

TEST REPORT

Reference No..... : WTX23X06121604W
FCC ID : 2BAHU2023021
Applicant : DIALN PRODUCTS INC
Address : 8312 Page Ave, St. Louis, Missouri, 63130, USA
Manufacturer : DIALN PRODUCTS INC
Address : 8312 Page Ave, St. Louis, Missouri, 63130, USA
Product Name : Smart Phone
Model No..... : X62
Standards : FCC Part 2.1093
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 : 2023-06-05
Date of Test..... : 2023-06-07 to 2023-06-25
Date of Issue : 2023-07-04
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	2023-07-04	Original
/	/	/

1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT:	
Product Name:	Smart Phone
Brand Name:	DIALN
Model No.:	X62
Adding Model(s):	/
Rated Voltage:	DC3.8V
Battery Capacity:	/
Adapter Model	TPA-46050200UU Input:100-220V 50/60Hz 0.3A Output: DC5V2000mA
Software Version:	/
Hardware Version:	/
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: 32.37dBm, GSM1900: 28.25dBm EDGE850: 30.07dBm, EDGE1900: 28.71dBm
Type of Modulation:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM850: -1.61dBi; GSM1900: -1.87dBi
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: 22.66dBm, WCDMA Band 4: 22.66dBm, WCDMA Band 5: 23.11dBm
Type of Modulation:	BPSK, QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 2: -1.87dBi, WCDMA Band 4: -1.63dBi, WCDMA Band 5: -1.61dBi
4G	
Support Networks:	FDD-LTE
Support Band:	FDD-LTE Band 2, 4, 5, 12, 66, 71
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 12: Tx: 699-716MHz, FDD-LTE Band 66: Tx: 1710-1780MHz FDD-LTE Band 71: Tx: 663-698MHz
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 12: Rx: 729-746MHz, FDD-LTE Band 66: Rx: 2110-2200MHz FDD-LTE Band 71: Rx: 617-652MHz
RF Output Power:	FDD-LTE Band 2: 23.08dBm, FDD-LTE Band 4: 23.37dBm, FDD-LTE Band 5: 23.43dBm, FDD-LTE Band 12: 22.90dBm, FDD-LTE Band 66: 23.31dBm, FDD-LTE Band 71: 23.01dBm,
Type of Modulation:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 2: -1.87dBi, FDD-LTE Band 4: -1.63dBi, FDD-LTE Band 5: -1.61dBi, FDD-LTE Band 12: -1.84dBi, FDD-LTE Band 66: -1.65dBi, FDD-LTE Band 71: -2.0dBi
WIFI(2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 11b/g/n(HT20), 2422-2452MHz for 11n(HT40)
RF Output Power:	17.91dBm (Conducted)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20), 9 for 802.11n(HT40)
Channel Separation:	5MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-1.6dBi
Bluetooth	
Bluetooth Version:	V5.0
Frequency Range:	2402-2480MHz
RF Output Power:	7.36dBm(Conducted)
Data Rate:	1Mbps, 2Mbps, 3Mbps
Modulation:	GFSK, $\pi/4$ DQPSK, 8DPSK
Quantity of Channels:	79/40
Channel Separation:	1MHz/2MHz
Antenna Type:	Integral Antenna
Antenna Gain:	-1.6dBi
WIFI(5GHz)	
Support Standards:	802.11a, 802.11n-HT20/40, 802.11ac-VHT80
Frequency Range:	5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz
RF Output Power:	9.12dBm (Conducted)
Type of Modulation:	QPSK, 16QAM, 64QAM
Type of Antenna:	Integral Antenna
Antenna Gain:	-2.2dBi
<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.: 11464A.

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	0.387	0.447	0.382	1.6
WCDMA	0.410	0.192	0.181	1.6
LTE	0.731	0.153	0.148	1.6
WLAN 2.4GHz	0.296	0.179	0.204	1.6
WLAN 5GHz	0.383	0.319	0.013	1.6
Bluetooth	0.023	0.009	0.282	1.6
Simultaneous Transmission	1.114	0.766	0.664	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.

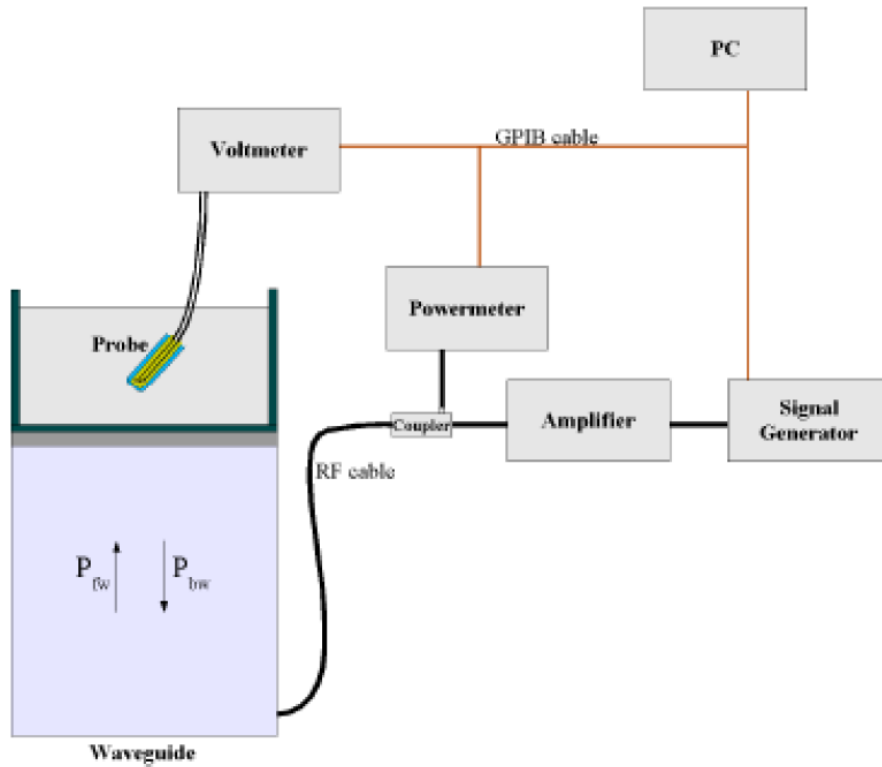


The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

4.2 Probe

For the measurements the Specific Dosimetric E-Field Probe SSE2 SN 18/21 EPG0356, 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,

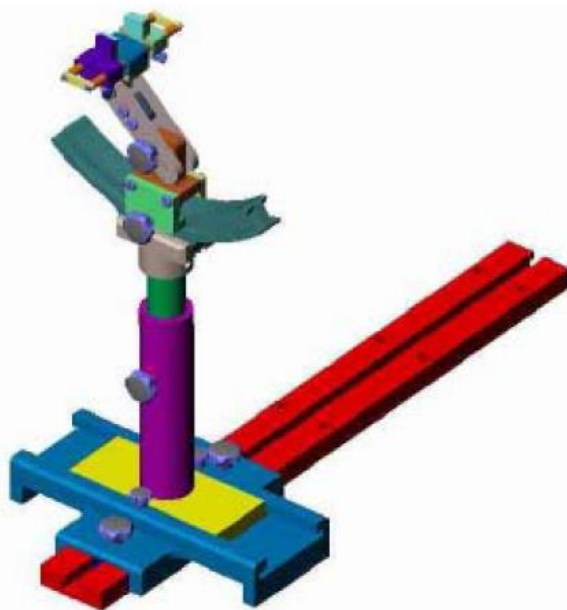
ρ = Tissue density (1.25 g/cm³ for brain tissue)

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

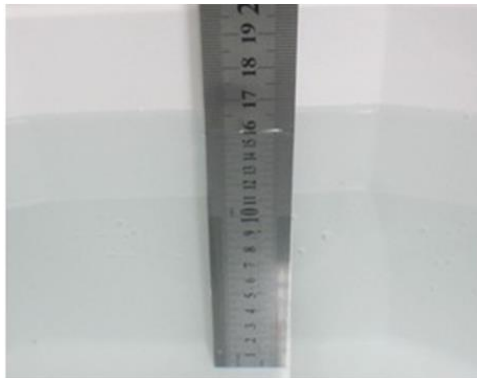
4.6 Test Equipment List

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
E-Field Probe	MVG	SSE2	SN 18/21 EPGO356	2022-07-08	2023-07-07
750MHz Dipole	MVG	SID750	SN 09/15 DIP 0G750-357	2020-08-29	2023-08-28
835MHz Dipole	MVG	SID835	SN 09/15 DIP 0G835-358	2020-08-29	2023-08-28
900MHz Dipole	MVG	SID900	SN 09/15 DIP 0G900-359	2020-08-29	2023-08-28
1800MHz Dipole	MVG	SID1800	SN 09/15 DIP 1G800-360	2020-08-29	2023-08-28
1900MHz Dipole	MVG	SID1900	SN 09/15 DIP 1G900-361	2020-08-29	2023-08-28
2450MHz Dipole	MVG	SID2450	SN 09/15 DIP 2G450-363	2020-08-29	2023-08-28
5 GHz Dipole	MVG	SWG5500	SN 49/16 WGA45	2020-07-03	2023-07-02
Dielectric Probe	SATIMO	SCLMP	SN 47/12 OCPG49	2023-02-25	2024-02-24
SAM Phantom	SATIMO	SAM	SN/ 47/12 SAM95	N/A	N/A
Multi Meter	Keithley	Keithley 2000	4006367	2023-02-25	2024-02-24
Power meter	Keithley	3500	JC-2017-09-001	2023-02-25	2024-02-24
Power meter	Keithley	3500	JC-2017-09-001	2023-02-25	2024-02-24
Power Sensor	HP	11636B	JC-2017-10-002	2023-02-25	2024-02-24
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61252892	2023-02-25	2024-02-24
Universal Tester	Rohde & Schwarz	CMU200	112315	2023-02-25	2024-02-24
Universal Radio Communication Tester	Rohde & Schwarz	CMW500	148650	2023-02-25	2024-02-24
Network Analyzer	HP	8753C	2901A00831	2023-02-25	2024-02-24

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

Frequency (MHz)	Water (%)	Hexyl Carbitol (%)	Triton X-100 (%)
Head/Body			
5200-5800	78.6	10.7	10.7

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

5.3 Tissue Calibration Result

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

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Freq. MHz.	Temp. (°C)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ϵ_r)	Target (ϵ_r)	Delta (%)		
750	22.2	0.87	0.89	-2.25	41.14	41.90	-1.81	±5	2023-06-19
835	22.2	0.88	0.90	-2.22	40.28	41.50	-2.94	±5	2023-06-19
1800	22.1	1.38	1.40	-1.43	39.69	40.00	-0.78	±5	2023-06-21
1900	22.1	1.38	1.40	-1.43	39.16	40.00	-2.10	±5	2023-06-21
2450	22.3	1.78	1.80	-1.11	38.37	39.20	-2.12	±5	2023-06-24
5200	22.5	4.63	4.66	-0.64	36.56	36.00	1.56	±5	2023-06-25
5400	22.5	4.88	4.86	0.41	36.17	35.80	1.03	±5	2023-06-25
5600	22.4	5.11	5.07	0.79	36.39	35.50	2.51	±5	2023-06-26
5800	22.4	5.29	5.27	0.38	34.75	35.30	-1.56	±5	2023-06-26

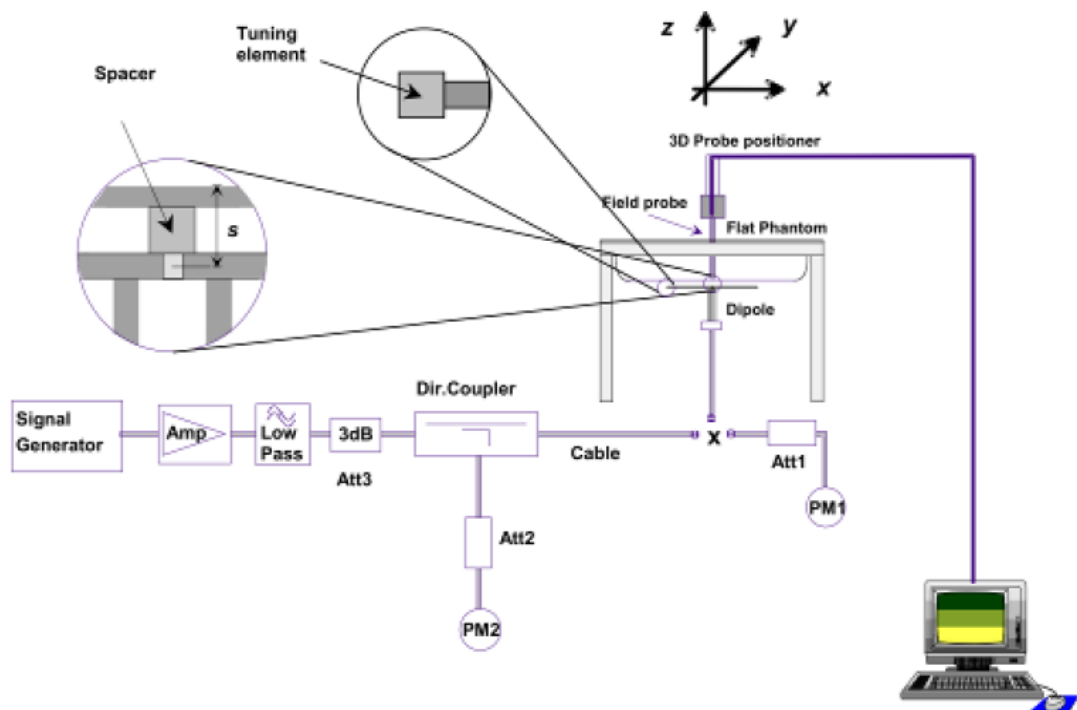
6. SAR Measurement Evaluation

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.

The output power on 5 GHz Waveguide must be calibrated to 20 dBm (100mW) before 5 GHz Waveguide 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	Targeted SAR _{1g}	Measured SAR _{1g}	Normalized SAR _{1g}	Tolerance	Date
MHz	(W/kg)	(W/kg)	(W/kg)	(%)	
Head					
750	8.78	2.18	8.72	-0.68	2023-06-19
835	9.58	2.51	10.04	4.80	2023-06-19
1800	38.76	9.46	37.84	-2.37	2023-06-21
1900	39.49	9.91	39.64	0.38	2023-06-21
2450	54.31	13.75	55	1.27	2023-06-24
5200	161.23	16.746	167.46	3.86	2023-06-25
5400	165.58	17.481	174.81	5.57	2023-06-25
5600	173.58	17.604	176.04	1.42	2023-06-26
5800	179.32	17.961	179.61	0.16	2023-06-26

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 $\pm 10\%$ or ± 100 MHz of the compliance test mid-band frequency, so the 1750 MHz system verification is made of 1800MHz Dipole.

Targeted and Measurement SAR

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

7. EUT Testing Position

7.1 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.

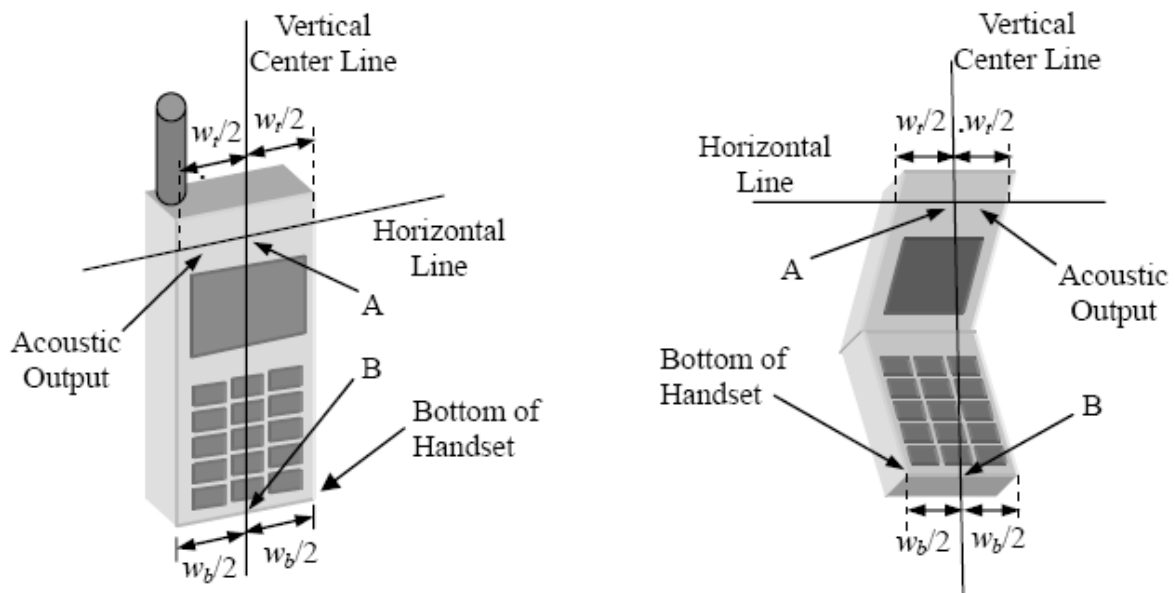


Illustration for Handset Vertical and Horizontal Reference Lines

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).

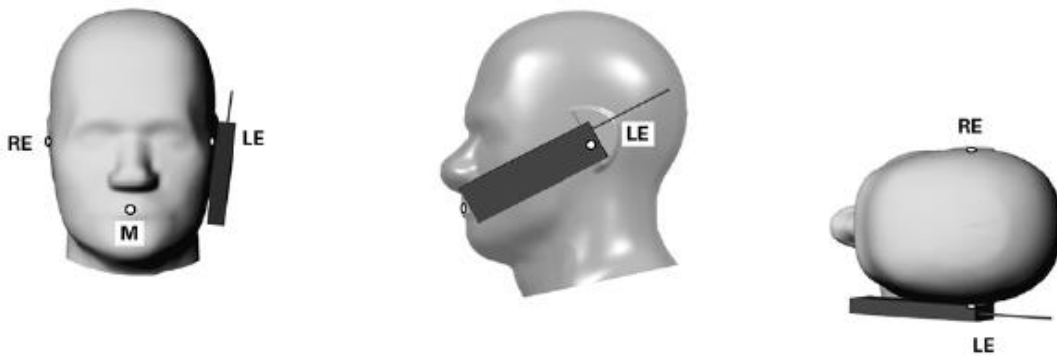


Illustration for Cheek Position

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).

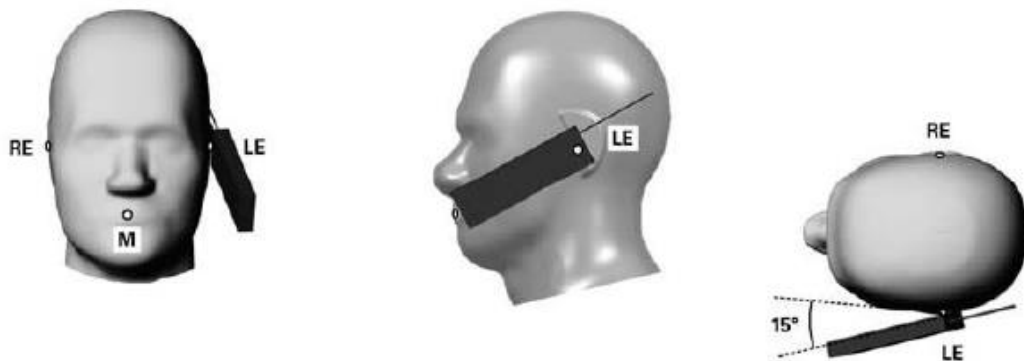


Illustration for Tilted Position

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.

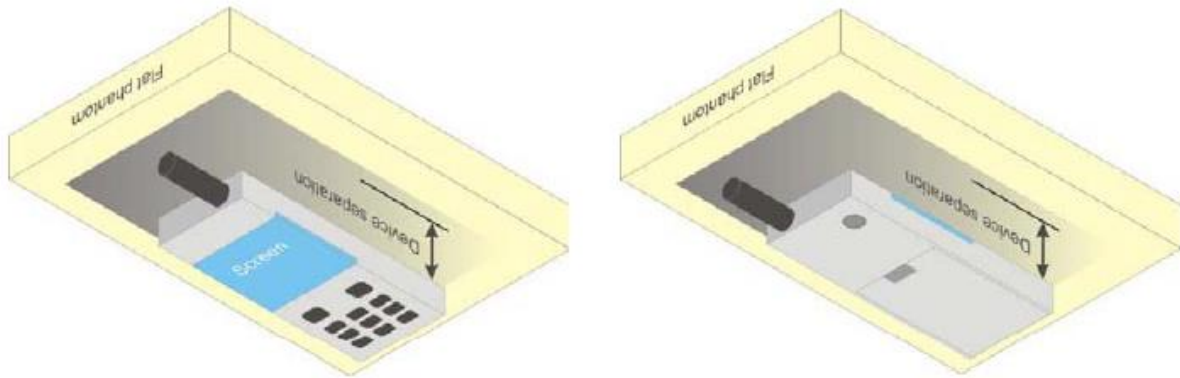
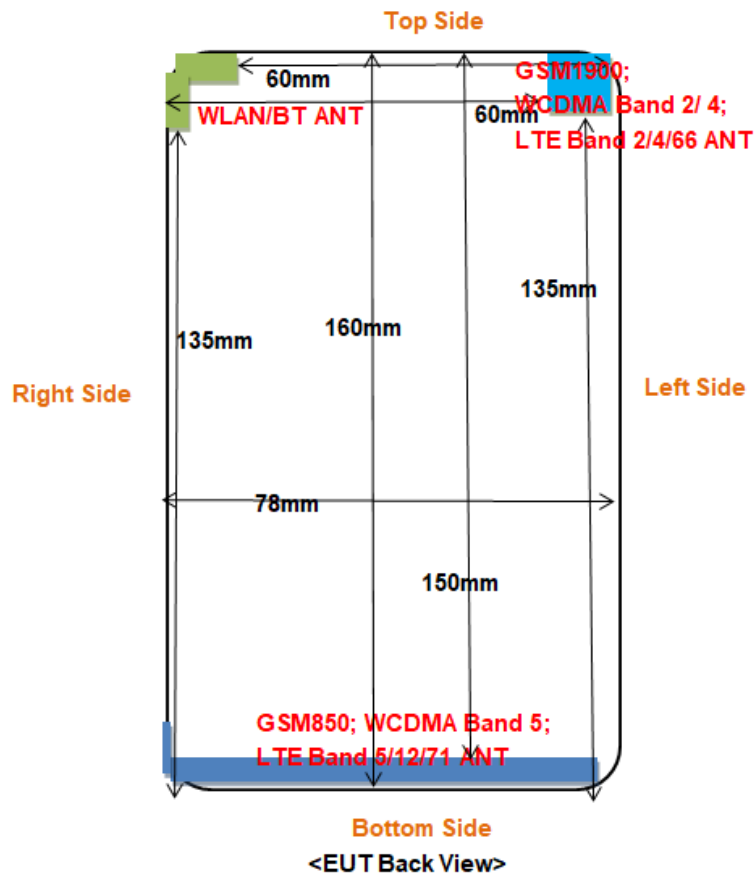


Illustration for Body Position

7.5 EUT Antenna Position



Block Diagram for EUT Antenna Position

Distance of EUT antenna-to-edge/surface(mm), Test distance:10mm						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
GSM1900; WCDMA Band 2/ 4; LTE Band 2/4/66	<25	<25	<25	60	<25	135
GSM850; WCDMA Band 5; LTE Band 5/12/71	<25	<25	<25	<25	150	<25
WLAN/BT	<25	<25	60	<25	<25	135

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
GSM1900; WCDMA Band 2/ 4; LTE Band 2/4/66	Yes	Yes	Yes	Yes
GSM850; WCDMA Band 5; LTE Band 5/12/71	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
GSM1900; WCDMA Band 2/ 4; LTE Band 2/4/66	Yes	Yes	Yes	No	Yes	No
GSM850; WCDMA Band 5; LTE Band 5/12/71	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	32.32	32.20	32.13	32.5	28.21	27.91	27.29	28.5
GPRS (1 slot)	32.37	32.19	32.10	32.5	28.25	27.94	27.32	28.5
GPRS (2 slots)	31.70	31.53	31.42	32.0	25.26	24.94	24.32	25.5
GPRS (3 slots)	30.09	29.88	29.68	30.0	23.42	23.19	22.55	23.5
GPRS (4 slots)	28.91	28.64	28.43	29.0	21.96	21.79	21.19	22.0
EDGE (1 slot)	30.07	29.69	29.48	30.5	28.45	28.71	28.64	29.0
EDGE (2 slots)	27.45	27.10	26.81	27.5	27.37	27.88	26.86	28.0
EDGE (3 slots)	25.66	25.27	24.97	26.0	26.97	26.40	25.36	27.0
EDGE (4 slots)	24.40	24.03	23.77	24.5	25.79	25.24	24.14	26.0

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	23.32	23.20	23.13	23.5	19.21	18.91	18.29	19.5
GPRS (1 slot)	23.37	23.19	23.10	23.5	19.25	18.94	18.32	19.5
GPRS (2 slots)	25.70	25.53	25.42	26.0	19.26	18.94	18.32	19.5
GPRS (3 slots)	25.84	25.63	25.43	26.0	19.17	18.94	18.30	19.5
GPRS (4 slots)	25.91	25.64	25.43	26.0	18.96	18.79	18.19	19.0
EDGE (1 slot)	21.07	20.69	20.48	21.5	19.45	19.71	19.64	20.0
EDGE (2 slots)	21.45	21.10	20.81	21.5	21.37	21.88	20.86	22.0
EDGE (3 slots)	21.41	21.02	20.72	21.5	22.72	22.15	21.11	23.0
EDGE (4 slots)	21.40	21.03	20.77	21.5	22.79	22.24	21.14	23.0

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 (4TX slots) for

GSM850 and GPRS (2TX 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 V			
Channel	9262	9400	9538	Tune-up power (dBm)	4132	4183	4233	Tune-up power (dBm)
Frequency (MHz)	1852.4	1880.0	1907.6		826.4	836.4	846.6	
RMC 12.2k	22.66	22.47	22.36	23.0	22.98	23.10	23.11	23.5
HSDPA Subtest-1	21.54	21.32	21.22	22.0	21.99	22.02	22.07	22.5
HSDPA Subtest-2	20.94	20.77	20.65	22.0	21.50	21.60	21.58	22.5
HSDPA Subtest-3	20.98	20.85	20.77	22.0	21.49	21.51	21.56	22.5
HSDPA Subtest-4	21.02	20.87	20.67	22.0	21.50	21.53	21.60	22.5
HSUPA Subtest-1	19.49	19.54	19.48	22.0	20.20	20.26	20.36	22.5
HSUPA Subtest-2	20.11	20.09	19.97	22.0	20.65	20.72	20.79	22.5
HSUPA Subtest-3	20.75	20.61	20.49	22.0	21.19	21.24	21.33	22.5
HSUPA Subtest-4	19.73	19.63	19.49	22.0	20.21	20.25	20.37	22.5
HSUPA Subtest-5	21.73	21.62	21.49	22.0	22.18	22.23	22.31	22.5

WCDMA - Average Power (dBm)								
Band	WCDMA Band IV							
Channel	1312	1412	1513	Tune-up power (dBm)				
Frequency (MHz)	1712.4	1732.4	1752.6					
RMC 12.2k	22.66	22.48	22.66	23.0				
HSDPA Subtest-1	21.79	21.50	21.73	22.0				
HSDPA Subtest-2	21.13	20.97	21.16	22.0				
HSDPA Subtest-3	21.22	21.00	21.25	22.0				
HSDPA Subtest-4	21.08	21.03	21.32	22.0				
HSUPA Subtest-1	19.80	19.78	20.12	22.5				
HSUPA Subtest-2	20.37	20.20	20.61	22.5				
HSUPA Subtest-3	21.00	20.86	21.11	22.5				
HSUPA Subtest-4	20.04	19.87	20.15	22.5				
HSUPA Subtest-5	22.02	21.87	22.13	22.5				

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	23.05	PASS
Band2	1.4MHz	16QAM	18607	1RB#0	22.08	PASS
Band2	1.4MHz	QPSK	18607	1RB#2	22.62	PASS
Band2	1.4MHz	16QAM	18607	1RB#2	21.81	PASS
Band2	1.4MHz	QPSK	18607	1RB#5	22.57	PASS
Band2	1.4MHz	16QAM	18607	1RB#5	21.71	PASS
Band2	1.4MHz	QPSK	18607	3RB#0	22.60	PASS
Band2	1.4MHz	16QAM	18607	3RB#0	21.55	PASS
Band2	1.4MHz	QPSK	18607	3RB#1	22.60	PASS
Band2	1.4MHz	16QAM	18607	3RB#1	21.55	PASS
Band2	1.4MHz	QPSK	18607	3RB#3	22.62	PASS
Band2	1.4MHz	16QAM	18607	3RB#3	21.53	PASS
Band2	1.4MHz	QPSK	18607	6RB#0	21.59	PASS
Band2	1.4MHz	16QAM	18607	6RB#0	20.51	PASS
Band2	1.4MHz	QPSK	18900	1RB#0	22.50	PASS
Band2	1.4MHz	16QAM	18900	1RB#0	21.64	PASS
Band2	1.4MHz	QPSK	18900	1RB#2	22.55	PASS
Band2	1.4MHz	16QAM	18900	1RB#2	21.77	PASS
Band2	1.4MHz	QPSK	18900	1RB#5	22.49	PASS
Band2	1.4MHz	16QAM	18900	1RB#5	21.65	PASS
Band2	1.4MHz	QPSK	18900	3RB#0	22.55	PASS
Band2	1.4MHz	16QAM	18900	3RB#0	21.44	PASS
Band2	1.4MHz	QPSK	18900	3RB#1	22.60	PASS
Band2	1.4MHz	16QAM	18900	3RB#1	21.44	PASS
Band2	1.4MHz	QPSK	18900	3RB#3	22.57	PASS
Band2	1.4MHz	16QAM	18900	3RB#3	21.51	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	21.55	PASS
Band2	1.4MHz	16QAM	18900	6RB#0	20.63	PASS
Band2	1.4MHz	QPSK	19193	1RB#0	22.36	PASS
Band2	1.4MHz	16QAM	19193	1RB#0	21.43	PASS
Band2	1.4MHz	QPSK	19193	1RB#2	22.45	PASS
Band2	1.4MHz	16QAM	19193	1RB#2	21.67	PASS
Band2	1.4MHz	QPSK	19193	1RB#5	22.38	PASS
Band2	1.4MHz	16QAM	19193	1RB#5	21.45	PASS
Band2	1.4MHz	QPSK	19193	3RB#0	22.45	PASS
Band2	1.4MHz	16QAM	19193	3RB#0	21.31	PASS
Band2	1.4MHz	QPSK	19193	3RB#1	22.47	PASS
Band2	1.4MHz	16QAM	19193	3RB#1	21.33	PASS
Band2	1.4MHz	QPSK	19193	3RB#3	22.43	PASS

Band2	1.4MHz	16QAM	19193	3RB#3	21.33	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	21.42	PASS
Band2	1.4MHz	16QAM	19193	6RB#0	20.50	PASS
Band2	3MHz	QPSK	18615	1RB#0	22.53	PASS
Band2	3MHz	16QAM	18615	1RB#0	21.77	PASS
Band2	3MHz	QPSK	18615	1RB#8	22.56	PASS
Band2	3MHz	16QAM	18615	1RB#8	21.79	PASS
Band2	3MHz	QPSK	18615	1RB#14	22.61	PASS
Band2	3MHz	16QAM	18615	1RB#14	21.74	PASS
Band2	3MHz	QPSK	18615	8RB#0	21.63	PASS
Band2	3MHz	16QAM	18615	8RB#0	20.66	PASS
Band2	3MHz	QPSK	18615	8RB#4	21.59	PASS
Band2	3MHz	16QAM	18615	8RB#4	20.64	PASS
Band2	3MHz	QPSK	18615	8RB#7	21.63	PASS
Band2	3MHz	16QAM	18615	8RB#7	20.67	PASS
Band2	3MHz	QPSK	18615	15RB#0	21.60	PASS
Band2	3MHz	16QAM	18615	15RB#0	20.59	PASS
Band2	3MHz	QPSK	18900	1RB#0	22.53	PASS
Band2	3MHz	16QAM	18900	1RB#0	21.71	PASS
Band2	3MHz	QPSK	18900	1RB#8	22.56	PASS
Band2	3MHz	16QAM	18900	1RB#8	21.68	PASS
Band2	3MHz	QPSK	18900	1RB#14	22.54	PASS
Band2	3MHz	16QAM	18900	1RB#14	21.69	PASS
Band2	3MHz	QPSK	18900	8RB#0	21.54	PASS
Band2	3MHz	16QAM	18900	8RB#0	20.60	PASS
Band2	3MHz	QPSK	18900	8RB#4	21.56	PASS
Band2	3MHz	16QAM	18900	8RB#4	20.63	PASS
Band2	3MHz	QPSK	18900	8RB#7	21.53	PASS
Band2	3MHz	16QAM	18900	8RB#7	20.62	PASS
Band2	3MHz	QPSK	18900	15RB#0	21.51	PASS
Band2	3MHz	16QAM	18900	15RB#0	20.56	PASS
Band2	3MHz	QPSK	19185	1RB#0	22.34	PASS
Band2	3MHz	16QAM	19185	1RB#0	21.50	PASS
Band2	3MHz	QPSK	19185	1RB#8	22.40	PASS
Band2	3MHz	16QAM	19185	1RB#8	21.56	PASS
Band2	3MHz	QPSK	19185	1RB#14	22.38	PASS
Band2	3MHz	16QAM	19185	1RB#14	21.56	PASS
Band2	3MHz	QPSK	19185	8RB#0	21.37	PASS
Band2	3MHz	16QAM	19185	8RB#0	20.44	PASS
Band2	3MHz	QPSK	19185	8RB#4	21.39	PASS
Band2	3MHz	16QAM	19185	8RB#4	20.48	PASS
Band2	3MHz	QPSK	19185	8RB#7	21.40	PASS

