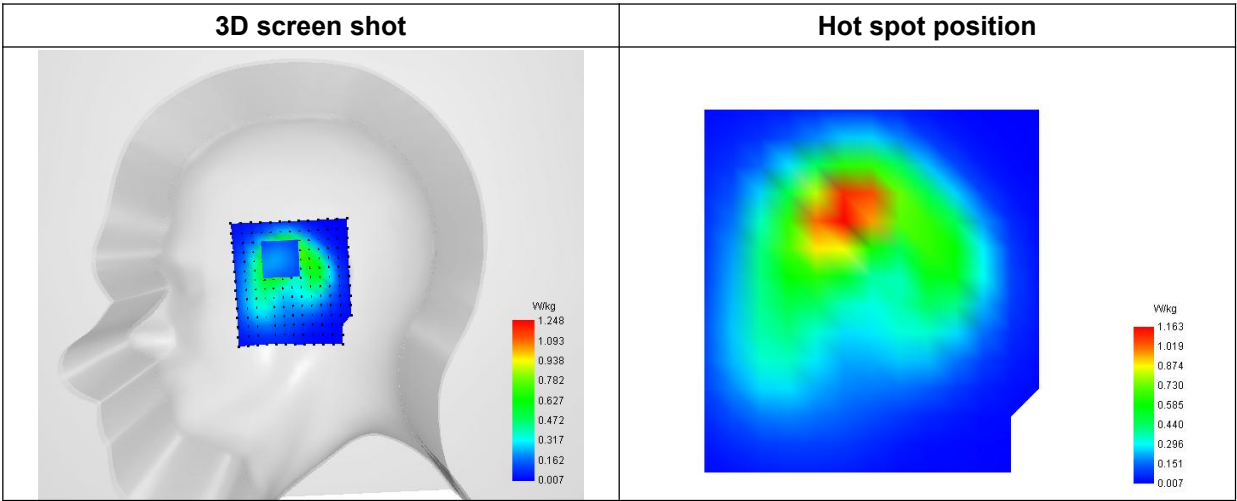
SAR 10g (W/Kg)	0.628421
SAR 1g (W/Kg)	1.139627

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.8598	1.2479	0.8237	0.5400	0.3525



F. 3D Image



MEASUREMENT 16

Type: Measurement (Complete)
Date of measurement: 2024-08-16
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.62; Calibrated: 2024-07-11

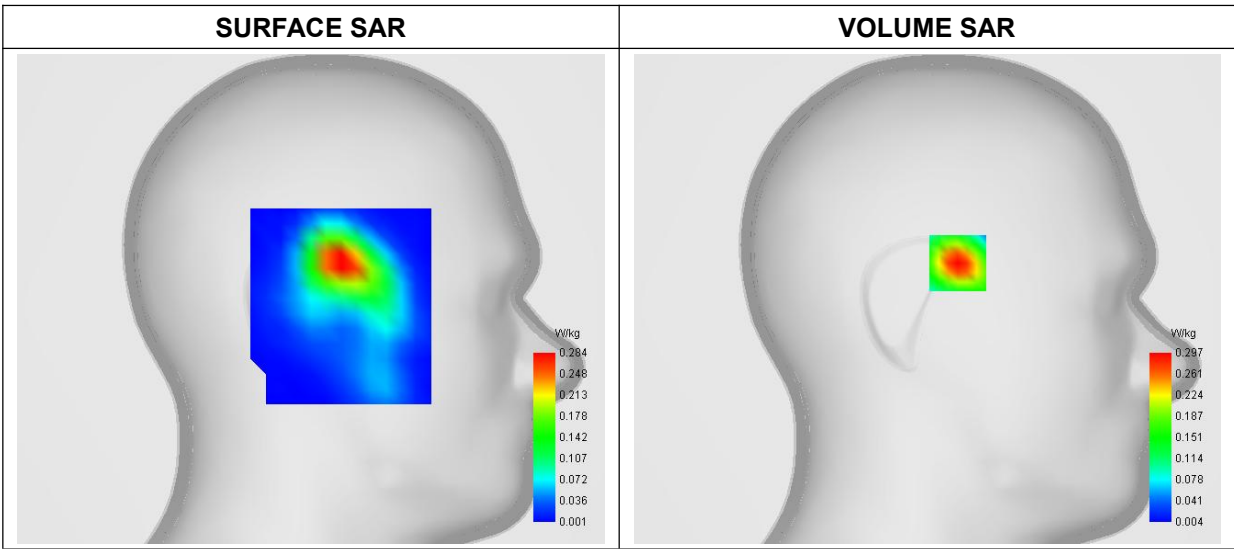
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	WiFi_802.11b
Channels	High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.534231
Conductivity (S/m)	1.773163
Power Variation (%)	-1.963800
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

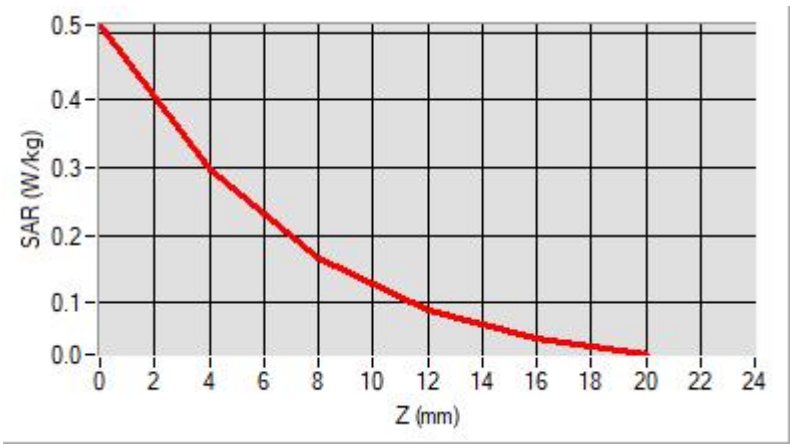


Maximum location: X=-16.00, Y=19.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.131612
SAR 1g (W/Kg)	0.271216

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5113	0.2973	0.1659	0.0904	0.0488



F. 3D Image

3D screen shot	Hot spot position
A 3D rendering of a human head model in profile. A rectangular area on the side of the head is highlighted with a color map, indicating the hot spot position. A color scale on the right ranges from 0.001 (blue) to 0.287 (red).	A 2D color map showing the hot spot position. The color scale on the right ranges from 0.001 (blue) to 0.284 (red).

MEASUREMENT 17

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

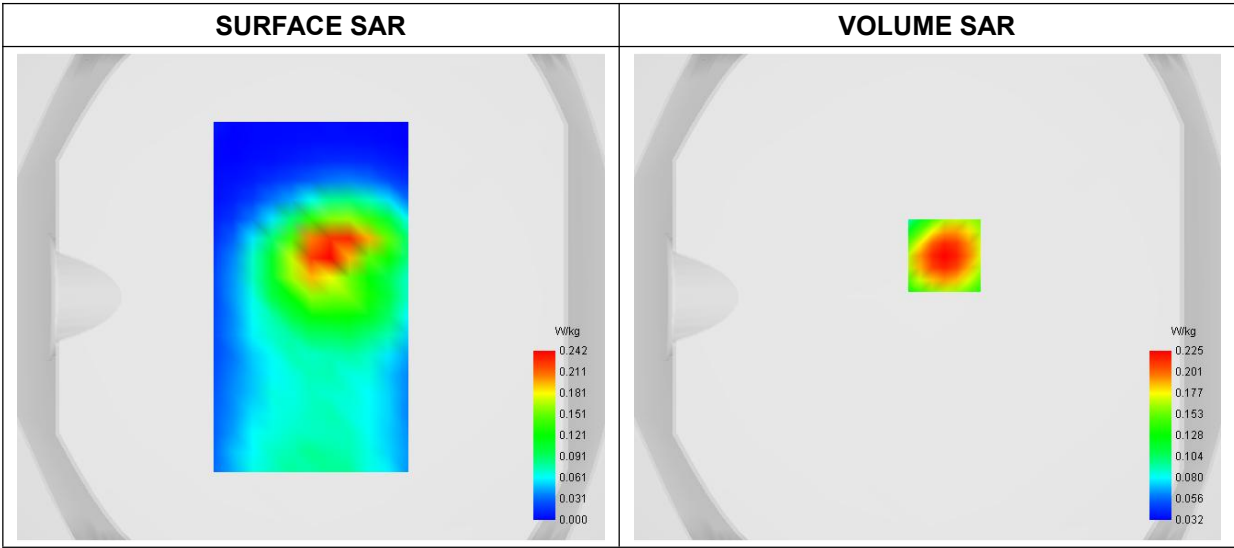
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GSM850
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	40.922245
Conductivity (S/m)	0.892455
Power Variation (%)	0.747200
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

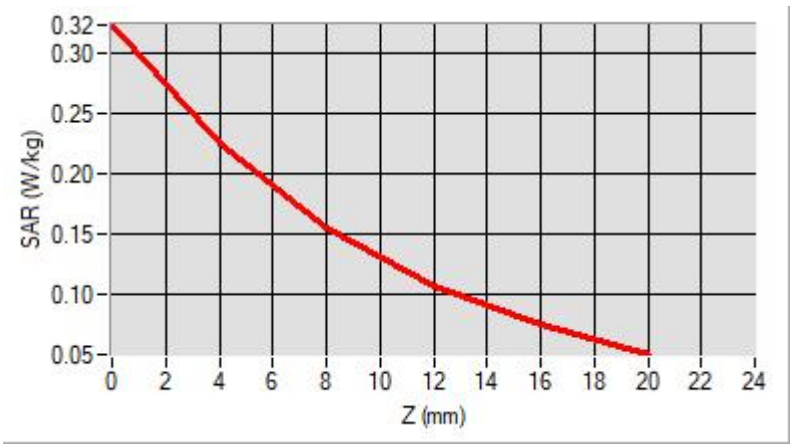


Maximum location: X=7.00, Y=17.00
D. SAR 1g & 10g

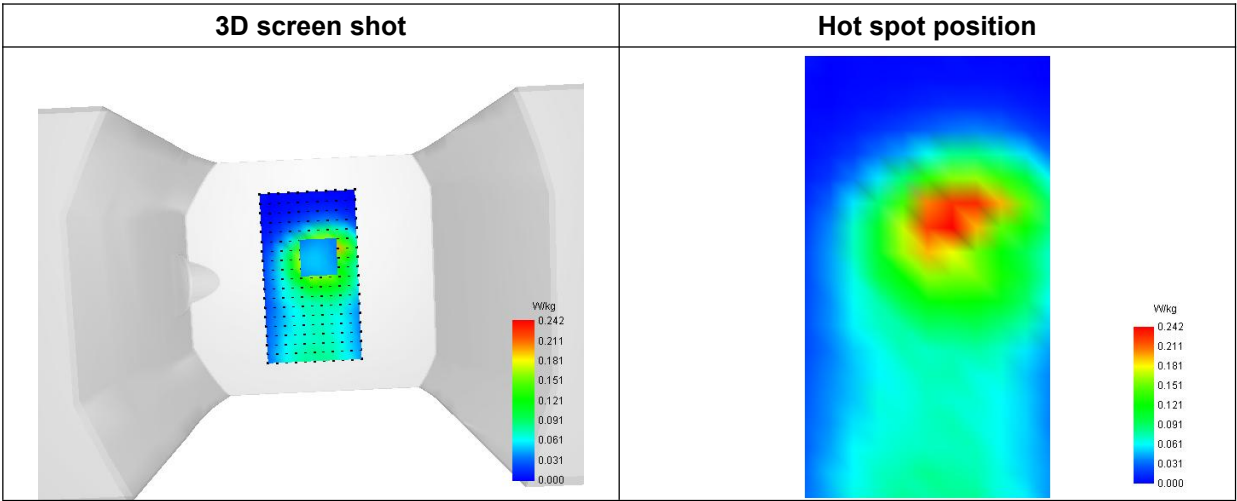
SAR 10g (W/Kg)	0.128640
SAR 1g (W/Kg)	0.210574

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3228	0.2246	0.1548	0.1068	0.0740



F. 3D Image



MEASUREMENT 18

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

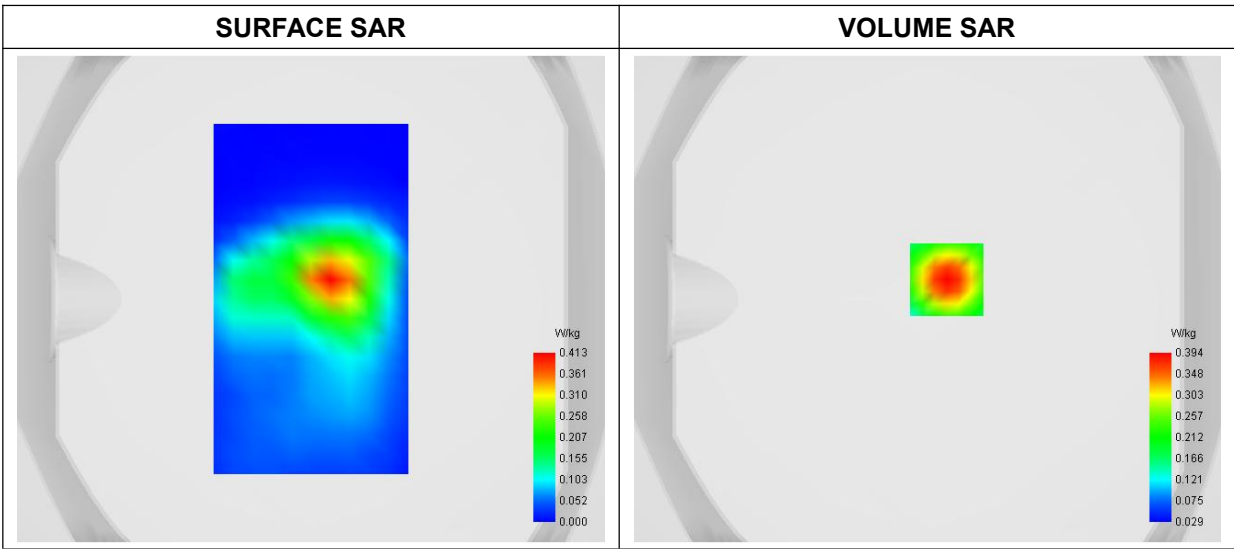
A. Experimental conditions

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)	39.212245
Conductivity (S/m)	1.384081
Power Variation (%)	-1.174100
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

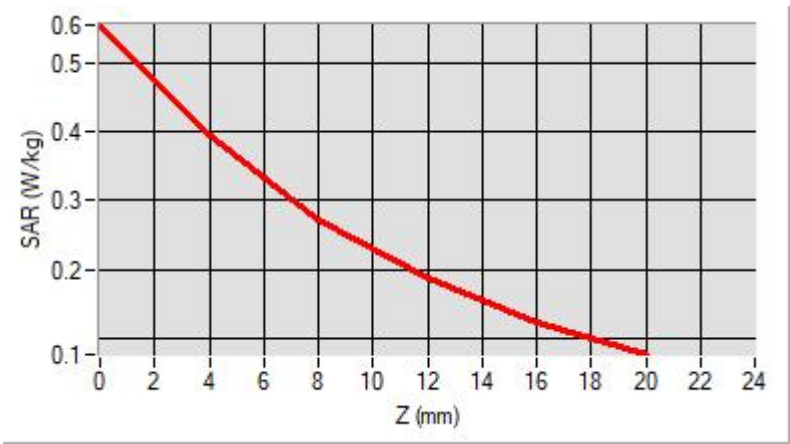


Maximum location: X=8.00, Y=8.00
D. SAR 1g & 10g

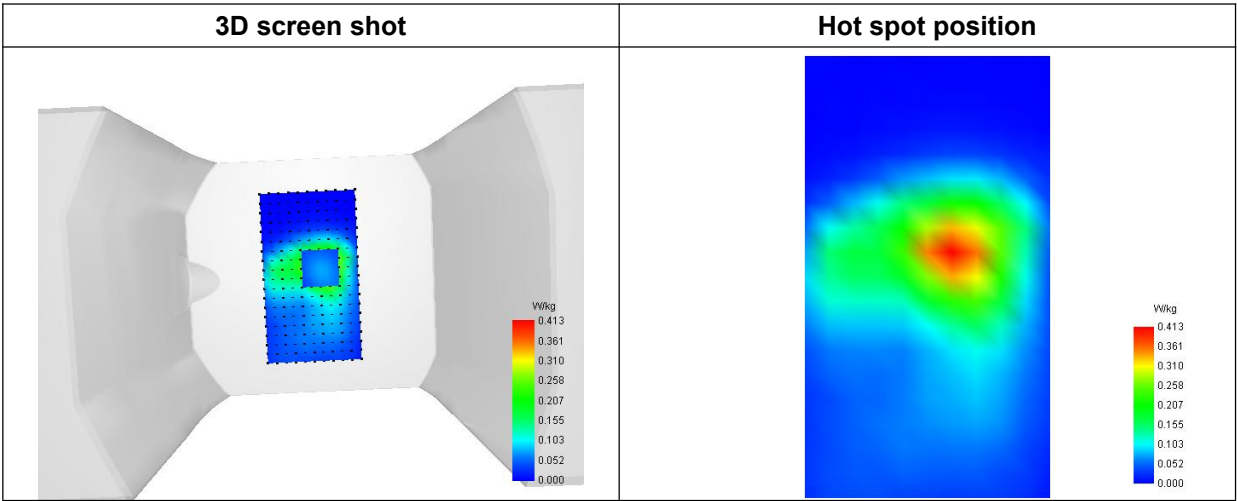
SAR 10g (W/Kg)	0.206424
SAR 1g (W/Kg)	0.361901