Band2	3MHz	16QAM	19185	8RB#7	20.48	PASS
Band2	3MHz	QPSK	19185	15RB#0	21.40	PASS
Band2	3MHz	16QAM	19185	15RB#0	20.43	PASS
Band2	5MHz	QPSK	18625	1RB#0	22.51	PASS
Band2	5MHz	16QAM	18625	1RB#0	21.56	PASS
Band2	5MHz	QPSK	18625	1RB#12	22.73	PASS
Band2	5MHz	16QAM	18625	1RB#12	21.69	PASS
Band2	5MHz	QPSK	18625	1RB#24	22.59	PASS
Band2	5MHz	16QAM	18625	1RB#24	21.60	PASS
Band2	5MHz	QPSK	18625	12RB#0	21.58	PASS
Band2	5MHz	16QAM	18625	12RB#0	20.59	PASS
Band2	5MHz	QPSK	18625	12RB#6	21.61	PASS
Band2	5MHz	16QAM	18625	12RB#6	20.54	PASS
Band2	5MHz	QPSK	18625	12RB#13	21.70	PASS
Band2	5MHz	16QAM	18625	12RB#13	20.63	PASS
Band2	5MHz	QPSK	18625	25RB#0	21.61	PASS
Band2	5MHz	16QAM	18625	25RB#0	20.59	PASS
Band2	5MHz	QPSK	18900	1RB#0	22.49	PASS
Band2	5MHz	16QAM	18900	1RB#0	21.50	PASS
Band2	5MHz	QPSK	18900	1RB#12	22.65	PASS
Band2	5MHz	16QAM	18900	1RB#12	21.62	PASS
Band2	5MHz	QPSK	18900	1RB#24	22.50	PASS
Band2	5MHz	16QAM	18900	1RB#24	21.52	PASS
Band2	5MHz	QPSK	18900	12RB#0	21.57	PASS
Band2	5MHz	16QAM	18900	12RB#0	20.56	PASS
Band2	5MHz	QPSK	18900	12RB#6	21.55	PASS
Band2	5MHz	16QAM	18900	12RB#6	20.58	PASS
Band2	5MHz	QPSK	18900	12RB#13	21.57	PASS
Band2	5MHz	16QAM	18900	12RB#13	20.53	PASS
Band2	5MHz	QPSK	18900	25RB#0	21.55	PASS
Band2	5MHz	16QAM	18900	25RB#0	20.57	PASS
Band2	5MHz	QPSK	19175	1RB#0	22.28	PASS
Band2	5MHz	16QAM	19175	1RB#0	21.23	PASS
Band2	5MHz	QPSK	19175	1RB#12	22.46	PASS
Band2	5MHz	16QAM	19175	1RB#12	21.47	PASS
Band2	5MHz	QPSK	19175	1RB#24	22.37	PASS
Band2	5MHz	16QAM	19175	1RB#24	21.34	PASS
Band2	5MHz	QPSK	19175	12RB#0	21.38	PASS
Band2	5MHz	16QAM	19175	12RB#0	20.40	PASS
Band2	5MHz	QPSK	19175	12RB#6	21.41	PASS
Band2	5MHz	16QAM	19175	12RB#6	20.41	PASS
Band2	5MHz	QPSK	19175	12RB#13	21.40	PASS

Band2	5MHz	16QAM	19175	12RB#13	20.38	PASS
Band2	5MHz	QPSK	19175	25RB#0	21.42	PASS
Band2	5MHz	16QAM	19175	25RB#0	20.43	PASS
Band2	10MHz	QPSK	18650	1RB#0	22.52	PASS
Band2	10MHz	16QAM	18650	1RB#0	21.74	PASS
Band2	10MHz	QPSK	18650	1RB#24	22.70	PASS
Band2	10MHz	16QAM	18650	1RB#24	21.86	PASS
Band2	10MHz	QPSK	18650	1RB#49	22.49	PASS
Band2	10MHz	16QAM	18650	1RB#49	21.64	PASS
Band2	10MHz	QPSK	18650	25RB#0	21.62	PASS
Band2	10MHz	16QAM	18650	25RB#0	20.61	PASS
Band2	10MHz	QPSK	18650	25RB#12	21.60	PASS
Band2	10MHz	16QAM	18650	25RB#12	20.62	PASS
Band2	10MHz	QPSK	18650	25RB#25	21.70	PASS
Band2	10MHz	16QAM	18650	25RB#25	20.70	PASS
Band2	10MHz	QPSK	18650	50RB#0	21.62	PASS
Band2	10MHz	16QAM	18650	50RB#0	20.65	PASS
Band2	10MHz	QPSK	18900	1RB#0	22.44	PASS
Band2	10MHz	16QAM	18900	1RB#0	21.63	PASS
Band2	10MHz	QPSK	18900	1RB#24	22.66	PASS
Band2	10MHz	16QAM	18900	1RB#24	21.75	PASS
Band2	10MHz	QPSK	18900	1RB#49	22.46	PASS
Band2	10MHz	16QAM	18900	1RB#49	21.62	PASS
Band2	10MHz	QPSK	18900	25RB#0	21.56	PASS
Band2	10MHz	16QAM	18900	25RB#0	20.58	PASS
Band2	10MHz	QPSK	18900	25RB#12	21.57	PASS
Band2	10MHz	16QAM	18900	25RB#12	20.57	PASS
Band2	10MHz	QPSK	18900	25RB#25	21.60	PASS
Band2	10MHz	16QAM	18900	25RB#25	20.60	PASS
Band2	10MHz	QPSK	18900	50RB#0	21.54	PASS
Band2	10MHz	16QAM	18900	50RB#0	20.53	PASS
Band2	10MHz	QPSK	19150	1RB#0	22.24	PASS
Band2	10MHz	16QAM	19150	1RB#0	21.44	PASS
Band2	10MHz	QPSK	19150	1RB#24	22.32	PASS
Band2	10MHz	16QAM	19150	1RB#24	21.63	PASS
Band2	10MHz	QPSK	19150	1RB#49	22.32	PASS
Band2	10MHz	16QAM	19150	1RB#49	21.53	PASS
Band2	10MHz	QPSK	19150	25RB#0	21.49	PASS
Band2	10MHz	16QAM	19150	25RB#0	20.47	PASS
Band2	10MHz	QPSK	19150	25RB#12	21.49	PASS
Band2	10MHz	16QAM	19150	25RB#12	20.49	PASS
Band2	10MHz	QPSK	19150	25RB#25	21.32	PASS

Band2	10MHz	16QAM	19150	25RB#25	20.30	PASS
Band2	10MHz	QPSK	19150	50RB#0	21.35	PASS
Band2	10MHz	16QAM	19150	50RB#0	20.36	PASS
Band2	15MHz	QPSK	18675	1RB#0	22.56	PASS
Band2	15MHz	16QAM	18675	1RB#0	21.74	PASS
Band2	15MHz	QPSK	18675	1RB#38	22.60	PASS
Band2	15MHz	16QAM	18675	1RB#38	21.79	PASS
Band2	15MHz	QPSK	18675	1RB#74	22.31	PASS
Band2	15MHz	16QAM	18675	1RB#74	21.50	PASS
Band2	15MHz	QPSK	18675	38RB#0	21.64	PASS
Band2	15MHz	16QAM	18675	38RB#0	21.65	PASS
Band2	15MHz	QPSK	18675	38RB#18	21.62	PASS
Band2	15MHz	16QAM	18675	38RB#18	21.67	PASS
Band2	15MHz	QPSK	18675	38RB#37	21.60	PASS
Band2	15MHz	16QAM	18675	38RB#37	21.64	PASS
Band2	15MHz	QPSK	18675	75RB#0	21.60	PASS
Band2	15MHz	16QAM	18675	75RB#0	20.58	PASS
Band2	15MHz	QPSK	18900	1RB#0	22.45	PASS
Band2	15MHz	16QAM	18900	1RB#0	21.59	PASS
Band2	15MHz	QPSK	18900	1RB#38	22.54	PASS
Band2	15MHz	16QAM	18900	1RB#38	21.72	PASS
Band2	15MHz	QPSK	18900	1RB#74	22.38	PASS
Band2	15MHz	16QAM	18900	1RB#74	21.58	PASS
Band2	15MHz	QPSK	18900	38RB#0	21.63	PASS
Band2	15MHz	16QAM	18900	38RB#0	21.63	PASS
Band2	15MHz	QPSK	18900	38RB#18	21.63	PASS
Band2	15MHz	16QAM	18900	38RB#18	21.63	PASS
Band2	15MHz	QPSK	18900	38RB#37	21.62	PASS
Band2	15MHz	16QAM	18900	38RB#37	21.61	PASS
Band2	15MHz	QPSK	18900	75RB#0	21.61	PASS
Band2	15MHz	16QAM	18900	75RB#0	20.56	PASS
Band2	15MHz	QPSK	19125	1RB#0	22.30	PASS
Band2	15MHz	16QAM	19125	1RB#0	21.44	PASS
Band2	15MHz	QPSK	19125	1RB#38	22.27	PASS
Band2	15MHz	16QAM	19125	1RB#38	21.45	PASS
Band2	15MHz	QPSK	19125	1RB#74	22.26	PASS
Band2	15MHz	16QAM	19125	1RB#74	21.43	PASS
Band2	15MHz	QPSK	19125	38RB#0	21.44	PASS
Band2	15MHz	16QAM	19125	38RB#0	21.41	PASS
Band2	15MHz	QPSK	19125	38RB#18	21.41	PASS
Band2	15MHz	16QAM	19125	38RB#18	21.43	PASS
Band2	15MHz	QPSK	19125	38RB#37	21.44	PASS

Band2	15MHz	16QAM	19125	38RB#37	21.45	PASS
Band2	15MHz	QPSK	19125	75RB#0	21.45	PASS
Band2	15MHz	16QAM	19125	75RB#0	20.42	PASS
Band2	20MHz	QPSK	18700	1RB#0	22.50	PASS
Band2	20MHz	16QAM	18700	1RB#0	21.55	PASS
Band2	20MHz	QPSK	18700	1RB#49	23.08	PASS
Band2	20MHz	16QAM	18700	1RB#49	21.68	PASS
Band2	20MHz	QPSK	18700	1RB#99	22.21	PASS
Band2	20MHz	16QAM	18700	1RB#99	21.21	PASS
Band2	20MHz	QPSK	18700	50RB#0	21.51	PASS
Band2	20MHz	16QAM	18700	50RB#0	20.51	PASS
Band2	20MHz	QPSK	18700	50RB#25	21.56	PASS
Band2	20MHz	16QAM	18700	50RB#25	20.53	PASS
Band2	20MHz	QPSK	18700	50RB#50	21.43	PASS
Band2	20MHz	16QAM	18700	50RB#50	20.44	PASS
Band2	20MHz	QPSK	18700	100RB#0	21.47	PASS
Band2	20MHz	16QAM	18700	100RB#0	20.46	PASS
Band2	20MHz	QPSK	18900	1RB#0	22.32	PASS
Band2	20MHz	16QAM	18900	1RB#0	21.51	PASS
Band2	20MHz	QPSK	18900	1RB#49	22.69	PASS
Band2	20MHz	16QAM	18900	1RB#49	21.82	PASS
Band2	20MHz	QPSK	18900	1RB#99	22.21	PASS
Band2	20MHz	16QAM	18900	1RB#99	21.45	PASS
Band2	20MHz	QPSK	18900	50RB#0	21.50	PASS
Band2	20MHz	16QAM	18900	50RB#0	20.56	PASS
Band2	20MHz	QPSK	18900	50RB#25	21.53	PASS
Band2	20MHz	16QAM	18900	50RB#25	20.55	PASS
Band2	20MHz	QPSK	18900	50RB#50	21.58	PASS
Band2	20MHz	16QAM	18900	50RB#50	20.61	PASS
Band2	20MHz	QPSK	18900	100RB#0	21.54	PASS
Band2	20MHz	16QAM	18900	100RB#0	20.61	PASS
Band2	20MHz	QPSK	19100	1RB#0	22.24	PASS
Band2	20MHz	16QAM	19100	1RB#0	21.23	PASS
Band2	20MHz	QPSK	19100	1RB#49	22.46	PASS
Band2	20MHz	16QAM	19100	1RB#49	21.44	PASS
Band2	20MHz	QPSK	19100	1RB#99	22.16	PASS
Band2	20MHz	16QAM	19100	1RB#99	21.17	PASS
Band2	20MHz	QPSK	19100	50RB#0	21.31	PASS
Band2	20MHz	16QAM	19100	50RB#0	20.33	PASS
Band2	20MHz	QPSK	19100	50RB#25	21.29	PASS
Band2	20MHz	16QAM	19100	50RB#25	20.32	PASS
Band2	20MHz	QPSK	19100	50RB#50	21.13	PASS

Band2	20MHz	16QAM	19100	50RB#50	20.11	PASS
Band2	20MHz	QPSK	19100	100RB#0	21.24	PASS
Band2	20MHz	16QAM	19100	100RB#0	20.25	PASS

FDD-LTE Band 4:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band4	1.4MHz	QPSK	19957	1RB#0	22.97	PASS
Band4	1.4MHz	16QAM	19957	1RB#0	22.07	PASS
Band4	1.4MHz	QPSK	19957	1RB#2	23.10	PASS
Band4	1.4MHz	16QAM	19957	1RB#2	22.33	PASS
Band4	1.4MHz	QPSK	19957	1RB#5	22.93	PASS
Band4	1.4MHz	16QAM	19957	1RB#5	22.11	PASS
Band4	1.4MHz	QPSK	19957	3RB#0	23.05	PASS
Band4	1.4MHz	16QAM	19957	3RB#0	21.96	PASS
Band4	1.4MHz	QPSK	19957	3RB#1	23.04	PASS
Band4	1.4MHz	16QAM	19957	3RB#1	21.97	PASS
Band4	1.4MHz	QPSK	19957	3RB#3	23.06	PASS
Band4	1.4MHz	16QAM	19957	3RB#3	21.94	PASS
Band4	1.4MHz	QPSK	19957	6RB#0	22.06	PASS
Band4	1.4MHz	16QAM	19957	6RB#0	21.12	PASS
Band4	1.4MHz	QPSK	20175	1RB#0	22.81	PASS
Band4	1.4MHz	16QAM	20175	1RB#0	21.91	PASS
Band4	1.4MHz	QPSK	20175	1RB#2	22.94	PASS
Band4	1.4MHz	16QAM	20175	1RB#2	22.10	PASS
Band4	1.4MHz	QPSK	20175	1RB#5	22.75	PASS
Band4	1.4MHz	16QAM	20175	1RB#5	21.92	PASS
Band4	1.4MHz	QPSK	20175	3RB#0	22.86	PASS
Band4	1.4MHz	16QAM	20175	3RB#0	21.80	PASS
Band4	1.4MHz	QPSK	20175	3RB#1	22.87	PASS
Band4	1.4MHz	16QAM	20175	3RB#1	21.81	PASS
Band4	1.4MHz	QPSK	20175	3RB#3	22.87	PASS
Band4	1.4MHz	16QAM	20175	3RB#3	21.74	PASS
Band4	1.4MHz	QPSK	20175	6RB#0	21.90	PASS
Band4	1.4MHz	16QAM	20175	6RB#0	20.90	PASS
Band4	1.4MHz	QPSK	20393	1RB#0	23.09	PASS
Band4	1.4MHz	16QAM	20393	1RB#0	22.23	PASS
Band4	1.4MHz	QPSK	20393	1RB#2	23.31	PASS
Band4	1.4MHz	16QAM	20393	1RB#2	22.34	PASS
Band4	1.4MHz	QPSK	20393	1RB#5	23.09	PASS
Band4	1.4MHz	16QAM	20393	1RB#5	22.23	PASS
Band4	1.4MHz	QPSK	20393	3RB#0	23.12	PASS

Band4	1.4MHz	16QAM	20393	3RB#0	22.04	PASS
Band4	1.4MHz	QPSK	20393	3RB#1	23.12	PASS
Band4	1.4MHz	16QAM	20393	3RB#1	22.04	PASS
Band4	1.4MHz	QPSK	20393	3RB#3	23.19	PASS
Band4	1.4MHz	16QAM	20393	3RB#3	22.09	PASS
Band4	1.4MHz	QPSK	20393	6RB#0	22.17	PASS
Band4	1.4MHz	16QAM	20393	6RB#0	21.02	PASS
Band4	3MHz	QPSK	19965	1RB#0	22.95	PASS
Band4	3MHz	16QAM	19965	1RB#0	22.20	PASS
Band4	3MHz	QPSK	19965	1RB#8	22.99	PASS
Band4	3MHz	16QAM	19965	1RB#8	22.13	PASS
Band4	3MHz	QPSK	19965	1RB#14	23.00	PASS
Band4	3MHz	16QAM	19965	1RB#14	22.14	PASS
Band4	3MHz	QPSK	19965	8RB#0	22.07	PASS
Band4	3MHz	16QAM	19965	8RB#0	21.06	PASS
Band4	3MHz	QPSK	19965	8RB#4	22.03	PASS
Band4	3MHz	16QAM	19965	8RB#4	21.06	PASS
Band4	3MHz	QPSK	19965	8RB#7	22.03	PASS
Band4	3MHz	16QAM	19965	8RB#7	21.06	PASS
Band4	3MHz	QPSK	19965	15RB#0	22.01	PASS
Band4	3MHz	16QAM	19965	15RB#0	21.01	PASS
Band4	3MHz	QPSK	20175	1RB#0	22.80	PASS
Band4	3MHz	16QAM	20175	1RB#0	22.04	PASS
Band4	3MHz	QPSK	20175	1RB#8	22.79	PASS
Band4	3MHz	16QAM	20175	1RB#8	21.95	PASS
Band4	3MHz	QPSK	20175	1RB#14	22.75	PASS
Band4	3MHz	16QAM	20175	1RB#14	21.92	PASS
Band4	3MHz	QPSK	20175	8RB#0	21.86	PASS
Band4	3MHz	16QAM	20175	8RB#0	20.91	PASS
Band4	3MHz	QPSK	20175	8RB#4	21.82	PASS
Band4	3MHz	16QAM	20175	8RB#4	20.91	PASS
Band4	3MHz	QPSK	20175	8RB#7	21.87	PASS
Band4	3MHz	16QAM	20175	8RB#7	20.85	PASS
Band4	3MHz	QPSK	20175	15RB#0	21.81	PASS
Band4	3MHz	16QAM	20175	15RB#0	20.81	PASS
Band4	3MHz	QPSK	20385	1RB#0	23.10	PASS
Band4	3MHz	16QAM	20385	1RB#0	22.24	PASS
Band4	3MHz	QPSK	20385	1RB#8	23.12	PASS
Band4	3MHz	16QAM	20385	1RB#8	22.24	PASS
Band4	3MHz	QPSK	20385	1RB#14	23.11	PASS
Band4	3MHz	16QAM	20385	1RB#14	22.21	PASS
Band4	3MHz	QPSK	20385	8RB#0	22.13	PASS

Band4	3MHz	16QAM	20385	8RB#0	21.12	PASS
Band4	3MHz	QPSK	20385	8RB#4	22.16	PASS
Band4	3MHz	16QAM	20385	8RB#4	21.10	PASS
Band4	3MHz	QPSK	20385	8RB#7	22.18	PASS
Band4	3MHz	16QAM	20385	8RB#7	21.11	PASS
Band4	3MHz	QPSK	20385	15RB#0	22.13	PASS
Band4	3MHz	16QAM	20385	15RB#0	21.05	PASS
Band4	5MHz	QPSK	19975	1RB#0	23.01	PASS
Band4	5MHz	16QAM	19975	1RB#0	21.98	PASS
Band4	5MHz	QPSK	19975	1RB#12	23.13	PASS
Band4	5MHz	16QAM	19975	1RB#12	22.13	PASS
Band4	5MHz	QPSK	19975	1RB#24	22.98	PASS
Band4	5MHz	16QAM	19975	1RB#24	22.01	PASS
Band4	5MHz	QPSK	19975	12RB#0	22.03	PASS
Band4	5MHz	16QAM	19975	12RB#0	21.01	PASS
Band4	5MHz	QPSK	19975	12RB#6	22.01	PASS
Band4	5MHz	16QAM	19975	12RB#6	21.00	PASS
Band4	5MHz	QPSK	19975	12RB#13	22.05	PASS
Band4	5MHz	16QAM	19975	12RB#13	21.00	PASS
Band4	5MHz	QPSK	19975	25RB#0	22.04	PASS
Band4	5MHz	16QAM	19975	25RB#0	21.05	PASS
Band4	5MHz	QPSK	20175	1RB#0	22.84	PASS
Band4	5MHz	16QAM	20175	1RB#0	21.82	PASS
Band4	5MHz	QPSK	20175	1RB#12	22.88	PASS
Band4	5MHz	16QAM	20175	1RB#12	21.86	PASS
Band4	5MHz	QPSK	20175	1RB#24	22.77	PASS
Band4	5MHz	16QAM	20175	1RB#24	21.81	PASS
Band4	5MHz	QPSK	20175	12RB#0	21.84	PASS
Band4	5MHz	16QAM	20175	12RB#0	20.78	PASS
Band4	5MHz	QPSK	20175	12RB#6	21.87	PASS
Band4	5MHz	16QAM	20175	12RB#6	20.79	PASS
Band4	5MHz	QPSK	20175	12RB#13	21.88	PASS
Band4	5MHz	16QAM	20175	12RB#13	20.82	PASS
Band4	5MHz	QPSK	20175	25RB#0	21.82	PASS
Band4	5MHz	16QAM	20175	25RB#0	20.84	PASS
Band4	5MHz	QPSK	20375	1RB#0	23.06	PASS
Band4	5MHz	16QAM	20375	1RB#0	22.26	PASS
Band4	5MHz	QPSK	20375	1RB#12	23.19	PASS
Band4	5MHz	16QAM	20375	1RB#12	22.36	PASS
Band4	5MHz	QPSK	20375	1RB#24	23.10	PASS
Band4	5MHz	16QAM	20375	1RB#24	22.31	PASS
Band4	5MHz	QPSK	20375	12RB#0	22.10	PASS

Band4	5MHz	16QAM	20375	12RB#0	21.10	PASS
Band4	5MHz	QPSK	20375	12RB#6	22.07	PASS
Band4	5MHz	16QAM	20375	12RB#6	21.13	PASS
Band4	5MHz	QPSK	20375	12RB#13	22.14	PASS
Band4	5MHz	16QAM	20375	12RB#13	21.15	PASS
Band4	5MHz	QPSK	20375	25RB#0	22.13	PASS
Band4	5MHz	16QAM	20375	25RB#0	21.11	PASS
Band4	10MHz	QPSK	20000	1RB#0	23.01	PASS
Band4	10MHz	16QAM	20000	1RB#0	22.20	PASS
Band4	10MHz	QPSK	20000	1RB#24	23.10	PASS
Band4	10MHz	16QAM	20000	1RB#24	22.31	PASS
Band4	10MHz	QPSK	20000	1RB#49	23.03	PASS
Band4	10MHz	16QAM	20000	1RB#49	22.24	PASS
Band4	10MHz	QPSK	20000	25RB#0	22.11	PASS
Band4	10MHz	16QAM	20000	25RB#0	21.11	PASS
Band4	10MHz	QPSK	20000	25RB#12	22.11	PASS
Band4	10MHz	16QAM	20000	25RB#12	21.09	PASS
Band4	10MHz	QPSK	20000	25RB#25	22.12	PASS
Band4	10MHz	16QAM	20000	25RB#25	21.11	PASS
Band4	10MHz	QPSK	20000	50RB#0	22.10	PASS
Band4	10MHz	16QAM	20000	50RB#0	21.05	PASS
Band4	10MHz	QPSK	20175	1RB#0	22.89	PASS
Band4	10MHz	16QAM	20175	1RB#0	22.07	PASS
Band4	10MHz	QPSK	20175	1RB#24	22.83	PASS
Band4	10MHz	16QAM	20175	1RB#24	22.11	PASS
Band4	10MHz	QPSK	20175	1RB#49	22.75	PASS
Band4	10MHz	16QAM	20175	1RB#49	21.94	PASS
Band4	10MHz	QPSK	20175	25RB#0	21.90	PASS
Band4	10MHz	16QAM	20175	25RB#0	20.90	PASS
Band4	10MHz	QPSK	20175	25RB#12	21.90	PASS
Band4	10MHz	16QAM	20175	25RB#12	20.89	PASS
Band4	10MHz	QPSK	20175	25RB#25	21.85	PASS
Band4	10MHz	16QAM	20175	25RB#25	20.85	PASS
Band4	10MHz	QPSK	20175	50RB#0	21.85	PASS
Band4	10MHz	16QAM	20175	50RB#0	20.81	PASS
Band4	10MHz	QPSK	20350	1RB#0	22.97	PASS
Band4	10MHz	16QAM	20350	1RB#0	22.15	PASS
Band4	10MHz	QPSK	20350	1RB#24	23.10	PASS
Band4	10MHz	16QAM	20350	1RB#24	22.23	PASS
Band4	10MHz	QPSK	20350	1RB#49	23.06	PASS
Band4	10MHz	16QAM	20350	1RB#49	22.22	PASS
Band4	10MHz	QPSK	20350	25RB#0	22.03	PASS

Band4	10MHz	16QAM	20350	25RB#0	21.06	PASS
Band4	10MHz	QPSK	20350	25RB#12	22.02	PASS
Band4	10MHz	16QAM	20350	25RB#12	21.05	PASS
Band4	10MHz	QPSK	20350	25RB#25	22.09	PASS
Band4	10MHz	16QAM	20350	25RB#25	21.13	PASS
Band4	10MHz	QPSK	20350	50RB#0	22.05	PASS
Band4	10MHz	16QAM	20350	50RB#0	21.08	PASS
Band4	15MHz	QPSK	20025	1RB#0	22.94	PASS
Band4	15MHz	16QAM	20025	1RB#0	22.08	PASS
Band4	15MHz	QPSK	20025	1RB#38	22.99	PASS
Band4	15MHz	16QAM	20025	1RB#38	22.19	PASS
Band4	15MHz	QPSK	20025	1RB#74	22.82	PASS
Band4	15MHz	16QAM	20025	1RB#74	22.00	PASS
Band4	15MHz	QPSK	20025	38RB#0	22.12	PASS
Band4	15MHz	16QAM	20025	38RB#0	22.11	PASS
Band4	15MHz	QPSK	20025	38RB#18	22.11	PASS
Band4	15MHz	16QAM	20025	38RB#18	22.12	PASS
Band4	15MHz	QPSK	20025	38RB#37	22.11	PASS
Band4	15MHz	16QAM	20025	38RB#37	22.09	PASS
Band4	15MHz	QPSK	20025	75RB#0	22.05	PASS
Band4	15MHz	16QAM	20025	75RB#0	21.02	PASS
Band4	15MHz	QPSK	20175	1RB#0	22.86	PASS
Band4	15MHz	16QAM	20175	1RB#0	22.06	PASS
Band4	15MHz	QPSK	20175	1RB#38	22.75	PASS
Band4	15MHz	16QAM	20175	1RB#38	21.93	PASS
Band4	15MHz	QPSK	20175	1RB#74	22.58	PASS
Band4	15MHz	16QAM	20175	1RB#74	21.78	PASS
Band4	15MHz	QPSK	20175	38RB#0	21.92	PASS
Band4	15MHz	16QAM	20175	38RB#0	21.89	PASS
Band4	15MHz	QPSK	20175	38RB#18	22.03	PASS
Band4	15MHz	16QAM	20175	38RB#18	22.03	PASS
Band4	15MHz	QPSK	20175	38RB#37	21.86	PASS
Band4	15MHz	16QAM	20175	38RB#37	21.89	PASS
Band4	15MHz	QPSK	20175	75RB#0	21.94	PASS
Band4	15MHz	16QAM	20175	75RB#0	20.78	PASS
Band4	15MHz	QPSK	20325	1RB#0	22.92	PASS
Band4	15MHz	16QAM	20325	1RB#0	22.10	PASS
Band4	15MHz	QPSK	20325	1RB#38	23.12	PASS
Band4	15MHz	16QAM	20325	1RB#38	22.31	PASS
Band4	15MHz	QPSK	20325	1RB#74	23.08	PASS
Band4	15MHz	16QAM	20325	1RB#74	22.27	PASS
Band4	15MHz	QPSK	20325	38RB#0	22.22	PASS

Band4	15MHz	16QAM	20325	38RB#0	22.22	PASS
Band4	15MHz	QPSK	20325	38RB#18	22.23	PASS
Band4	15MHz	16QAM	20325	38RB#18	22.24	PASS
Band4	15MHz	QPSK	20325	38RB#37	22.23	PASS
Band4	15MHz	16QAM	20325	38RB#37	22.23	PASS
Band4	15MHz	QPSK	20325	75RB#0	22.24	PASS
Band4	15MHz	16QAM	20325	75RB#0	21.15	PASS
Band4	20MHz	QPSK	20050	1RB#0	22.81	PASS
Band4	20MHz	16QAM	20050	1RB#0	21.84	PASS
Band4	20MHz	QPSK	20050	1RB#49	23.15	PASS
Band4	20MHz	16QAM	20050	1RB#49	22.21	PASS
Band4	20MHz	QPSK	20050	1RB#99	22.66	PASS
Band4	20MHz	16QAM	20050	1RB#99	21.67	PASS
Band4	20MHz	QPSK	20050	50RB#0	21.98	PASS
Band4	20MHz	16QAM	20050	50RB#0	20.99	PASS
Band4	20MHz	QPSK	20050	50RB#25	21.98	PASS
Band4	20MHz	16QAM	20050	50RB#25	20.99	PASS
Band4	20MHz	QPSK	20050	50RB#50	21.92	PASS
Band4	20MHz	16QAM	20050	50RB#50	20.91	PASS
Band4	20MHz	QPSK	20050	100RB#0	21.94	PASS
Band4	20MHz	16QAM	20050	100RB#0	20.93	PASS
Band4	20MHz	QPSK	20175	1RB#0	22.84	PASS
Band4	20MHz	16QAM	20175	1RB#0	21.82	PASS
Band4	20MHz	QPSK	20175	1RB#49	23.06	PASS
Band4	20MHz	16QAM	20175	1RB#49	21.99	PASS
Band4	20MHz	QPSK	20175	1RB#99	22.67	PASS
Band4	20MHz	16QAM	20175	1RB#99	21.69	PASS
Band4	20MHz	QPSK	20175	50RB#0	21.92	PASS
Band4	20MHz	16QAM	20175	50RB#0	20.93	PASS
Band4	20MHz	QPSK	20175	50RB#25	21.91	PASS
Band4	20MHz	16QAM	20175	50RB#25	20.88	PASS
Band4	20MHz	QPSK	20175	50RB#50	21.84	PASS
Band4	20MHz	16QAM	20175	50RB#50	20.86	PASS
Band4	20MHz	QPSK	20175	100RB#0	21.86	PASS
Band4	20MHz	16QAM	20175	100RB#0	20.85	PASS
Band4	20MHz	QPSK	20300	1RB#0	22.85	PASS
Band4	20MHz	16QAM	20300	1RB#0	21.85	PASS
Band4	20MHz	QPSK	20300	1RB#49	23.37	PASS
Band4	20MHz	16QAM	20300	1RB#49	22.36	PASS
Band4	20MHz	QPSK	20300	1RB#99	23.08	PASS
Band4	20MHz	16QAM	20300	1RB#99	22.13	PASS
Band4	20MHz	QPSK	20300	50RB#0	22.08	PASS

Band4	20MHz	16QAM	20300	50RB#0	21.05	PASS
Band4	20MHz	QPSK	20300	50RB#25	22.11	PASS
Band4	20MHz	16QAM	20300	50RB#25	21.08	PASS
Band4	20MHz	QPSK	20300	50RB#50	22.23	PASS
Band4	20MHz	16QAM	20300	50RB#50	21.20	PASS
Band4	20MHz	QPSK	20300	100RB#0	22.12	PASS
Band4	20MHz	16QAM	20300	100RB#0	21.14	PASS

FDD-LTE Band 5:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band5	1.4MHz	QPSK	20407	1RB#0	23.10	PASS
Band5	1.4MHz	16QAM	20407	1RB#0	22.26	PASS
Band5	1.4MHz	QPSK	20407	1RB#2	23.23	PASS
Band5	1.4MHz	16QAM	20407	1RB#2	22.44	PASS
Band5	1.4MHz	QPSK	20407	1RB#5	23.06	PASS
Band5	1.4MHz	16QAM	20407	1RB#5	22.27	PASS
Band5	1.4MHz	QPSK	20407	3RB#0	23.21	PASS
Band5	1.4MHz	16QAM	20407	3RB#0	22.13	PASS
Band5	1.4MHz	QPSK	20407	3RB#1	23.19	PASS
Band5	1.4MHz	16QAM	20407	3RB#1	22.13	PASS
Band5	1.4MHz	QPSK	20407	3RB#3	23.17	PASS
Band5	1.4MHz	16QAM	20407	3RB#3	22.09	PASS
Band5	1.4MHz	QPSK	20407	6RB#0	22.18	PASS
Band5	1.4MHz	16QAM	20407	6RB#0	21.23	PASS
Band5	1.4MHz	QPSK	20525	1RB#0	23.11	PASS
Band5	1.4MHz	16QAM	20525	1RB#0	22.30	PASS
Band5	1.4MHz	QPSK	20525	1RB#2	23.26	PASS
Band5	1.4MHz	16QAM	20525	1RB#2	22.38	PASS
Band5	1.4MHz	QPSK	20525	1RB#5	23.05	PASS
Band5	1.4MHz	16QAM	20525	1RB#5	22.26	PASS
Band5	1.4MHz	QPSK	20525	3RB#0	23.22	PASS
Band5	1.4MHz	16QAM	20525	3RB#0	22.14	PASS
Band5	1.4MHz	QPSK	20525	3RB#1	23.23	PASS
Band5	1.4MHz	16QAM	20525	3RB#1	22.17	PASS
Band5	1.4MHz	QPSK	20525	3RB#3	23.27	PASS
Band5	1.4MHz	16QAM	20525	3RB#3	22.11	PASS
Band5	1.4MHz	QPSK	20525	6RB#0	22.17	PASS
Band5	1.4MHz	16QAM	20525	6RB#0	21.28	PASS
Band5	1.4MHz	QPSK	20643	1RB#0	23.19	PASS
Band5	1.4MHz	16QAM	20643	1RB#0	22.34	PASS
Band5	1.4MHz	QPSK	20643	1RB#2	23.36	PASS