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5558	0.3939	0.2733	0.1858	0.1227



F. 3D Image



MEASUREMENT 19

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

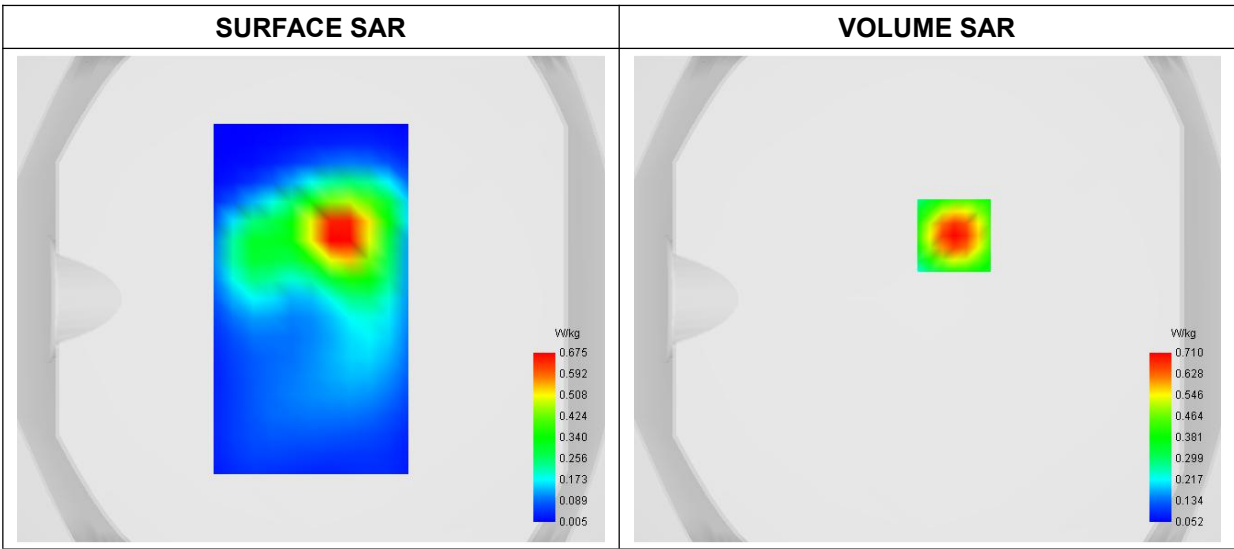
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA1900_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	39.211484
Conductivity (S/m)	1.383607
Power Variation (%)	-0.477500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

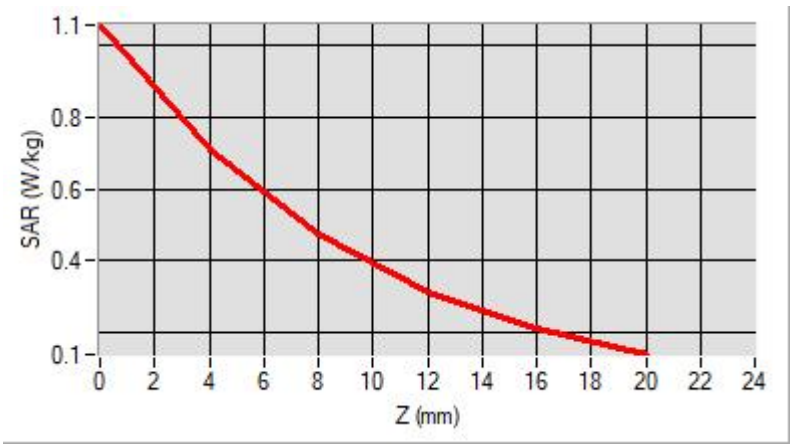


Maximum location: X=11.00, Y=26.00
D. SAR 1g & 10g

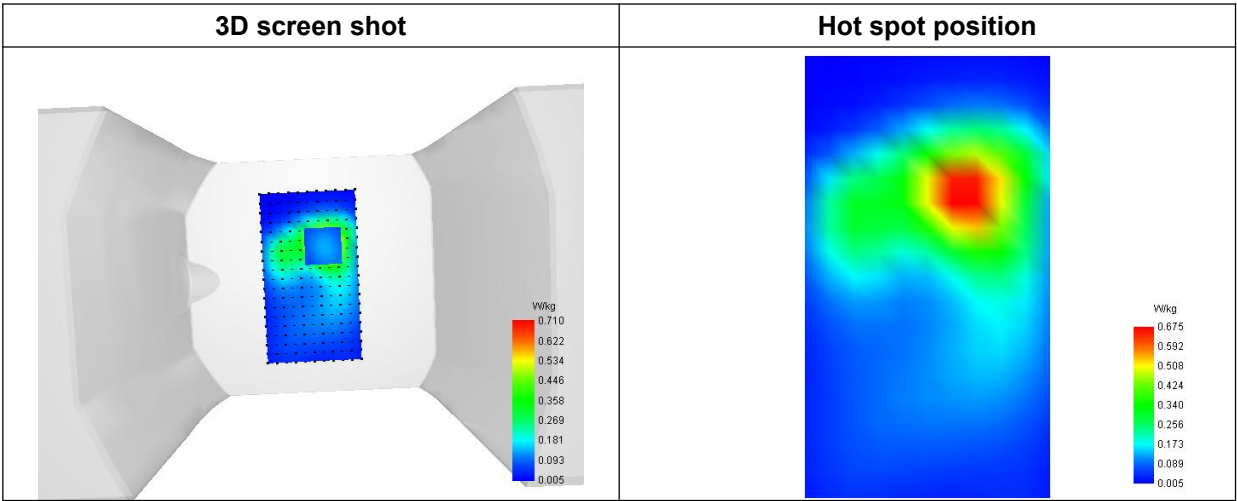
SAR 10g (W/Kg)	0.368422
SAR 1g (W/Kg)	0.653866

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0566	0.7104	0.4724	0.3152	0.2124



F. 3D Image



MEASUREMENT 20

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

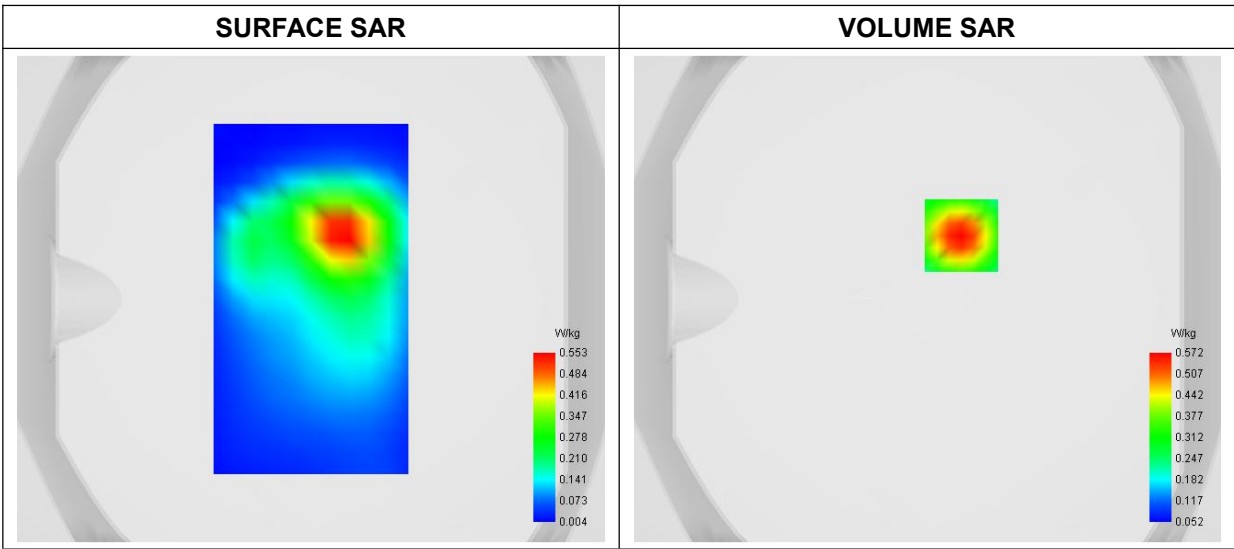
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA1700_RMC
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative Permittivity (real part)	39.211245
Conductivity (S/m)	1.383075
Power Variation (%)	0.542300
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

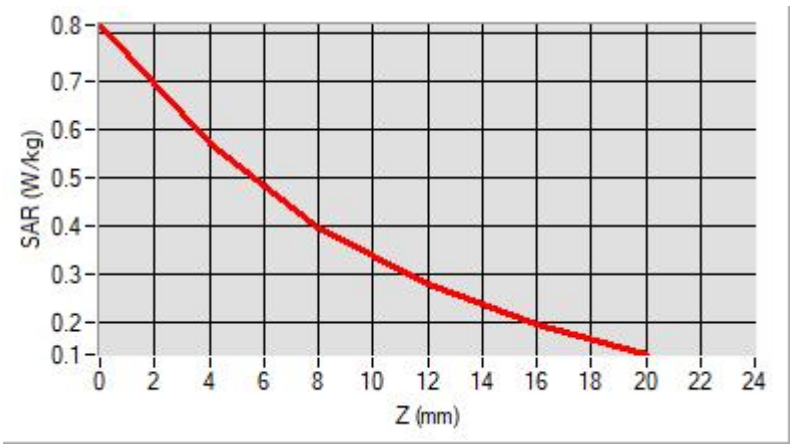


Maximum location: X=14.00, Y=26.00
D. SAR 1g & 10g

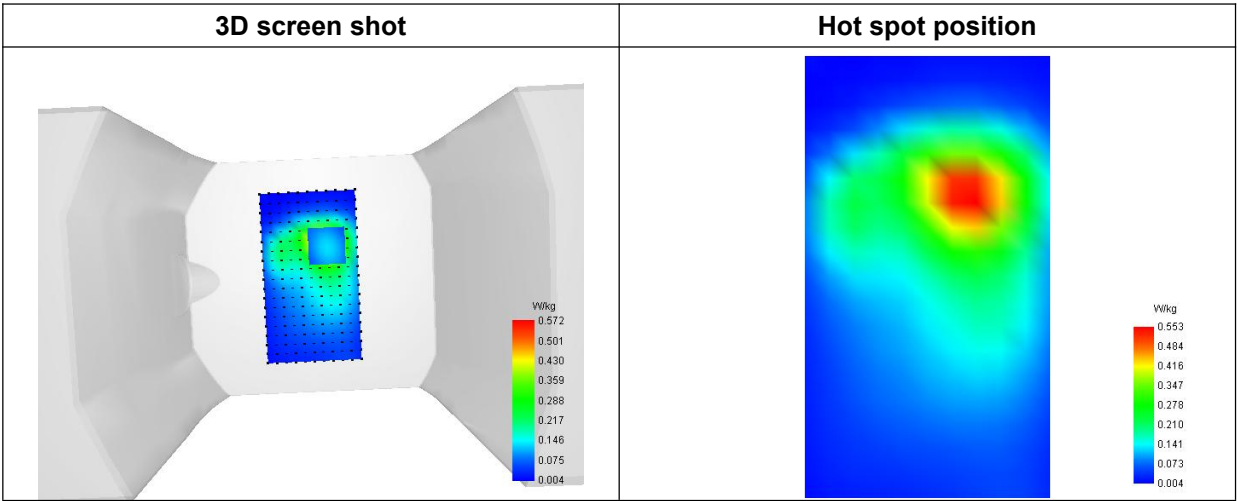
SAR 10g (W/Kg)	0.310215
SAR 1g (W/Kg)	0.526907

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.8155	0.5717	0.3979	0.2779	0.1955



F. 3D Image



MEASUREMENT 21/35

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

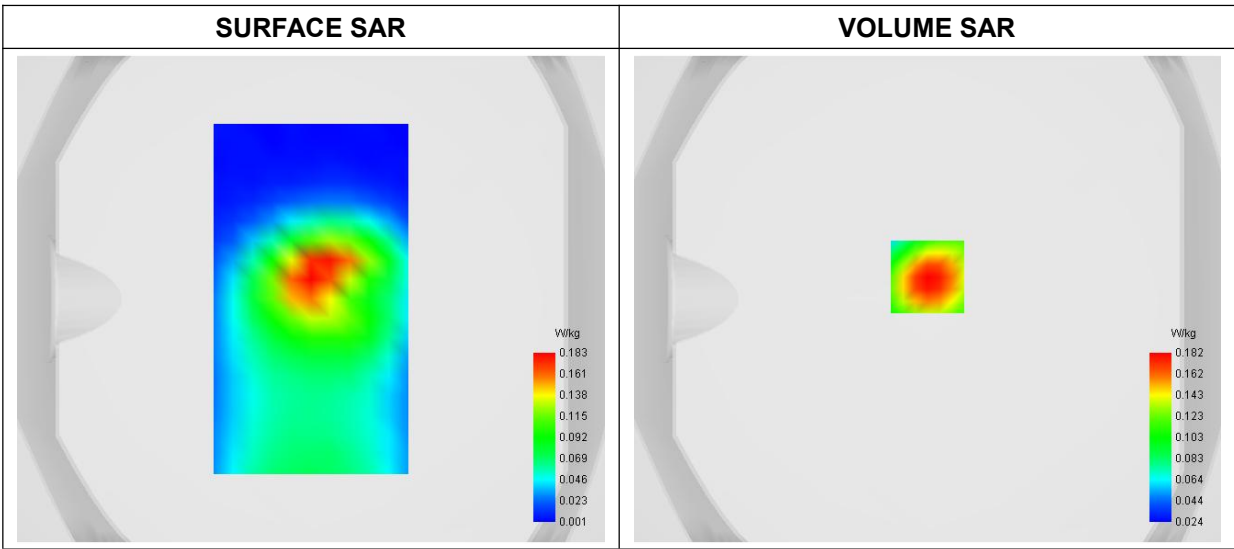
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA850_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	826.400000
Relative Permittivity (real part)	40.923325
Conductivity (S/m)	0.891245
Power Variation (%)	-1.239800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

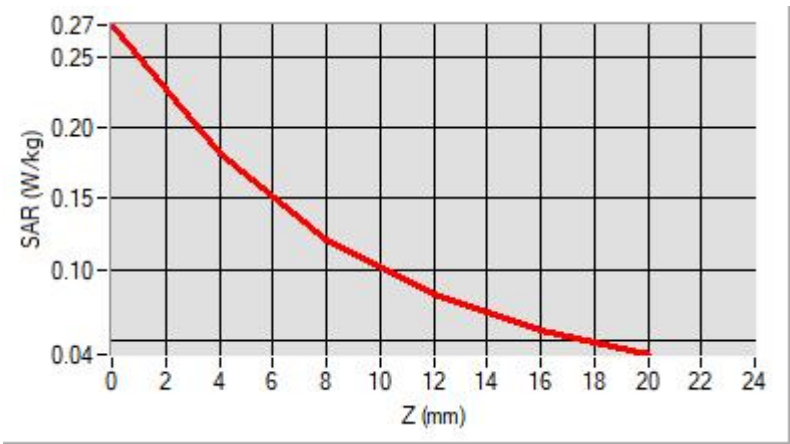


Maximum location: X=0.00, Y=9.00
D. SAR 1g & 10g

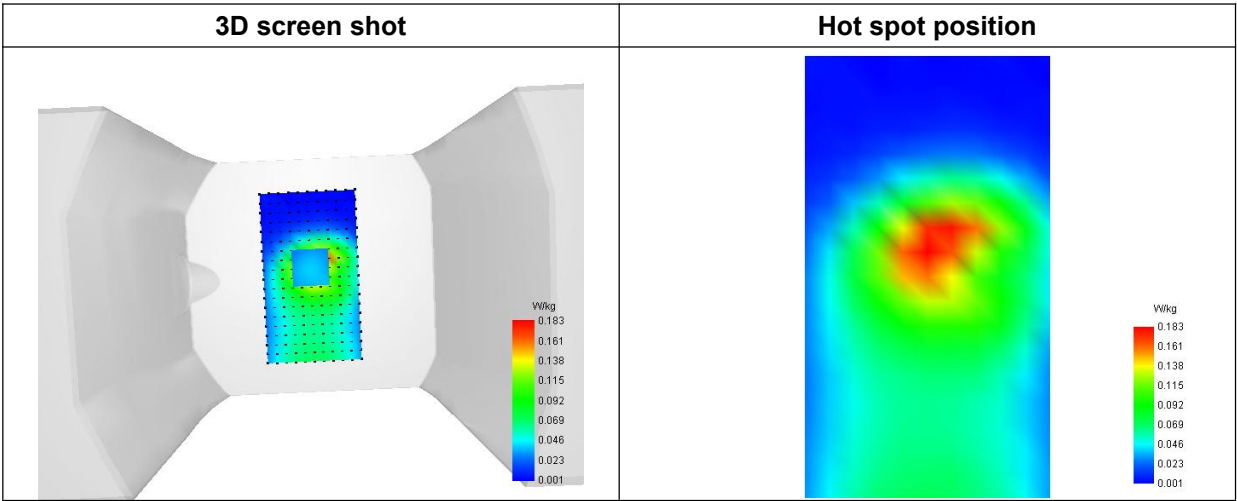
SAR 10g (W/Kg)	0.101873
SAR 1g (W/Kg)	0.170712

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2726	0.1819	0.1210	0.0819	0.0573



F. 3D Image



MEASUREMENT 22/36

Type: Measurement (Complete)
Date of measurement: 2024-08-14
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

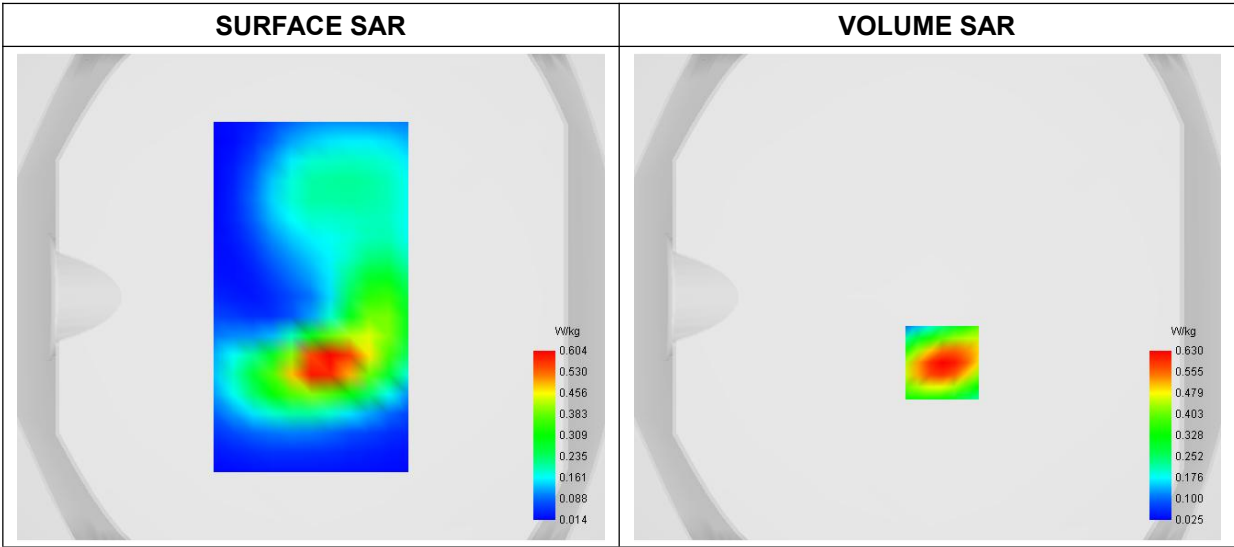
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Front
Band	LTE Band 2
Channels	16QAM, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	40.981461
Conductivity (S/m)	1.412369
Power Variation (%)	-0.194700
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

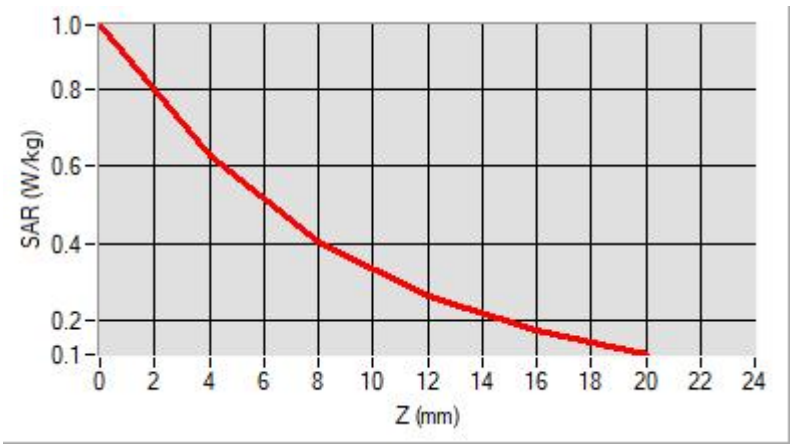


Maximum location: X=6.00, Y=-27.00
D. SAR 1g & 10g

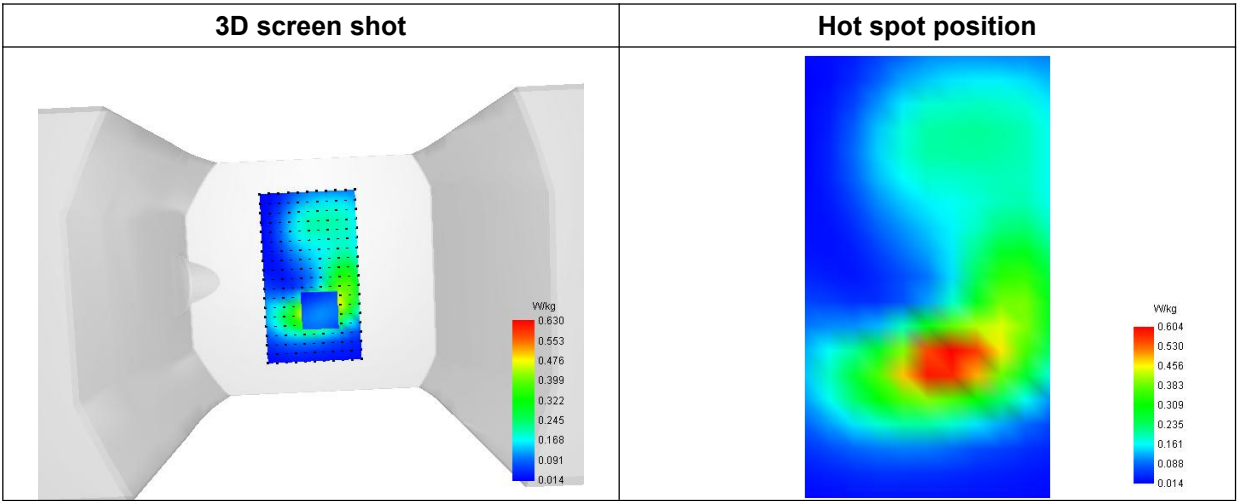
SAR 10g (W/Kg)	0.323136
SAR 1g (W/Kg)	0.580854

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9673	0.6305	0.4059	0.2630	0.1734



F. 3D Image



MEASUREMENT 23

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

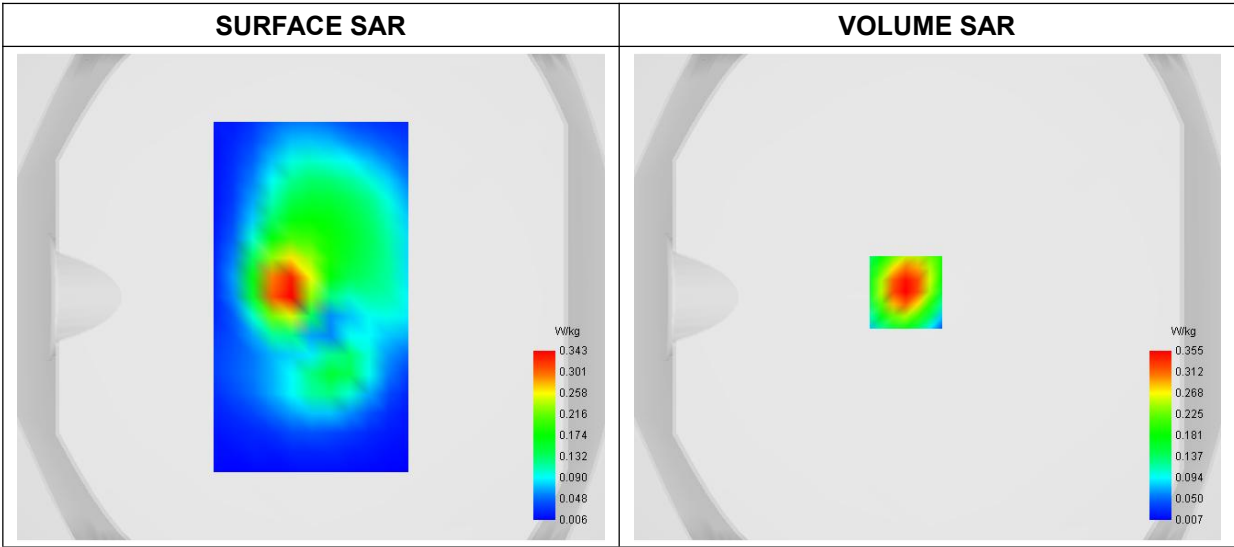
A. Experimental conditions

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, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.211275
Conductivity (S/m)	1.382872
Power Variation (%)	-0.866400
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

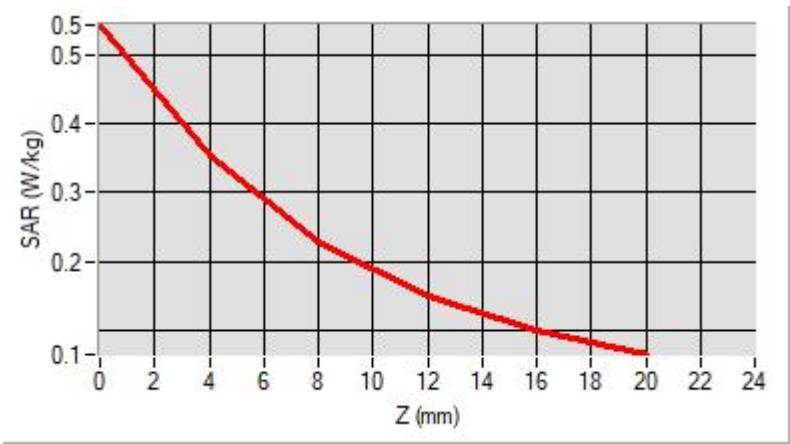


Maximum location: X=-9.00, Y=2.00
D. SAR 1g & 10g

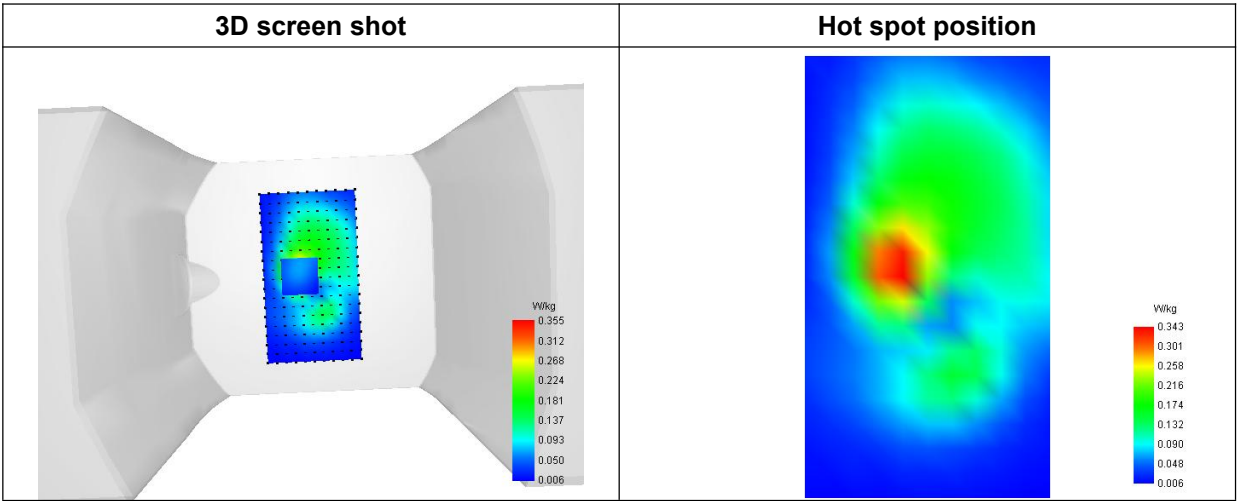
SAR 10g (W/Kg)	0.179521
SAR 1g (W/Kg)	0.327294

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5440	0.3552	0.2294	0.1493	0.0991



F. 3D Image



MEASUREMENT 24/38

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

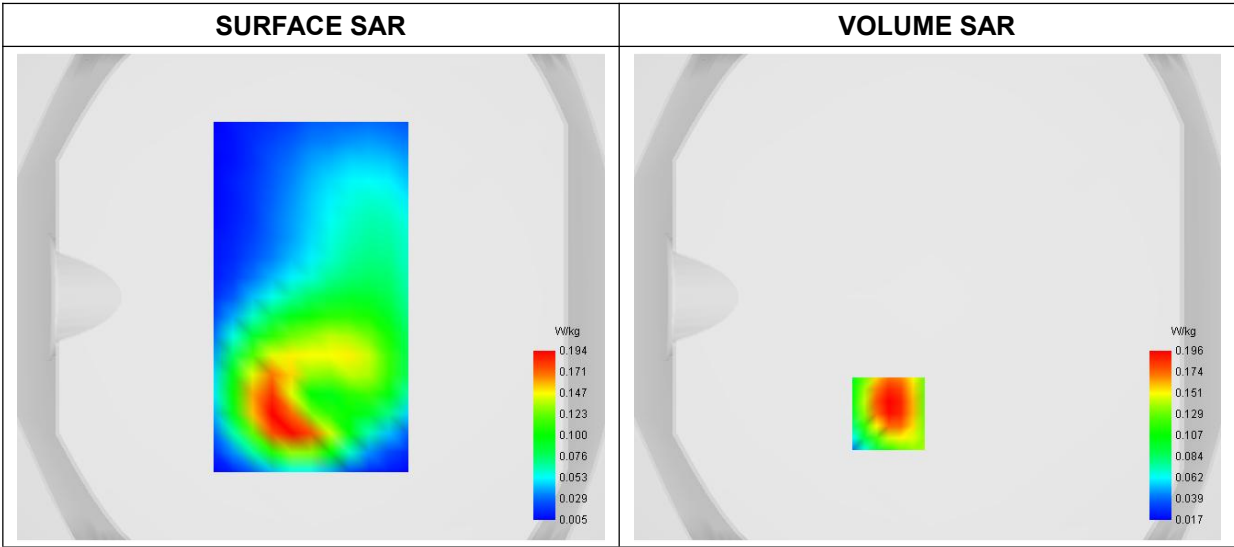
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	829.000000
Relative Permittivity (real part)	40.923245
Conductivity (S/m)	0.892455
Power Variation (%)	-0.814400
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