Band5	1.4MHz	16QAM	20643	1RB#2	22.59	PASS
Band5	1.4MHz	QPSK	20643	1RB#5	23.26	PASS
Band5	1.4MHz	16QAM	20643	1RB#5	22.37	PASS
Band5	1.4MHz	QPSK	20643	3RB#0	23.27	PASS
Band5	1.4MHz	16QAM	20643	3RB#0	22.22	PASS
Band5	1.4MHz	QPSK	20643	3RB#1	23.24	PASS
Band5	1.4MHz	16QAM	20643	3RB#1	22.20	PASS
Band5	1.4MHz	QPSK	20643	3RB#3	23.34	PASS
Band5	1.4MHz	16QAM	20643	3RB#3	22.24	PASS
Band5	1.4MHz	QPSK	20643	6RB#0	22.33	PASS
Band5	1.4MHz	16QAM	20643	6RB#0	21.21	PASS
Band5	3MHz	QPSK	20415	1RB#0	23.07	PASS
Band5	3MHz	16QAM	20415	1RB#0	22.34	PASS
Band5	3MHz	QPSK	20415	1RB#8	23.11	PASS
Band5	3MHz	16QAM	20415	1RB#8	22.29	PASS
Band5	3MHz	QPSK	20415	1RB#14	23.06	PASS
Band5	3MHz	16QAM	20415	1RB#14	22.32	PASS
Band5	3MHz	QPSK	20415	8RB#0	22.15	PASS
Band5	3MHz	16QAM	20415	8RB#0	21.18	PASS
Band5	3MHz	QPSK	20415	8RB#4	22.14	PASS
Band5	3MHz	16QAM	20415	8RB#4	21.19	PASS
Band5	3MHz	QPSK	20415	8RB#7	22.17	PASS
Band5	3MHz	16QAM	20415	8RB#7	21.22	PASS
Band5	3MHz	QPSK	20415	15RB#0	22.13	PASS
Band5	3MHz	16QAM	20415	15RB#0	21.17	PASS
Band5	3MHz	QPSK	20525	1RB#0	23.13	PASS
Band5	3MHz	16QAM	20525	1RB#0	22.37	PASS
Band5	3MHz	QPSK	20525	1RB#8	23.16	PASS
Band5	3MHz	16QAM	20525	1RB#8	22.30	PASS
Band5	3MHz	QPSK	20525	1RB#14	23.10	PASS
Band5	3MHz	16QAM	20525	1RB#14	22.23	PASS
Band5	3MHz	QPSK	20525	8RB#0	22.22	PASS
Band5	3MHz	16QAM	20525	8RB#0	21.26	PASS
Band5	3MHz	QPSK	20525	8RB#4	22.20	PASS
Band5	3MHz	16QAM	20525	8RB#4	21.25	PASS
Band5	3MHz	QPSK	20525	8RB#7	22.20	PASS
Band5	3MHz	16QAM	20525	8RB#7	21.20	PASS
Band5	3MHz	QPSK	20525	15RB#0	22.19	PASS
Band5	3MHz	16QAM	20525	15RB#0	21.17	PASS
Band5	3MHz	QPSK	20635	1RB#0	23.21	PASS
Band5	3MHz	16QAM	20635	1RB#0	22.44	PASS
Band5	3MHz	QPSK	20635	1RB#8	23.26	PASS

Band5	3MHz	16QAM	20635	1RB#8	22.40	PASS
Band5	3MHz	QPSK	20635	1RB#14	23.24	PASS
Band5	3MHz	16QAM	20635	1RB#14	22.38	PASS
Band5	3MHz	QPSK	20635	8RB#0	22.26	PASS
Band5	3MHz	16QAM	20635	8RB#0	21.27	PASS
Band5	3MHz	QPSK	20635	8RB#4	22.27	PASS
Band5	3MHz	16QAM	20635	8RB#4	21.27	PASS
Band5	3MHz	QPSK	20635	8RB#7	22.27	PASS
Band5	3MHz	16QAM	20635	8RB#7	21.25	PASS
Band5	3MHz	QPSK	20635	15RB#0	22.27	PASS
Band5	3MHz	16QAM	20635	15RB#0	21.16	PASS
Band5	5MHz	QPSK	20425	1RB#0	23.06	PASS
Band5	5MHz	16QAM	20425	1RB#0	22.11	PASS
Band5	5MHz	QPSK	20425	1RB#12	23.21	PASS
Band5	5MHz	16QAM	20425	1RB#12	22.25	PASS
Band5	5MHz	QPSK	20425	1RB#24	23.05	PASS
Band5	5MHz	16QAM	20425	1RB#24	22.11	PASS
Band5	5MHz	QPSK	20425	12RB#0	22.02	PASS
Band5	5MHz	16QAM	20425	12RB#0	21.03	PASS
Band5	5MHz	QPSK	20425	12RB#6	22.10	PASS
Band5	5MHz	16QAM	20425	12RB#6	21.06	PASS
Band5	5MHz	QPSK	20425	12RB#13	22.13	PASS
Band5	5MHz	16QAM	20425	12RB#13	21.14	PASS
Band5	5MHz	QPSK	20425	25RB#0	22.12	PASS
Band5	5MHz	16QAM	20425	25RB#0	21.13	PASS
Band5	5MHz	QPSK	20525	1RB#0	23.15	PASS
Band5	5MHz	16QAM	20525	1RB#0	22.17	PASS
Band5	5MHz	QPSK	20525	1RB#12	23.22	PASS
Band5	5MHz	16QAM	20525	1RB#12	22.28	PASS
Band5	5MHz	QPSK	20525	1RB#24	23.07	PASS
Band5	5MHz	16QAM	20525	1RB#24	22.12	PASS
Band5	5MHz	QPSK	20525	12RB#0	22.18	PASS
Band5	5MHz	16QAM	20525	12RB#0	21.16	PASS
Band5	5MHz	QPSK	20525	12RB#6	22.16	PASS
Band5	5MHz	16QAM	20525	12RB#6	21.19	PASS
Band5	5MHz	QPSK	20525	12RB#13	22.19	PASS
Band5	5MHz	16QAM	20525	12RB#13	21.16	PASS
Band5	5MHz	QPSK	20525	25RB#0	22.22	PASS
Band5	5MHz	16QAM	20525	25RB#0	21.21	PASS
Band5	5MHz	QPSK	20625	1RB#0	23.15	PASS
Band5	5MHz	16QAM	20625	1RB#0	22.35	PASS
Band5	5MHz	QPSK	20625	1RB#12	23.27	PASS

Band5	5MHz	16QAM	20625	1RB#12	22.56	PASS
Band5	5MHz	QPSK	20625	1RB#24	23.15	PASS
Band5	5MHz	16QAM	20625	1RB#24	22.41	PASS
Band5	5MHz	QPSK	20625	12RB#0	22.20	PASS
Band5	5MHz	16QAM	20625	12RB#0	21.27	PASS
Band5	5MHz	QPSK	20625	12RB#6	22.23	PASS
Band5	5MHz	16QAM	20625	12RB#6	21.22	PASS
Band5	5MHz	QPSK	20625	12RB#13	22.19	PASS
Band5	5MHz	16QAM	20625	12RB#13	21.20	PASS
Band5	5MHz	QPSK	20625	25RB#0	22.23	PASS
Band5	5MHz	16QAM	20625	25RB#0	21.23	PASS
Band5	10MHz	QPSK	20450	1RB#0	23.10	PASS
Band5	10MHz	16QAM	20450	1RB#0	22.29	PASS
Band5	10MHz	QPSK	20450	1RB#24	23.14	PASS
Band5	10MHz	16QAM	20450	1RB#24	22.42	PASS
Band5	10MHz	QPSK	20450	1RB#49	23.08	PASS
Band5	10MHz	16QAM	20450	1RB#49	22.30	PASS
Band5	10MHz	QPSK	20450	25RB#0	22.15	PASS
Band5	10MHz	16QAM	20450	25RB#0	21.19	PASS
Band5	10MHz	QPSK	20450	25RB#12	22.14	PASS
Band5	10MHz	16QAM	20450	25RB#12	21.17	PASS
Band5	10MHz	QPSK	20450	25RB#25	22.19	PASS
Band5	10MHz	16QAM	20450	25RB#25	21.17	PASS
Band5	10MHz	QPSK	20450	50RB#0	22.15	PASS
Band5	10MHz	16QAM	20450	50RB#0	21.16	PASS
Band5	10MHz	QPSK	20525	1RB#0	23.10	PASS
Band5	10MHz	16QAM	20525	1RB#0	22.33	PASS
Band5	10MHz	QPSK	20525	1RB#24	23.43	PASS
Band5	10MHz	16QAM	20525	1RB#24	22.34	PASS
Band5	10MHz	QPSK	20525	1RB#49	23.08	PASS
Band5	10MHz	16QAM	20525	1RB#49	22.29	PASS
Band5	10MHz	QPSK	20525	25RB#0	22.25	PASS
Band5	10MHz	16QAM	20525	25RB#0	21.24	PASS
Band5	10MHz	QPSK	20525	25RB#12	22.28	PASS
Band5	10MHz	16QAM	20525	25RB#12	21.25	PASS
Band5	10MHz	QPSK	20525	25RB#25	22.27	PASS
Band5	10MHz	16QAM	20525	25RB#25	21.24	PASS
Band5	10MHz	QPSK	20525	50RB#0	22.22	PASS
Band5	10MHz	16QAM	20525	50RB#0	21.27	PASS
Band5	10MHz	QPSK	20600	1RB#0	23.16	PASS
Band5	10MHz	16QAM	20600	1RB#0	22.35	PASS
Band5	10MHz	QPSK	20600	1RB#24	23.25	PASS

Band5	10MHz	16QAM	20600	1RB#24	22.44	PASS
Band5	10MHz	QPSK	20600	1RB#49	23.19	PASS
Band5	10MHz	16QAM	20600	1RB#49	22.40	PASS
Band5	10MHz	QPSK	20600	25RB#0	22.29	PASS
Band5	10MHz	16QAM	20600	25RB#0	21.30	PASS
Band5	10MHz	QPSK	20600	25RB#12	22.28	PASS
Band5	10MHz	16QAM	20600	25RB#12	21.29	PASS
Band5	10MHz	QPSK	20600	25RB#25	22.25	PASS
Band5	10MHz	16QAM	20600	25RB#25	21.29	PASS
Band5	10MHz	QPSK	20600	50RB#0	22.24	PASS
Band5	10MHz	16QAM	20600	50RB#0	21.27	PASS

FDD-LTE Band 12:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	22.58	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	21.75	PASS
Band12	1.4MHz	QPSK	23017	1RB#2	22.78	PASS
Band12	1.4MHz	16QAM	23017	1RB#2	21.94	PASS
Band12	1.4MHz	QPSK	23017	1RB#5	22.60	PASS
Band12	1.4MHz	16QAM	23017	1RB#5	21.76	PASS
Band12	1.4MHz	QPSK	23017	3RB#0	22.70	PASS
Band12	1.4MHz	16QAM	23017	3RB#0	21.57	PASS
Band12	1.4MHz	QPSK	23017	3RB#1	22.68	PASS
Band12	1.4MHz	16QAM	23017	3RB#1	21.54	PASS
Band12	1.4MHz	QPSK	23017	3RB#3	22.75	PASS
Band12	1.4MHz	16QAM	23017	3RB#3	21.64	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	21.67	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	20.78	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	22.72	PASS
Band12	1.4MHz	16QAM	23095	1RB#0	21.90	PASS
Band12	1.4MHz	QPSK	23095	1RB#2	22.82	PASS
Band12	1.4MHz	16QAM	23095	1RB#2	22.02	PASS
Band12	1.4MHz	QPSK	23095	1RB#5	22.66	PASS
Band12	1.4MHz	16QAM	23095	1RB#5	21.83	PASS
Band12	1.4MHz	QPSK	23095	3RB#0	22.81	PASS
Band12	1.4MHz	16QAM	23095	3RB#0	21.74	PASS
Band12	1.4MHz	QPSK	23095	3RB#1	22.85	PASS
Band12	1.4MHz	16QAM	23095	3RB#1	21.74	PASS
Band12	1.4MHz	QPSK	23095	3RB#3	22.88	PASS
Band12	1.4MHz	16QAM	23095	3RB#3	21.76	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	21.82	PASS

Band12	1.4MHz	16QAM	23095	6RB#0	20.90	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	22.68	PASS
Band12	1.4MHz	16QAM	23173	1RB#0	21.86	PASS
Band12	1.4MHz	QPSK	23173	1RB#2	22.76	PASS
Band12	1.4MHz	16QAM	23173	1RB#2	22.01	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	22.60	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	21.73	PASS
Band12	1.4MHz	QPSK	23173	3RB#0	22.76	PASS
Band12	1.4MHz	16QAM	23173	3RB#0	21.70	PASS
Band12	1.4MHz	QPSK	23173	3RB#1	22.77	PASS
Band12	1.4MHz	16QAM	23173	3RB#1	21.69	PASS
Band12	1.4MHz	QPSK	23173	3RB#3	22.78	PASS
Band12	1.4MHz	16QAM	23173	3RB#3	21.65	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	21.67	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	20.63	PASS
Band12	3MHz	QPSK	23025	1RB#0	22.65	PASS
Band12	3MHz	16QAM	23025	1RB#0	21.88	PASS
Band12	3MHz	QPSK	23025	1RB#8	22.73	PASS
Band12	3MHz	16QAM	23025	1RB#8	21.92	PASS
Band12	3MHz	QPSK	23025	1RB#14	22.70	PASS
Band12	3MHz	16QAM	23025	1RB#14	21.90	PASS
Band12	3MHz	QPSK	23025	8RB#0	21.64	PASS
Band12	3MHz	16QAM	23025	8RB#0	20.82	PASS
Band12	3MHz	QPSK	23025	8RB#4	21.66	PASS
Band12	3MHz	16QAM	23025	8RB#4	20.79	PASS
Band12	3MHz	QPSK	23025	8RB#7	21.78	PASS
Band12	3MHz	16QAM	23025	8RB#7	20.86	PASS
Band12	3MHz	QPSK	23025	15RB#0	21.72	PASS
Band12	3MHz	16QAM	23025	15RB#0	20.79	PASS
Band12	3MHz	QPSK	23095	1RB#0	22.77	PASS
Band12	3MHz	16QAM	23095	1RB#0	21.95	PASS
Band12	3MHz	QPSK	23095	1RB#8	22.73	PASS
Band12	3MHz	16QAM	23095	1RB#8	21.87	PASS
Band12	3MHz	QPSK	23095	1RB#14	22.71	PASS
Band12	3MHz	16QAM	23095	1RB#14	21.91	PASS
Band12	3MHz	QPSK	23095	8RB#0	21.71	PASS
Band12	3MHz	16QAM	23095	8RB#0	20.82	PASS
Band12	3MHz	QPSK	23095	8RB#4	21.76	PASS
Band12	3MHz	16QAM	23095	8RB#4	20.80	PASS
Band12	3MHz	QPSK	23095	8RB#7	21.72	PASS
Band12	3MHz	16QAM	23095	8RB#7	20.80	PASS
Band12	3MHz	QPSK	23095	15RB#0	21.78	PASS

Band12	3MHz	16QAM	23095	15RB#0	20.76	PASS
Band12	3MHz	QPSK	23165	1RB#0	22.76	PASS
Band12	3MHz	16QAM	23165	1RB#0	21.62	PASS
Band12	3MHz	QPSK	23165	1RB#8	22.78	PASS
Band12	3MHz	16QAM	23165	1RB#8	21.70	PASS
Band12	3MHz	QPSK	23165	1RB#14	22.69	PASS
Band12	3MHz	16QAM	23165	1RB#14	21.63	PASS
Band12	3MHz	QPSK	23165	8RB#0	21.77	PASS
Band12	3MHz	16QAM	23165	8RB#0	20.83	PASS
Band12	3MHz	QPSK	23165	8RB#4	21.76	PASS
Band12	3MHz	16QAM	23165	8RB#4	20.77	PASS
Band12	3MHz	QPSK	23165	8RB#7	21.75	PASS
Band12	3MHz	16QAM	23165	8RB#7	20.79	PASS
Band12	3MHz	QPSK	23165	15RB#0	21.72	PASS
Band12	3MHz	16QAM	23165	15RB#0	20.65	PASS
Band12	5MHz	QPSK	23035	1RB#0	22.67	PASS
Band12	5MHz	16QAM	23035	1RB#0	21.72	PASS
Band12	5MHz	QPSK	23035	1RB#12	22.80	PASS
Band12	5MHz	16QAM	23035	1RB#12	21.81	PASS
Band12	5MHz	QPSK	23035	1RB#24	22.75	PASS
Band12	5MHz	16QAM	23035	1RB#24	21.77	PASS
Band12	5MHz	QPSK	23035	12RB#0	21.60	PASS
Band12	5MHz	16QAM	23035	12RB#0	20.63	PASS
Band12	5MHz	QPSK	23035	12RB#6	21.66	PASS
Band12	5MHz	16QAM	23035	12RB#6	20.65	PASS
Band12	5MHz	QPSK	23035	12RB#13	21.78	PASS
Band12	5MHz	16QAM	23035	12RB#13	20.81	PASS
Band12	5MHz	QPSK	23035	25RB#0	21.73	PASS
Band12	5MHz	16QAM	23035	25RB#0	20.77	PASS
Band12	5MHz	QPSK	23095	1RB#0	22.69	PASS
Band12	5MHz	16QAM	23095	1RB#0	21.92	PASS
Band12	5MHz	QPSK	23095	1RB#12	22.80	PASS
Band12	5MHz	16QAM	23095	1RB#12	22.06	PASS
Band12	5MHz	QPSK	23095	1RB#24	22.68	PASS
Band12	5MHz	16QAM	23095	1RB#24	21.93	PASS
Band12	5MHz	QPSK	23095	12RB#0	21.75	PASS
Band12	5MHz	16QAM	23095	12RB#0	20.88	PASS
Band12	5MHz	QPSK	23095	12RB#6	21.78	PASS
Band12	5MHz	16QAM	23095	12RB#6	20.92	PASS
Band12	5MHz	QPSK	23095	12RB#13	21.79	PASS
Band12	5MHz	16QAM	23095	12RB#13	20.84	PASS
Band12	5MHz	QPSK	23095	25RB#0	21.79	PASS

Band12	5MHz	16QAM	23095	25RB#0	20.83	PASS
Band12	5MHz	QPSK	23155	1RB#0	22.71	PASS
Band12	5MHz	16QAM	23155	1RB#0	21.76	PASS
Band12	5MHz	QPSK	23155	1RB#12	22.86	PASS
Band12	5MHz	16QAM	23155	1RB#12	21.87	PASS
Band12	5MHz	QPSK	23155	1RB#24	22.68	PASS
Band12	5MHz	16QAM	23155	1RB#24	21.70	PASS
Band12	5MHz	QPSK	23155	12RB#0	21.72	PASS
Band12	5MHz	16QAM	23155	12RB#0	20.81	PASS
Band12	5MHz	QPSK	23155	12RB#6	21.72	PASS
Band12	5MHz	16QAM	23155	12RB#6	20.74	PASS
Band12	5MHz	QPSK	23155	12RB#13	21.69	PASS
Band12	5MHz	16QAM	23155	12RB#13	20.77	PASS
Band12	5MHz	QPSK	23155	25RB#0	21.70	PASS
Band12	5MHz	16QAM	23155	25RB#0	20.82	PASS
Band12	10MHz	QPSK	23060	1RB#0	22.68	PASS
Band12	10MHz	16QAM	23060	1RB#0	21.87	PASS
Band12	10MHz	QPSK	23060	1RB#24	22.90	PASS
Band12	10MHz	16QAM	23060	1RB#24	22.03	PASS
Band12	10MHz	QPSK	23060	1RB#49	22.73	PASS
Band12	10MHz	16QAM	23060	1RB#49	21.98	PASS
Band12	10MHz	QPSK	23060	25RB#0	21.72	PASS
Band12	10MHz	16QAM	23060	25RB#0	20.77	PASS
Band12	10MHz	QPSK	23060	25RB#12	21.70	PASS
Band12	10MHz	16QAM	23060	25RB#12	20.81	PASS
Band12	10MHz	QPSK	23060	25RB#25	21.81	PASS
Band12	10MHz	16QAM	23060	25RB#25	20.84	PASS
Band12	10MHz	QPSK	23060	50RB#0	21.76	PASS
Band12	10MHz	16QAM	23060	50RB#0	20.77	PASS
Band12	10MHz	QPSK	23095	1RB#0	22.72	PASS
Band12	10MHz	16QAM	23095	1RB#0	21.93	PASS
Band12	10MHz	QPSK	23095	1RB#24	22.86	PASS
Band12	10MHz	16QAM	23095	1RB#24	22.07	PASS
Band12	10MHz	QPSK	23095	1RB#49	22.68	PASS
Band12	10MHz	16QAM	23095	1RB#49	21.88	PASS
Band12	10MHz	QPSK	23095	25RB#0	21.92	PASS
Band12	10MHz	16QAM	23095	25RB#0	21.00	PASS
Band12	10MHz	QPSK	23095	25RB#12	21.94	PASS
Band12	10MHz	16QAM	23095	25RB#12	21.04	PASS
Band12	10MHz	QPSK	23095	25RB#25	21.89	PASS
Band12	10MHz	16QAM	23095	25RB#25	21.00	PASS
Band12	10MHz	QPSK	23095	50RB#0	21.91	PASS

Band12	10MHz	16QAM	23095	50RB#0	20.98	PASS
Band12	10MHz	QPSK	23130	1RB#0	22.87	PASS
Band12	10MHz	16QAM	23130	1RB#0	21.73	PASS
Band12	10MHz	QPSK	23130	1RB#24	22.88	PASS
Band12	10MHz	16QAM	23130	1RB#24	21.81	PASS
Band12	10MHz	QPSK	23130	1RB#49	22.69	PASS
Band12	10MHz	16QAM	23130	1RB#49	21.59	PASS
Band12	10MHz	QPSK	23130	25RB#0	21.87	PASS
Band12	10MHz	16QAM	23130	25RB#0	20.96	PASS
Band12	10MHz	QPSK	23130	25RB#12	21.89	PASS
Band12	10MHz	16QAM	23130	25RB#12	20.98	PASS
Band12	10MHz	QPSK	23130	25RB#25	21.82	PASS
Band12	10MHz	16QAM	23130	25RB#25	20.91	PASS
Band12	10MHz	QPSK	23130	50RB#0	21.82	PASS
Band12	10MHz	16QAM	23130	50RB#0	20.89	PASS

FDD-LTE Band 66:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band66	1.4MHz	QPSK	131979	1RB#0	22.69	PASS
Band66	1.4MHz	16QAM	131979	1RB#0	21.84	PASS
Band66	1.4MHz	QPSK	131979	1RB#2	22.78	PASS
Band66	1.4MHz	16QAM	131979	1RB#2	22.00	PASS
Band66	1.4MHz	QPSK	131979	1RB#5	22.71	PASS
Band66	1.4MHz	16QAM	131979	1RB#5	21.83	PASS
Band66	1.4MHz	QPSK	131979	3RB#0	22.75	PASS
Band66	1.4MHz	16QAM	131979	3RB#0	21.70	PASS
Band66	1.4MHz	QPSK	131979	3RB#1	22.78	PASS
Band66	1.4MHz	16QAM	131979	3RB#1	21.68	PASS
Band66	1.4MHz	QPSK	131979	3RB#3	22.79	PASS
Band66	1.4MHz	16QAM	131979	3RB#3	21.67	PASS
Band66	1.4MHz	QPSK	131979	6RB#0	21.75	PASS
Band66	1.4MHz	16QAM	131979	6RB#0	20.77	PASS
Band66	1.4MHz	QPSK	132322	1RB#0	22.86	PASS
Band66	1.4MHz	16QAM	132322	1RB#0	21.97	PASS
Band66	1.4MHz	QPSK	132322	1RB#2	22.94	PASS
Band66	1.4MHz	16QAM	132322	1RB#2	22.07	PASS
Band66	1.4MHz	QPSK	132322	1RB#5	22.87	PASS
Band66	1.4MHz	16QAM	132322	1RB#5	21.95	PASS
Band66	1.4MHz	QPSK	132322	3RB#0	22.89	PASS
Band66	1.4MHz	16QAM	132322	3RB#0	21.81	PASS
Band66	1.4MHz	QPSK	132322	3RB#1	22.89	PASS

Band66	1.4MHz	16QAM	132322	3RB#1	21.82	PASS
Band66	1.4MHz	QPSK	132322	3RB#3	22.92	PASS
Band66	1.4MHz	16QAM	132322	3RB#3	21.79	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	21.95	PASS
Band66	1.4MHz	16QAM	132322	6RB#0	20.96	PASS
Band66	1.4MHz	QPSK	132665	1RB#0	23.10	PASS
Band66	1.4MHz	16QAM	132665	1RB#0	22.19	PASS
Band66	1.4MHz	QPSK	132665	1RB#2	23.16	PASS
Band66	1.4MHz	16QAM	132665	1RB#2	22.36	PASS
Band66	1.4MHz	QPSK	132665	1RB#5	23.07	PASS
Band66	1.4MHz	16QAM	132665	1RB#5	22.17	PASS
Band66	1.4MHz	QPSK	132665	3RB#0	23.13	PASS
Band66	1.4MHz	16QAM	132665	3RB#0	22.05	PASS
Band66	1.4MHz	QPSK	132665	3RB#1	23.16	PASS
Band66	1.4MHz	16QAM	132665	3RB#1	22.05	PASS
Band66	1.4MHz	QPSK	132665	3RB#3	23.16	PASS
Band66	1.4MHz	16QAM	132665	3RB#3	22.00	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	22.19	PASS
Band66	1.4MHz	16QAM	132665	6RB#0	21.21	PASS
Band66	3MHz	QPSK	131987	1RB#0	22.73	PASS
Band66	3MHz	16QAM	131987	1RB#0	21.98	PASS
Band66	3MHz	QPSK	131987	1RB#8	22.76	PASS
Band66	3MHz	16QAM	131987	1RB#8	21.90	PASS
Band66	3MHz	QPSK	131987	1RB#14	22.77	PASS
Band66	3MHz	16QAM	131987	1RB#14	21.99	PASS
Band66	3MHz	QPSK	131987	8RB#0	21.80	PASS
Band66	3MHz	16QAM	131987	8RB#0	20.84	PASS
Band66	3MHz	QPSK	131987	8RB#4	21.80	PASS
Band66	3MHz	16QAM	131987	8RB#4	20.84	PASS
Band66	3MHz	QPSK	131987	8RB#7	21.80	PASS
Band66	3MHz	16QAM	131987	8RB#7	20.81	PASS
Band66	3MHz	QPSK	131987	15RB#0	21.73	PASS
Band66	3MHz	16QAM	131987	15RB#0	20.75	PASS
Band66	3MHz	QPSK	132322	1RB#0	22.90	PASS
Band66	3MHz	16QAM	132322	1RB#0	22.09	PASS
Band66	3MHz	QPSK	132322	1RB#8	22.91	PASS
Band66	3MHz	16QAM	132322	1RB#8	22.08	PASS
Band66	3MHz	QPSK	132322	1RB#14	22.94	PASS
Band66	3MHz	16QAM	132322	1RB#14	22.06	PASS
Band66	3MHz	QPSK	132322	8RB#0	21.97	PASS
Band66	3MHz	16QAM	132322	8RB#0	20.97	PASS
Band66	3MHz	QPSK	132322	8RB#4	21.98	PASS

Band66	3MHz	16QAM	132322	8RB#4	20.99	PASS
Band66	3MHz	QPSK	132322	8RB#7	22.00	PASS
Band66	3MHz	16QAM	132322	8RB#7	20.99	PASS
Band66	3MHz	QPSK	132322	15RB#0	21.93	PASS
Band66	3MHz	16QAM	132322	15RB#0	20.94	PASS
Band66	3MHz	QPSK	132657	1RB#0	23.11	PASS
Band66	3MHz	16QAM	132657	1RB#0	22.28	PASS
Band66	3MHz	QPSK	132657	1RB#8	23.13	PASS
Band66	3MHz	16QAM	132657	1RB#8	22.30	PASS
Band66	3MHz	QPSK	132657	1RB#14	23.12	PASS
Band66	3MHz	16QAM	132657	1RB#14	22.26	PASS
Band66	3MHz	QPSK	132657	8RB#0	22.25	PASS
Band66	3MHz	16QAM	132657	8RB#0	21.25	PASS
Band66	3MHz	QPSK	132657	8RB#4	22.22	PASS
Band66	3MHz	16QAM	132657	8RB#4	21.23	PASS
Band66	3MHz	QPSK	132657	8RB#7	22.24	PASS
Band66	3MHz	16QAM	132657	8RB#7	21.25	PASS
Band66	3MHz	QPSK	132657	15RB#0	22.19	PASS
Band66	3MHz	16QAM	132657	15RB#0	21.19	PASS
Band66	5MHz	QPSK	131997	1RB#0	22.69	PASS
Band66	5MHz	16QAM	131997	1RB#0	21.75	PASS
Band66	5MHz	QPSK	131997	1RB#12	22.88	PASS
Band66	5MHz	16QAM	131997	1RB#12	21.89	PASS
Band66	5MHz	QPSK	131997	1RB#24	22.72	PASS
Band66	5MHz	16QAM	131997	1RB#24	21.79	PASS
Band66	5MHz	QPSK	131997	12RB#0	21.82	PASS
Band66	5MHz	16QAM	131997	12RB#0	20.79	PASS
Band66	5MHz	QPSK	131997	12RB#6	21.78	PASS
Band66	5MHz	16QAM	131997	12RB#6	20.76	PASS
Band66	5MHz	QPSK	131997	12RB#13	21.84	PASS
Band66	5MHz	16QAM	131997	12RB#13	20.78	PASS
Band66	5MHz	QPSK	131997	25RB#0	21.82	PASS
Band66	5MHz	16QAM	131997	25RB#0	20.81	PASS
Band66	5MHz	QPSK	132322	1RB#0	22.86	PASS
Band66	5MHz	16QAM	132322	1RB#0	21.90	PASS
Band66	5MHz	QPSK	132322	1RB#12	22.98	PASS
Band66	5MHz	16QAM	132322	1RB#12	22.03	PASS
Band66	5MHz	QPSK	132322	1RB#24	22.89	PASS
Band66	5MHz	16QAM	132322	1RB#24	21.91	PASS
Band66	5MHz	QPSK	132322	12RB#0	21.93	PASS
Band66	5MHz	16QAM	132322	12RB#0	20.86	PASS
Band66	5MHz	QPSK	132322	12RB#6	21.92	PASS

Band66	5MHz	16QAM	132322	12RB#6	20.89	PASS
Band66	5MHz	QPSK	132322	12RB#13	21.96	PASS
Band66	5MHz	16QAM	132322	12RB#13	20.95	PASS
Band66	5MHz	QPSK	132322	25RB#0	21.95	PASS
Band66	5MHz	16QAM	132322	25RB#0	20.97	PASS
Band66	5MHz	QPSK	132647	1RB#0	23.08	PASS
Band66	5MHz	16QAM	132647	1RB#0	22.09	PASS
Band66	5MHz	QPSK	132647	1RB#12	23.22	PASS
Band66	5MHz	16QAM	132647	1RB#12	22.20	PASS
Band66	5MHz	QPSK	132647	1RB#24	23.11	PASS
Band66	5MHz	16QAM	132647	1RB#24	22.16	PASS
Band66	5MHz	QPSK	132647	12RB#0	22.21	PASS
Band66	5MHz	16QAM	132647	12RB#0	21.17	PASS
Band66	5MHz	QPSK	132647	12RB#6	22.18	PASS
Band66	5MHz	16QAM	132647	12RB#6	21.13	PASS
Band66	5MHz	QPSK	132647	12RB#13	22.19	PASS
Band66	5MHz	16QAM	132647	12RB#13	21.15	PASS
Band66	5MHz	QPSK	132647	25RB#0	22.15	PASS
Band66	5MHz	16QAM	132647	25RB#0	21.21	PASS
Band66	10MHz	QPSK	132022	1RB#0	22.77	PASS
Band66	10MHz	16QAM	132022	1RB#0	21.96	PASS
Band66	10MHz	QPSK	132022	1RB#24	22.77	PASS
Band66	10MHz	16QAM	132022	1RB#24	22.15	PASS
Band66	10MHz	QPSK	132022	1RB#49	22.80	PASS
Band66	10MHz	16QAM	132022	1RB#49	21.95	PASS
Band66	10MHz	QPSK	132022	25RB#0	21.84	PASS
Band66	10MHz	16QAM	132022	25RB#0	20.78	PASS
Band66	10MHz	QPSK	132022	25RB#12	21.79	PASS
Band66	10MHz	16QAM	132022	25RB#12	20.85	PASS
Band66	10MHz	QPSK	132022	25RB#25	21.85	PASS
Band66	10MHz	16QAM	132022	25RB#25	20.83	PASS
Band66	10MHz	QPSK	132022	50RB#0	21.84	PASS
Band66	10MHz	16QAM	132022	50RB#0	20.73	PASS
Band66	10MHz	QPSK	132322	1RB#0	22.86	PASS
Band66	10MHz	16QAM	132322	1RB#0	22.05	PASS
Band66	10MHz	QPSK	132322	1RB#24	22.88	PASS
Band66	10MHz	16QAM	132322	1RB#24	22.13	PASS
Band66	10MHz	QPSK	132322	1RB#49	22.98	PASS
Band66	10MHz	16QAM	132322	1RB#49	22.13	PASS
Band66	10MHz	QPSK	132322	25RB#0	21.96	PASS
Band66	10MHz	16QAM	132322	25RB#0	20.91	PASS
Band66	10MHz	QPSK	132322	25RB#12	21.93	PASS

Band66	10MHz	16QAM	132322	25RB#12	20.95	PASS
Band66	10MHz	QPSK	132322	25RB#25	21.97	PASS
Band66	10MHz	16QAM	132322	25RB#25	21.00	PASS
Band66	10MHz	QPSK	132322	50RB#0	22.00	PASS
Band66	10MHz	16QAM	132322	50RB#0	20.97	PASS
Band66	10MHz	QPSK	132622	1RB#0	23.01	PASS
Band66	10MHz	16QAM	132622	1RB#0	22.22	PASS
Band66	10MHz	QPSK	132622	1RB#24	23.23	PASS
Band66	10MHz	16QAM	132622	1RB#24	22.33	PASS
Band66	10MHz	QPSK	132622	1RB#49	23.07	PASS
Band66	10MHz	16QAM	132622	1RB#49	22.31	PASS
Band66	10MHz	QPSK	132622	25RB#0	22.11	PASS
Band66	10MHz	16QAM	132622	25RB#0	21.12	PASS
Band66	10MHz	QPSK	132622	25RB#12	22.11	PASS
Band66	10MHz	16QAM	132622	25RB#12	21.12	PASS
Band66	10MHz	QPSK	132622	25RB#25	22.14	PASS
Band66	10MHz	16QAM	132622	25RB#25	21.14	PASS
Band66	10MHz	QPSK	132622	50RB#0	22.13	PASS
Band66	10MHz	16QAM	132622	50RB#0	21.12	PASS
Band66	15MHz	QPSK	132047	1RB#0	22.73	PASS
Band66	15MHz	16QAM	132047	1RB#0	21.89	PASS
Band66	15MHz	QPSK	132047	1RB#38	22.83	PASS
Band66	15MHz	16QAM	132047	1RB#38	22.02	PASS
Band66	15MHz	QPSK	132047	1RB#74	22.68	PASS
Band66	15MHz	16QAM	132047	1RB#74	21.89	PASS
Band66	15MHz	QPSK	132047	38RB#0	21.87	PASS
Band66	15MHz	16QAM	132047	38RB#0	21.85	PASS
Band66	15MHz	QPSK	132047	38RB#18	21.90	PASS
Band66	15MHz	16QAM	132047	38RB#18	21.92	PASS
Band66	15MHz	QPSK	132047	38RB#37	21.87	PASS
Band66	15MHz	16QAM	132047	38RB#37	21.84	PASS
Band66	15MHz	QPSK	132047	75RB#0	21.89	PASS
Band66	15MHz	16QAM	132047	75RB#0	20.83	PASS
Band66	15MHz	QPSK	132322	1RB#0	22.81	PASS
Band66	15MHz	16QAM	132322	1RB#0	22.01	PASS
Band66	15MHz	QPSK	132322	1RB#38	22.87	PASS
Band66	15MHz	16QAM	132322	1RB#38	22.10	PASS
Band66	15MHz	QPSK	132322	1RB#74	22.92	PASS
Band66	15MHz	16QAM	132322	1RB#74	22.07	PASS
Band66	15MHz	QPSK	132322	38RB#0	22.02	PASS
Band66	15MHz	16QAM	132322	38RB#0	22.00	PASS
Band66	15MHz	QPSK	132322	38RB#18	22.01	PASS