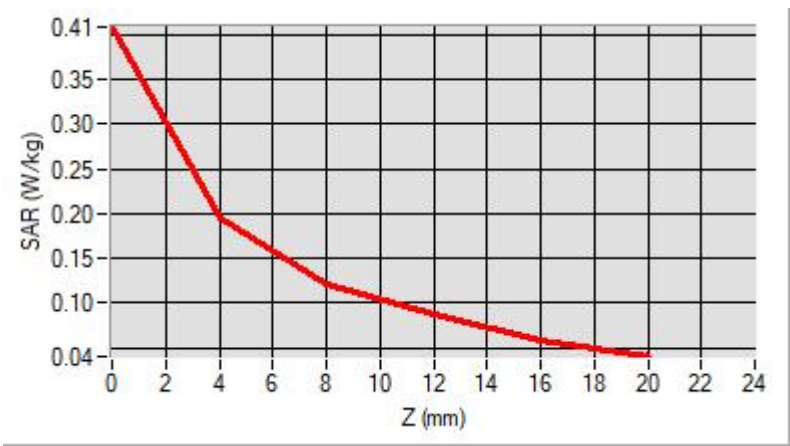


Maximum location: X=-16.00, Y=-48.00
D. SAR 1g & 10g

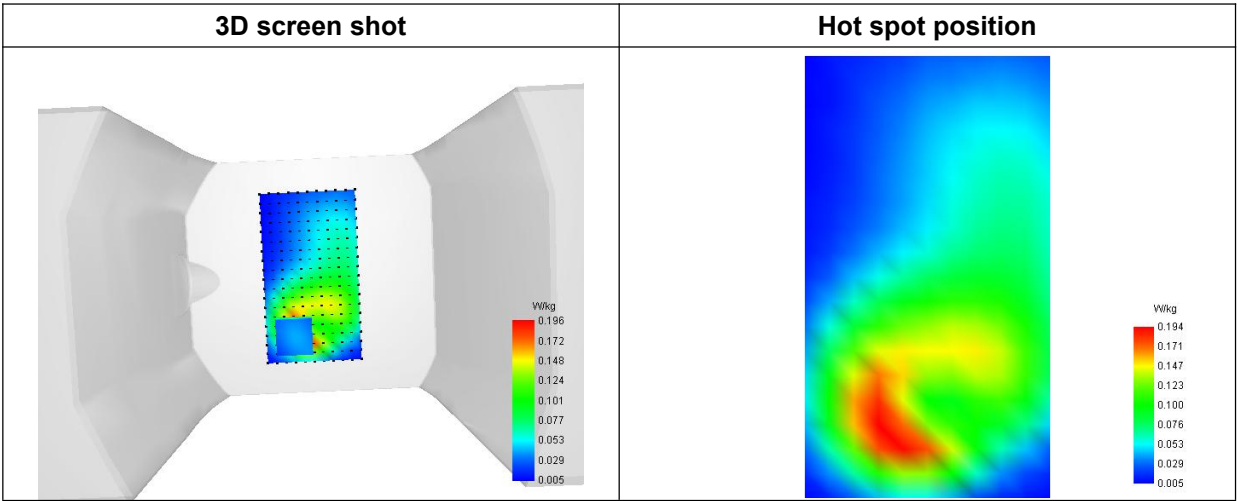
SAR 10g (W/Kg)	0.107880
SAR 1g (W/Kg)	0.184011

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4090	0.1960	0.1202	0.0881	0.0579



F. 3D Image



MEASUREMENT 25

Type: Measurement (Complete)
Date of measurement: 2024-08-19
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.50; Calibrated: 2024-07-11

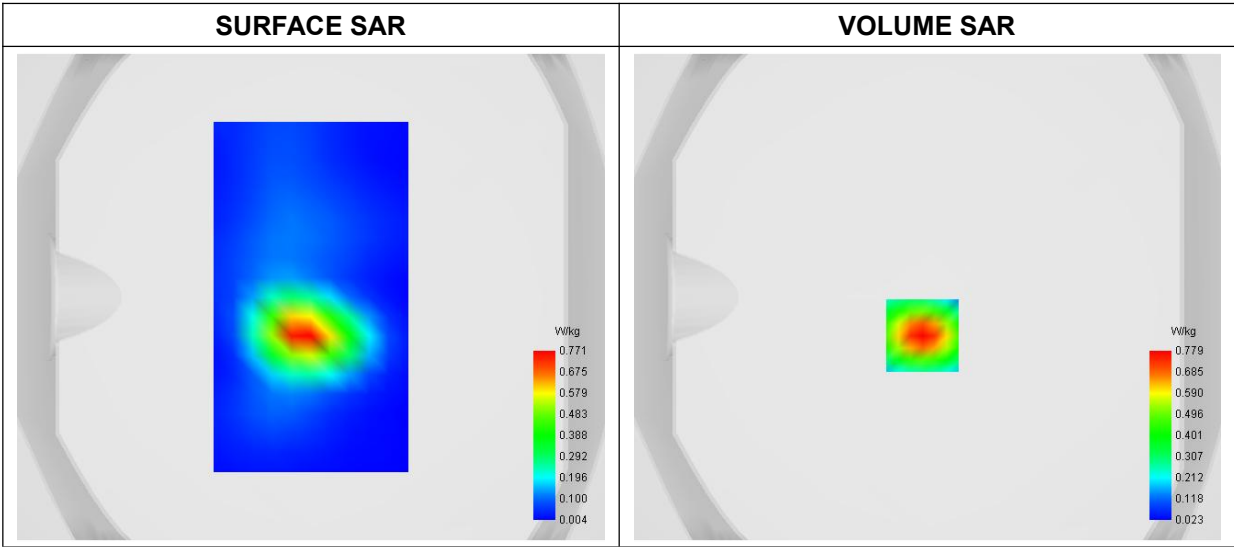
A. Experimental conditions

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	16QAM, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative Permittivity (real part)	39.741146
Conductivity (S/m)	1.922391
Power Variation (%)	-0.194700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

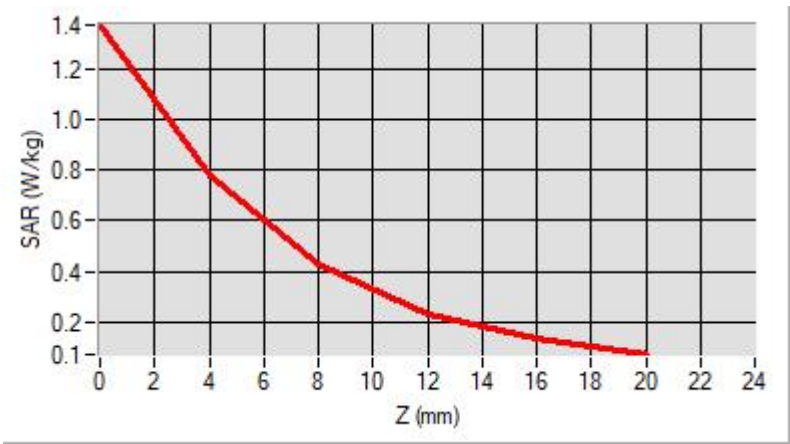


Maximum location: X=-2.00, Y=-16.00
D. SAR 1g & 10g

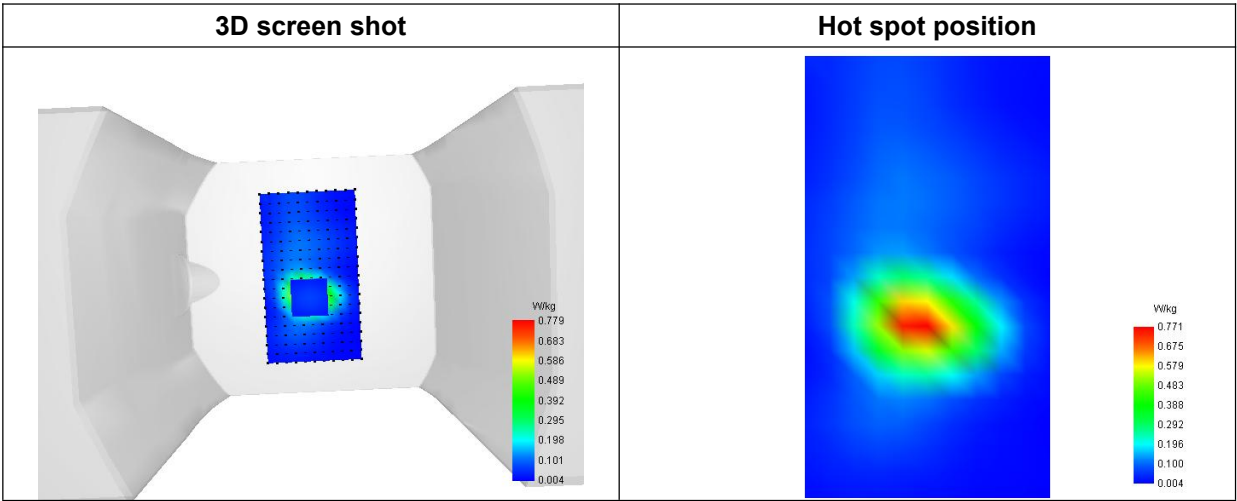
SAR 10g (W/Kg)	0.336357
SAR 1g (W/Kg)	0.708671

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.3742	0.7795	0.4265	0.2325	0.1310



F. 3D Image



MEASUREMENT 26/40

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

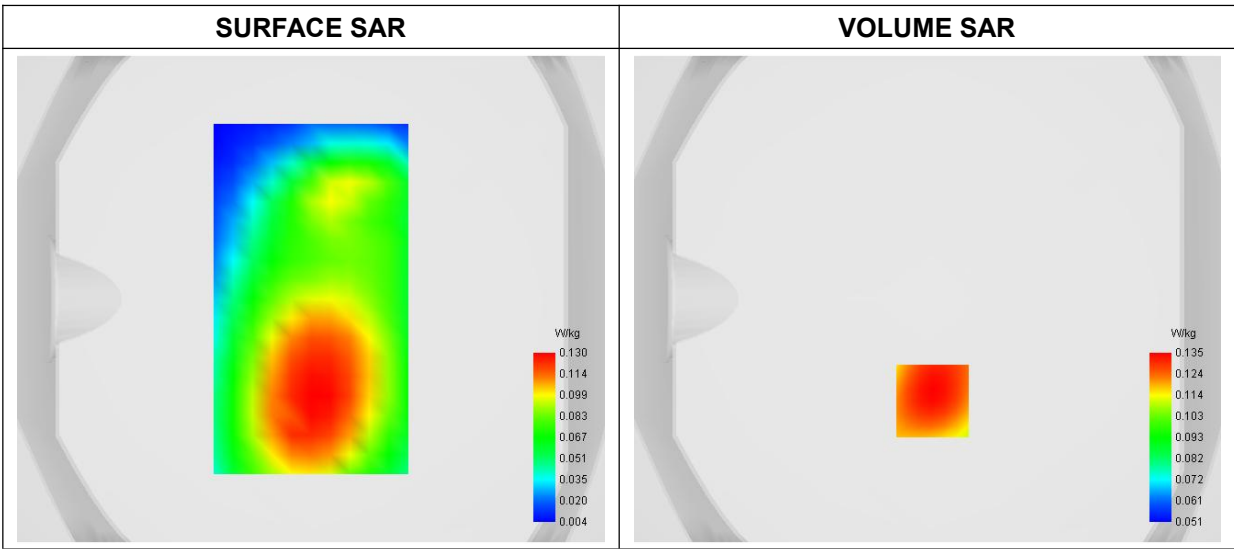
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 12
Channels	16QAM, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.154156
Conductivity (S/m)	0.863182
Power Variation (%)	0.575100
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

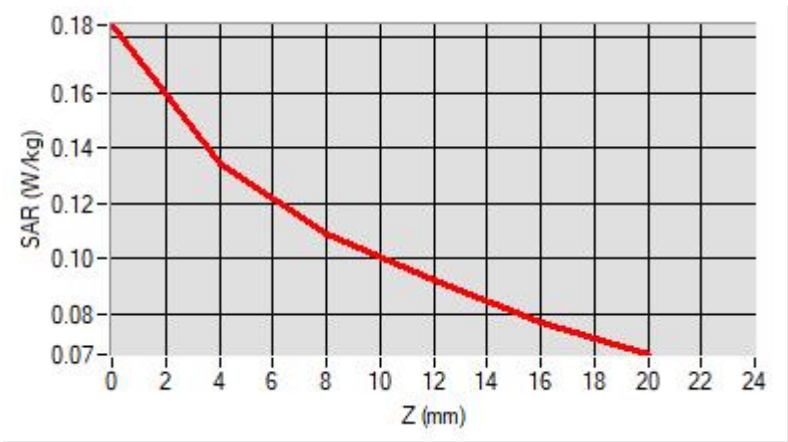


Maximum location: X=2.00, Y=-42.00
D. SAR 1g & 10g

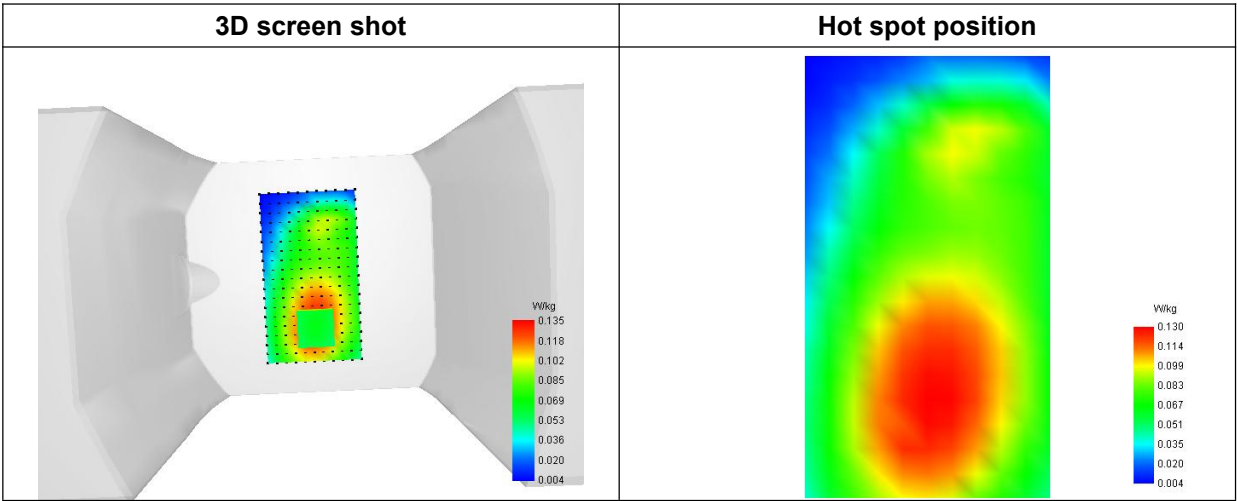
SAR 10g (W/Kg)	0.101309
SAR 1g (W/Kg)	0.132647

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1846	0.1345	0.1091	0.0922	0.0769



F. 3D Image



MEASUREMENT 27/41

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

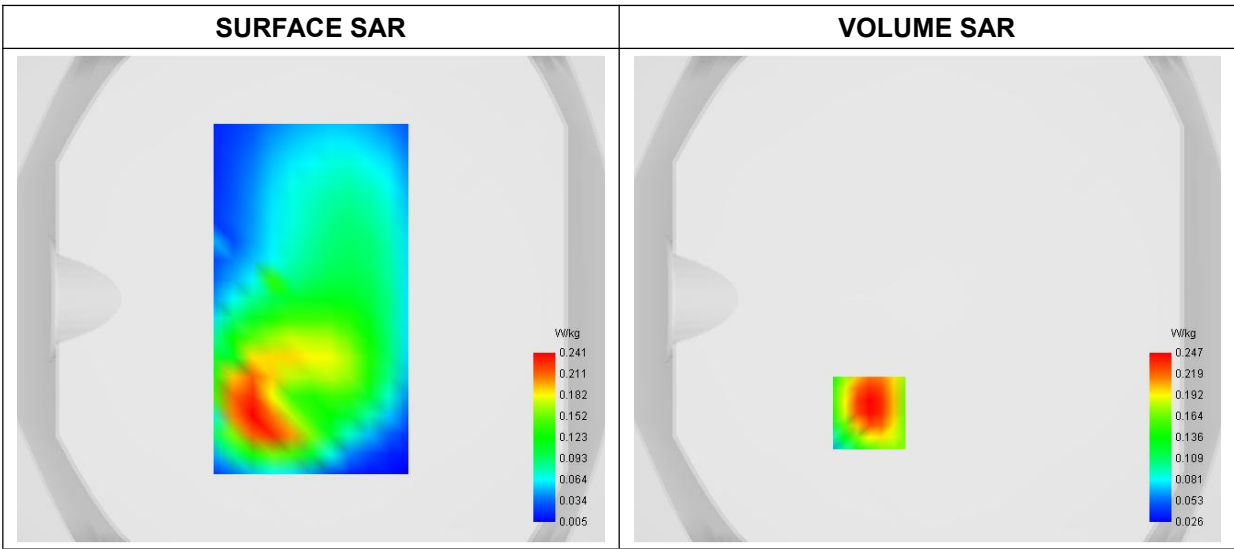
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 13
Channels	QPSK, 10MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	782.000000
Relative Permittivity (real part)	41.154262
Conductivity (S/m)	0.861925
Power Variation (%)	0.361500
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