Band66	15MHz	16QAM	132322	38RB#18	22.02	PASS
Band66	15MHz	QPSK	132322	38RB#37	22.03	PASS
Band66	15MHz	16QAM	132322	38RB#37	22.04	PASS
Band66	15MHz	QPSK	132322	75RB#0	22.04	PASS
Band66	15MHz	16QAM	132322	75RB#0	20.97	PASS
Band66	15MHz	QPSK	132597	1RB#0	22.97	PASS
Band66	15MHz	16QAM	132597	1RB#0	22.23	PASS
Band66	15MHz	QPSK	132597	1RB#38	23.03	PASS
Band66	15MHz	16QAM	132597	1RB#38	22.21	PASS
Band66	15MHz	QPSK	132597	1RB#74	22.99	PASS
Band66	15MHz	16QAM	132597	1RB#74	22.21	PASS
Band66	15MHz	QPSK	132597	38RB#0	22.15	PASS
Band66	15MHz	16QAM	132597	38RB#0	22.15	PASS
Band66	15MHz	QPSK	132597	38RB#18	22.16	PASS
Band66	15MHz	16QAM	132597	38RB#18	22.16	PASS
Band66	15MHz	QPSK	132597	38RB#37	22.14	PASS
Band66	15MHz	16QAM	132597	38RB#37	22.17	PASS
Band66	15MHz	QPSK	132597	75RB#0	22.15	PASS
Band66	15MHz	16QAM	132597	75RB#0	21.08	PASS
Band66	20MHz	QPSK	132072	1RB#0	22.55	PASS
Band66	20MHz	16QAM	132072	1RB#0	21.60	PASS
Band66	20MHz	QPSK	132072	1RB#49	22.80	PASS
Band66	20MHz	16QAM	132072	1RB#49	22.07	PASS
Band66	20MHz	QPSK	132072	1RB#99	22.50	PASS
Band66	20MHz	16QAM	132072	1RB#99	21.51	PASS
Band66	20MHz	QPSK	132072	50RB#0	21.79	PASS
Band66	20MHz	16QAM	132072	50RB#0	20.75	PASS
Band66	20MHz	QPSK	132072	50RB#25	21.75	PASS
Band66	20MHz	16QAM	132072	50RB#25	20.76	PASS
Band66	20MHz	QPSK	132072	50RB#50	21.75	PASS
Band66	20MHz	16QAM	132072	50RB#50	20.71	PASS
Band66	20MHz	QPSK	132072	100RB#0	21.71	PASS
Band66	20MHz	16QAM	132072	100RB#0	20.69	PASS
Band66	20MHz	QPSK	132322	1RB#0	22.72	PASS
Band66	20MHz	16QAM	132322	1RB#0	21.78	PASS
Band66	20MHz	QPSK	132322	1RB#49	23.14	PASS
Band66	20MHz	16QAM	132322	1RB#49	22.11	PASS
Band66	20MHz	QPSK	132322	1RB#99	22.94	PASS
Band66	20MHz	16QAM	132322	1RB#99	21.95	PASS
Band66	20MHz	QPSK	132322	50RB#0	21.93	PASS
Band66	20MHz	16QAM	132322	50RB#0	20.90	PASS
Band66	20MHz	QPSK	132322	50RB#25	21.89	PASS

Band66	20MHz	16QAM	132322	50RB#25	20.90	PASS
Band66	20MHz	QPSK	132322	50RB#50	22.03	PASS
Band66	20MHz	16QAM	132322	50RB#50	21.02	PASS
Band66	20MHz	QPSK	132322	100RB#0	22.02	PASS
Band66	20MHz	16QAM	132322	100RB#0	20.99	PASS
Band66	20MHz	QPSK	132572	1RB#0	23.02	PASS
Band66	20MHz	16QAM	132572	1RB#0	22.05	PASS
Band66	20MHz	QPSK	132572	1RB#49	23.31	PASS
Band66	20MHz	16QAM	132572	1RB#49	22.27	PASS
Band66	20MHz	QPSK	132572	1RB#99	22.95	PASS
Band66	20MHz	16QAM	132572	1RB#99	21.99	PASS
Band66	20MHz	QPSK	132572	50RB#0	22.20	PASS
Band66	20MHz	16QAM	132572	50RB#0	21.16	PASS
Band66	20MHz	QPSK	132572	50RB#25	22.17	PASS
Band66	20MHz	16QAM	132572	50RB#25	21.14	PASS
Band66	20MHz	QPSK	132572	50RB#50	22.12	PASS
Band66	20MHz	16QAM	132572	50RB#50	21.08	PASS
Band66	20MHz	QPSK	132572	100RB#0	22.12	PASS
Band66	20MHz	16QAM	132572	100RB#0	21.12	PASS

FDD-LTE Band 71:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band71	5MHz	QPSK	133147	1RB#0	22.46	PASS
Band71	5MHz	16QAM	133147	1RB#0	21.44	PASS
Band71	5MHz	QPSK	133147	1RB#12	22.62	PASS
Band71	5MHz	16QAM	133147	1RB#12	21.64	PASS
Band71	5MHz	QPSK	133147	1RB#24	22.46	PASS
Band71	5MHz	16QAM	133147	1RB#24	21.50	PASS
Band71	5MHz	QPSK	133147	12RB#0	21.50	PASS
Band71	5MHz	16QAM	133147	12RB#0	20.45	PASS
Band71	5MHz	QPSK	133147	12RB#6	21.46	PASS
Band71	5MHz	16QAM	133147	12RB#6	20.45	PASS
Band71	5MHz	QPSK	133147	12RB#13	21.54	PASS
Band71	5MHz	16QAM	133147	12RB#13	20.53	PASS
Band71	5MHz	QPSK	133147	25RB#0	21.53	PASS
Band71	5MHz	16QAM	133147	25RB#0	20.55	PASS
Band71	5MHz	QPSK	133297	1RB#0	22.43	PASS
Band71	5MHz	16QAM	133297	1RB#0	21.43	PASS
Band71	5MHz	QPSK	133297	1RB#12	22.56	PASS
Band71	5MHz	16QAM	133297	1RB#12	21.54	PASS
Band71	5MHz	QPSK	133297	1RB#24	22.42	PASS

Band71	5MHz	16QAM	133297	1RB#24	21.42	PASS
Band71	5MHz	QPSK	133297	12RB#0	21.47	PASS
Band71	5MHz	16QAM	133297	12RB#0	20.50	PASS
Band71	5MHz	QPSK	133297	12RB#6	21.44	PASS
Band71	5MHz	16QAM	133297	12RB#6	20.50	PASS
Band71	5MHz	QPSK	133297	12RB#13	21.47	PASS
Band71	5MHz	16QAM	133297	12RB#13	20.49	PASS
Band71	5MHz	QPSK	133297	25RB#0	21.51	PASS
Band71	5MHz	16QAM	133297	25RB#0	20.53	PASS
Band71	5MHz	QPSK	133447	1RB#0	22.39	PASS
Band71	5MHz	16QAM	133447	1RB#0	21.61	PASS
Band71	5MHz	QPSK	133447	1RB#12	22.52	PASS
Band71	5MHz	16QAM	133447	1RB#12	21.70	PASS
Band71	5MHz	QPSK	133447	1RB#24	22.48	PASS
Band71	5MHz	16QAM	133447	1RB#24	21.65	PASS
Band71	5MHz	QPSK	133447	12RB#0	21.47	PASS
Band71	5MHz	16QAM	133447	12RB#0	20.49	PASS
Band71	5MHz	QPSK	133447	12RB#6	21.46	PASS
Band71	5MHz	16QAM	133447	12RB#6	20.46	PASS
Band71	5MHz	QPSK	133447	12RB#13	21.45	PASS
Band71	5MHz	16QAM	133447	12RB#13	20.48	PASS
Band71	5MHz	QPSK	133447	25RB#0	21.47	PASS
Band71	5MHz	16QAM	133447	25RB#0	20.45	PASS
Band71	10MHz	QPSK	133172	1RB#0	22.99	PASS
Band71	10MHz	16QAM	133172	1RB#0	21.89	PASS
Band71	10MHz	QPSK	133172	1RB#24	22.60	PASS
Band71	10MHz	16QAM	133172	1RB#24	21.78	PASS
Band71	10MHz	QPSK	133172	1RB#49	22.49	PASS
Band71	10MHz	16QAM	133172	1RB#49	21.66	PASS
Band71	10MHz	QPSK	133172	25RB#0	21.45	PASS
Band71	10MHz	16QAM	133172	25RB#0	20.51	PASS
Band71	10MHz	QPSK	133172	25RB#12	21.49	PASS
Band71	10MHz	16QAM	133172	25RB#12	20.47	PASS
Band71	10MHz	QPSK	133172	25RB#25	21.62	PASS
Band71	10MHz	16QAM	133172	25RB#25	20.64	PASS
Band71	10MHz	QPSK	133172	50RB#0	21.54	PASS
Band71	10MHz	16QAM	133172	50RB#0	20.57	PASS
Band71	10MHz	QPSK	133297	1RB#0	22.42	PASS
Band71	10MHz	16QAM	133297	1RB#0	21.60	PASS
Band71	10MHz	QPSK	133297	1RB#24	22.53	PASS
Band71	10MHz	16QAM	133297	1RB#24	21.75	PASS
Band71	10MHz	QPSK	133297	1RB#49	22.37	PASS

Band71	10MHz	16QAM	133297	1RB#49	21.57	PASS
Band71	10MHz	QPSK	133297	25RB#0	21.59	PASS
Band71	10MHz	16QAM	133297	25RB#0	20.58	PASS
Band71	10MHz	QPSK	133297	25RB#12	21.55	PASS
Band71	10MHz	16QAM	133297	25RB#12	20.57	PASS
Band71	10MHz	QPSK	133297	25RB#25	21.53	PASS
Band71	10MHz	16QAM	133297	25RB#25	20.58	PASS
Band71	10MHz	QPSK	133297	50RB#0	21.56	PASS
Band71	10MHz	16QAM	133297	50RB#0	20.56	PASS
Band71	10MHz	QPSK	133422	1RB#0	22.40	PASS
Band71	10MHz	16QAM	133422	1RB#0	21.58	PASS
Band71	10MHz	QPSK	133422	1RB#24	22.57	PASS
Band71	10MHz	16QAM	133422	1RB#24	21.69	PASS
Band71	10MHz	QPSK	133422	1RB#49	22.44	PASS
Band71	10MHz	16QAM	133422	1RB#49	21.61	PASS
Band71	10MHz	QPSK	133422	25RB#0	21.54	PASS
Band71	10MHz	16QAM	133422	25RB#0	20.55	PASS
Band71	10MHz	QPSK	133422	25RB#12	21.53	PASS
Band71	10MHz	16QAM	133422	25RB#12	20.56	PASS
Band71	10MHz	QPSK	133422	25RB#25	21.48	PASS
Band71	10MHz	16QAM	133422	25RB#25	20.52	PASS
Band71	10MHz	QPSK	133422	50RB#0	21.45	PASS
Band71	10MHz	16QAM	133422	50RB#0	20.51	PASS
Band71	15MHz	QPSK	133197	1RB#0	22.97	PASS
Band71	15MHz	16QAM	133197	1RB#0	22.10	PASS
Band71	15MHz	QPSK	133197	1RB#38	22.77	PASS
Band71	15MHz	16QAM	133197	1RB#38	21.72	PASS
Band71	15MHz	QPSK	133197	1RB#74	22.39	PASS
Band71	15MHz	16QAM	133197	1RB#74	21.58	PASS
Band71	15MHz	QPSK	133197	38RB#0	21.66	PASS
Band71	15MHz	16QAM	133197	38RB#0	21.62	PASS
Band71	15MHz	QPSK	133197	38RB#18	21.68	PASS
Band71	15MHz	16QAM	133197	38RB#18	21.69	PASS
Band71	15MHz	QPSK	133197	38RB#37	21.58	PASS
Band71	15MHz	16QAM	133197	38RB#37	21.55	PASS
Band71	15MHz	QPSK	133197	75RB#0	21.51	PASS
Band71	15MHz	16QAM	133197	75RB#0	20.51	PASS
Band71	15MHz	QPSK	133297	1RB#0	22.45	PASS
Band71	15MHz	16QAM	133297	1RB#0	21.56	PASS
Band71	15MHz	QPSK	133297	1RB#38	22.49	PASS
Band71	15MHz	16QAM	133297	1RB#38	21.65	PASS
Band71	15MHz	QPSK	133297	1RB#74	22.29	PASS

Band71	15MHz	16QAM	133297	1RB#74	21.51	PASS
Band71	15MHz	QPSK	133297	38RB#0	21.60	PASS
Band71	15MHz	16QAM	133297	38RB#0	21.54	PASS
Band71	15MHz	QPSK	133297	38RB#18	21.66	PASS
Band71	15MHz	16QAM	133297	38RB#18	21.67	PASS
Band71	15MHz	QPSK	133297	38RB#37	21.51	PASS
Band71	15MHz	16QAM	133297	38RB#37	21.49	PASS
Band71	15MHz	QPSK	133297	75RB#0	21.59	PASS
Band71	15MHz	16QAM	133297	75RB#0	20.58	PASS
Band71	15MHz	QPSK	133397	1RB#0	22.38	PASS
Band71	15MHz	16QAM	133397	1RB#0	21.63	PASS
Band71	15MHz	QPSK	133397	1RB#38	22.47	PASS
Band71	15MHz	16QAM	133397	1RB#38	21.77	PASS
Band71	15MHz	QPSK	133397	1RB#74	22.32	PASS
Band71	15MHz	16QAM	133397	1RB#74	21.62	PASS
Band71	15MHz	QPSK	133397	38RB#0	21.61	PASS
Band71	15MHz	16QAM	133397	38RB#0	21.62	PASS
Band71	15MHz	QPSK	133397	38RB#18	21.72	PASS
Band71	15MHz	16QAM	133397	38RB#18	21.71	PASS
Band71	15MHz	QPSK	133397	38RB#37	21.63	PASS
Band71	15MHz	16QAM	133397	38RB#37	21.62	PASS
Band71	15MHz	QPSK	133397	75RB#0	21.47	PASS
Band71	15MHz	16QAM	133397	75RB#0	20.49	PASS
Band71	20MHz	QPSK	133222	1RB#0	23.01	PASS
Band71	20MHz	16QAM	133222	1RB#0	21.68	PASS
Band71	20MHz	QPSK	133222	1RB#49	22.70	PASS
Band71	20MHz	16QAM	133222	1RB#49	21.64	PASS
Band71	20MHz	QPSK	133222	1RB#99	22.36	PASS
Band71	20MHz	16QAM	133222	1RB#99	21.33	PASS
Band71	20MHz	QPSK	133222	50RB#0	21.40	PASS
Band71	20MHz	16QAM	133222	50RB#0	20.44	PASS
Band71	20MHz	QPSK	133222	50RB#25	21.44	PASS
Band71	20MHz	16QAM	133222	50RB#25	20.40	PASS
Band71	20MHz	QPSK	133222	50RB#50	21.48	PASS
Band71	20MHz	16QAM	133222	50RB#50	20.49	PASS
Band71	20MHz	QPSK	133222	100RB#0	21.41	PASS
Band71	20MHz	16QAM	133222	100RB#0	20.40	PASS
Band71	20MHz	QPSK	133322	1RB#0	22.31	PASS
Band71	20MHz	16QAM	133322	1RB#0	21.33	PASS
Band71	20MHz	QPSK	133322	1RB#49	22.61	PASS
Band71	20MHz	16QAM	133322	1RB#49	21.61	PASS
Band71	20MHz	QPSK	133322	1RB#99	22.25	PASS

Band71	20MHz	16QAM	133322	1RB#99	21.25	PASS
Band71	20MHz	QPSK	133322	50RB#0	21.54	PASS
Band71	20MHz	16QAM	133322	50RB#0	20.57	PASS
Band71	20MHz	QPSK	133322	50RB#25	21.57	PASS
Band71	20MHz	16QAM	133322	50RB#25	20.56	PASS
Band71	20MHz	QPSK	133322	50RB#50	21.57	PASS
Band71	20MHz	16QAM	133322	50RB#50	20.55	PASS
Band71	20MHz	QPSK	133322	100RB#0	21.48	PASS
Band71	20MHz	16QAM	133322	100RB#0	20.55	PASS
Band71	20MHz	QPSK	133372	1RB#0	22.31	PASS
Band71	20MHz	16QAM	133372	1RB#0	21.41	PASS
Band71	20MHz	QPSK	133372	1RB#49	22.55	PASS
Band71	20MHz	16QAM	133372	1RB#49	21.68	PASS
Band71	20MHz	QPSK	133372	1RB#99	22.22	PASS
Band71	20MHz	16QAM	133372	1RB#99	21.43	PASS
Band71	20MHz	QPSK	133372	50RB#0	21.31	PASS
Band71	20MHz	16QAM	133372	50RB#0	20.40	PASS
Band71	20MHz	QPSK	133372	50RB#25	21.37	PASS
Band71	20MHz	16QAM	133372	50RB#25	20.38	PASS
Band71	20MHz	QPSK	133372	50RB#50	21.42	PASS
Band71	20MHz	16QAM	133372	50RB#50	20.46	PASS
Band71	20MHz	QPSK	133372	100RB#0	21.35	PASS
Band71	20MHz	16QAM	133372	100RB#0	20.40	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	1Mbps	CH 01	2412	17.61	18.0
		CH 06	2437	17.91	18.0
		CH 11	2462	17.86	18.0
802.11g	54Mbps	CH 01	2412	16.04	16.5
		CH 06	2437	16.16	16.5
		CH 11	2462	16.15	16.5
802.11n (20MHz)	MCS7	CH 01	2412	15.77	16.5
		CH 06	2437	16.05	16.5
		CH 11	2462	16.02	16.5
802.11n (20MHz)	MCS7	CH 03	2422	13.58	14.0
		CH 06	2437	13.48	14.0
		CH 09	2452	13.57	14.0

WLAN(5.2GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 36	5180	9.12	9.5
	CH 40	5200	8.91	9.5
	CH 48	5240	8.80	9.5
802.11n (HT20)	CH 36	5180	9.05	9.5
	CH 40	5200	8.78	9.5
	CH 48	5240	8.62	9.5
802.11n (HT40)	CH 38	5190	8.79	9.5
	CH 46	5230	8.11	9.5
802.11ac (80MHz)	CH 2	5210	8.49	9.5

WLAN(5.3GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 52	5260	8.32	8.5
	CH 56	5280	8.15	8.5
	CH 64	5320	7.25	8.5
802.11n (20MHz)	CH 52	5260	8.20	8.5
	CH 56	5280	8.01	8.5
	CH 64	5320	7.12	8.5
802.11n (40MHz)	CH 54	5270	7.91	8.5
	CH 62	5310	7.21	8.5
802.11ac (80MHz)	CH 58	5290	7.46	8.5

WLAN(5.6GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 100	5500	7.12	7.5
	CH 116	5580	7.20	7.5
	CH 140	5700	7.12	7.5
802.11n (20MHz)	CH 100	5500	6.93	7.5
	CH116	5580	7.22	7.5
	CH 140	5700	7.01	7.5
802.11n (40MHz)	CH 102	5510	7.00	7.5
	CH 110	5550	7.35	7.5
	CH 134	5670	7.02	7.5
802.11ac (80MHz)	CH 106	5530	7.09	7.5
	CH 122	5610	7.16	7.5

WLAN(5.8GHz)				
Test Mode	Channel	Frequency (MHz)	Conducted Power (dBm)	Tune-up power (dBm)
802.11a	CH 149	5745	7.42	8.5
	CH 157	5785	8.11	8.5
	CH 165	5825	8.48	8.5
802.11n (20MHz)	CH 149	5745	7.31	8.5
	CH 157	5785	7.83	8.5
	CH 165	5825	8.40	8.5
802.11n (40MHz)	CH 151	5755	7.35	8.5
	CH 159	5795	8.07	8.5
802.11ac (80MHz)	CH 155	5775	7.47	8.5

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)
		CH00	CH39	CH78	
GFSK	1Mbps	5.25	2.57	7.21	7.5
$\pi/4$ DQPSK	2Mbps	4.47	1.75	7.36	7.5
8DPSK	3Mbps	4.47	1.78	7.33	7.5

Bluetooth - Maximum Average Power					
Test Mode	Data Rate	Channel	Frequency (MHz)	Conducted Power(dBm)	Tune-up power (dBm)
BLE	1Mbps	CH 00	2402	-4.98	-4.0
		CH 19	2440	-4.84	-4.0
		CH 39	2480	-5.64	-4.0
	2bps	CH 00	2402	-6.06	-4.0
		CH 19	2440	-5.88	-4.0
		CH 39	2480	-6.77	-4.0

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	128	824.2	32.32	32.5	1.042	0.199	0.207
	GSM	Right Tilted	128	824.2	32.32	32.5	1.042	0.175	0.182
1.	GSM	Left Cheek	128	824.2	32.32	32.5	1.042	0.202	0.211
	GSM	Left Tilted	128	824.2	32.32	32.5	1.042	0.189	0.197

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_4TX	Right Cheek	128	824.2	28.91	29.0	1.021	0.278	0.284
	GPRS_4TX	Right Tilted	128	824.2	28.91	29.0	1.021	0.264	0.270
2.	GPRS_4TX	Left Cheek	128	824.2	28.91	29.0	1.021	0.296	0.302
	GPRS_4TX	Left Tilted	128	824.2	28.91	29.0	1.021	0.281	0.287

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					
3.	GSM	Right Cheek	512	1850.2	28.21	28.5	1.069	0.362	0.387
	GSM	Right Tilted	512	1850.2	28.21	28.5	1.069	0.355	0.380
	GSM	Left Cheek	512	1850.2	28.21	28.5	1.069	0.187	0.200
	GSM	Left Tilted	512	1850.2	28.21	28.5	1.069	0.162	0.173

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					
4.	GPRS_2TX	Right Cheek	512	1850.2	25.26	25.5	1.057	0.285	0.301
	GPRS_2TX	Right Tilted	512	1850.2	25.26	25.5	1.057	0.251	0.265
	GPRS_2TX	Left Cheek	512	1850.2	25.26	25.5	1.057	0.167	0.176
	GPRS_2TX	Left Tilted	512	1850.2	25.26	25.5	1.057	0.153	0.162

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					
5.	RMC	Right Cheek	9262	1852.4	22.66	23.0	1.081	0.379	0.410
	RMC	Right Tilted	9262	1852.4	22.66	23.0	1.081	0.354	0.383
	RMC	Left Cheek	9262	1852.4	22.66	23.0	1.081	0.194	0.210
	RMC	Left Tilted	9262	1852.4	22.66	23.0	1.081	0.187	0.202

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					
6.	RMC	Right Cheek	1312	1712.4	22.66	23.0	1.081	0.308	0.333
	RMC	Right Tilted	1312	1712.4	22.66	23.0	1.081	0.267	0.289
	RMC	Left Cheek	1312	1712.4	22.66	23.0	1.081	0.151	0.163
	RMC	Left Tilted	1312	1712.4	22.66	23.0	1.081	0.135	0.146

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	4233	846.6	23.11	23.5	1.094	0.068	0.074
	RMC	Right Tilted	4233	846.6	23.11	23.5	1.094	0.061	0.067
7.	RMC	Left Cheek	4233	846.6	23.11	23.5	1.094	0.083	0.091
	RMC	Left Tilted	4233	846.6	23.11	23.5	1.094	0.074	0.081

LTE Band 2– 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	1860	23.08	23.5	1.102	0.438	0.482
	QPSK 20MHz 1RB	Right Tilted	1860	23.08	23.5	1.102	0.401	0.442
8.	QPSK 20MHz 1RB	Left Cheek	1860	23.08	23.5	1.102	0.664	0.731
	QPSK 20MHz 1RB	Left Tilted	1860	23.08	23.5	1.102	0.612	0.674
	QPSK 20MHz 50%RB	Right Cheek	1860	23.08	23.5	1.102	0.429	0.473
	QPSK 20MHz 50%RB	Right Tilted	1860	23.08	23.5	1.102	0.392	0.432
	QPSK 20MHz 50%RB	Left Cheek	1860	23.08	23.5	1.102	0.647	0.713
	QPSK 20MHz 50%RB	Left Tilted	1860	23.08	23.5	1.102	0.603	0.664

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	1745	23.37	23.5	1.030	0.374	0.385
	QPSK 20MHz 1RB	Right Tilted	1745	23.37	23.5	1.030	0.348	0.359
9.	QPSK 20MHz 1RB	Left Cheek	1745	23.37	23.5	1.030	0.477	0.491
	QPSK 20MHz 1RB	Left Tilted	1745	23.37	23.5	1.030	0.446	0.460
	QPSK 20MHz 50%RB	Right Cheek	1745	23.37	23.5	1.030	0.362	0.373
	QPSK 20MHz 50%RB	Right Tilted	1745	23.37	23.5	1.030	0.329	0.339
	QPSK 20MHz 50%RB	Left Cheek	1745	23.37	23.5	1.030	0.461	0.475
	QPSK 20MHz 50%RB	Left Tilted	1745	23.37	23.5	1.030	0.425	0.438

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	836.5	23.43	23.5	1.016	0.184	0.187
	QPSK 10MHz 1RB	Right Tilted	836.5	23.43	23.5	1.016	0.169	0.172
	QPSK 10MHz 1RB	Left Cheek	836.5	23.43	23.5	1.016	0.174	0.177
	QPSK 10MHz 1RB	Left Tilted	836.5	23.43	23.5	1.016	0.156	0.159
	QPSK 10MHz 50%RB	Right Cheek	836.5	23.43	23.5	1.016	0.172	0.175
	QPSK 10MHz 50%RB	Right Tilted	836.5	23.43	23.5	1.016	0.154	0.157
	QPSK 10MHz 50%RB	Left Cheek	836.5	23.43	23.5	1.016	0.163	0.166
	QPSK 10MHz 50%RB	Left Tilted	836.5	23.43	23.5	1.016	0.142	0.144

LTE Band 12– 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					
11.	QPSK 20MHz 1RB	Right Cheek	704	22.90	23.0	1.023	0.108	0.111
	QPSK 20MHz 1RB	Right Tilted	704	22.90	23.0	1.023	0.094	0.096
	QPSK 20MHz 1RB	Left Cheek	704	22.90	23.0	1.023	0.090	0.092
	QPSK 20MHz 1RB	Left Tilted	704	22.90	23.0	1.023	0.082	0.084
	QPSK 20MHz 50%RB	Right Cheek	704	22.90	23.0	1.023	0.102	0.104
	QPSK 20MHz 50%RB	Right Tilted	704	22.90	23.0	1.023	0.087	0.089
	QPSK 20MHz 50%RB	Left Cheek	704	22.90	23.0	1.023	0.086	0.088
	QPSK 20MHz 50%RB	Left Tilted	704	22.90	23.0	1.023	0.077	0.079

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					
	QPSK 20MHz 1RB	Right Cheek	1770	23.31	23.5	1.045	0.403	0.421
	QPSK 20MHz 1RB	Right Tilted	1770	23.31	23.5	1.045	0.375	0.392
12.	QPSK 20MHz 1RB	Left Cheek	1770	23.31	23.5	1.045	0.490	0.512
	QPSK 20MHz 1RB	Left Tilted	1770	23.31	23.5	1.045	0.431	0.450
	QPSK 20MHz 50%RB	Right Cheek	1770	23.31	23.5	1.045	0.392	0.410
	QPSK 20MHz 50%RB	Right Tilted	1770	23.31	23.5	1.045	0.364	0.380
	QPSK 20MHz 50%RB	Left Cheek	1770	23.31	23.5	1.045	0.478	0.499
	QPSK 20MHz 50%RB	Left Tilted	1770	23.31	23.5	1.045	0.422	0.441

LTE Band 71– 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	673	23.01	23.5	1.119	0.061	0.068
	QPSK 20MHz 1RB	Right Tilted	673	23.01	23.5	1.119	0.053	0.059
13.	QPSK 20MHz 1RB	Left Cheek	673	23.01	23.5	1.119	0.082	0.092
	QPSK 20MHz 1RB	Left Tilted	673	23.01	23.5	1.119	0.074	0.083
	QPSK 20MHz 50%RB	Right Cheek	673	23.01	23.5	1.119	0.057	0.064
	QPSK 20MHz 50%RB	Right Tilted	673	23.01	23.5	1.119	0.049	0.055
	QPSK 20MHz 50%RB	Left Cheek	673	23.01	23.5	1.119	0.078	0.087
	QPSK 20MHz 50%RB	Left Tilted	673	23.01	23.5	1.119	0.071	0.079

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	06	2437	17.91	18.0	1.021	0.140	0.143
	802.11b	Right Tilted	06	2437	17.91	18.0	1.021	0.121	0.124
14.	802.11b	Left Cheek	06	2437	17.91	18.0	1.021	0.290	0.296
	802.11b	Left Tilted	06	2437	17.91	18.0	1.021	0.264	0.270

Bluetooth – 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					
	$\pi/4$ DQPSK	Right Cheek	78	2480	7.36	7.5	1.033	0.007	0.007
	$\pi/4$ DQPSK	Right Tilted	78	2480	7.36	7.5	1.033	0.006	0.006
15.	$\pi/4$ DQPSK	Left Cheek	78	2480	7.36	7.5	1.033	0.022	0.023
	$\pi/4$ DQPSK	Left Tilted	78	2480	7.36	7.5	1.033	0.020	0.021

WLAN 5.2GHz – 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					
	802.11a	Right Cheek	36	5180	9.12	9.5	1.091	0.139	0.152
	802.11a	Right Tilted	36	5180	9.12	9.5	1.091	0.112	0.122
16.	802.11a	Left Cheek	36	5180	9.12	9.5	1.091	0.204	0.223
	802.11a	Left Tilted	36	5180	9.12	9.5	1.091	0.195	0.213

WLAN 5.3GHz – 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					
	802.11a	Right Cheek	52	5260	8.32	8.5	1.042	0.140	0.146
	802.11a	Right Tilted	52	5260	8.32	8.5	1.042	0.122	0.127
17.	802.11a	Left Cheek	52	5260	8.32	8.5	1.042	0.175	0.182
	802.11a	Left Tilted	52	5260	8.32	8.5	1.042	0.148	0.154

WLAN 5.6GHz – 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					
	802.11n (40MHz)	Right Cheek	110	5550	7.35	7.5	1.035	0.156	0.161
	802.11n (40MHz)	Right Tilted	110	5550	7.35	7.5	1.035	0.127	0.131
18.	802.11n (40MHz)	Left Cheek	110	5550	7.35	7.5	1.035	0.370	0.383
	802.11n (40MHz)	Left Tilted	110	5550	7.35	7.5	1.035	0.342	0.354

WLAN 5.8GHz– 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					
	802.11a	Right Cheek	165	5825	8.48	8.5	1.005	0.084	0.084
	802.11a	Right Tilted	165	5825	8.48	8.5	1.005	0.078	0.078
19.	802.11a	Left Cheek	165	5825	8.48	8.5	1.005	0.354	0.356
	802.11a	Left Tilted	165	5825	8.48	8.5	1.005	0.321	0.322

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					
20.	GSM	Back	128	824.2	32.32	32.5	1.042	0.178	0.186
	GSM	Front	128	824.2	32.32	32.5	1.042	0.093	0.097

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					
21.	GSM	Back	512	1850.2	28.21	28.5	1.069	0.418	0.447
	GSM	Front	512	1850.2	28.21	28.5	1.069	0.219	0.234

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					
22.	RMC 12.2k	Back Side	9262	1852.4	22.66	23.0	1.081	0.178	0.192
	RMC 12.2k	Front Face	9262	1852.4	22.66	23.0	1.081	0.087	0.094

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					
23.	RMC 12.2k	Back Side	1312	1712.4	22.66	23.0	1.081	0.142	0.154
	RMC 12.2k	Front Side	1312	1712.4	22.66	23.0	1.081	0.066	0.071

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					
24.	RMC 12.2k	Back Side	4233	846.6	23.11	23.5	1.094	0.066	0.072
	RMC 12.2k	Front Side	4233	846.6	23.11	23.5	1.094	0.045	0.049

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					
25.	QPSK 20MHz 1RB	Back Side	1860	23.08	23.5	1.102	0.139	0.153
	QPSK 20MHz 1RB	Front Side	1860	23.08	23.5	1.102	0.071	0.078
	QPSK 20MHz 50%RB	Back Side	1860	23.08	23.5	1.102	0.119	0.131
	QPSK 20MHz 50%RB	Front Side	1860	23.08	23.5	1.102	0.065	0.072

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					
26.	QPSK 20MHz 1RB	Back Side	1745	23.37	23.5	1.030	0.100	0.103
	QPSK 20MHz 1RB	Front Side	1745	23.37	23.5	1.030	0.051	0.053
	QPSK 20MHz 50%RB	Back Side	1745	23.37	23.5	1.030	0.093	0.096
	QPSK 20MHz 50%RB	Front Side	1745	23.37	23.5	1.030	0.043	0.044

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					
27.	QPSK 10MHz 1RB	Back Side	836.5	23.43	23.5	1.016	0.060	0.061
	QPSK 10MHz 1RB	Front Side	836.5	23.43	23.5	1.016	0.039	0.040
	QPSK 10MHz 50%RB	Back Side	836.5	23.43	23.5	1.016	0.056	0.057
	QPSK 10MHz 50%RB	Front Side	836.5	23.43	23.5	1.016	0.031	0.032

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					
28.	QPSK 20MHz 1RB	Back Side	704	22.90	23.0	1.023	0.058	0.059
	QPSK 20MHz 1RB	Front Side	704	22.90	23.0	1.023	0.033	0.034
	QPSK 20MHz 50%RB	Back Side	704	22.90	23.0	1.023	0.053	0.054
	QPSK 20MHz 50%RB	Front Side	704	22.90	23.0	1.023	0.030	0.031

LTE Band66–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	1770	23.31	23.5	1.045	0.123	0.129
	QPSK 20MHz 1RB	Front Side	1770	23.31	23.5	1.045	0.053	0.055
	QPSK 20MHz 50%RB	Back Side	1770	23.31	23.5	1.045	0.116	0.121
	QPSK 20MHz 50%RB	Front Side	1770	23.31	23.5	1.045	0.047	0.049

LTE Band71–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					
30.	QPSK 20MHz 1RB	Back Side	673	23.01	23.5	1.119	0.064	0.072
	QPSK 20MHz 1RB	Front Side	673	23.01	23.5	1.119	0.035	0.039
	QPSK 20MHz 50%RB	Back Side	673	23.01	23.5	1.119	0.059	0.066
	QPSK 20MHz 50%RB	Front Side	673	23.01	23.5	1.119	0.033	0.037

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					
31.	802.11b	Back Side	06	2437	17.91	18.0	1.021	0.175	0.179
	802.11b	Front Side	06	2437	17.91	18.0	1.021	0.064	0.065