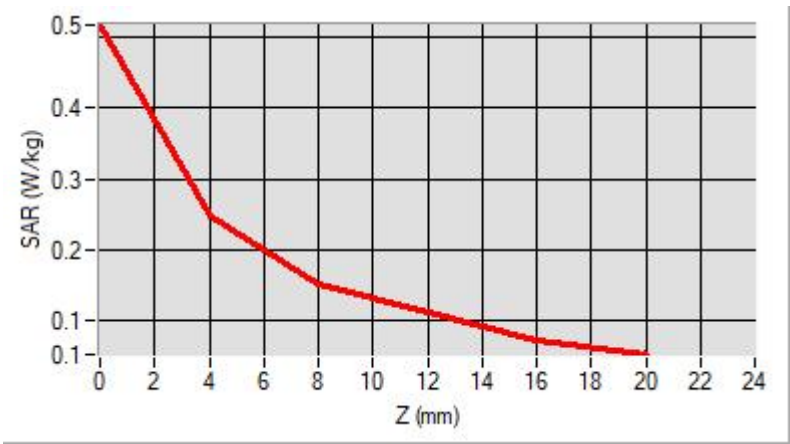


Maximum location: X=-24.00, Y=-47.00
D. SAR 1g & 10g

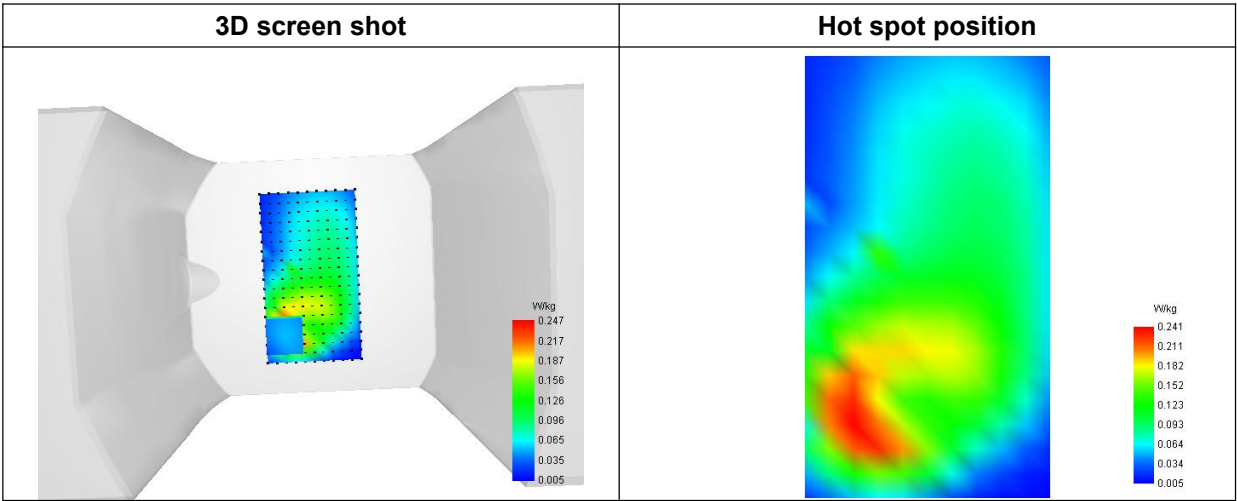
SAR 10g (W/Kg)	0.137909
SAR 1g (W/Kg)	0.232556

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5173	0.2471	0.1515	0.1109	0.0730



F. 3D Image



MEASUREMENT 28/42

Type: Measurement (Complete)
Date of measurement: 2024-08-08
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.27; Calibrated: 2024-07-11

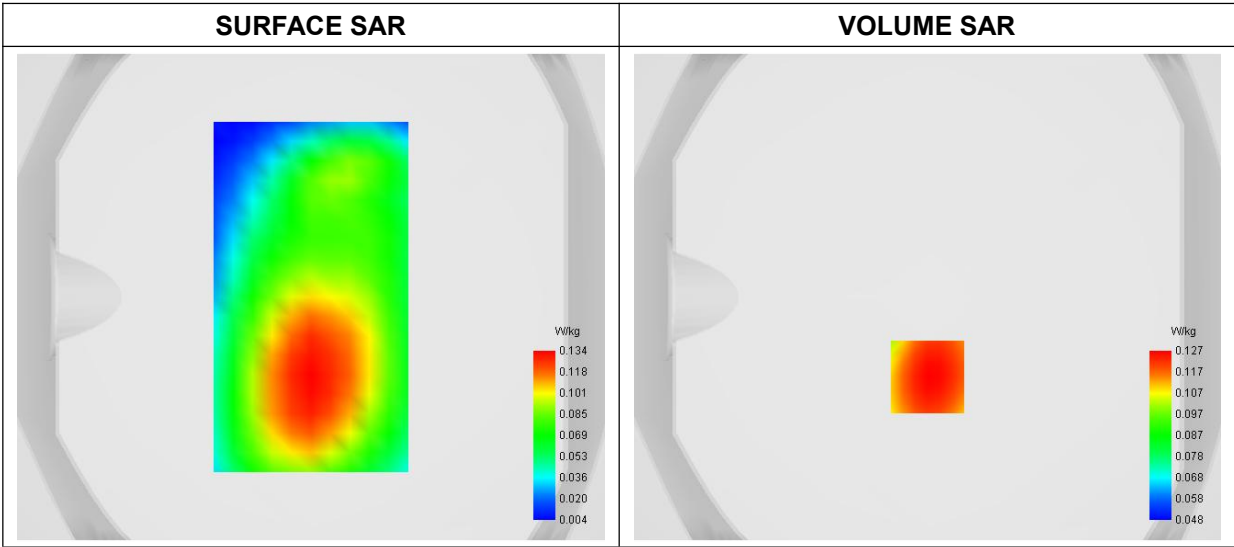
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 17
Channels	16QAM, 10MHz, 1RB, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	711.000000
Relative Permittivity (real part)	41.154156
Conductivity (S/m)	0.863182
Power Variation (%)	1.861700
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

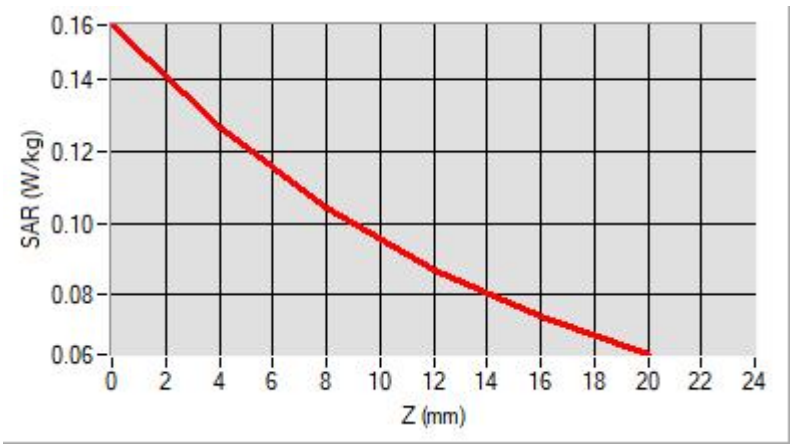


Maximum location: X=0.00, Y=-33.00
D. SAR 1g & 10g

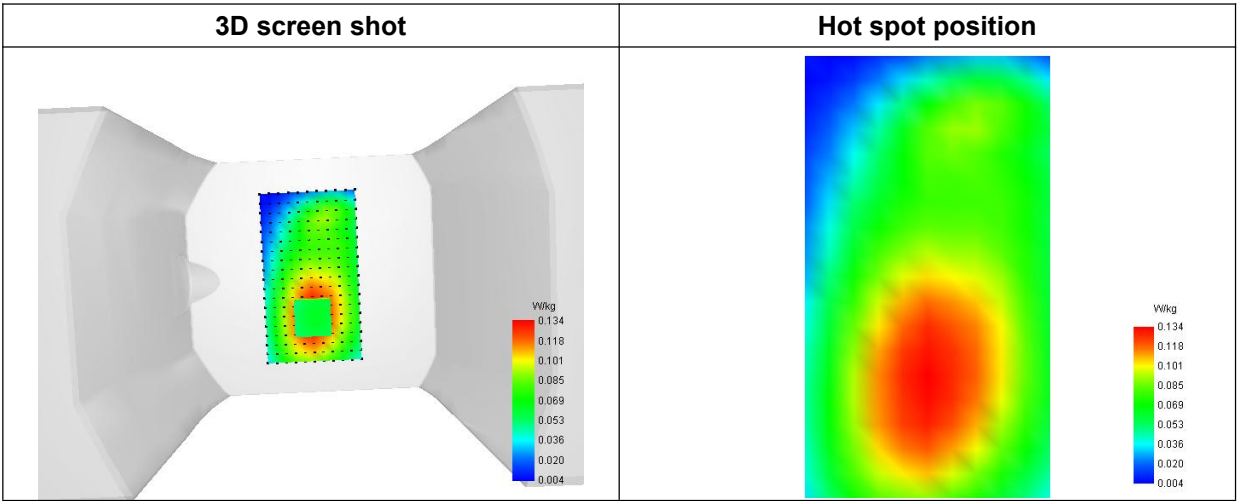
SAR 10g (W/Kg)	0.096150
SAR 1g (W/Kg)	0.125171

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1554	0.1267	0.1042	0.0871	0.0742



F. 3D Image



MEASUREMENT 29

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

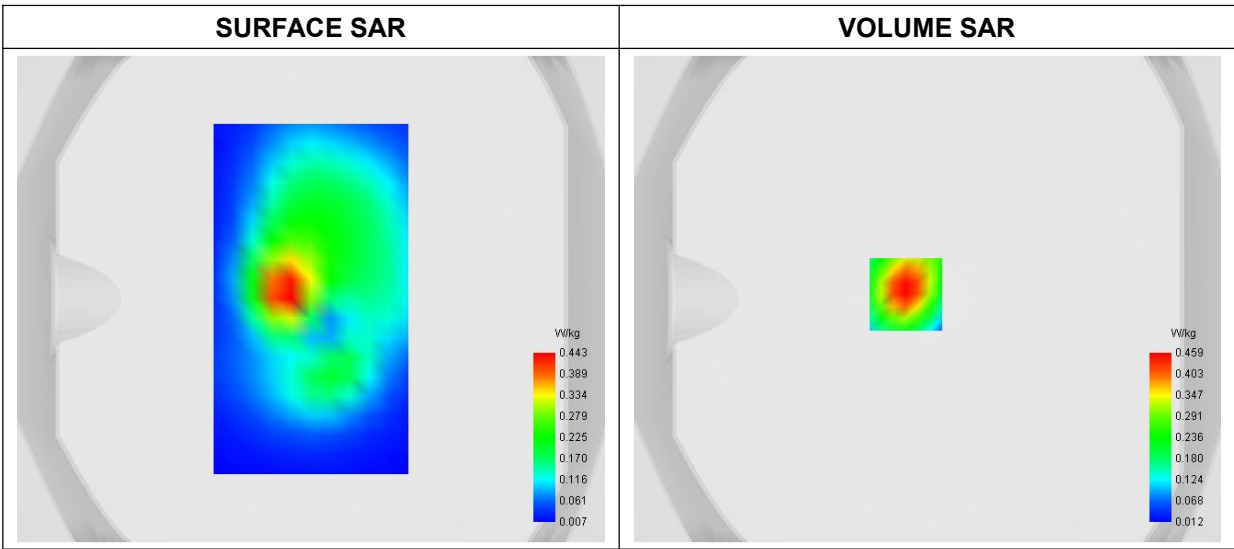
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.211275
Conductivity (S/m)	1.382872
Power Variation (%)	-1.378500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume



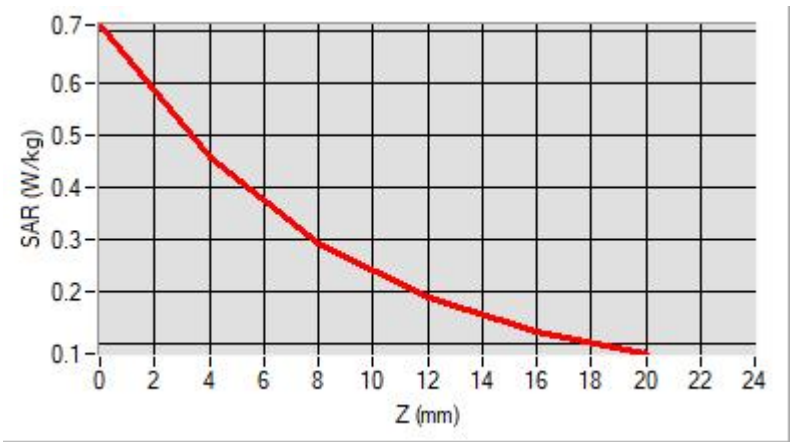
Maximum location: X=-9.00, Y=2.00

D. SAR 1g & 10g

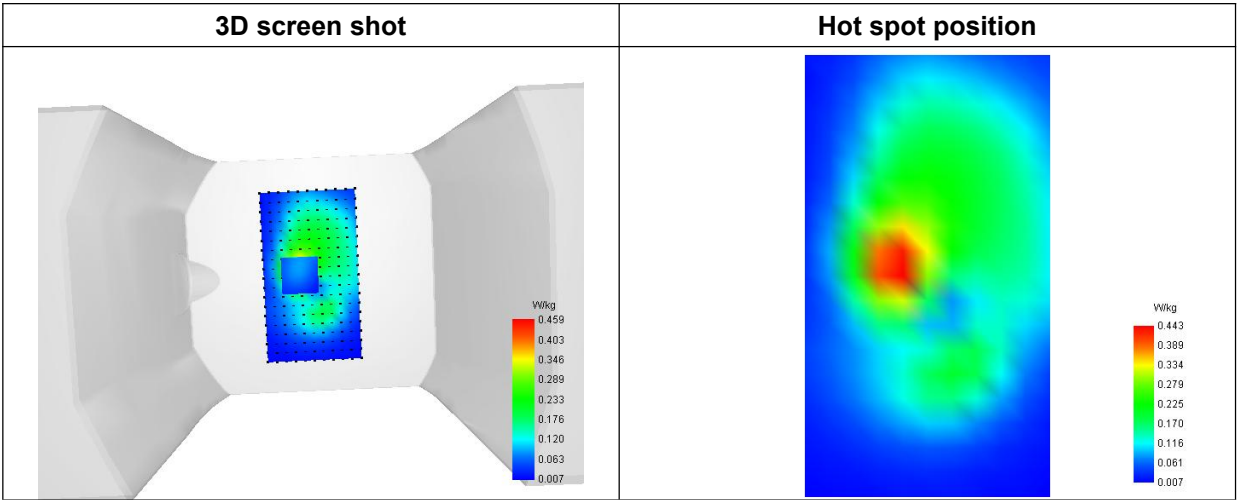
SAR 10g (W/Kg)	0.231197
SAR 1g (W/Kg)	0.423889

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.7124	0.4591	0.2926	0.1885	0.1247



F. 3D Image



MEASUREMENT 30/44

Type: Measurement (Complete)
Date of measurement: 2024-08-16
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.62; Calibrated: 2024-07-11