Bluetooth–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					
32.	$\pi/4$ DQPSK	Back Face	78	2480	7.36	7.5	1.033	0.009	0.009
	$\pi/4$ DQPSK	Front Face	78	2480	7.36	7.5	1.033	0.006	0.006

WLAN 5.2GHz –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					
33.	802.11a	Back Face	36	5180	9.12	9.5	1.091	0.249	0.272
	802.11a	Front Face	36	5180	9.12	9.5	1.091	0.072	0.079

WLAN 5.3GHz –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					
34.	802.11a	Back Face	52	5260	8.32	8.5	1.042	0.306	0.319
	802.11a	Front Face	52	5260	8.32	8.5	1.042	0.081	0.084

WLAN 5.6GHz–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.	802.11n (40MHz)	Back Face	110	5550	7.35	7.5	1.035	0.194	0.201
	802.11n (40MHz)	Front Face	110	5550	7.35	7.5	1.035	0.094	0.097

WLAN 5.8GHz –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					
36.	802.11a	Back Face	165	5825	8.48	8.5	1.005	0.197	0.198
	802.11a	Front Face	165	5825	8.48	8.5	1.005	0.062	0.062

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					
37.	GPRS_4TX	Back Face	128	824.2	28.91	29.0	1.021	0.150	0.153
	GPRS_4TX	Front Face	128	824.2	28.91	29.0	1.021	0.097	0.099
	GPRS_4TX	Right Side	128	824.2	28.91	29.0	1.021	0.047	0.048
	GPRS_4TX	Left Side	128	824.2	28.91	29.0	1.021	0.021	0.021
	GPRS_4TX	Bottom Side	128	824.2	28.91	29.0	1.021	0.020	0.020

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					
38.	GPRS_2TX	Back Side	512	1850.2	25.26	25.5	1.057	0.361	0.382
	GPRS_2TX	Front Side	512	1850.2	25.26	25.5	1.057	0.183	0.193
	GPRS_2TX	Left side	512	1850.2	25.26	25.5	1.057	0.241	0.255
	GPRS_2TX	Top side	512	1850.2	25.26	25.5	1.057	0.128	0.135

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					
39.	RMC 12.2k	Back Side	9262	1852.4	22.66	23.0	1.081	0.167	0.181
	RMC 12.2k	Front Side	9262	1852.4	22.66	23.0	1.081	0.063	0.068
	RMC 12.2k	Left side	9262	1852.4	22.66	23.0	1.081	0.099	0.107
	RMC 12.2k	Top side	9262	1852.4	22.66	23.0	1.081	0.054	0.058

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					
40.	RMC 12.2k	Back Side	1312	1712.4	22.66	23.0	1.081	0.058	0.063
	RMC 12.2k	Front Side	1312	1712.4	22.66	23.0	1.081	0.042	0.045
	RMC 12.2k	Left side	1312	1712.4	22.66	23.0	1.081	0.010	0.011
	RMC 12.2k	Top side	1312	1712.4	22.66	23.0	1.081	0.051	0.055

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					
41.	RMC 12.2k	Back Face	4233	846.6	23.11	23.5	1.094	0.071	0.078
	RMC 12.2k	Front Face	4233	846.6	23.11	23.5	1.094	0.048	0.053
	RMC 12.2k	Right Side	4233	846.6	23.11	23.5	1.094	0.016	0.018
	RMC 12.2k	Left Side	4233	846.6	23.11	23.5	1.094	0.014	0.015
	RMC 12.2k	Bottom Side	4233	846.6	23.11	23.5	1.094	0.013	0.014

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					
42.	QPSK 20MHz 1RB	Back Side	1860	23.08	23.5	1.102	0.134	0.148
	QPSK 20MHz 1RB	Front Side	1860	23.08	23.5	1.102	0.052	0.057
	QPSK 20MHz 1RB	Left side	1860	23.08	23.5	1.102	0.116	0.128
	QPSK 20MHz 1RB	Top side	1860	23.08	23.5	1.102	0.059	0.065
	QPSK 20MHz 50%RB	Back Side	1860	23.08	23.5	1.102	0.127	0.140
	QPSK 20MHz 50%RB	Front Side	1860	23.08	23.5	1.102	0.056	0.062
	QPSK 20MHz 50%RB	Left side	1860	23.08	23.5	1.102	0.105	0.116
	QPSK 20MHz 50%RB	Top side	1860	23.08	23.5	1.102	0.053	0.058

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					
43.	QPSK 20MHz 1RB	Back Side	1745	23.37	23.5	1.030	0.103	0.106
	QPSK 20MHz 1RB	Front Side	1745	23.37	23.5	1.030	0.049	0.050
	QPSK 20MHz 1RB	Left side	1745	23.37	23.5	1.030	0.079	0.081
	QPSK 20MHz 1RB	Top side	1745	23.37	23.5	1.030	0.062	0.064
	QPSK 20MHz 50%RB	Back Side	1745	23.37	23.5	1.030	0.096	0.099
	QPSK 20MHz 50%RB	Front Side	1745	23.37	23.5	1.030	0.045	0.046
	QPSK 20MHz 50%RB	Left side	1745	23.37	23.5	1.030	0.073	0.075
	QPSK 20MHz 50%RB	Top side	1745	23.37	23.5	1.030	0.059	0.061

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					
44.	QPSK 10MHz 1RB	Back Side	836.5	23.43	23.5	1.016	0.063	0.064
	QPSK 10MHz 1RB	Front Side	836.5	23.43	23.5	1.016	0.025	0.025
	QPSK 10MHz 1RB	Right Side	836.5	23.43	23.5	1.016	0.015	0.015
	QPSK 10MHz 1RB	Left Side	836.5	23.43	23.5	1.016	0.022	0.022
	QPSK 10MHz 1RB	Bottom Side	836.5	23.43	23.5	1.016	0.012	0.012
	QPSK 10MHz 50%RB	Back Side	836.5	23.43	23.5	1.016	0.062	0.063
	QPSK 10MHz 50%RB	Front Side	836.5	23.43	23.5	1.016	0.024	0.024
	QPSK 10MHz 50%RB	Right Side	836.5	23.43	23.5	1.016	0.014	0.014
	QPSK 10MHz 50%RB	Left Side	836.5	23.43	23.5	1.016	0.018	0.018
	QPSK 10MHz 50%RB	Bottom Side	836.5	23.43	23.5	1.016	0.011	0.011

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					
45.	QPSK 10MHz 1RB	Back Side	704	22.90	23.0	1.023	0.052	0.053
	QPSK 10MHz 1RB	Front Side	704	22.90	23.0	1.023	0.025	0.026
	QPSK 10MHz 1RB	Right Side	704	22.90	23.0	1.023	0.014	0.014
	QPSK 10MHz 1RB	Left Side	704	22.90	23.0	1.023	0.013	0.013
	QPSK 10MHz 1RB	Bottom Side	704	22.90	23.0	1.023	0.011	0.011
	QPSK 10MHz 50%RB	Back Side	704	22.90	23.0	1.023	0.049	0.050
	QPSK 10MHz 50%RB	Front Side	704	22.90	23.0	1.023	0.020	0.020
	QPSK 10MHz 50%RB	Right Side	704	22.90	23.0	1.023	0.013	0.013
	QPSK 10MHz 50%RB	Left Side	704	22.90	23.0	1.023	0.013	0.013
	QPSK 10MHz 50%RB	Bottom Side	704	22.90	23.0	1.023	0.010	0.010

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					
46.	QPSK 20MHz 1RB	Back Side	1770	23.31	23.5	1.045	0.112	0.117
	QPSK 20MHz 1RB	Front Side	1770	23.31	23.5	1.045	0.085	0.089
	QPSK 20MHz 1RB	Left side	1770	23.31	23.5	1.045	0.106	0.111
	QPSK 20MHz 1RB	Top side	1770	23.31	23.5	1.045	0.064	0.067
	QPSK 20MHz 50%RB	Back Side	1770	23.31	23.5	1.045	0.108	0.113
	QPSK 20MHz 50%RB	Front Side	1770	23.31	23.5	1.045	0.082	0.086
	QPSK 20MHz 50%RB	Left side	1770	23.31	23.5	1.045	0.095	0.099
	QPSK 20MHz 50%RB	Top side	1770	23.31	23.5	1.045	0.059	0.062

LTE Band 71–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					
47.	QPSK 20MHz 1RB	Back Side	673	23.01	23.5	1.119	0.065	0.073
	QPSK 20MHz 1RB	Front Side	673	23.01	23.5	1.119	0.036	0.040
	QPSK 20MHz 1RB	Right Side	673	23.01	23.5	1.119	0.037	0.041
	QPSK 20MHz 1RB	Left Side	673	23.01	23.5	1.119	0.014	0.016
	QPSK 20MHz 1RB	Bottom Side	673	23.01	23.5	1.119	0.012	0.013
	QPSK 20MHz 50%RB	Back Side	673	23.01	23.5	1.119	0.061	0.068
	QPSK 20MHz 50%RB	Front Side	673	23.01	23.5	1.119	0.033	0.037
	QPSK 20MHz 50%RB	Right Side	673	23.01	23.5	1.119	0.034	0.038
	QPSK 20MHz 50%RB	Left Side	673	23.01	23.5	1.119	0.016	0.018
	QPSK 20MHz 50%RB	Bottom Side	673	23.01	23.5	1.119	0.010	0.011

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					
48.	802.11b	Back Side	06	2437	17.91	18.0	1.021	0.200	0.204
	802.11b	Front Side	06	2437	17.91	18.0	1.021	0.093	0.095
	802.11b	Right side	06	2437	17.91	18.0	1.021	0.109	0.111
	802.11b	Top Side	06	2437	17.91	18.0	1.021	0.079	0.081

Bluetooth–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					
49.	$\pi/4$ DQPSK	Back Face	78	2480	7.36	7.5	1.033	0.013	0.013
	$\pi/4$ DQPSK	Front Face	78	2480	7.36	7.5	1.033	0.009	0.009
	$\pi/4$ DQPSK	Right Side	78	2480	7.36	7.5	1.033	0.007	0.007
	$\pi/4$ DQPSK	Top Side	78	2480	7.36	7.5	1.033	0.005	0.005

WLAN 5.2GHz –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					
50.	802.11a	Back Face	36	5180	9.12	9.5	1.091	0.258	0.282
	802.11a	Front Face	36	5180	9.12	9.5	1.091	0.089	0.097
	802.11a	Right Side	36	5180	9.12	9.5	1.091	0.124	0.135
	802.11a	Top Side	36	5180	9.12	9.5	1.091	0.198	0.216

WLAN 5.8GHz –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					
51.	802.11a	Back Face	165	5825	8.48	8.5	1.005	0.199	0.200
	802.11a	Front Face	165	5825	8.48	8.5	1.005	0.071	0.071
	802.11a	Right Side	165	5825	8.48	8.5	1.005	0.182	0.183
	802.11a	Top Side	165	5825	8.48	8.5	1.005	0.148	0.149

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.

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) + WLAN(5GHz)(Data)	Yes	Yes
5	WCDMA (Voice/Data)+ WLAN(5GHz)(Data)	Yes	Yes
6	LTE(Data) + WLAN(5GHz)(Data)	Yes	Yes
7	GSM(Voice/Data) + Bluetooth(Data)	Yes	Yes
8	WCDMA (Voice/Data) + Bluetooth(Data)	Yes	Yes
9	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.
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	0.387	0.143	0.530
Right Tilted	GSM	0.380	0.124	0.504
Left Cheek	GSM	0.302	0.296	0.598
Left Tilted	GSM	0.287	0.270	0.557
Right Cheek	WCDMA	0.410	0.143	0.553
Right Tilted	WCDMA	0.383	0.124	0.507
Left Cheek	WCDMA	0.210	0.296	0.506
Left Tilted	WCDMA	0.202	0.270	0.472
Right Cheek	LTE	0.482	0.143	0.625
Right Tilted	LTE	0.442	0.124	0.566
Left Cheek	LTE	0.731	0.296	1.027
Left Tilted	LTE	0.674	0.270	0.944

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.387	0.007	0.394
Right Tilted	GSM	0.380	0.006	0.386
Left Cheek	GSM	0.302	0.023	0.325
Left Tilted	GSM	0.287	0.021	0.308
Right Cheek	WCDMA	0.410	0.007	0.417
Right Tilted	WCDMA	0.383	0.006	0.389
Left Cheek	WCDMA	0.210	0.023	0.233
Left Tilted	WCDMA	0.202	0.021	0.223
Right Cheek	LTE	0.482	0.007	0.489
Right Tilted	LTE	0.442	0.006	0.448
Left Cheek	LTE	0.731	0.023	0.754
Left Tilted	LTE	0.674	0.021	0.695

WWAN and WLAN

	WWAN		WLAN(5GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.387	0.161	0.548
Right Tilted	GSM	0.380	0.131	0.511
Left Cheek	GSM	0.302	0.383	0.685
Left Tilted	GSM	0.287	0.354	0.641
Right Cheek	WCDMA	0.410	0.161	0.571
Right Tilted	WCDMA	0.383	0.131	0.514
Left Cheek	WCDMA	0.210	0.383	0.593
Left Tilted	WCDMA	0.202	0.354	0.556
Right Cheek	LTE	0.482	0.161	0.643
Right Tilted	LTE	0.442	0.131	0.573
Left Cheek	LTE	0.731	0.383	1.114
Left Tilted	LTE	0.674	0.354	1.028

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	0.447	0.179	0.626
Front	GSM	0.234	0.065	0.299
Back	WCDMA	0.192	0.179	0.371
Front	WCDMA	0.094	0.065	0.159
Back	LTE	0.153	0.179	0.332
Front	LTE	0.078	0.065	0.143

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.447	0.009	0.456
Front	GSM	0.234	0.006	0.240
Back	WCDMA	0.192	0.009	0.201
Front	WCDMA	0.094	0.006	0.100
Back	LTE	0.153	0.009	0.162
Front	LTE	0.078	0.006	0.084

WWAN and WLAN

	WWAN		WLAN(5GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.447	0.319	0.766
Front	GSM	0.234	0.097	0.331
Back	WCDMA	0.192	0.319	0.511
Front	WCDMA	0.094	0.097	0.191
Back	LTE	0.153	0.319	0.472
Front	LTE	0.078	0.097	0.175

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	0.382	0.204	0.586
Front	GSM	0.193	0.095	0.288
Right side	GSM	0.048	0.111	0.159
Left side	GSM	0.255	--	0.255
Bottom side	GSM	0.020	--	0.020
Top side	GSM	0.135	0.081	0.216
Back	WCDMA	0.181	0.204	0.385
Front	WCDMA	0.068	0.095	0.163
Right side	WCDMA	0.018	0.111	0.129
Left side	WCDMA	0.107	--	0.107
Bottom side	WCDMA	0.014	--	0.014
Top side	WCDMA	0.058	0.081	0.139
Back	LTE	0.148	0.204	0.352
Front	LTE	0.089	0.095	0.184
Right side	LTE	0.041	0.111	0.152
Left side	LTE	0.128	--	0.128
Bottom side	LTE	0.013	--	0.013
Top side	LTE	0.067	0.081	0.148

WWAN and Bluetooth

	WWAN		Bluetooth	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.382	0.013	0.395
Front	GSM	0.193	0.009	0.202
Right side	GSM	0.048	0.007	0.055
Left side	GSM	0.255	--	0.255
Bottom side	GSM	0.020	--	0.020
Top side	GSM	0.135	0.005	0.140
Back	WCDMA	0.181	0.013	0.194
Front	WCDMA	0.068	0.009	0.077
Right side	WCDMA	0.018	0.007	0.025
Left side	WCDMA	0.107	--	0.107
Bottom side	WCDMA	0.014	--	0.014
Top side	WCDMA	0.058	0.005	0.063
Back	LTE	0.148	0.013	0.161
Front	LTE	0.089	0.009	0.098
Right side	LTE	0.041	0.007	0.048
Left side	LTE	0.128	--	0.128
Bottom side	LTE	0.013	--	0.013
Top side	LTE	0.067	0.005	0.072

WWAN and WLAN

	WWAN		WLAN(5GHz)	Summed SAR (W/kg)
Position	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	0.382	0.282	0.664
Front	GSM	0.193	0.097	0.290
Right side	GSM	0.048	0.183	0.231
Left side	GSM	0.255	--	0.255
Bottom side	GSM	0.020	--	0.020
Top side	GSM	0.135	0.216	0.351
Back	WCDMA	0.181	0.282	0.463
Front	WCDMA	0.068	0.097	0.165
Right side	WCDMA	0.018	0.183	0.201
Left side	WCDMA	0.107	--	0.107
Bottom side	WCDMA	0.014	--	0.014
Top side	WCDMA	0.058	0.216	0.274
Back	LTE	0.148	0.282	0.430
Front	LTE	0.089	0.097	0.186
Right side	LTE	0.041	0.183	0.224
Left side	LTE	0.128	--	0.128
Bottom side	LTE	0.013	--	0.013
Top side	LTE	0.067	0.216	0.283

10. Measurement Uncertainty

10.1 Uncertainty for SAR Test

a	b	c	d	e= f(d,k)	f	g	h= c*f/e	i= c*g/e	k
Uncertainty Component	Sec.	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10g Ui (+-%)	Vi
Measurement System									
Probe calibration	E.2.1	7.0	N	1	1	1	7.00	7.00	∞
Axial Isotropy	E.2.2	2.5	R	$\sqrt{3}$	$(1_{Cp})^{1/2}$	$(1_{Cp})^{1/2}$	1.02	1.02	∞
Hemispherical Isotropy	E.2.2	4.0	R	$\sqrt{3}$	$(Cp)^{1/2}$	$(Cp)^{1/2}$	1.63	1.63	∞
Boundary effect	E.2.3	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	E.2.4	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
System detection limits	E.2.5	1.0	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Readout Electronics	E.2.6	0.02	N	1	1	1	0.02	0.02	∞
Reponse Time	E.2.7	3.0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Integration Time	E.2.8	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
RF ambient Conditions – Noise	E.6.1	0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	E.6.1	0	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	E.6.2	2.0	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Probe positioning with respect to Phantom Shell	E.6.3	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	E.5	5.0	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Test Sample Related									
Test sample positioning	E.4.2	0.03	N	1	1	1	0.03	0.03	N-1
Device Holder Uncertainty	E.4.1	5.00	N	1	1	1	5.00	5.00	
Output power Variation - SAR drift measurement	E.2.9	12.02	R	$\sqrt{3}$	1	1	6.94	6.94	∞
SAR scaling	E6.5	0.0	R	$\sqrt{3}$	1	1	0.0	0.0	∞
Phantom and Tissue Parameters									
Phantom Uncertainty (Shape and thickness tolerances)	E.3.1	0.05	R	$\sqrt{3}$	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E3.2	1.9	R	$\sqrt{3}$	1	0.84	1.10	0.90	∞

Liquid conductivity - deviation from target value	E.3.2	0	R	$\sqrt{3}$	0	0.43	0	0	∞
Liquid conductivity - measurement uncertainty	E.3.3	4.00	N	1	0.64	0.43	1.10	1.10	∞
Liquid permittivity - deviation from target value	E.3.2	0	R	$\sqrt{3}$	0	0.49	0	0	∞
Liquid permittivity - measurement uncertainty	E.3.3	5.00	N	1	0.6	0.49	1.47	1.47	∞
Combined Standard Uncertainty			RSS				10.20	10.00	
Expanded Uncertainty (95% Confidence interval)			K=2				20.40	20.00	

Annex A. Plots of System Performance Check

MEASUREMENT 1

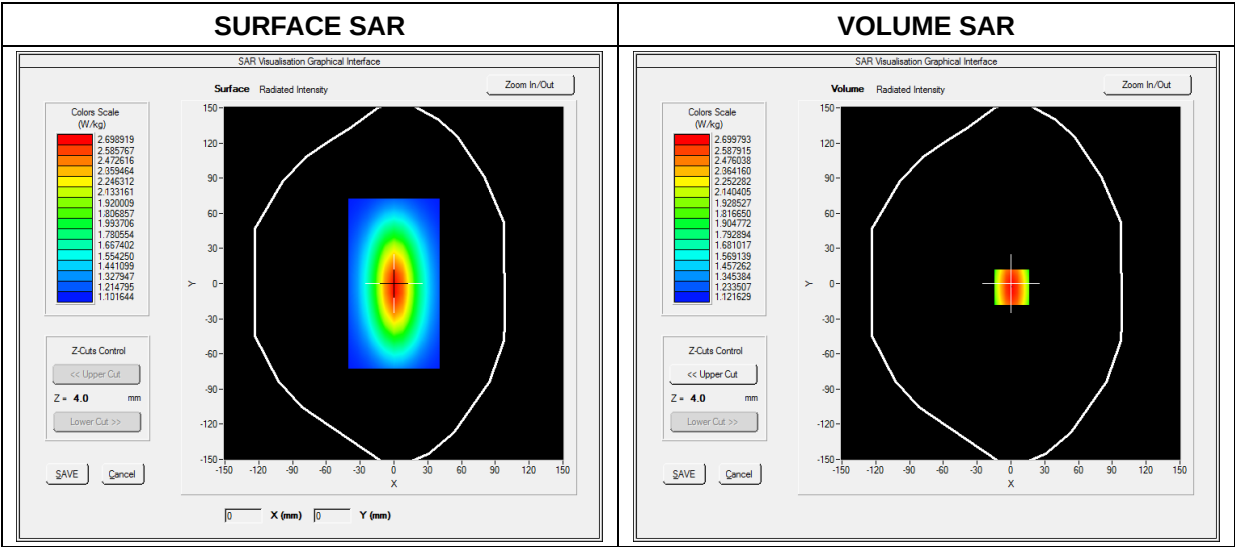
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-19
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.66; Calibrated: 2022-07-08

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)	41.142574
Conductivity (S/m)	0.872583
Power Variation (%)	0.383300
Ambient Temperature	22.2
Liquid Temperature	22.2

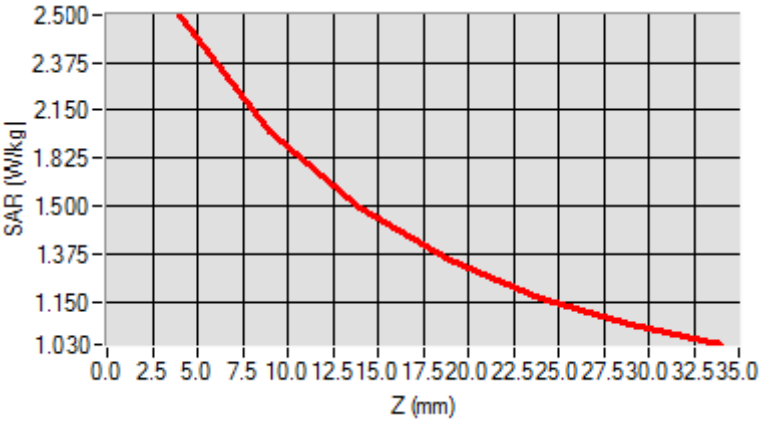


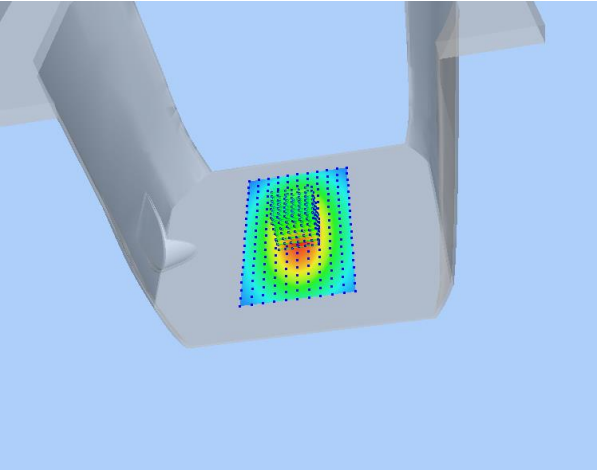
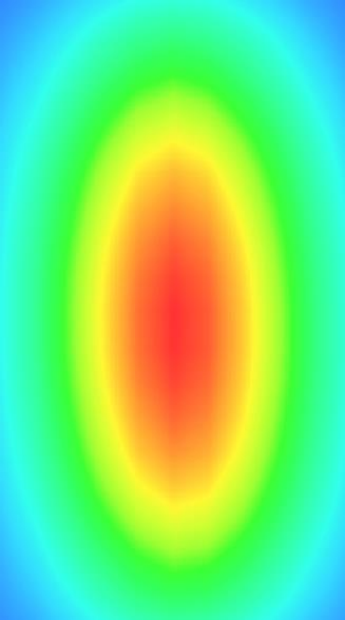
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.042744
SAR 1g (W/Kg)	2.180534

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.3634	1.8023	1.4523	1.2514	1.1005	1.0245



3D screen shot	Hot spot position
	

MEASUREMENT 2

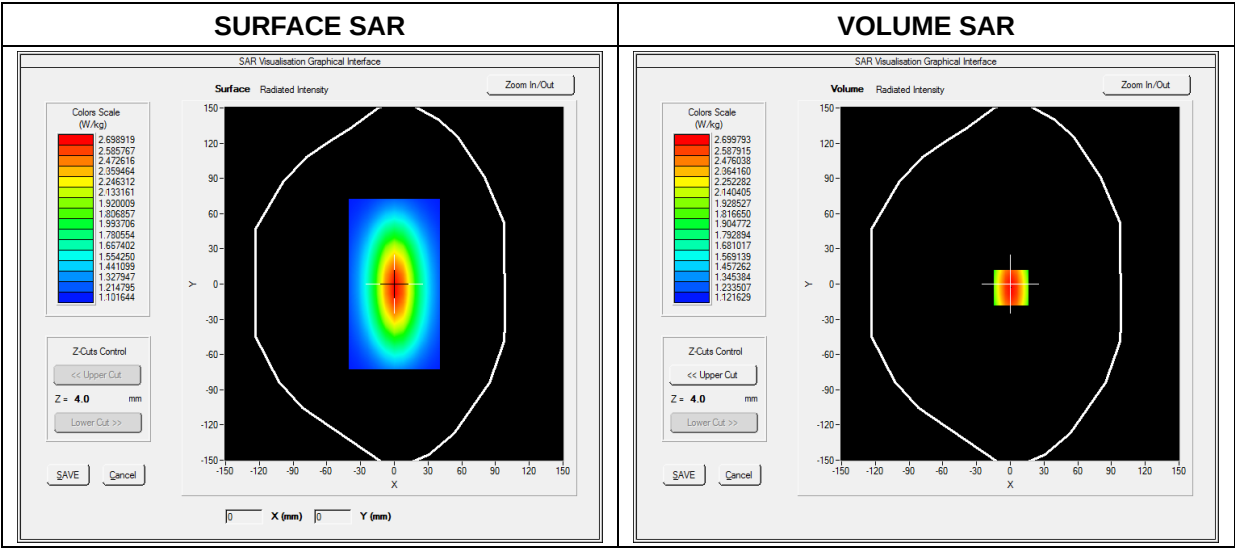
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-19
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.71; Calibrated: 2022-07-08

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)	40.282459
Conductivity (S/m)	0.881245
Power Variation (%)	0.423700
Ambient Temperature	22.2
Liquid Temperature	22.2

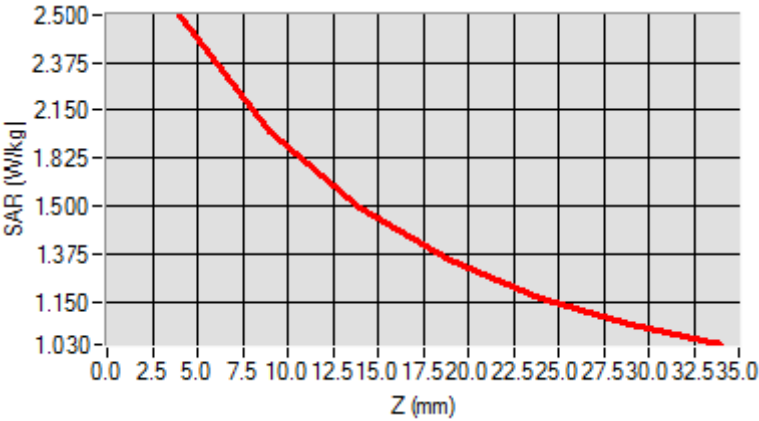


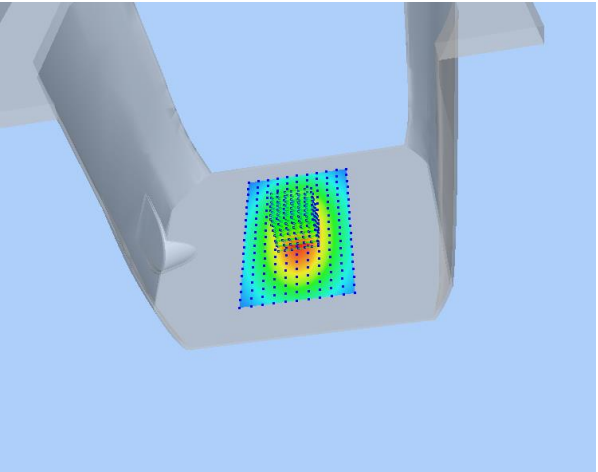
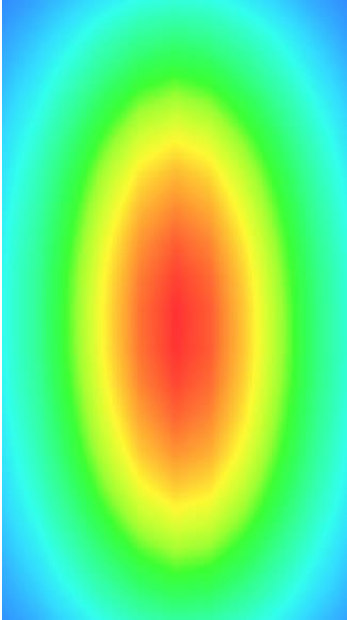
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.519489
SAR 1g (W/Kg)	2.511253

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	2.4900	1.8942	1.4811	1.3541	1.1123	1.0539



3D screen shot	Hot spot position
	

MEASUREMENT 3

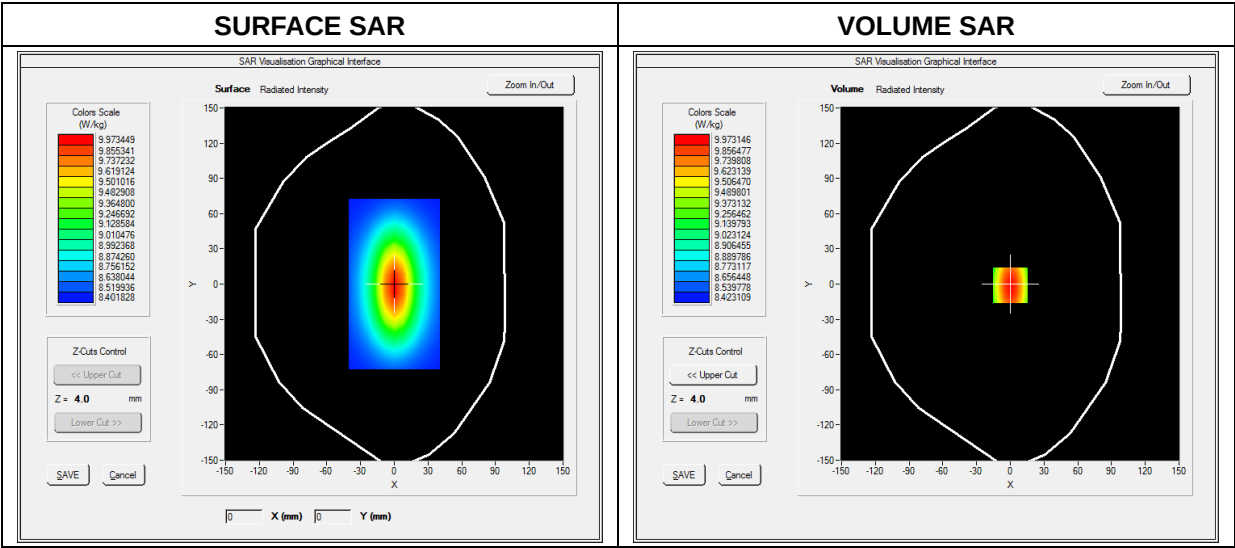
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.11; Calibrated: 2022-07-08

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)	39.692309
Conductivity (S/m)	1.382514
Power Variation (%)	1.023200
Ambient Temperature	22.1
Liquid Temperature	22.1

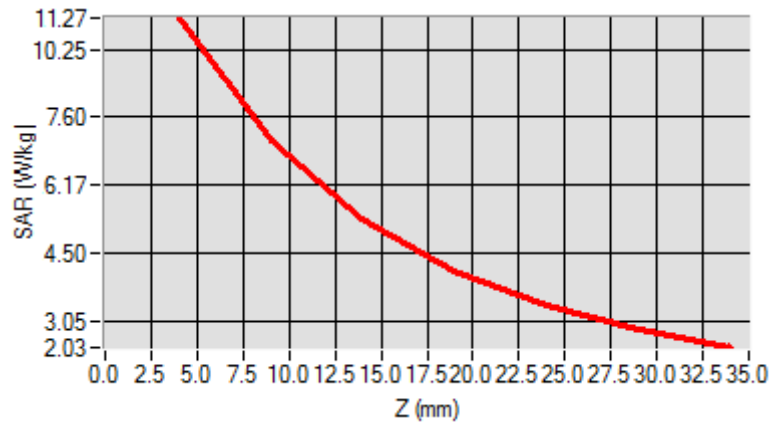


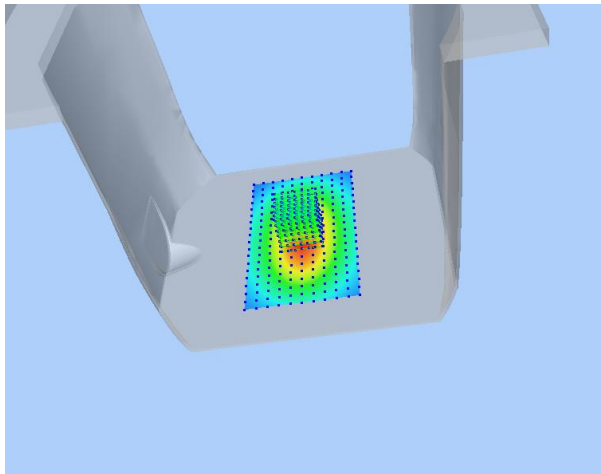
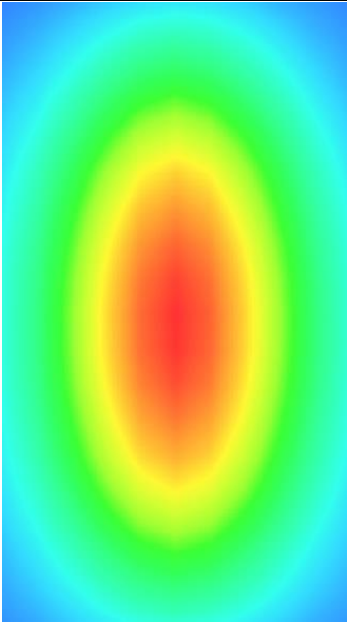
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.081252
SAR 1g (W/Kg)	9.461217

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.3455	7.1125	5.1026	3.425	3.0242	2.1125



3D screen shot	Hot spot position
	

MEASUREMENT 4

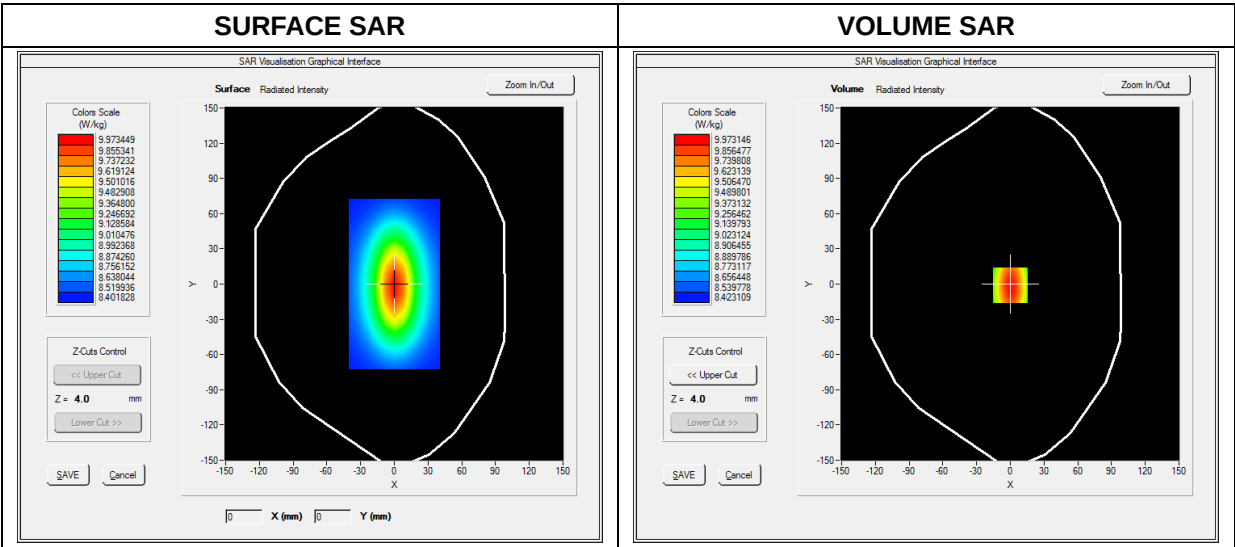
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.21; Calibrated: 2022-07-08

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)	39.161824
Conductivity (S/m)	1.383607
Power Variation (%)	1.257400
Ambient Temperature	22.1
Liquid Temperature	22.1

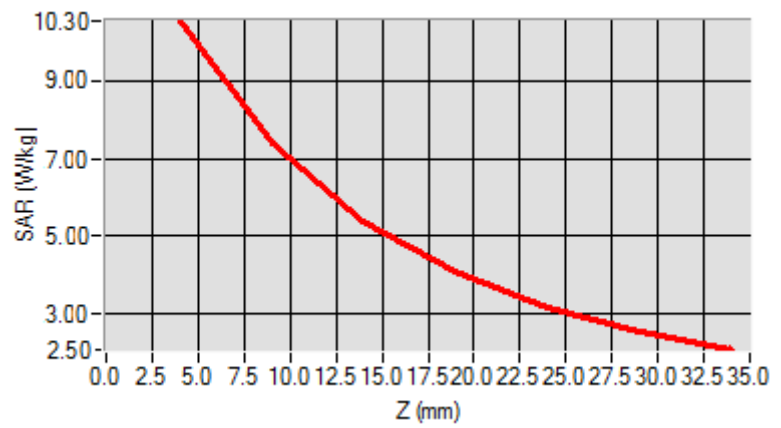


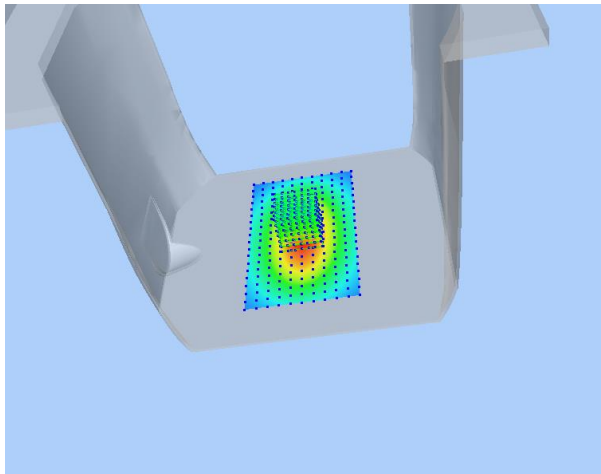
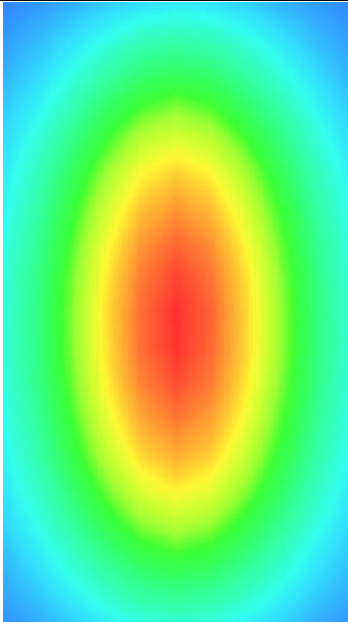
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.174526
SAR 1g (W/Kg)	9.913214

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.2354	6.8400	5.0121	4.1189	3.0522	2.8424

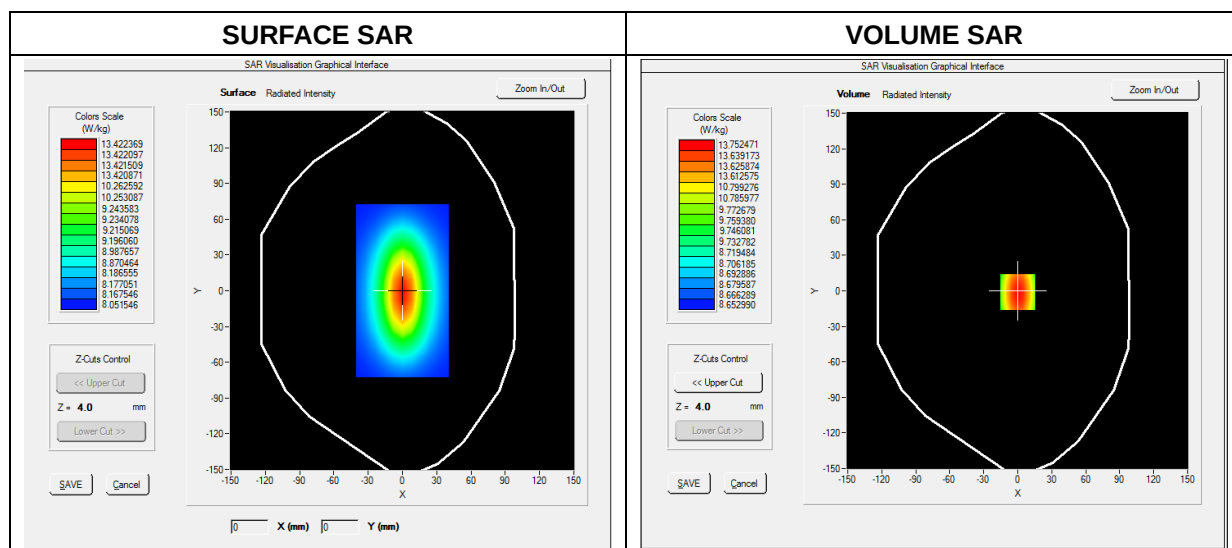


3D screen shot	Hot spot position
	

E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.29; Calibrated: 2022-07-08

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Signal	Duty Cycle 1:1

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.372860
Conductivity (S/m)	1.782369
Power Variation (%)	1.145200
Ambient Temperature	22.3
Liquid Temperature	22.3

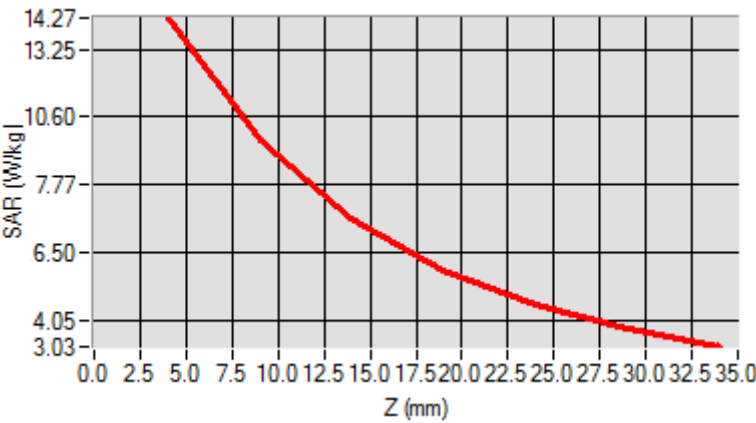


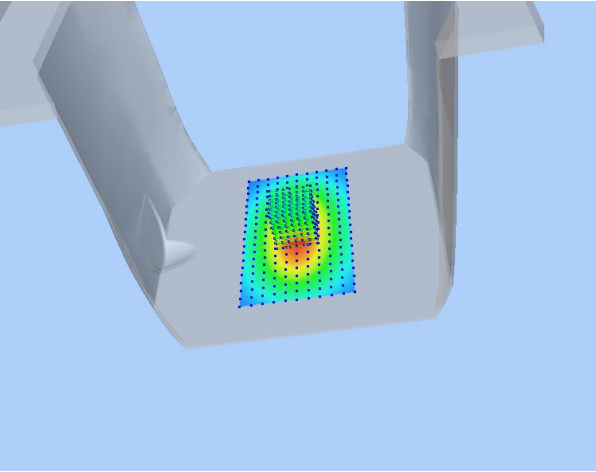
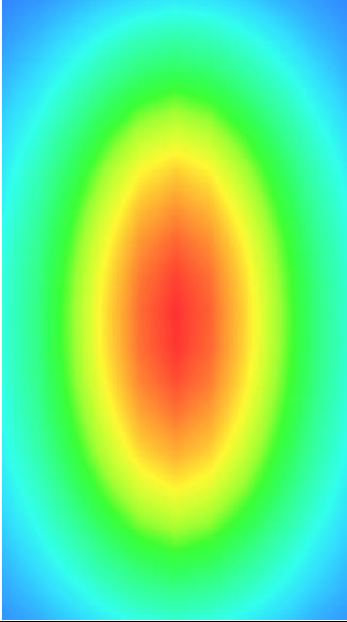
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	8.210711
SAR 1g (W/Kg)	13.752408

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	14.1034	12.0012	10.2624	7.4715	5.9022	4.5114



3D screen shot	Hot spot position
	

MEASUREMENT 6

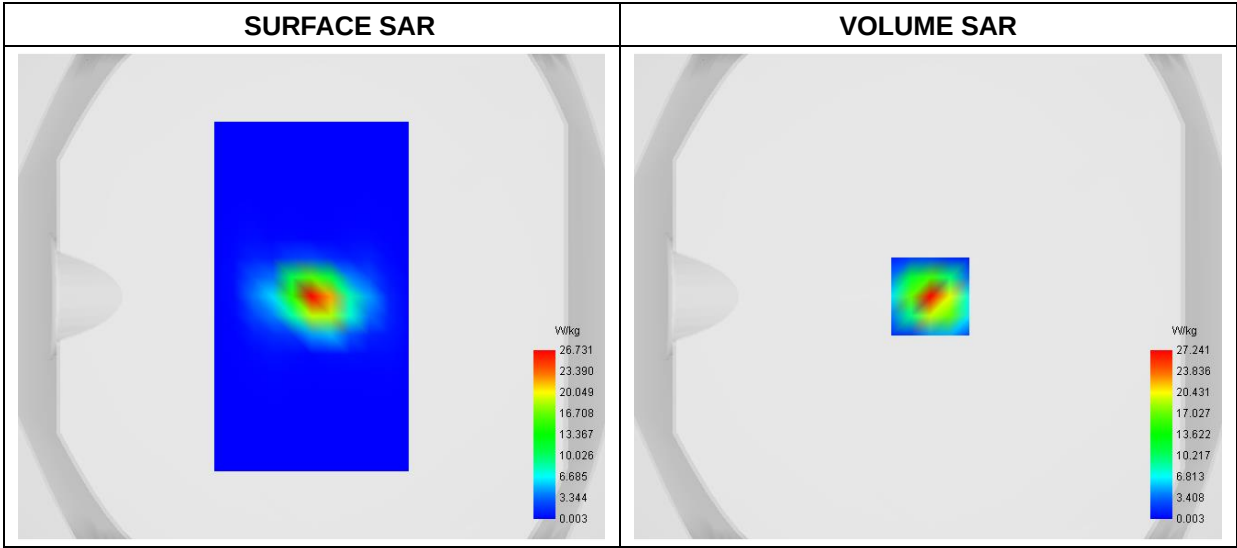
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.91; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

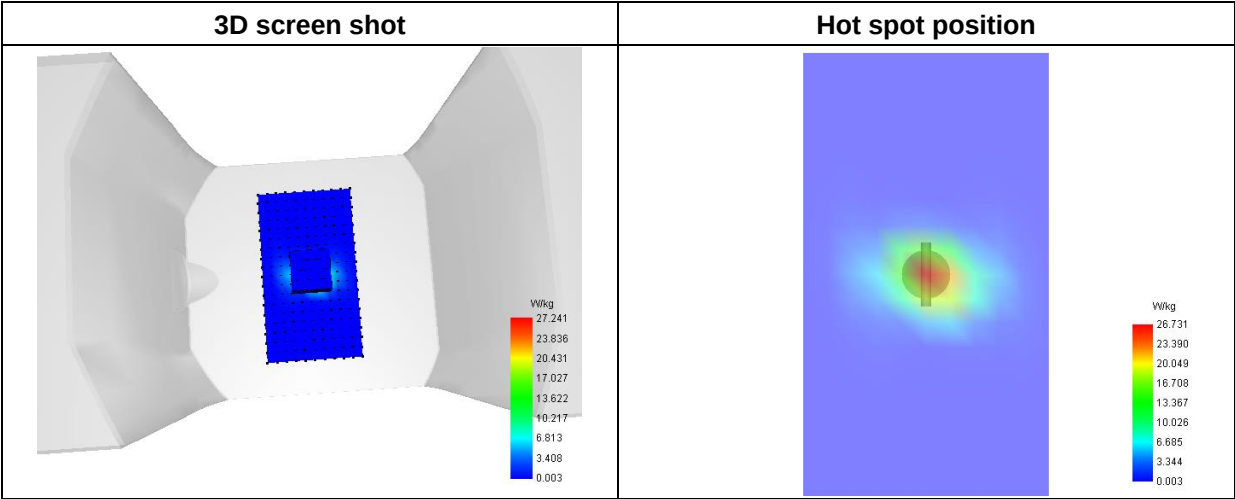
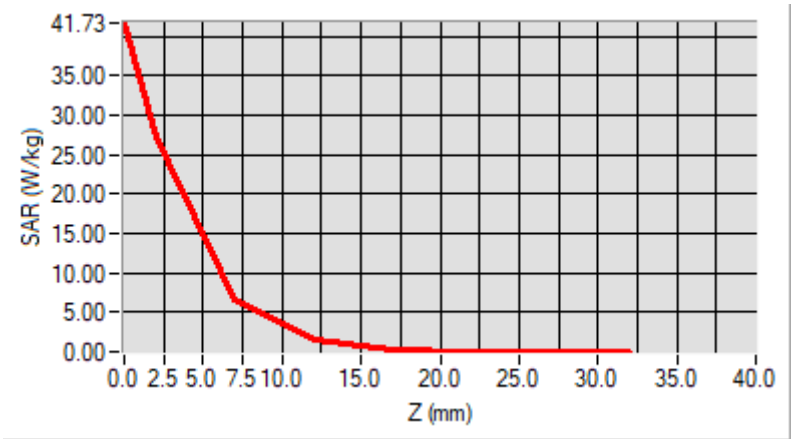
Frequency (MHz)	5200.000000
Relative Permittivity (real part)	36.562911
Conductivity (S/m)	4.643426
Power Variation (%)	-0.944700
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	5.910334
SAR 1g (W/Kg)	16.746226

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	41.7264	27.2408	6.5746	1.6234	0.3765	0.0793	0.0129



MEASUREMENT 7

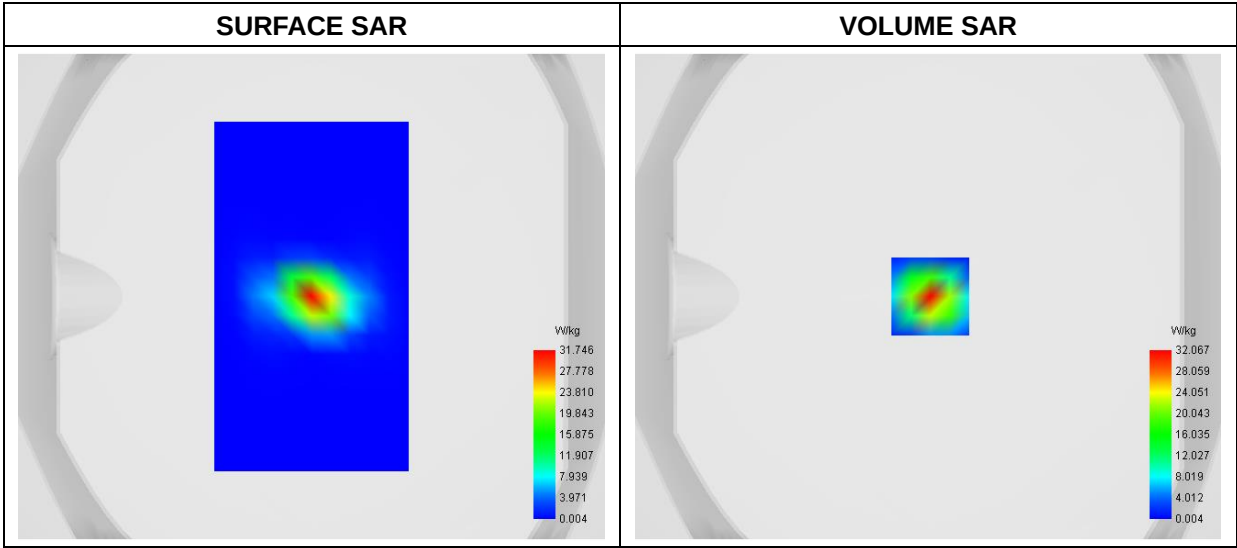
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.12; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5400
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

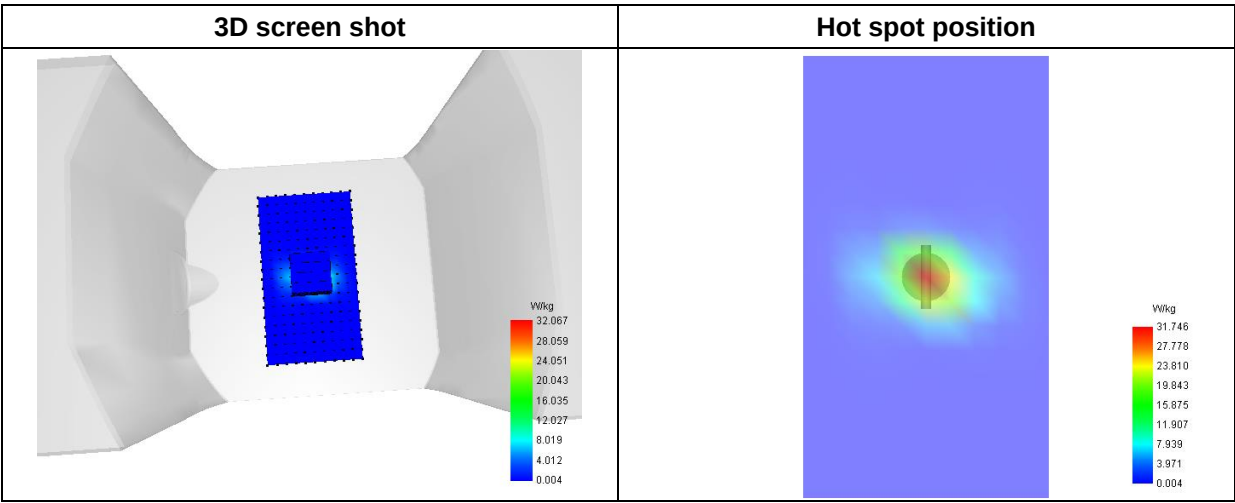
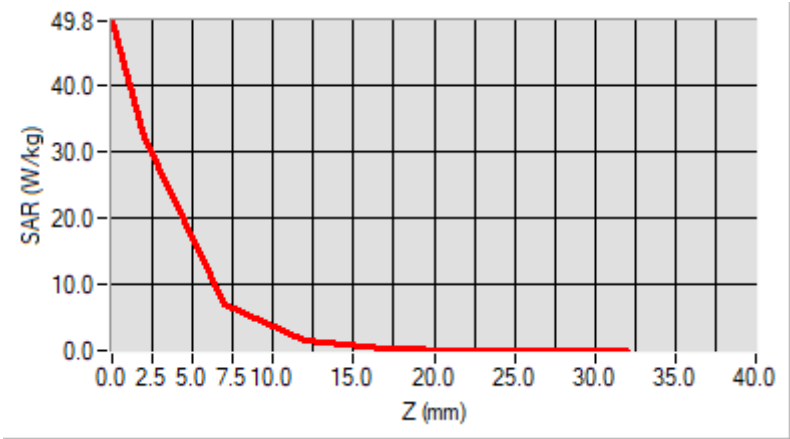
Frequency (MHz)	5400.000000
Relative Permittivity (real part)	36.171483
Conductivity (S/m)	4.881923
Power Variation (%)	1.024500
Ambient Temperature	22.5
Liquid Temperature	22.5



Maximum location: X=1.00, Y=0.00

SAR 10g (W/Kg)	6.047588
SAR 1g (W/Kg)	17.481175

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	49.8193	32.0669	7.0244	1.5969	0.3410	0.0635	0.0070



MEASUREMENT 8

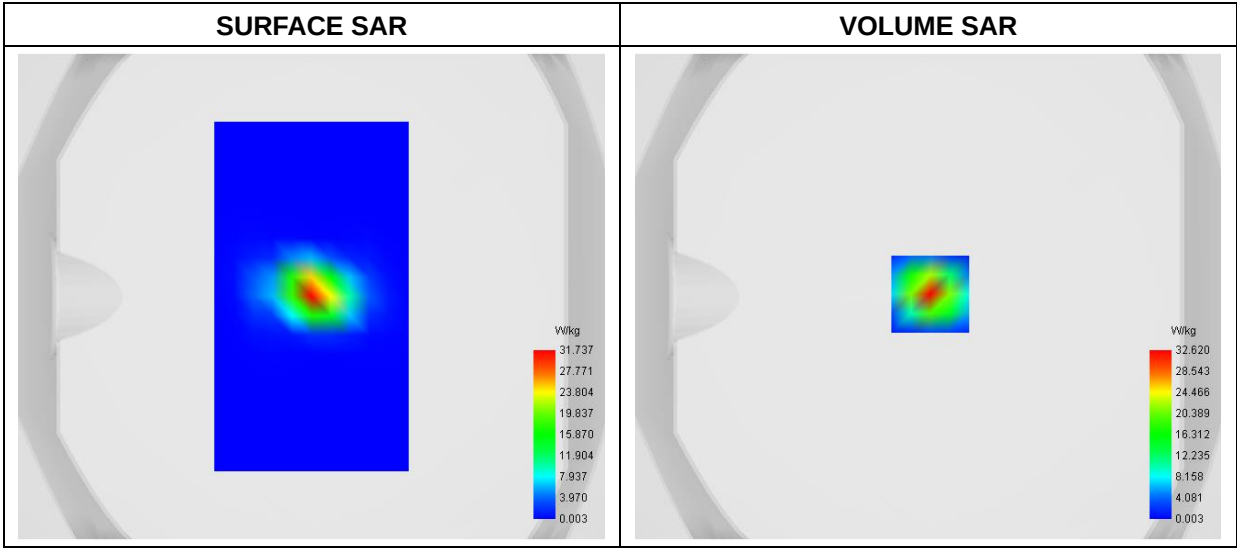
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.25; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5600
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

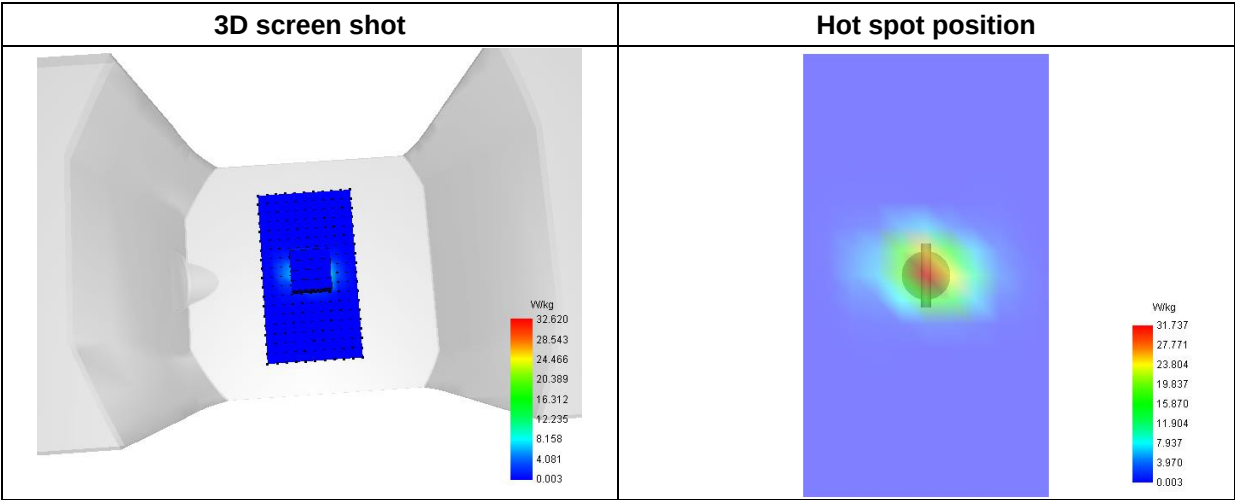
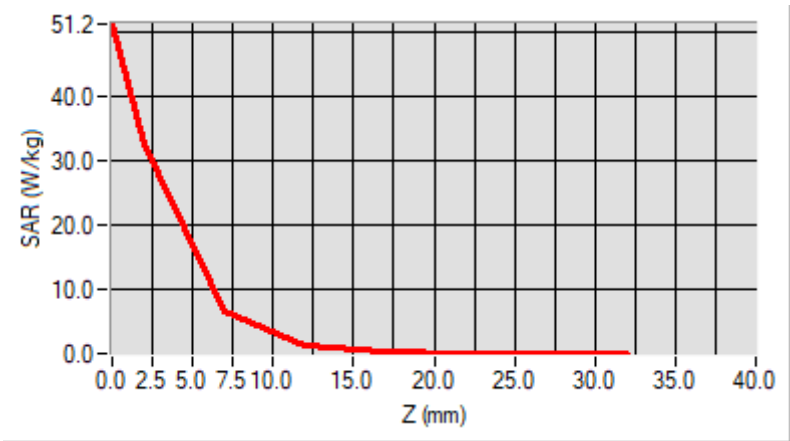
Frequency (MHz)	5600.000000
Relative Permittivity (real part)	36.391205
Conductivity (S/m)	5.112357
Power Variation (%)	-0.163600
Ambient Temperature	22.4
Liquid Temperature	22.4



Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	5.922791
SAR 1g (W/Kg)	17.604052

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	51.2061	32.6198	6.6166	1.3486	0.2638	0.0509	0.0050



MEASUREMENT 9

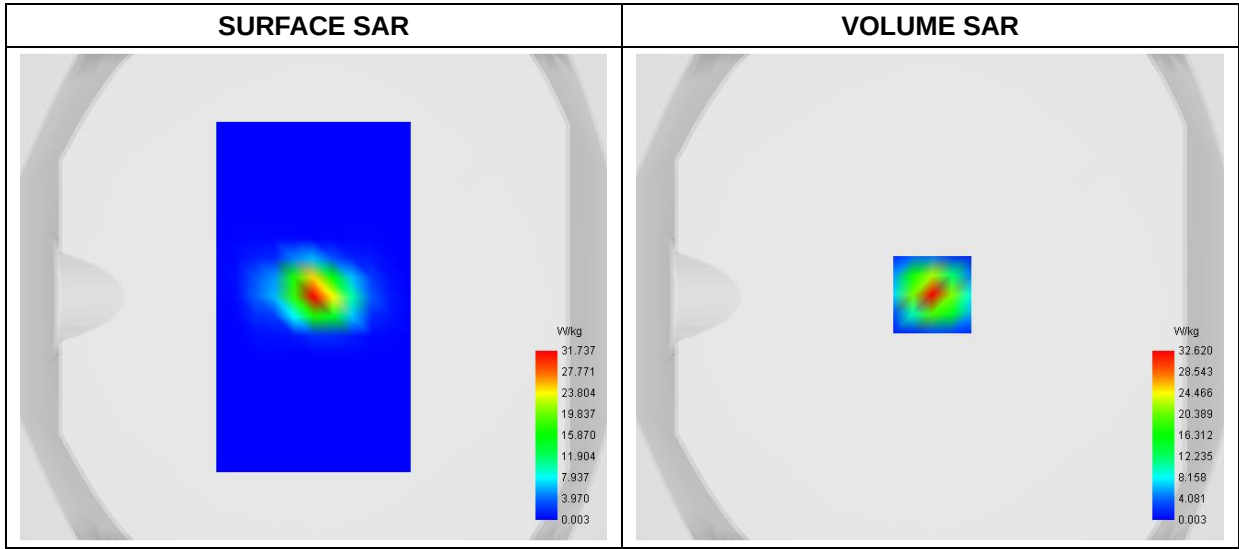
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.14; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

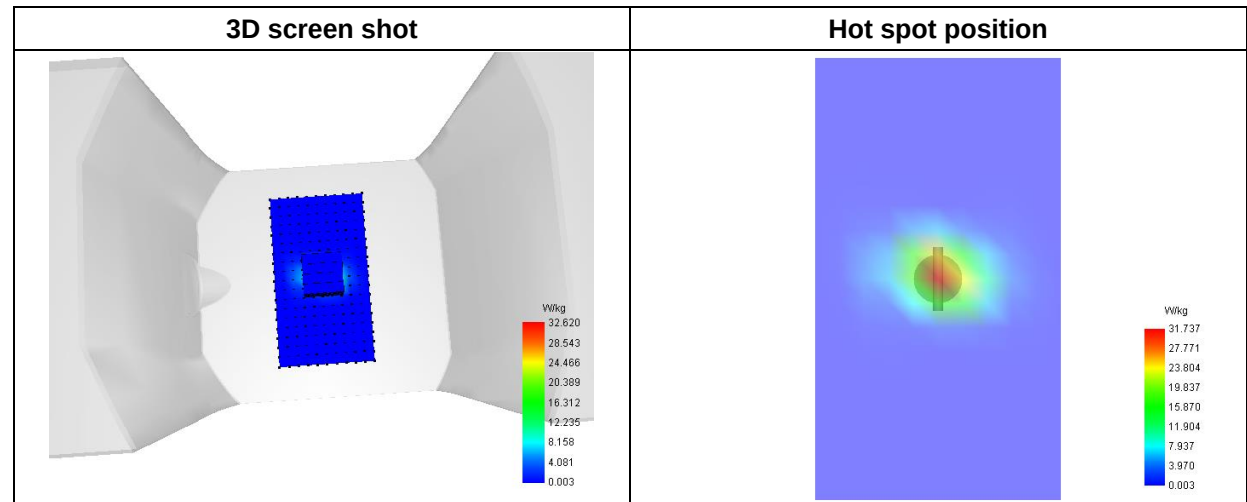
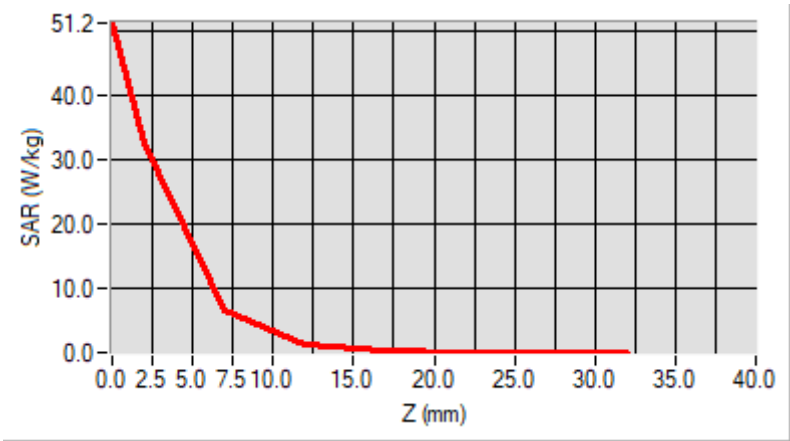
Frequency (MHz)	5800.000000
Relative Permittivity (real part)	34.753814
Conductivity (S/m)	5.292705
Power Variation (%)	-1.642700
Ambient Temperature	22.4
Liquid Temperature	22.4



Maximum location: X=1.00, Y=1.00

SAR 10g (W/Kg)	5.983506
SAR 1g (W/Kg)	17.960742

Z (mm)	0.00	2.00	7.00	12.00	17.00	22.00	27.00
SAR (W/Kg)	51.2061	32.6198	6.6166	1.3486	0.2638	0.0509	0.0050



Annex B. Plots of SAR Measurement

MEASUREMENT 1

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 11 minutes 48 seconds

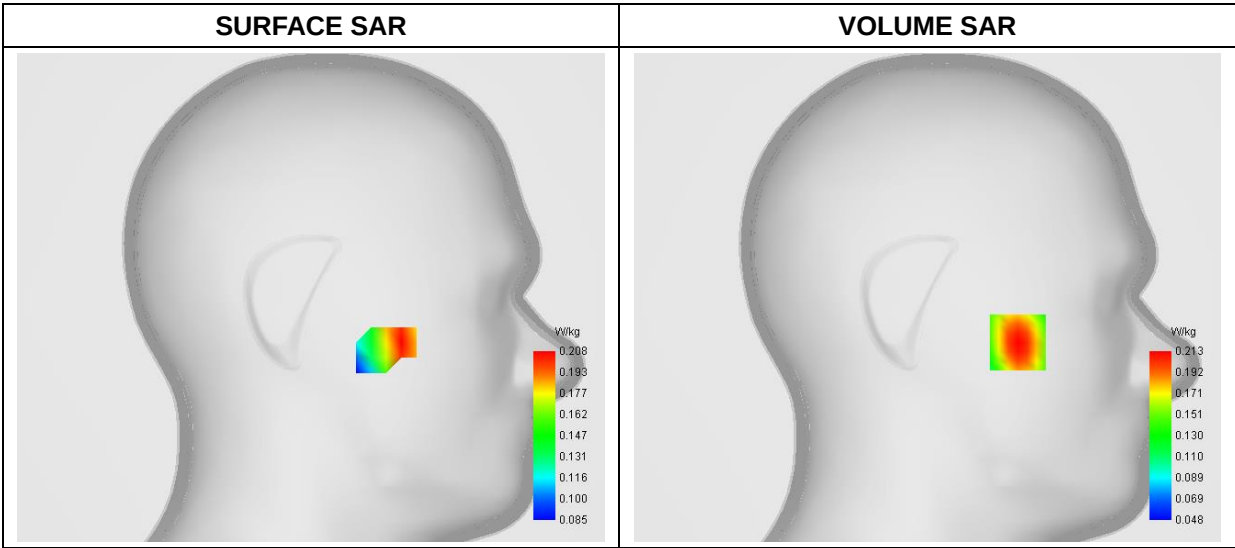
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	824.200000
Relative Permittivity (real part)	41.142459
Conductivity (S/m)	0.871245
Power Variation (%)	1.053600
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

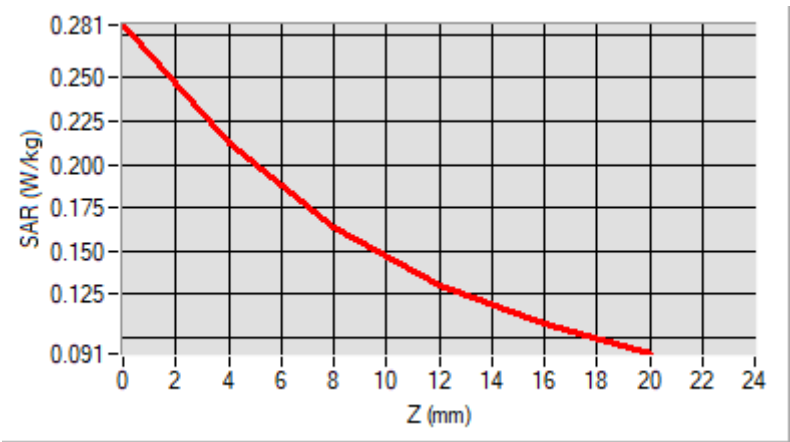


Maximum location: X=-48.00, Y=-24.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.142033
SAR 1g (W/Kg)	0.201713

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2805	0.2126	0.1638	0.1303	0.1078



F. 3D Image

3D screen shot	Hot spot position
A 3D rendering of a human head model in profile, facing right. A small, localized area of high SAR (red) is visible near the ear. A color scale on the right indicates SAR values from 0.048 to 0.213 W/kg.	A 2D diagram showing the hot spot position on the head model. A color scale on the right indicates SAR values from 0.095 to 0.208 W/kg.