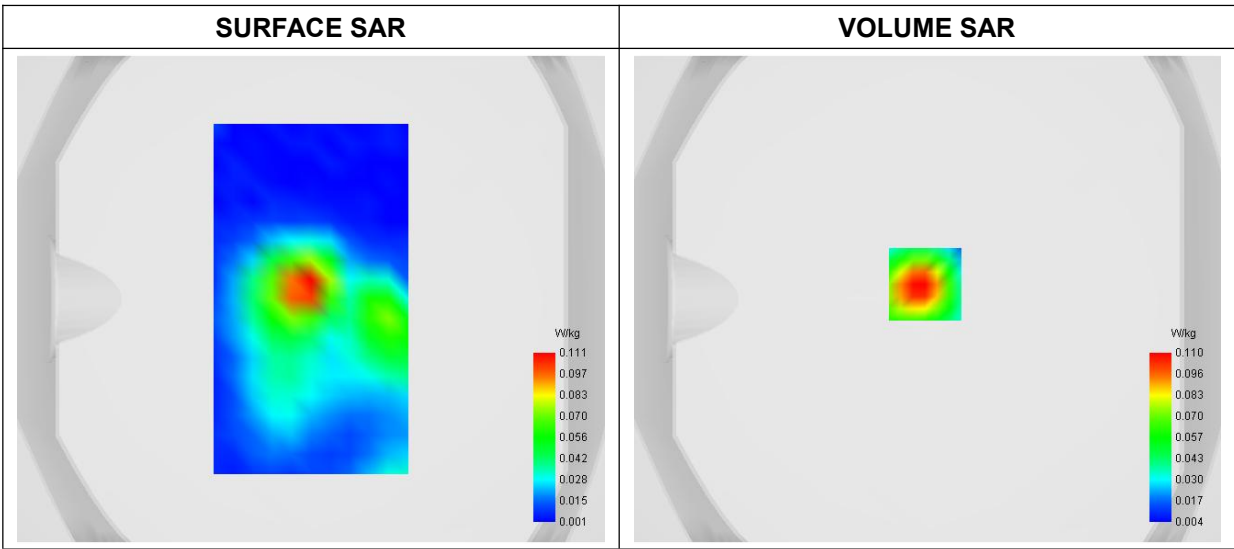
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2462.000000
Relative Permittivity (real part)	38.534231
Conductivity (S/m)	1.773163
Power Variation (%)	0.368900
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

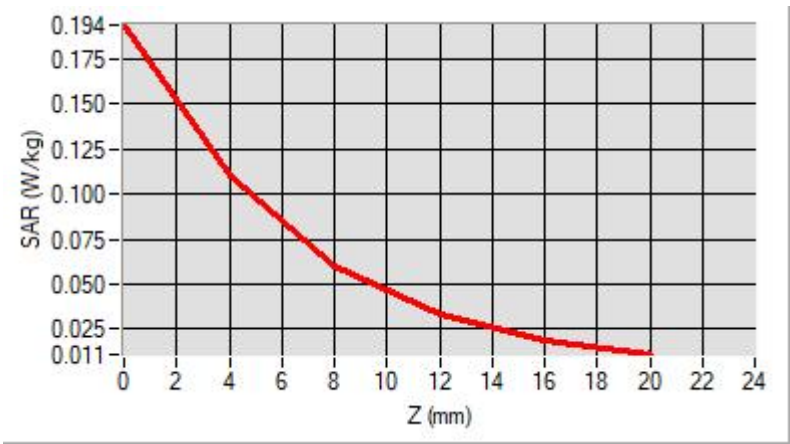


Maximum location: X=-1.00, Y=6.00
D. SAR 1g & 10g

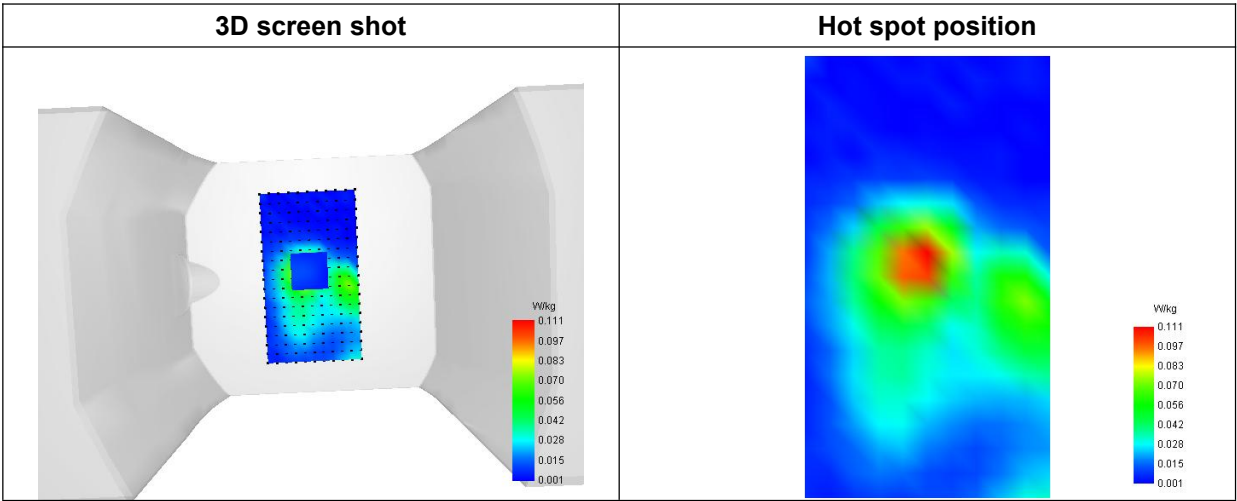
SAR 10g (W/Kg)	0.049537
SAR 1g (W/Kg)	0.102079

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1942	0.1097	0.0600	0.0329	0.0190



F. 3D Image



MEASUREMENT 31

Type: Measurement (Complete)
Date of measurement: 2024-08-09
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.28; Calibrated: 2024-07-11

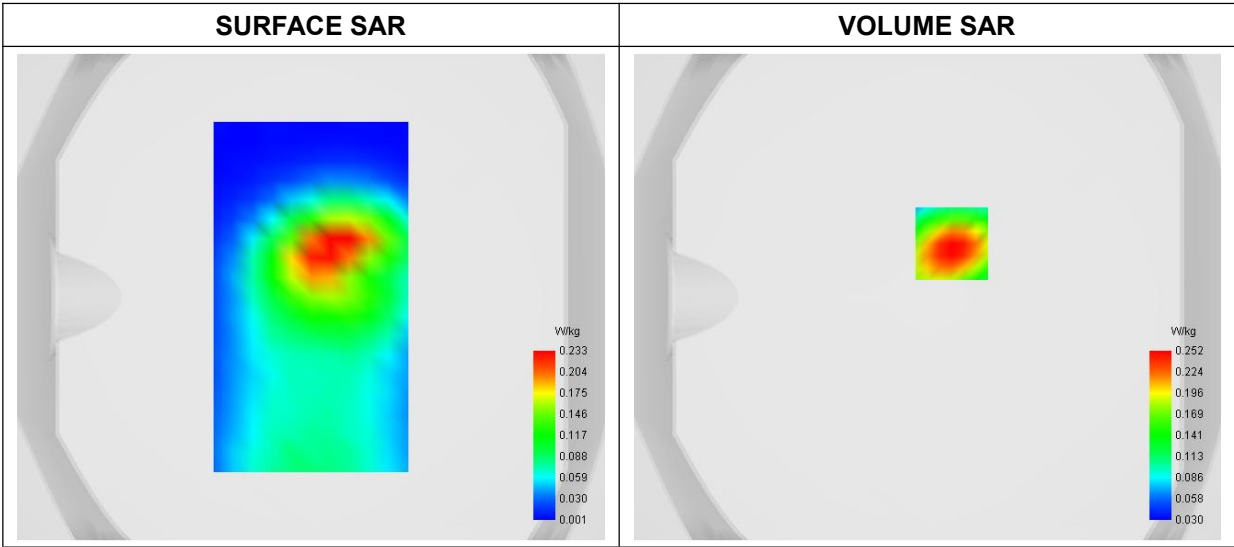
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat plane
Device Position	Back
Band	GPRS850_2TX
Channels	Middle
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	836.600000
Relative Permittivity (real part)	40.922245
Conductivity (S/m)	0.892455
Power Variation (%)	1.107200
Ambient Temperature	22.6
Liquid Temperature	22.6

C. SAR Surface and Volume

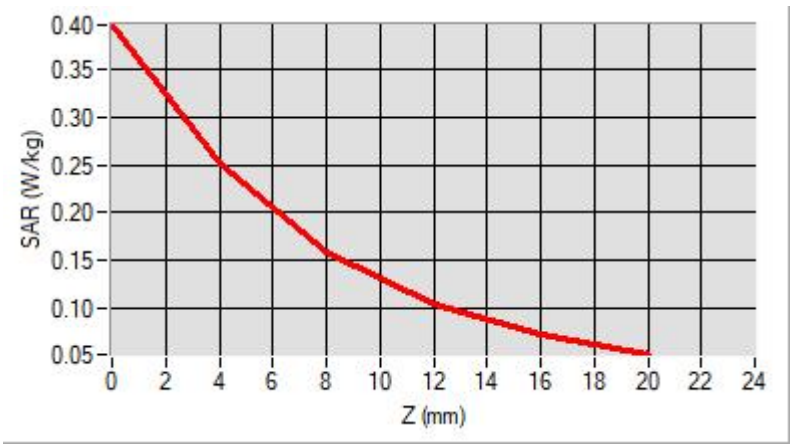


Maximum location: X=10.00, Y=22.00
D. SAR 1g & 10g

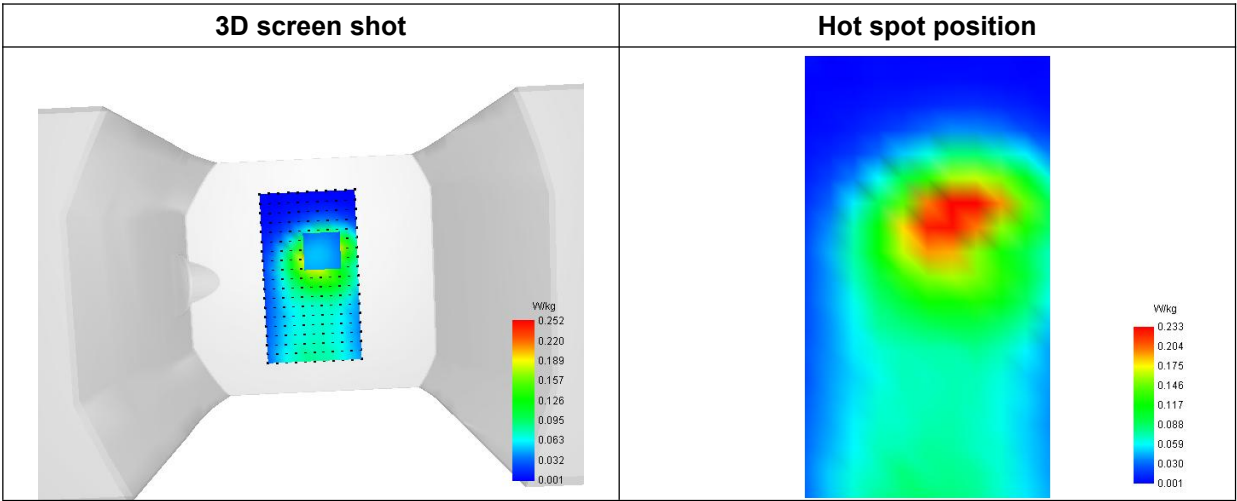
SAR 10g (W/Kg)	0.136850
SAR 1g (W/Kg)	0.237510

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3975	0.2515	0.1589	0.1037	0.0718



F. 3D Image



MEASUREMENT 32

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 11 minutes 48 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

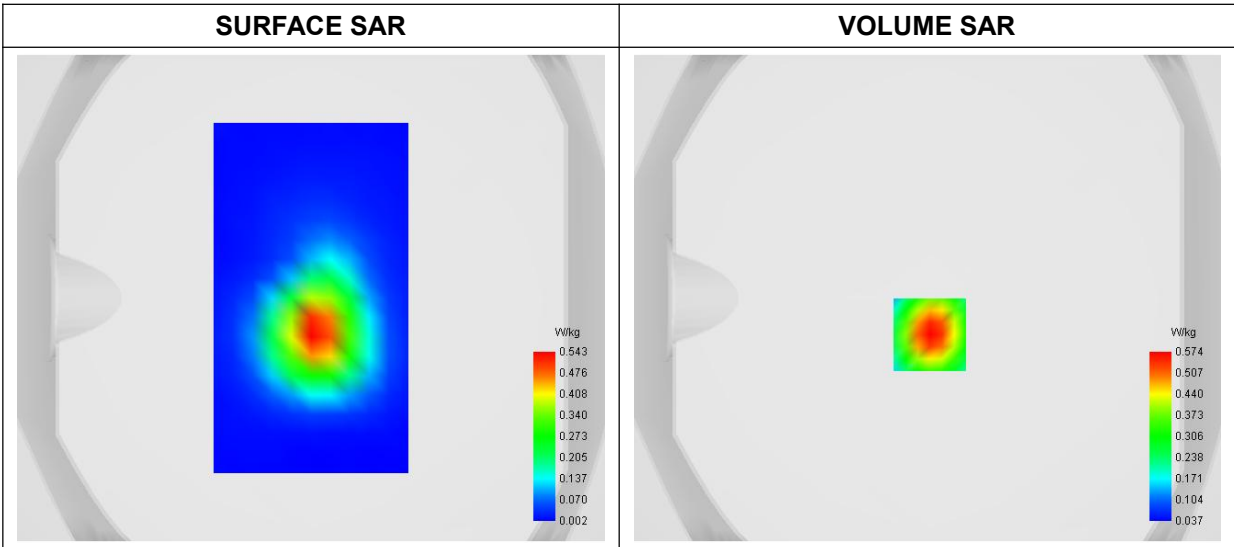
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat plane
Device Position	Bottom
Band	GPRS1900_3TX
Channels	Low
Signal	Duty Cycle: 1:2.66

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.212245
Conductivity (S/m)	1.384081
Power Variation (%)	-0.737400
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

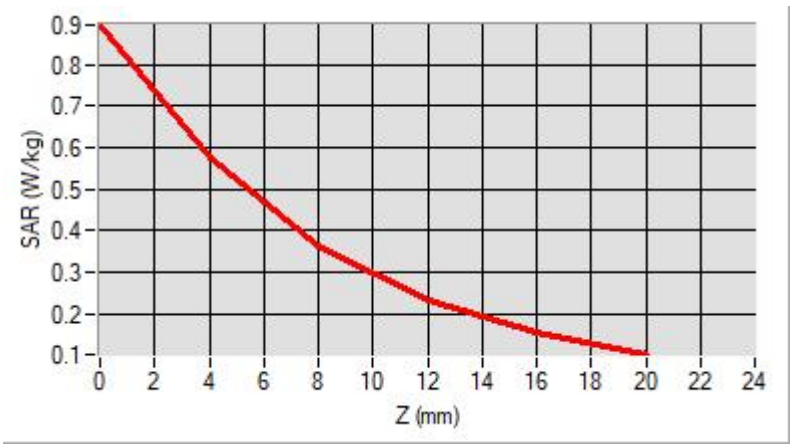


Maximum location: X=1.00, Y=-15.00
D. SAR 1g & 10g

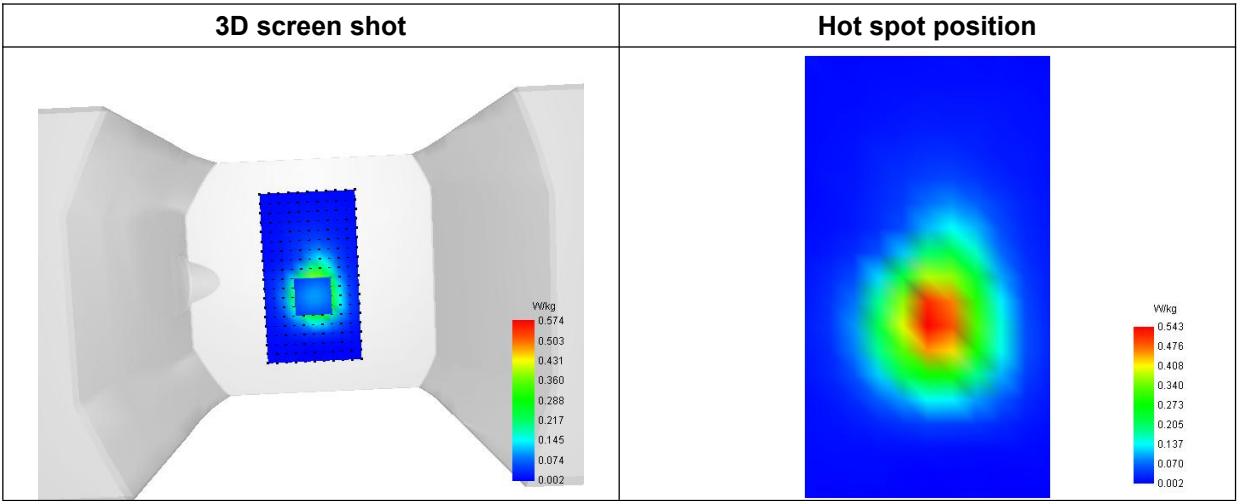
SAR 10g (W/Kg)	0.286395
SAR 1g (W/Kg)	0.527652

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.8945	0.5743	0.3650	0.2351	0.1561



F. 3D Image



MEASUREMENT 33

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

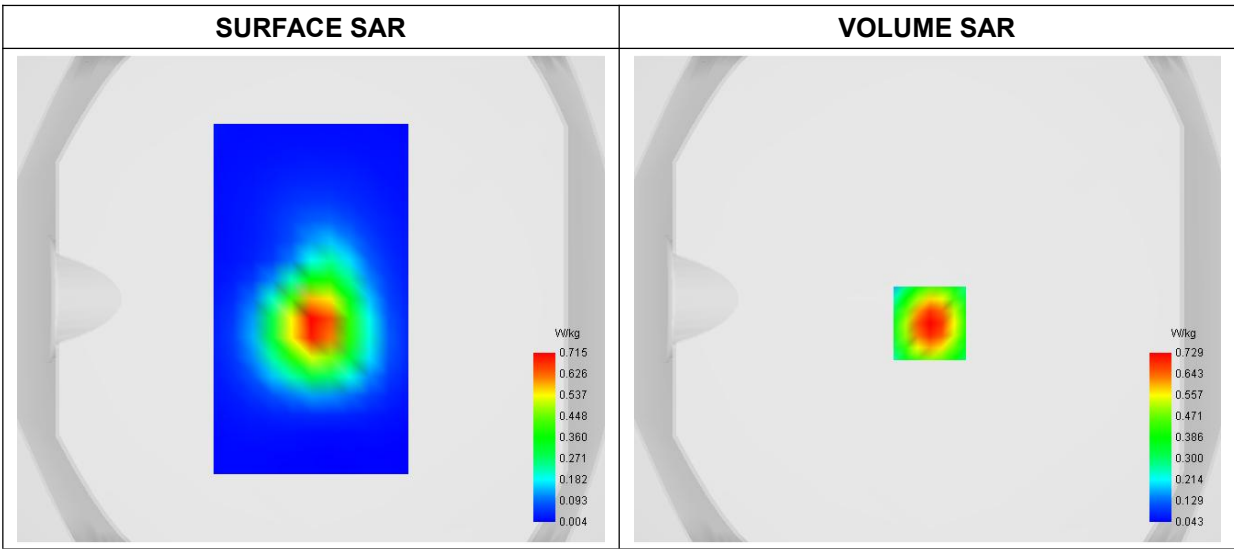
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Bottom
Band	WCDMA1900_RMC
Channels	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1852.400000
Relative Permittivity (real part)	39.211484
Conductivity (S/m)	1.383607
Power Variation (%)	-0.477500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

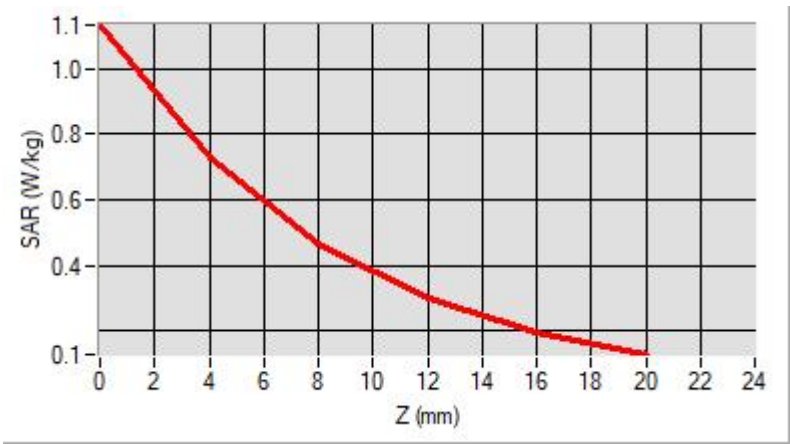


Maximum location: X=1.00, Y=-10.00
D. SAR 1g & 10g

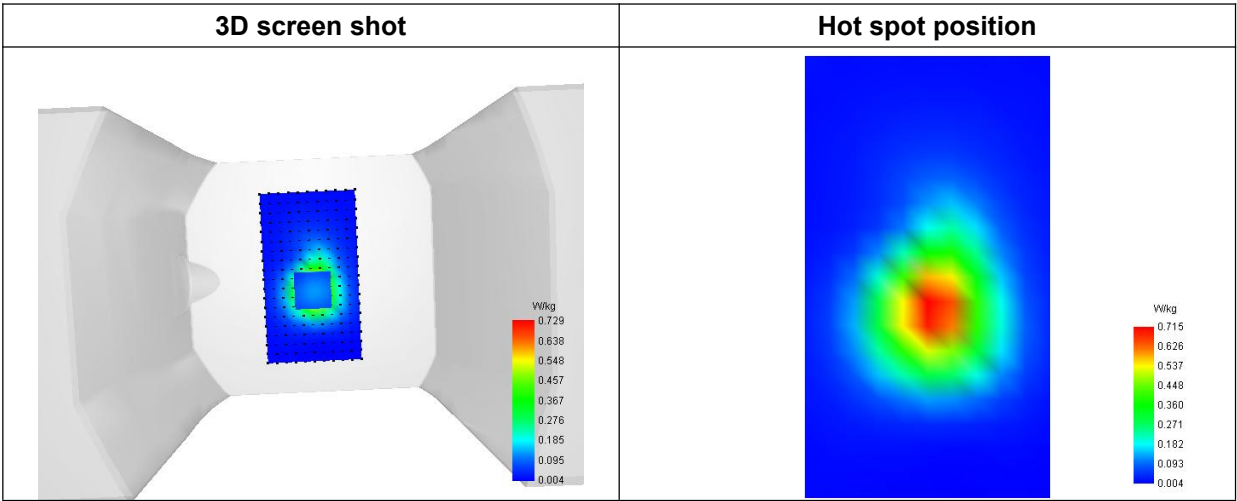
SAR 10g (W/Kg)	0.367264
SAR 1g (W/Kg)	0.669943

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.1329	0.7285	0.4635	0.2984	0.1976



F. 3D Image



MEASUREMENT 34

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

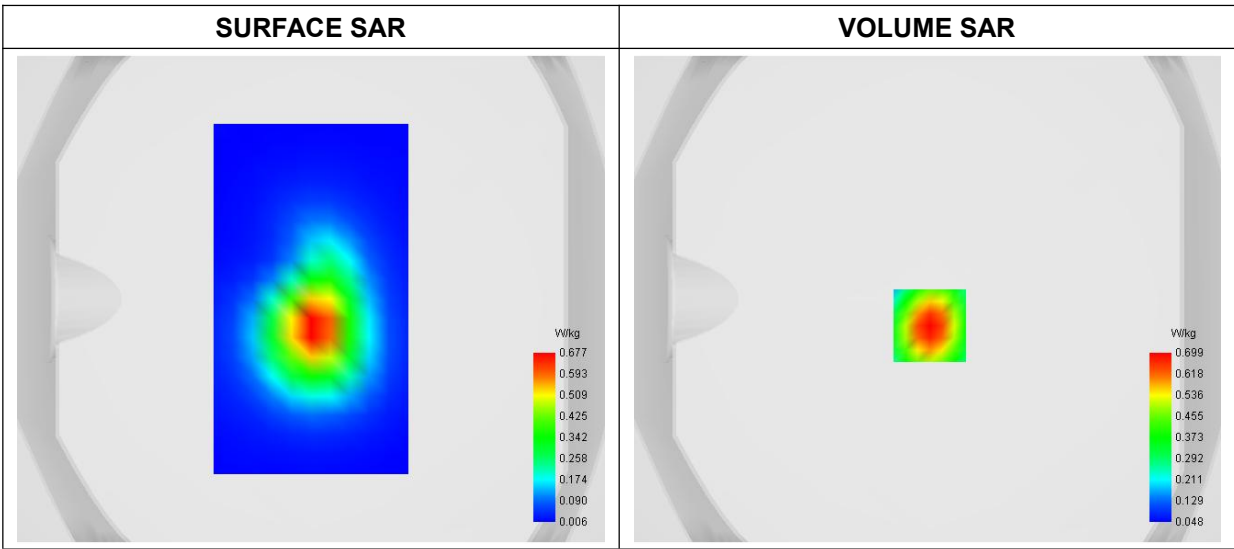
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Bottom
Band	WCDMA1700_RMC
Channels	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1732.600000
Relative Permittivity (real part)	39.211245
Conductivity (S/m)	1.383075
Power Variation (%)	1.542300
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

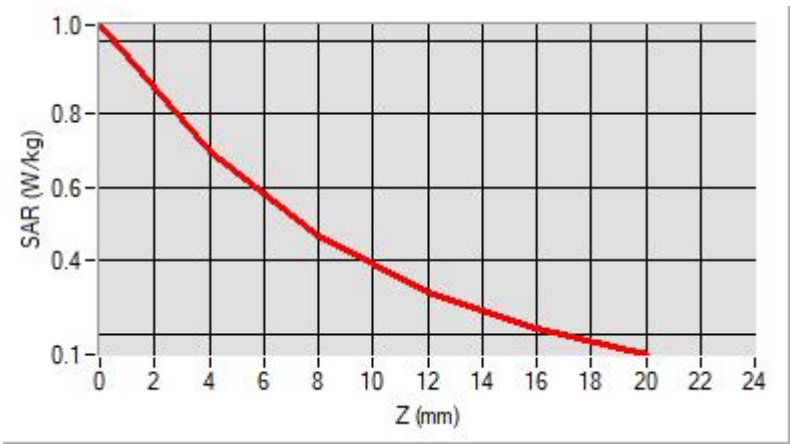


Maximum location: X=1.00, Y=-11.00
D. SAR 1g & 10g

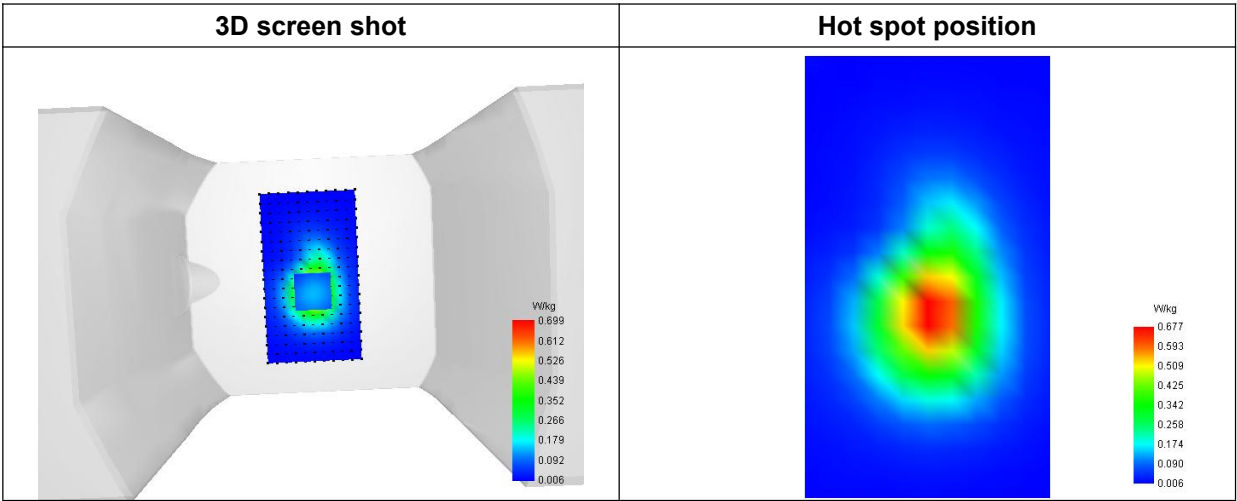
SAR 10g (W/Kg)	0.363963
SAR 1g (W/Kg)	0.642511

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0422	0.6990	0.4651	0.3123	0.2136



F. 3D Image



MEASUREMENT 36

Type: Measurement (Complete)
Date of measurement: 2024-08-14
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

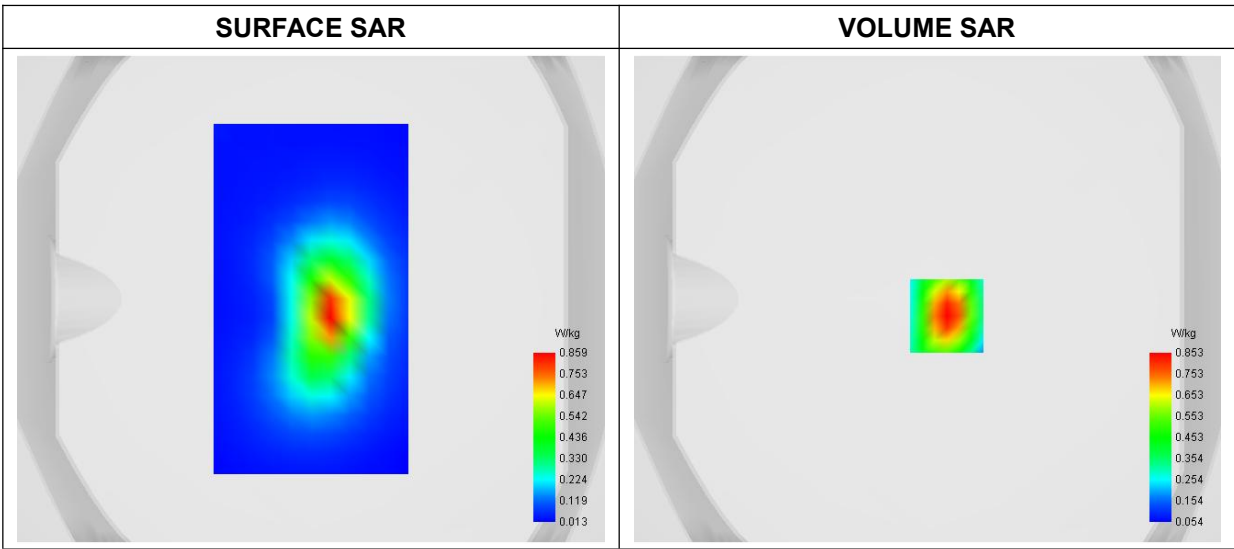
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Top
Band	LTE Band 2
Channels	16QAM, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1880.000000
Relative Permittivity (real part)	40.981461
Conductivity (S/m)	1.412369
Power Variation (%)	-0.866400
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume



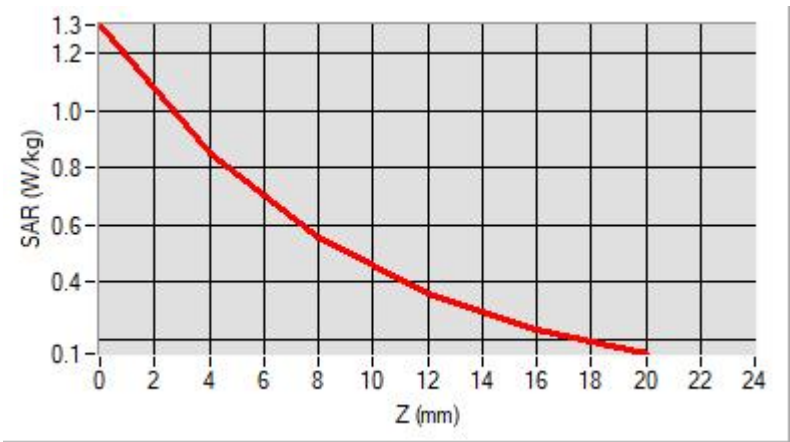
Maximum location: X=8.00, Y=-7.00

D. SAR 1g & 10g

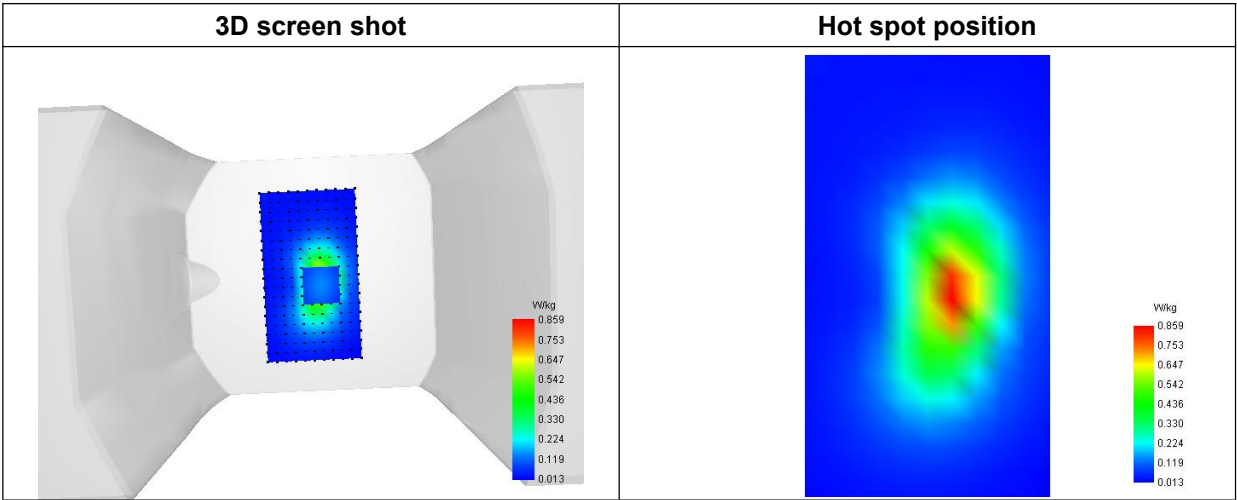
SAR 10g (W/Kg)	0.413632
SAR 1g (W/Kg)	0.774444