MEASUREMENT 2

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 11 minutes 48 seconds

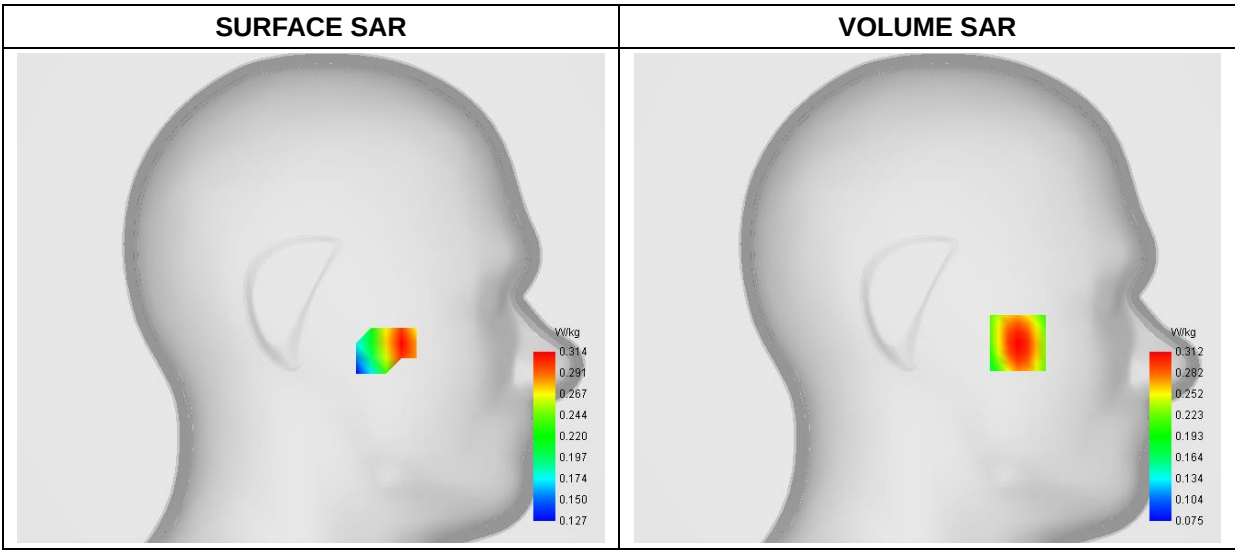
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GPRS850_4TX
Channels	Middle
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	824.200000
Relative Permittivity (real part)	40.281245
Conductivity (S/m)	0.883691
Power Variation (%)	-0.157400
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

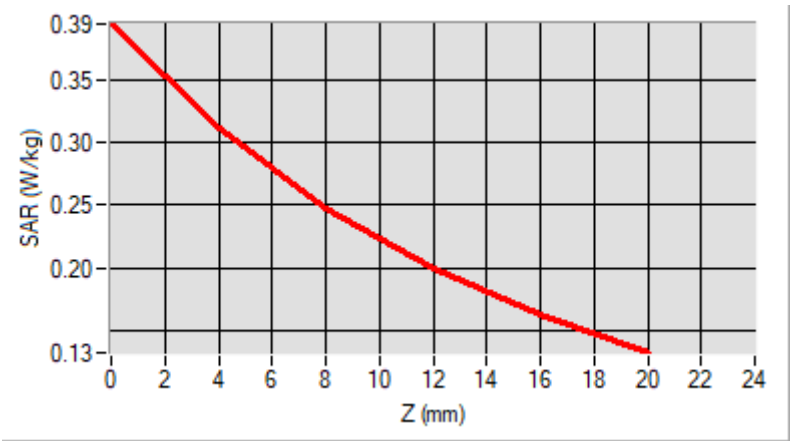


Maximum location: X=-48.00, Y=-24.00
D. SAR 1g & 10g

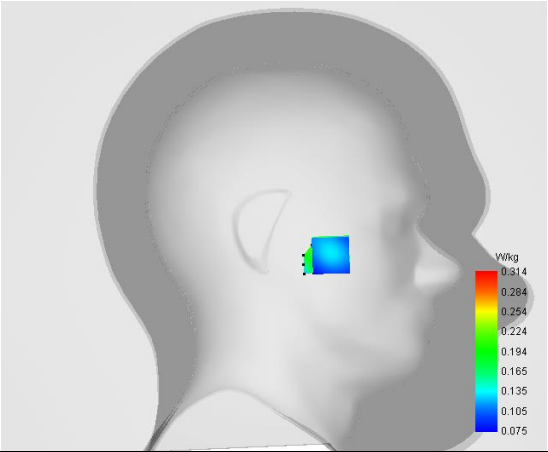
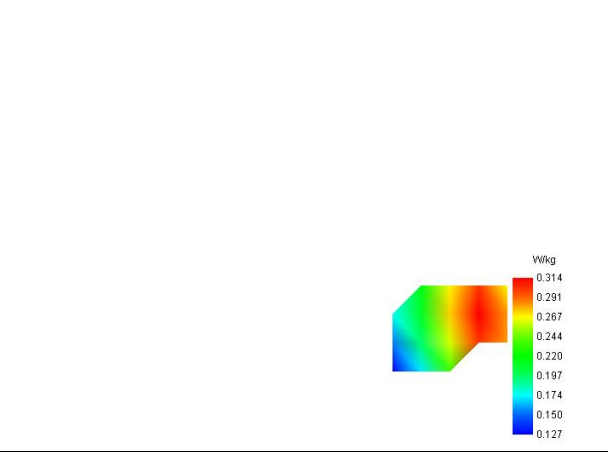
SAR 10g (W/Kg)	0.211237
SAR 1g (W/Kg)	0.295879

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3945	0.3116	0.2473	0.1989	0.1621



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 3

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 11 minutes 48 seconds

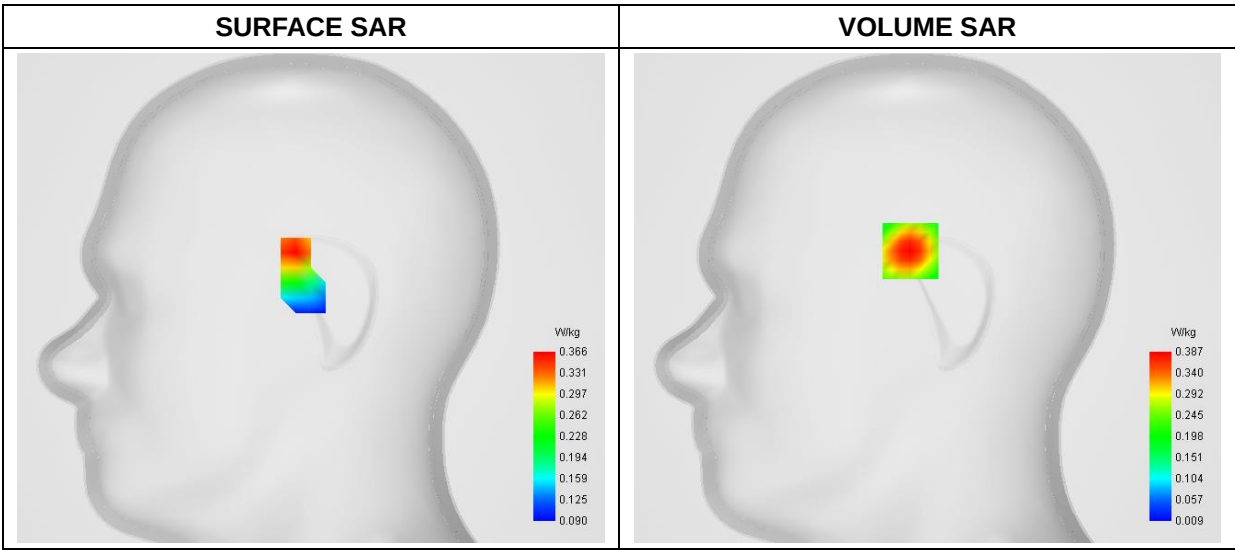
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right 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)	39.692459
Conductivity (S/m)	1.381255
Power Variation (%)	-1.074500
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

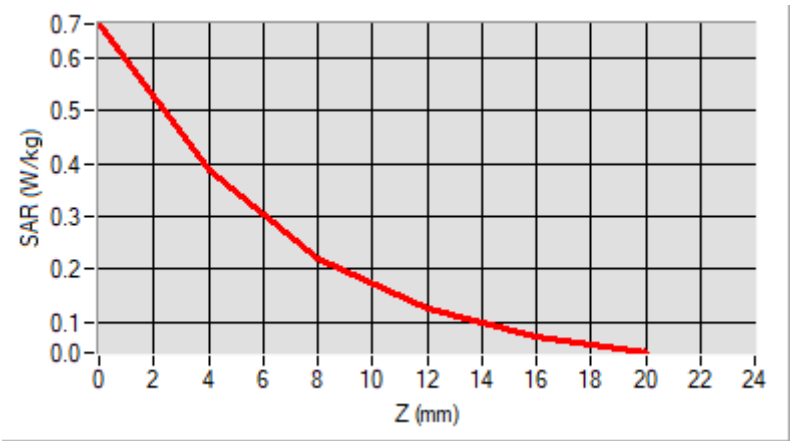


Maximum location: X=-9.00, Y=25.00
D. SAR 1g & 10g

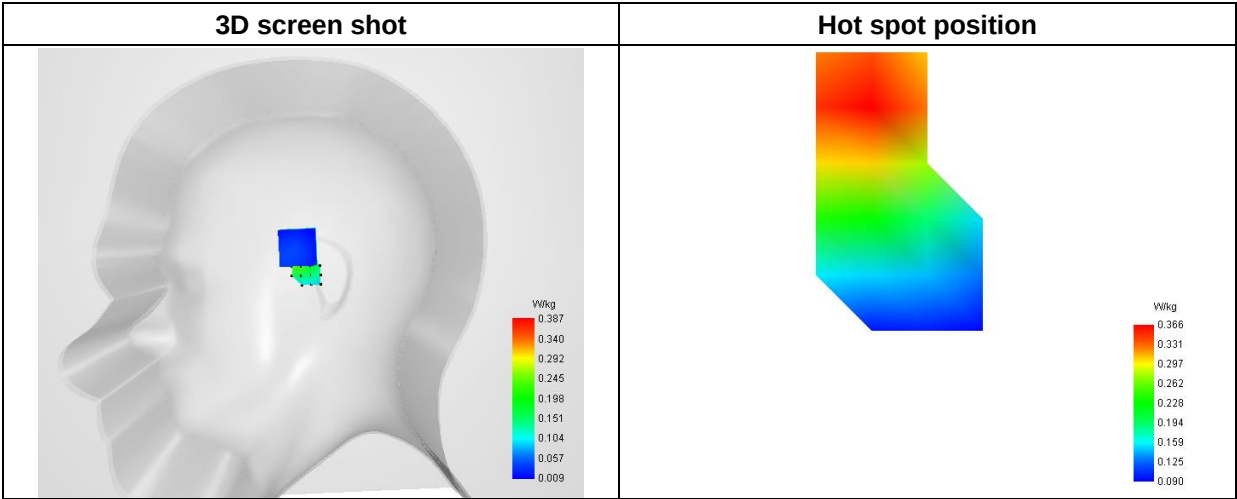
SAR 10g (W/Kg)	0.191084
SAR 1g (W/Kg)	0.361989

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6642	0.3868	0.2190	0.1245	0.0734



F. 3D Image



MEASUREMENT 4

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 11 minutes 48 seconds

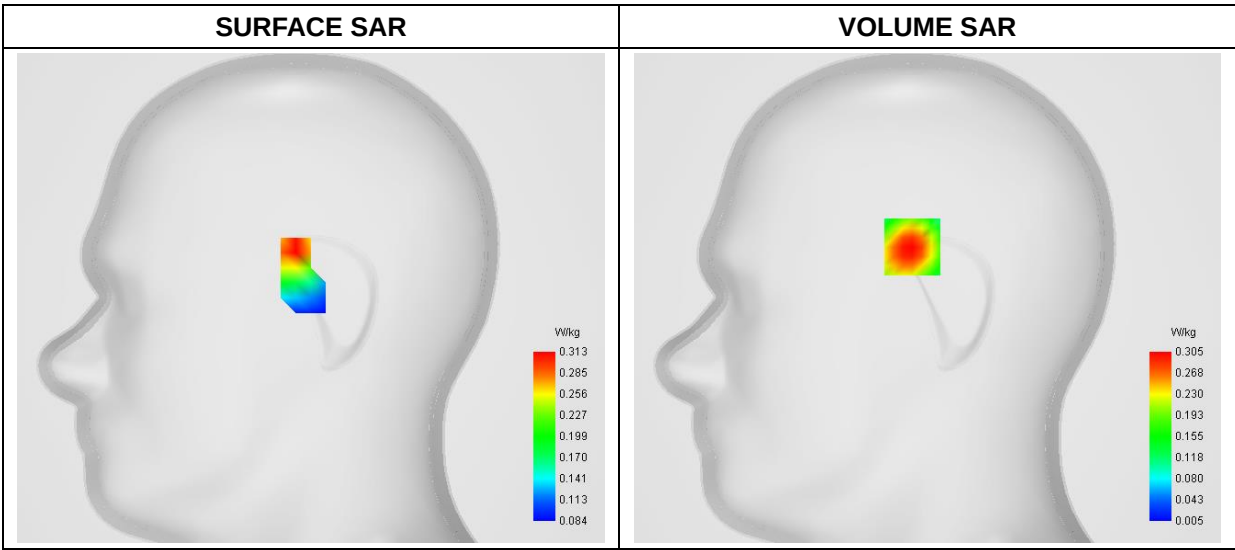
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	GPRS1900_2TX
Channels	Middle
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.692459
Conductivity (S/m)	1.381255
Power Variation (%)	1.154700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

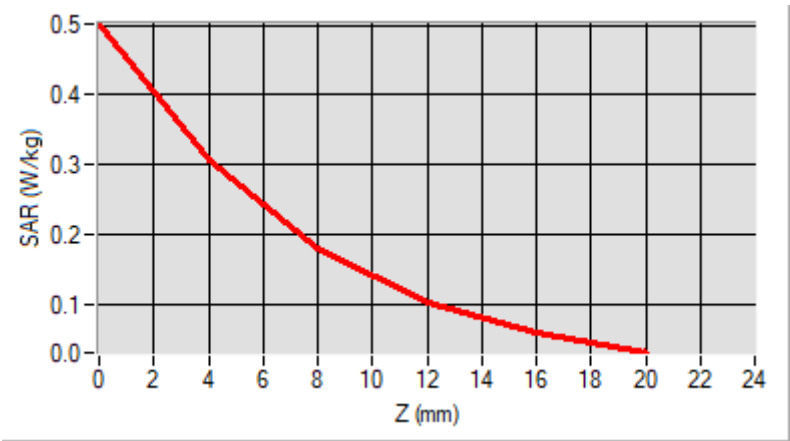


Maximum location: X=-8.00, Y=27.00
D. SAR 1g & 10g

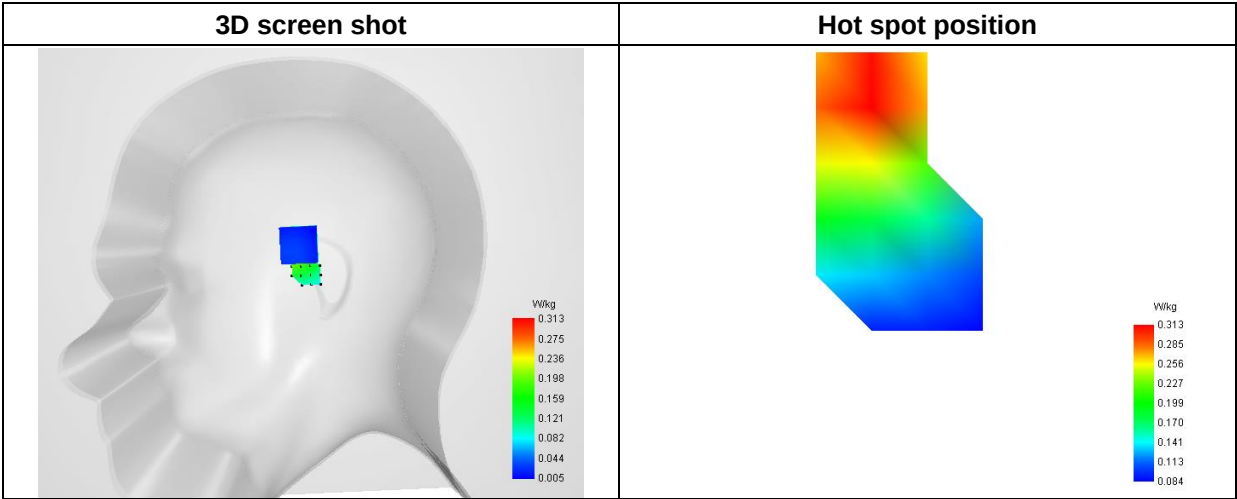
SAR 10g (W/Kg)	0.150808
SAR 1g (W/Kg)	0.285038

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5021	0.3051	0.1792	0.1029	0.0581



F. 3D Image



MEASUREMENT 5

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

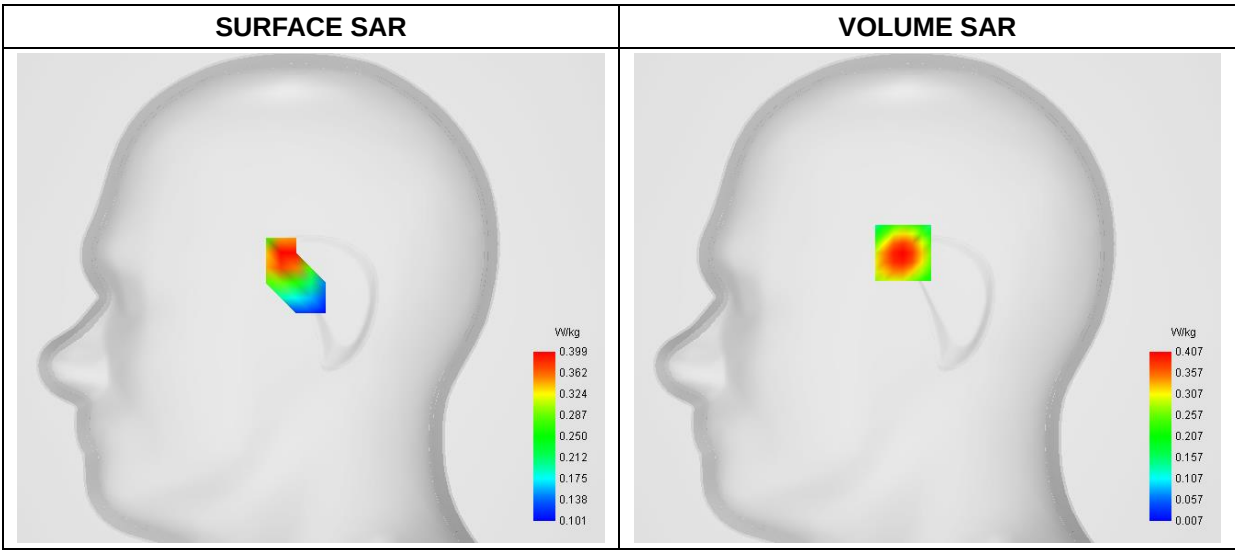
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right 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)	39.691249
Conductivity (S/m)	1.383607
Power Variation (%)	0.827100
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume



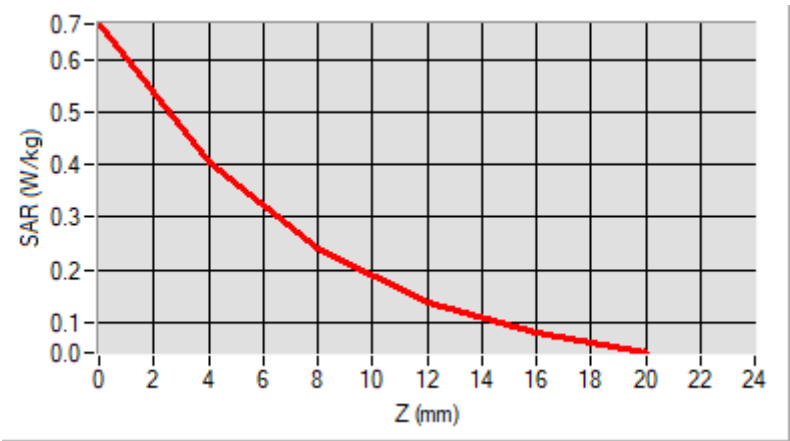
Maximum location: X=-13.00, Y=24.00

D. SAR 1g & 10g

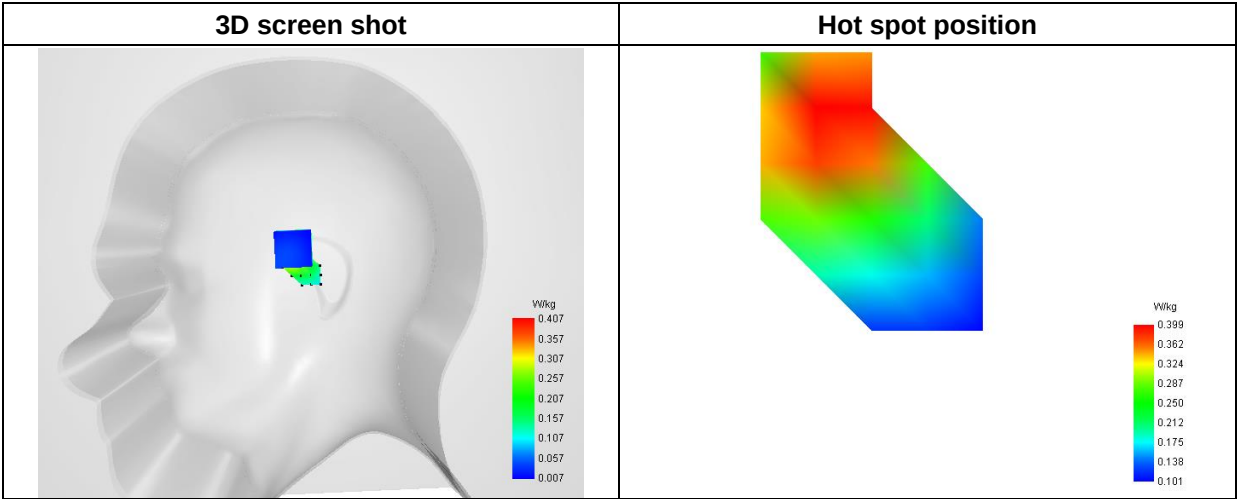
SAR 10g (W/Kg)	0.200680
SAR 1g (W/Kg)	0.379185

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6706	0.4074	0.2394	0.1379	0.0783



F. 3D Image



MEASUREMENT 6

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

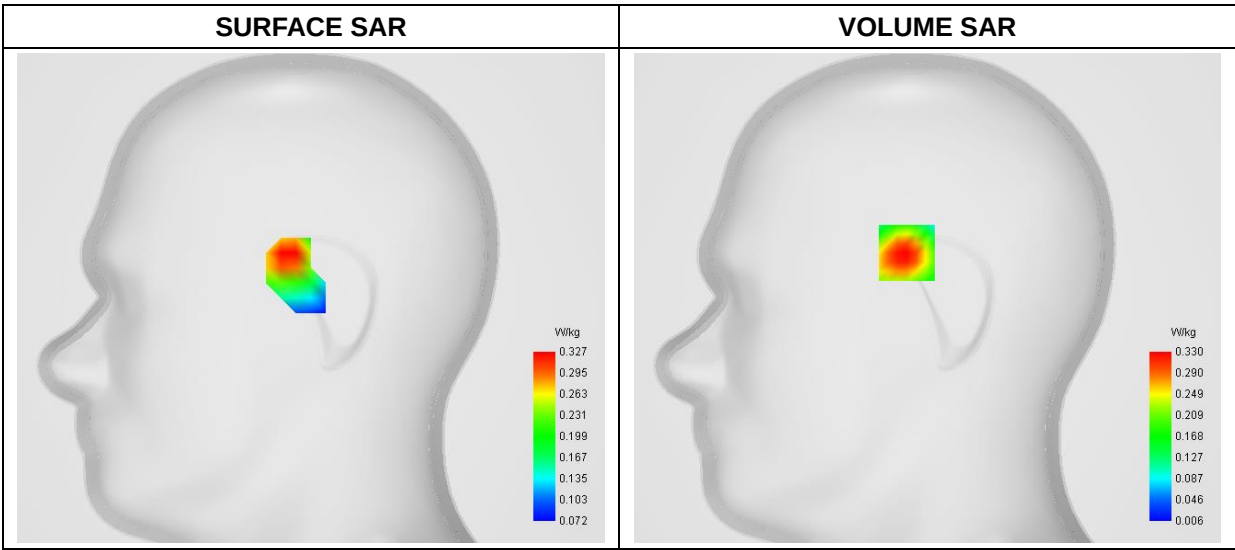
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1712.400000
Relative Permittivity (real part)	39.693245
Conductivity (S/m)	1.383245
Power Variation (%)	-1.364700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

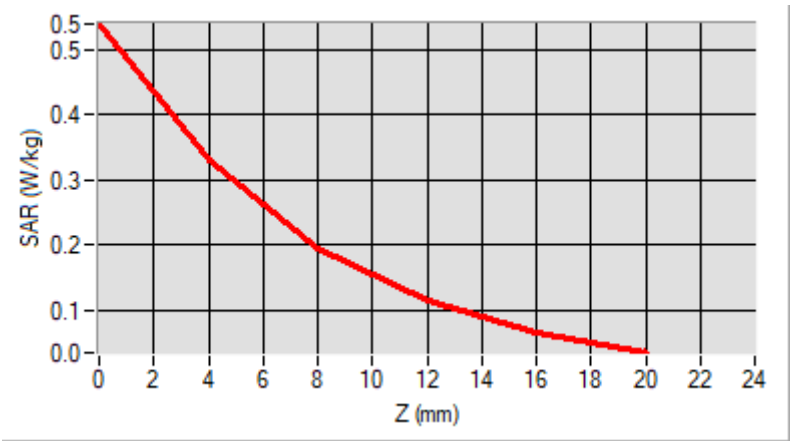


Maximum location: X=-11.00, Y=24.00
D. SAR 1g & 10g

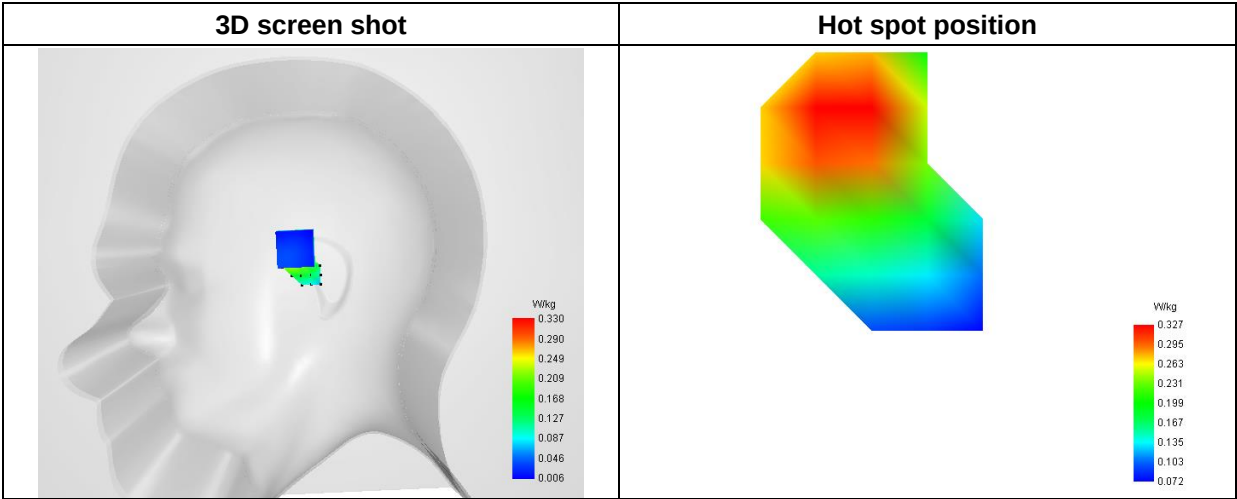
SAR 10g (W/Kg)	0.163691
SAR 1g (W/Kg)	0.308058

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5397	0.3304	0.1959	0.1137	0.0651



F. 3D Image



MEASUREMENT 7

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

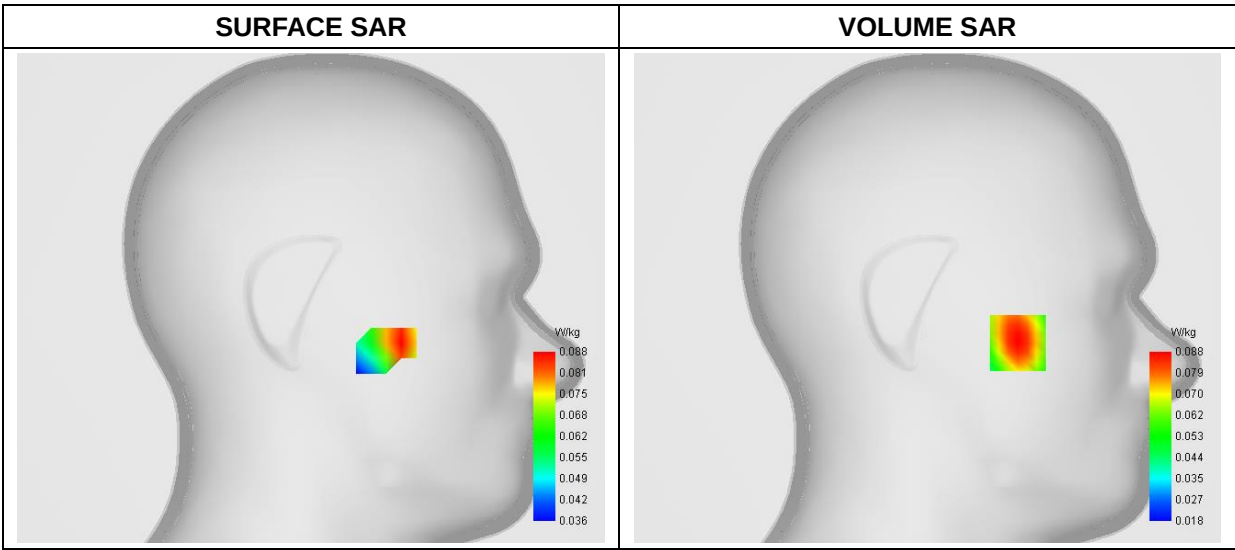
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	846.600000
Relative Permittivity (real part)	40.283245
Conductivity (S/m)	0.882485
Power Variation (%)	1.361700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

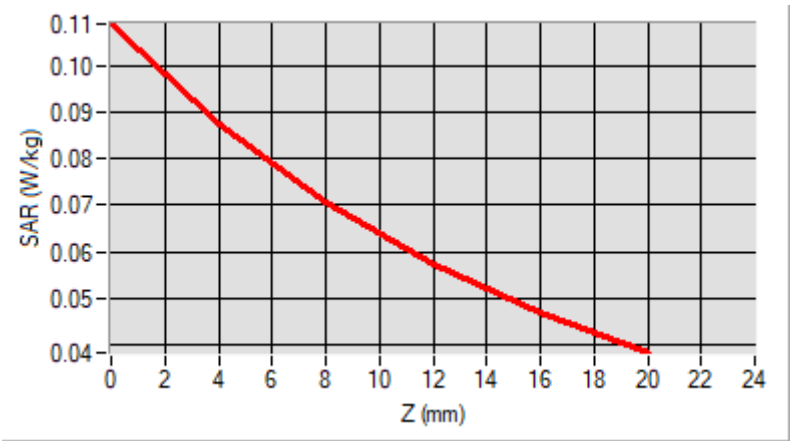


Maximum location: X=-48.00, Y=-24.00
D. SAR 1g & 10g

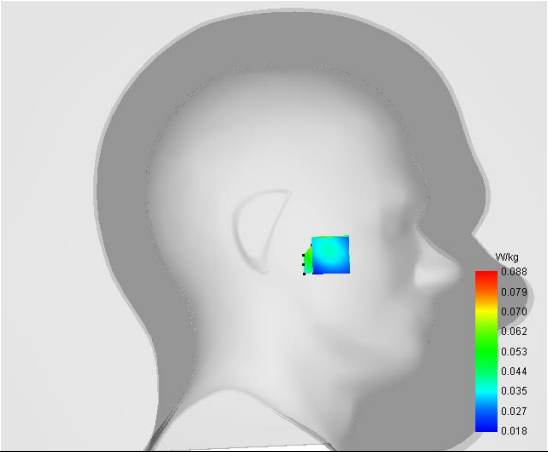
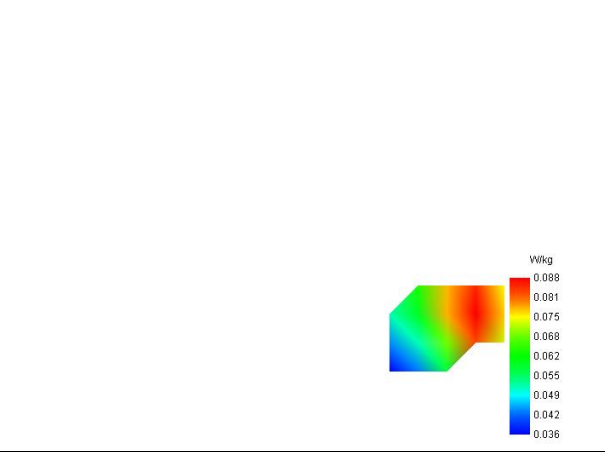
SAR 10g (W/Kg)	0.060032
SAR 1g (W/Kg)	0.083416