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.2996	0.8528	0.5517	0.3572	0.2335



F. 3D Image



MEASUREMENT 37

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

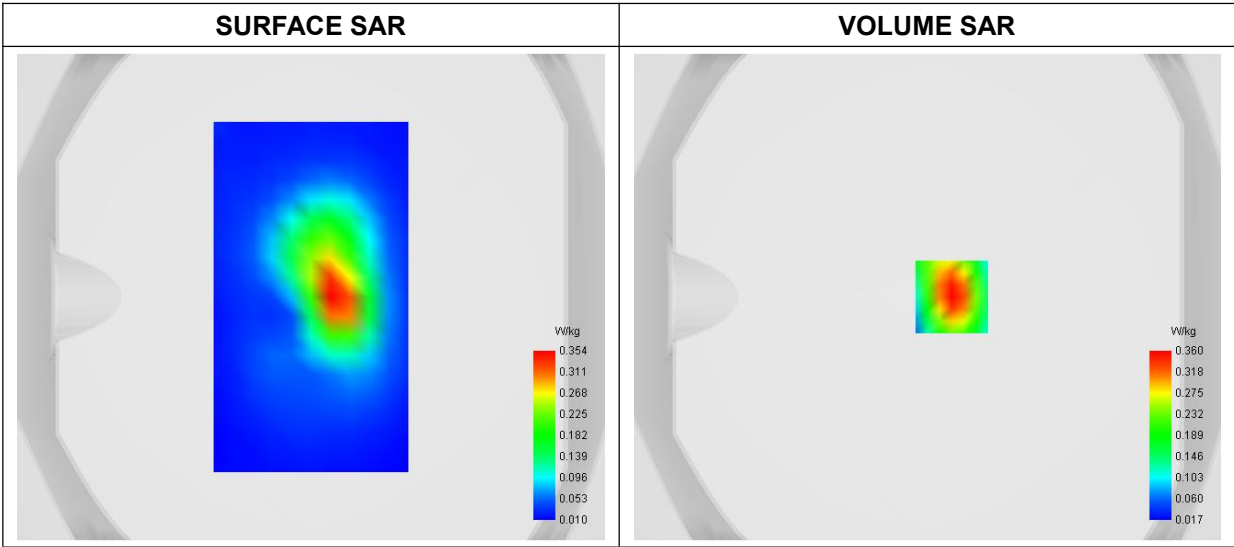
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.211275
Conductivity (S/m)	1.382872
Power Variation (%)	-0.866400
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume



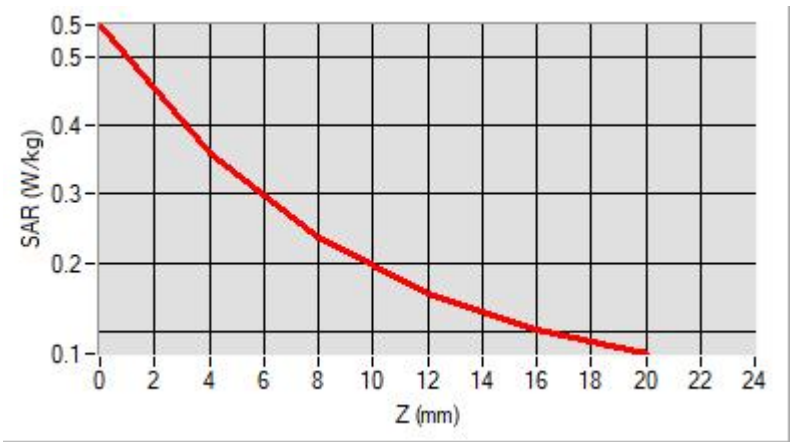
Maximum location: X=10.00, Y=0.00

D. SAR 1g & 10g

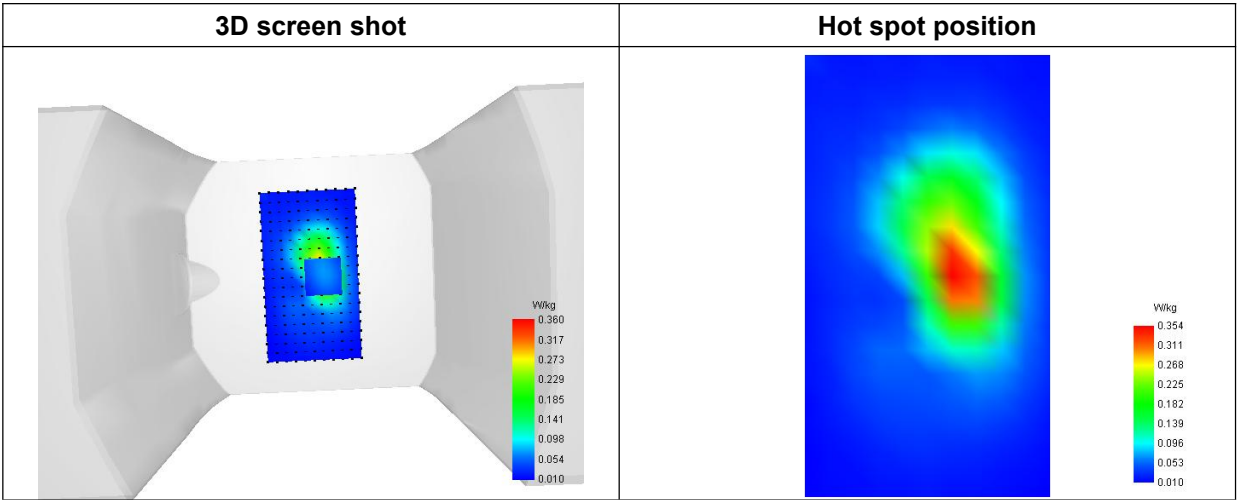
SAR 10g (W/Kg)	0.180435
SAR 1g (W/Kg)	0.329111

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5451	0.3605	0.2360	0.1558	0.1048



F. 3D Image



MEASUREMENT 39

Type: Measurement (Complete)
Date of measurement: 2024-08-19
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.50; Calibrated: 2024-07-11

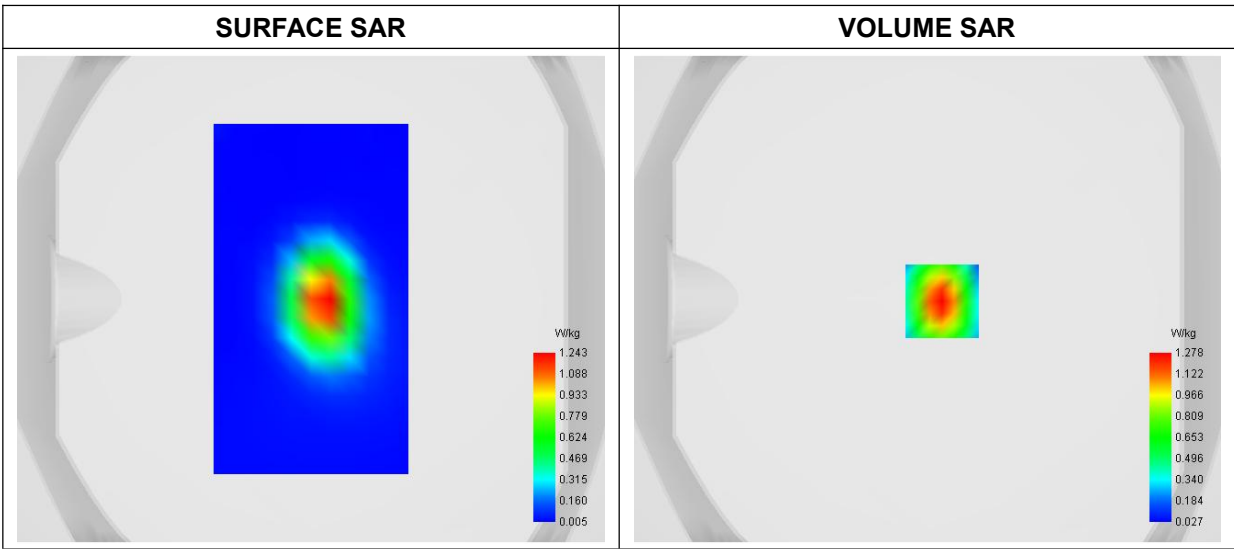
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Top
Band	LTE Band 7
Channels	16QAM, 20MHz, 1RB, Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative Permittivity (real part)	39.741146
Conductivity (S/m)	1.922391
Power Variation (%)	-0.194700
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

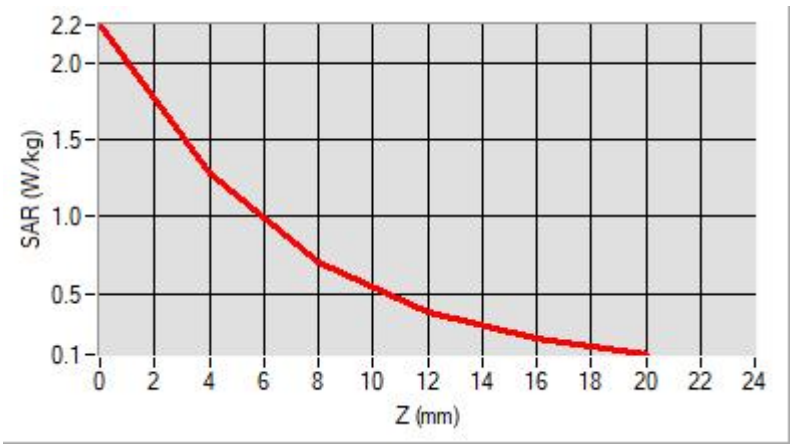


Maximum location: X=6.00, Y=-1.00
D. SAR 1g & 10g

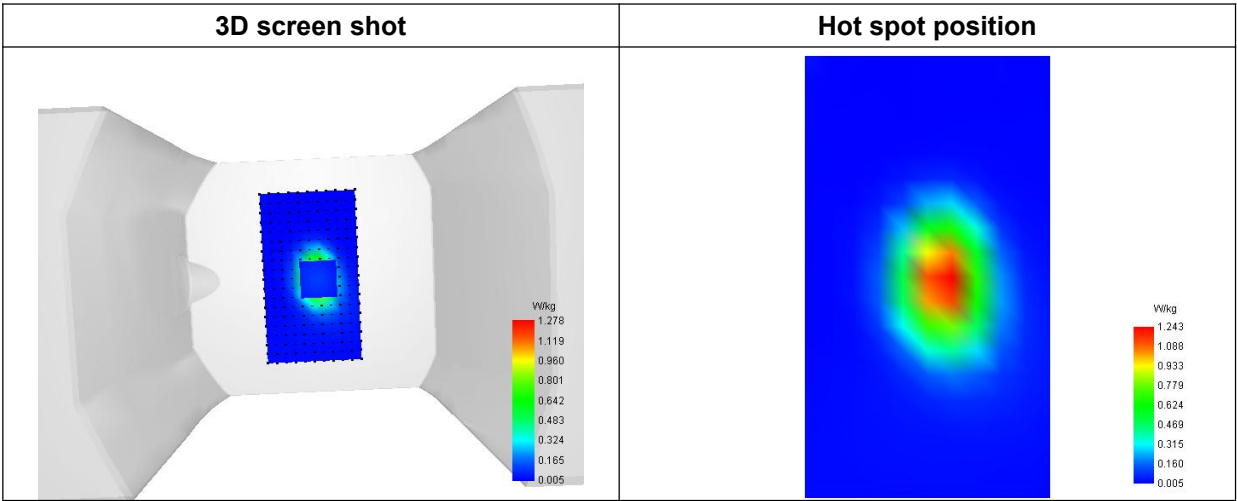
SAR 10g (W/Kg)	0.538164
SAR 1g (W/Kg)	1.151404

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.2411	1.2783	0.7009	0.3791	0.2077



F. 3D Image



MEASUREMENT 43

Type: Measurement (Complete)
Date of measurement: 2024-08-12
Measurement duration: 12 minutes 3 seconds
E-field Probe: SSE2 - 3823-EPGO-435; ConvF: 1.37; Calibrated: 2024-07-11

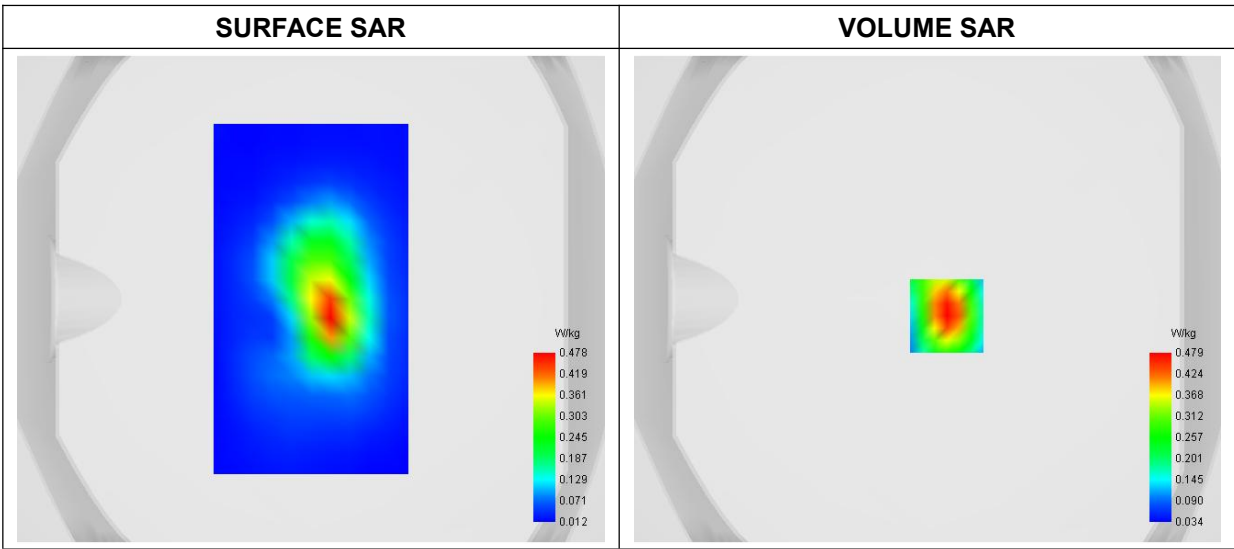
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.211275
Conductivity (S/m)	1.382872
Power Variation (%)	-1.378500
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

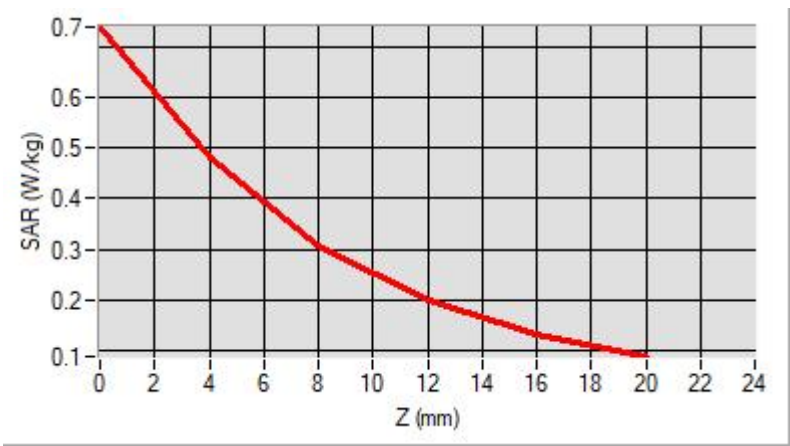


Maximum location: X=8.00, Y=-7.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.234835
SAR 1g (W/Kg)	0.436982

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.7391	0.4793	0.3079	0.2002	0.1338



F. 3D Image