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1090	0.0877	0.0707	0.0574	0.0470



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 8

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

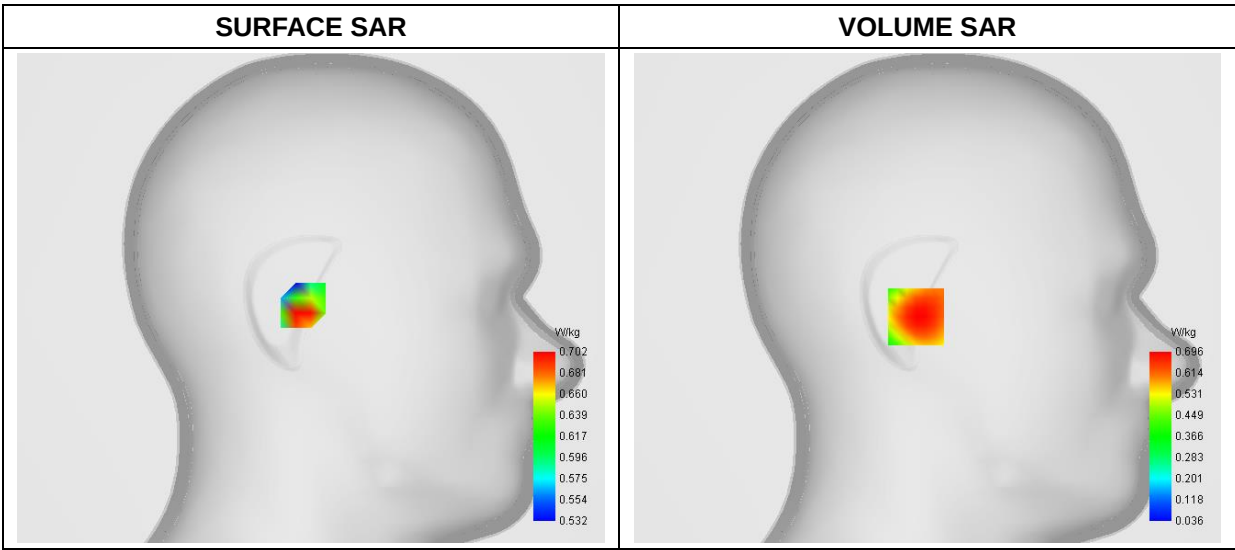
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1860.000000
Relative Permittivity (real part)	39.162612
Conductivity (S/m)	1.382369
Power Variation (%)	-1.344700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

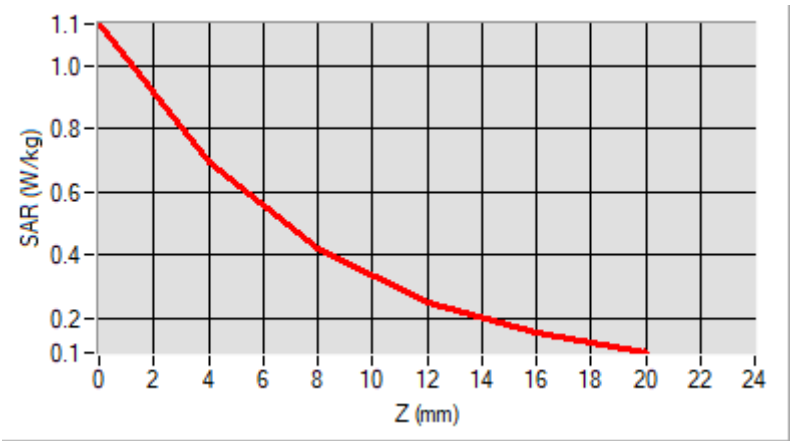


Maximum location: X=6.00, Y=-10.00
D. SAR 1g & 10g

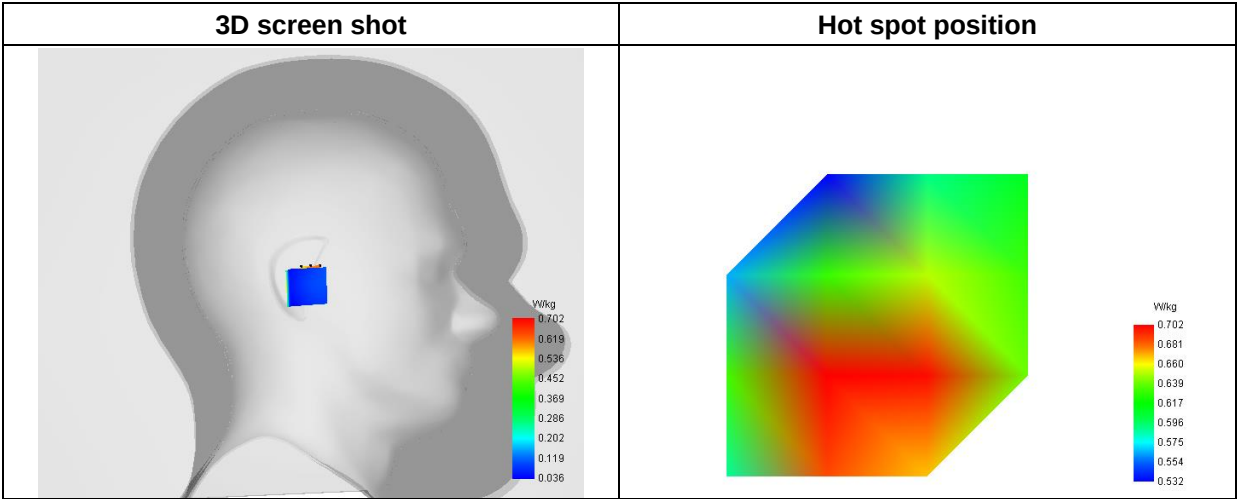
SAR 10g (W/Kg)	0.380982
SAR 1g (W/Kg)	0.664246

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.1309	0.6961	0.4193	0.2526	0.1549



F. 3D Image



MEASUREMENT 9

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

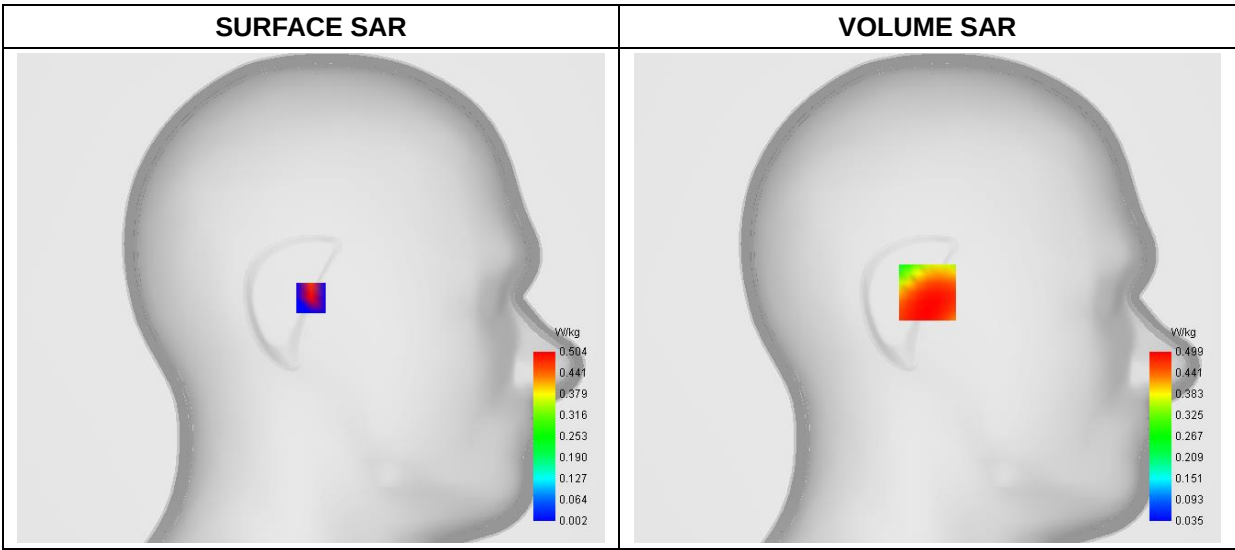
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative Permittivity (real part)	39.693275
Conductivity (S/m)	1.382987
Power Variation (%)	1.083500
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume



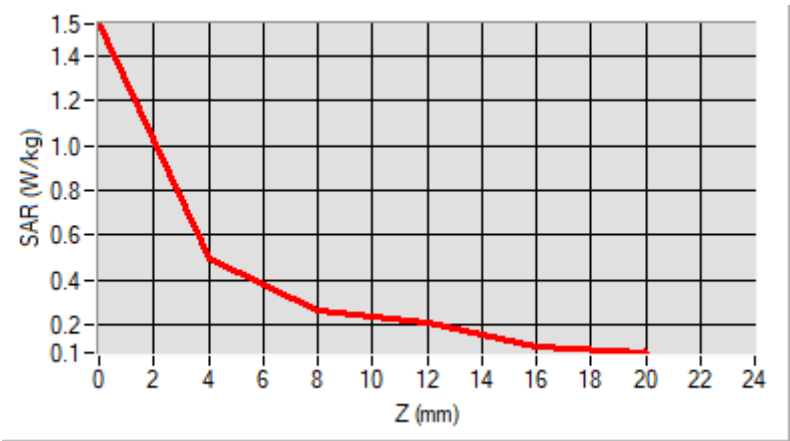
Maximum location: X=0.00, Y=3.00

D. SAR 1g & 10g

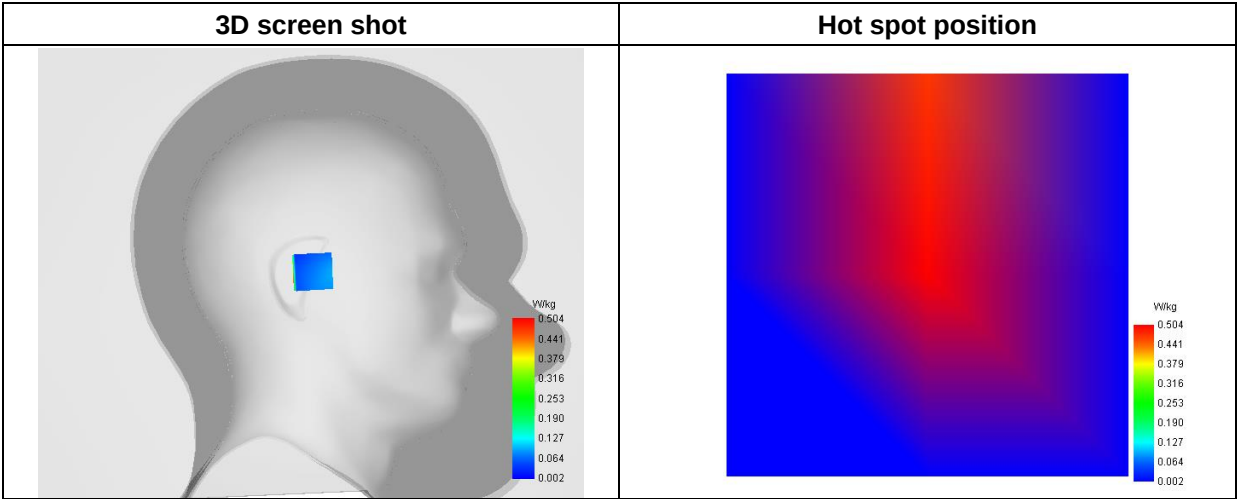
SAR 10g (W/Kg)	0.289963
SAR 1g (W/Kg)	0.477493

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.5383	0.4994	0.2654	0.2153	0.1073



F. 3D Image



MEASUREMENT 10

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

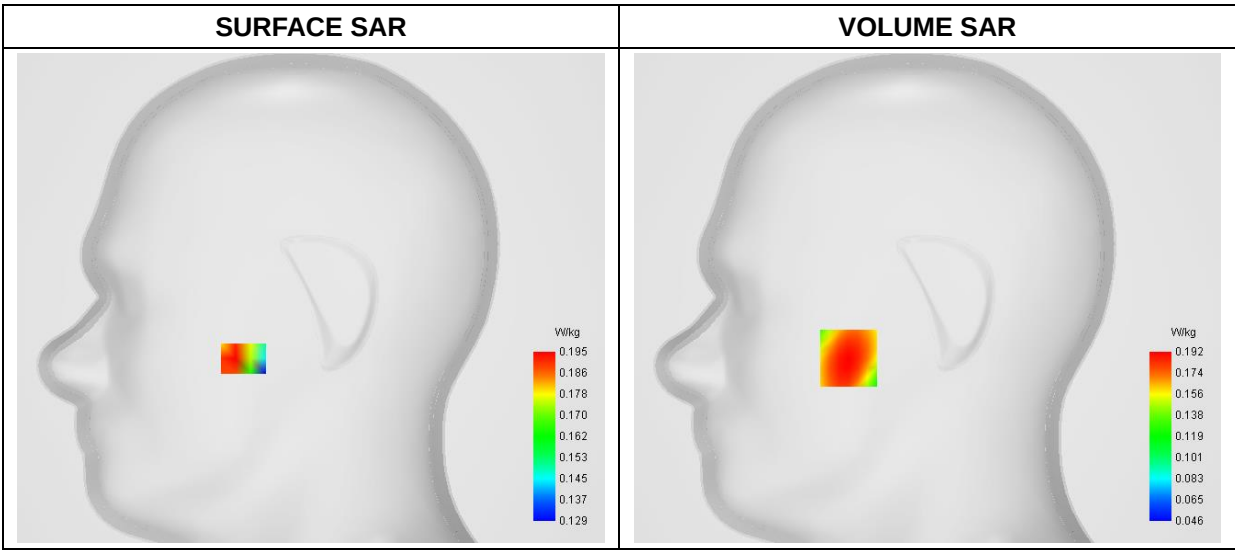
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative Permittivity (real part)	40.282245
Conductivity (S/m)	0.882459
Power Variation (%)	-0.872800
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

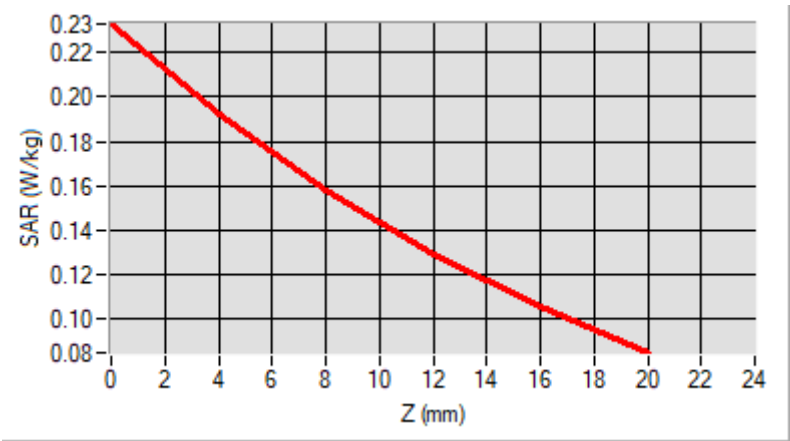


Maximum location: X=-42.00, Y=-32.00
D. SAR 1g & 10g

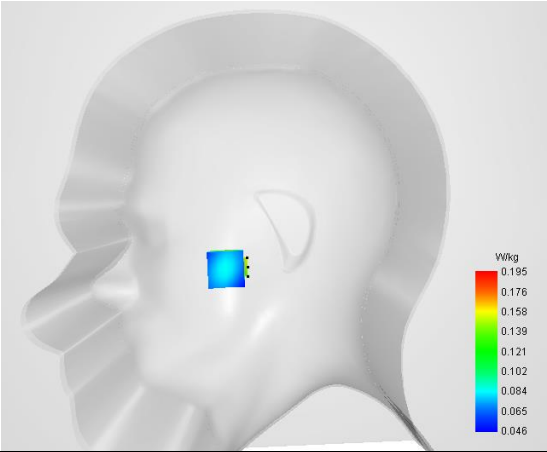
SAR 10g (W/Kg)	0.135602
SAR 1g (W/Kg)	0.184465

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2329	0.1923	0.1580	0.1294	0.1055



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 11

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

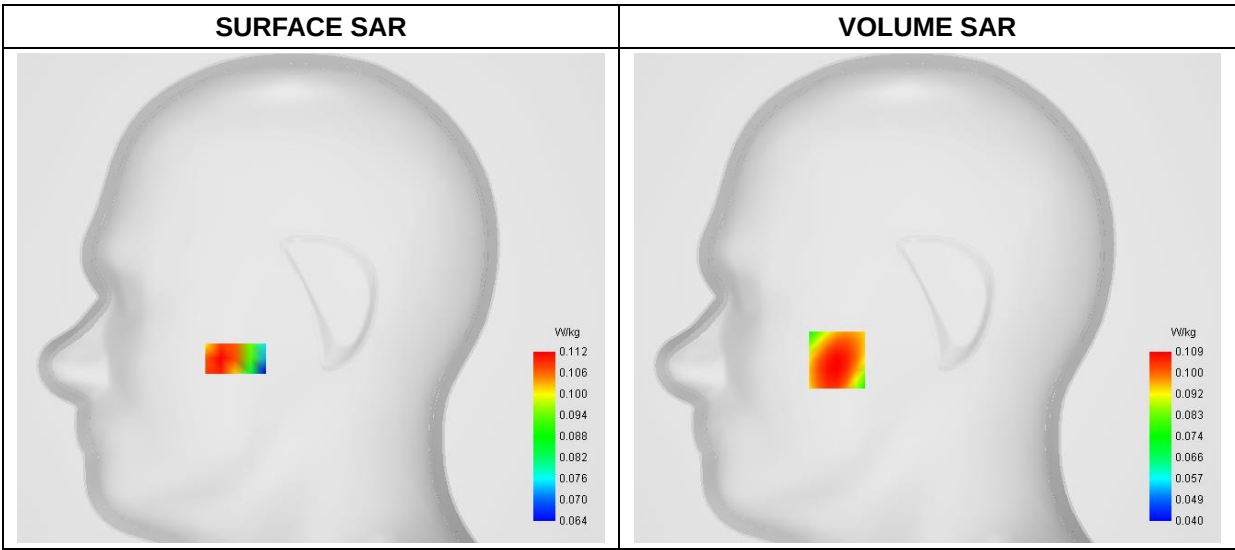
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	704.000000
Relative Permittivity (real part)	41.142661
Conductivity (S/m)	0.873182
Power Variation (%)	-1.174200
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

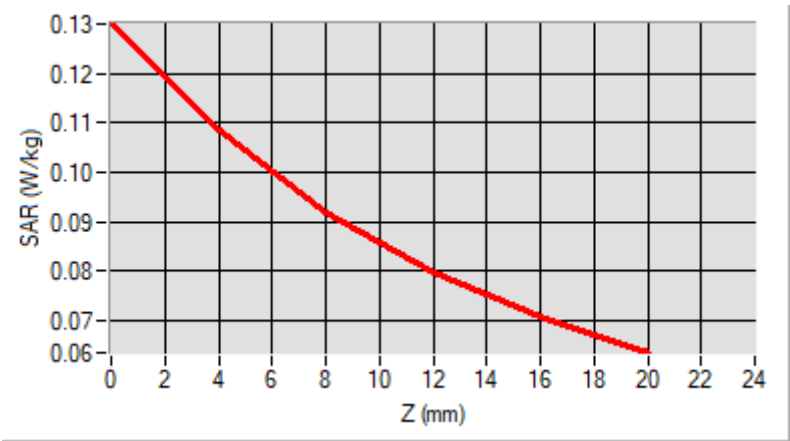


Maximum location: X=-48.00, Y=-33.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.085033
SAR 1g (W/Kg)	0.107910

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1300	0.1086	0.0920	0.0797	0.0707



F. 3D Image

3D screen shot	Hot spot position
A 3D rendering of a human head model. A small, rectangular, multi-colored hot spot is visible on the ear area. A color scale legend on the right indicates SAR values from 0.040 to 0.112 W/kg.	A rectangular image showing a color gradient from red to blue, representing the hot spot position. A color scale legend on the right indicates SAR values from 0.064 to 0.112 W/kg.

MEASUREMENT 12

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

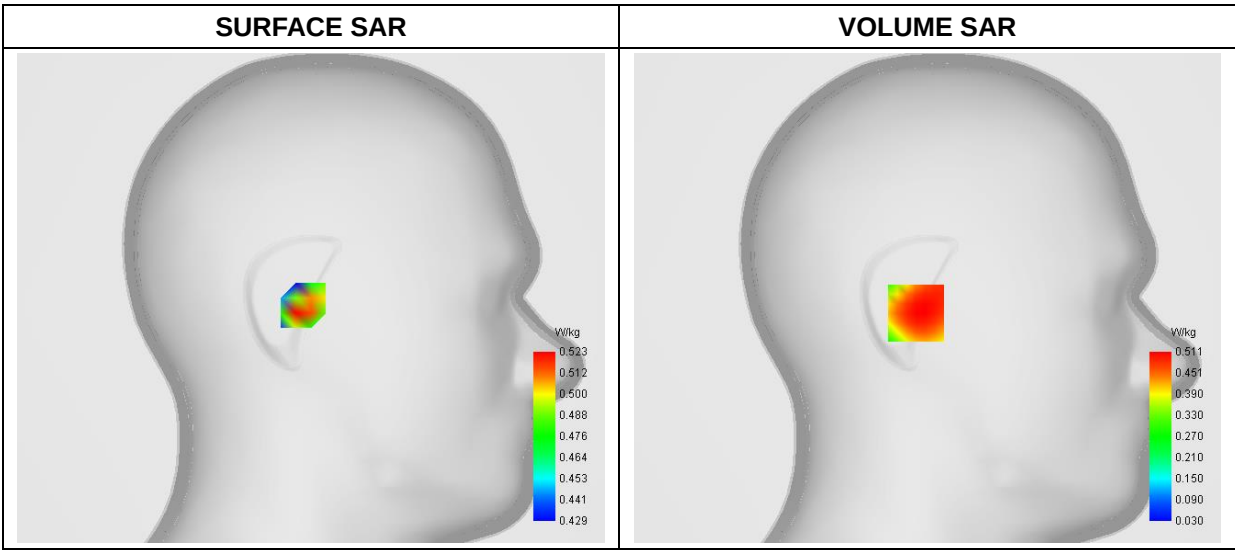
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1770.000000
Relative Permittivity (real part)	39.692668
Conductivity (S/m)	1.383696
Power Variation (%)	-1.054700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

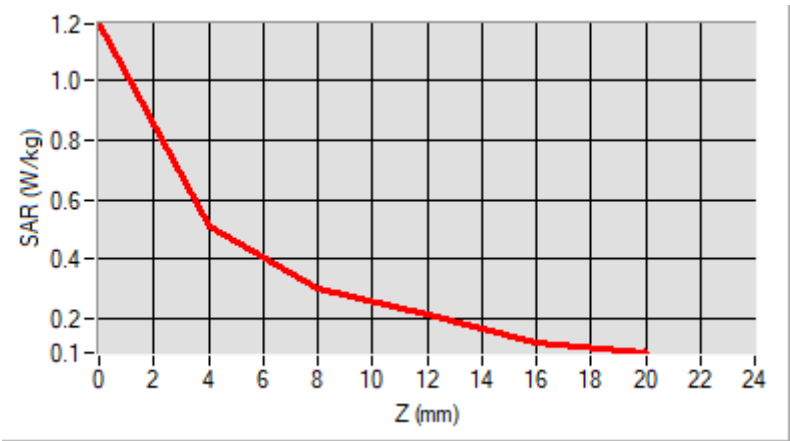


Maximum location: X=6.00, Y=-8.00
D. SAR 1g & 10g

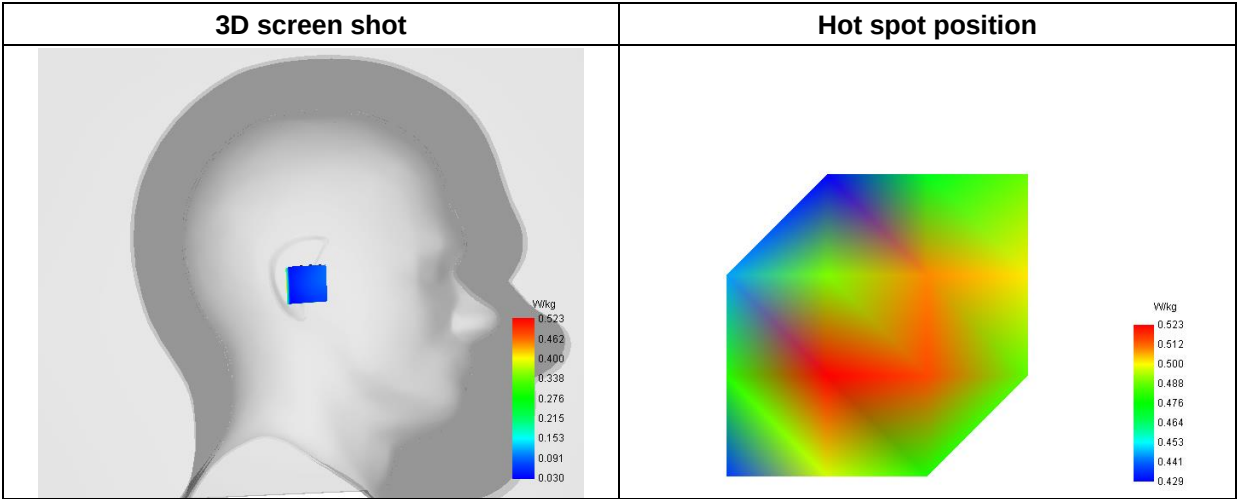
SAR 10g (W/Kg)	0.291917
SAR 1g (W/Kg)	0.490201

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.1923	0.5107	0.3019	0.2141	0.1132



F. 3D Image



MEASUREMENT 13

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

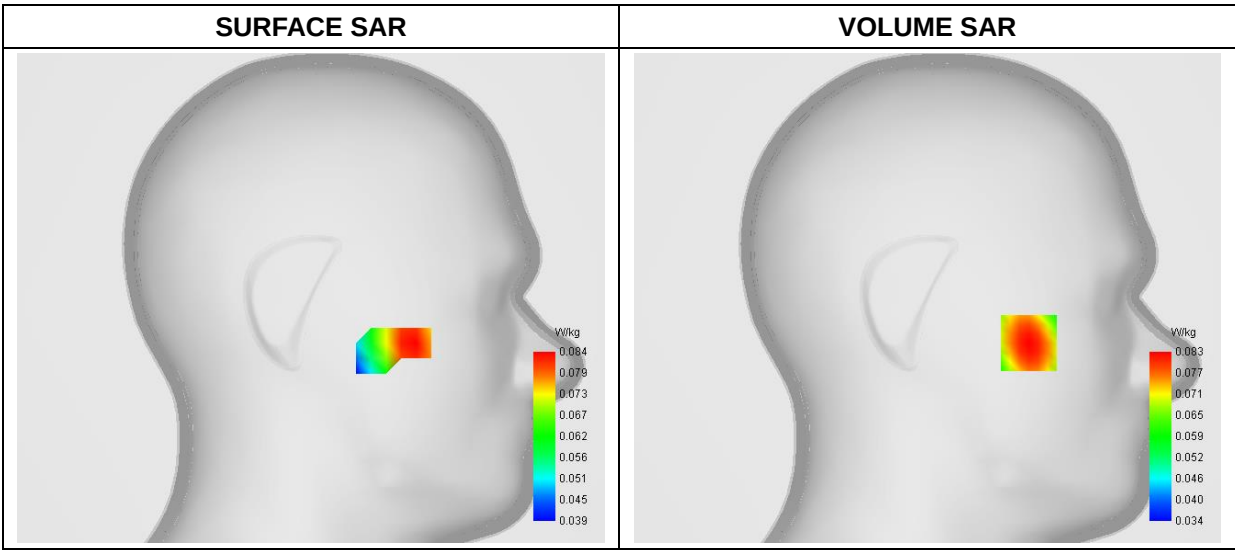
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	LTE Band 71
Channels	QPSK, 20MHz, 1RB, Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	673.000000
Relative Permittivity (real part)	41.142458
Conductivity (S/m)	0.871245
Power Variation (%)	-0.874700
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

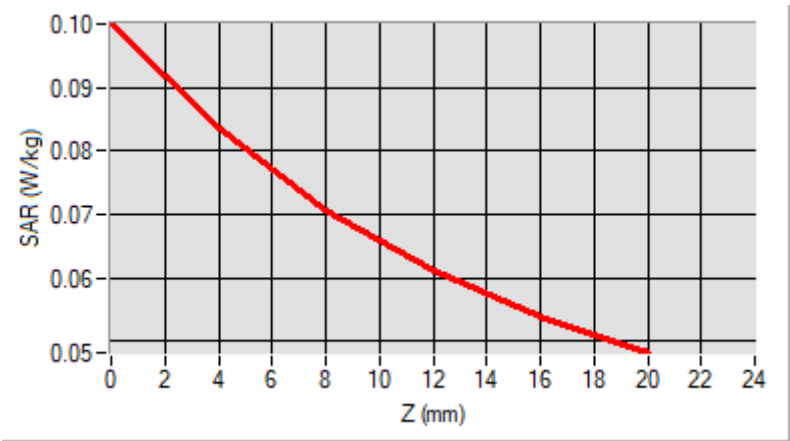


Maximum location: X=-54.00, Y=-24.00
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.064816
SAR 1g (W/Kg)	0.082432

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0999	0.0835	0.0707	0.0611	0.0540



F. 3D Image

3D screen shot	Hot spot position
A 3D model of a human head in profile, showing the distribution of SAR (W/kg) across the head. A color scale on the right indicates values from 0.034 (blue) to 0.084 (red). The highest SAR values are concentrated in the ear area.	A 3D model of a hot spot position, showing the distribution of SAR (W/kg) across the hot spot. A color scale on the right indicates values from 0.039 (blue) to 0.084 (red). The highest SAR values are concentrated in the hot spot area.

MEASUREMENT 14

Type: Phone measurement (Complete)
Date of measurement: 2023-06-24
Measurement duration: 12 minutes 3 seconds

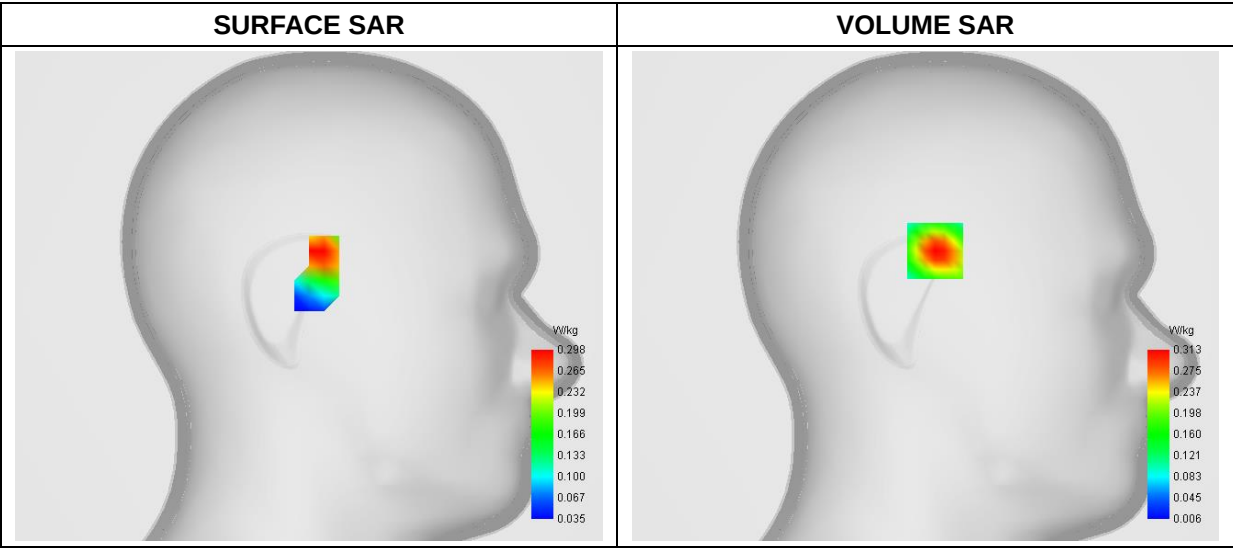
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative Permittivity (real part)	38.371301
Conductivity (S/m)	1.782638
Power Variation (%)	-1.964100
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

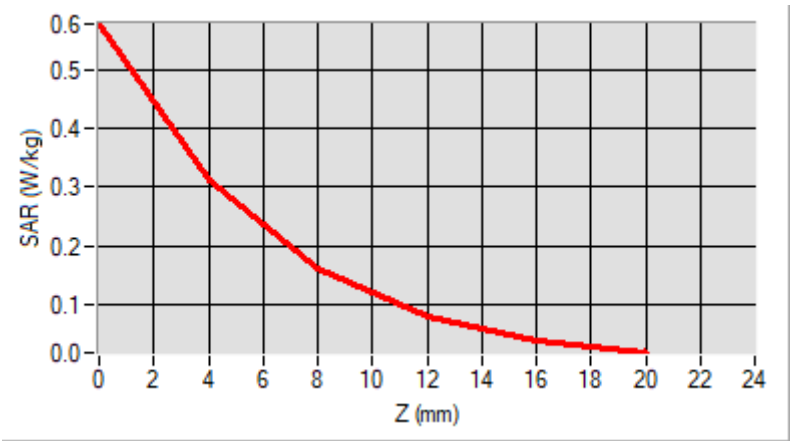


Maximum location: X=-5.00, Y=24.00
D. SAR 1g & 10g

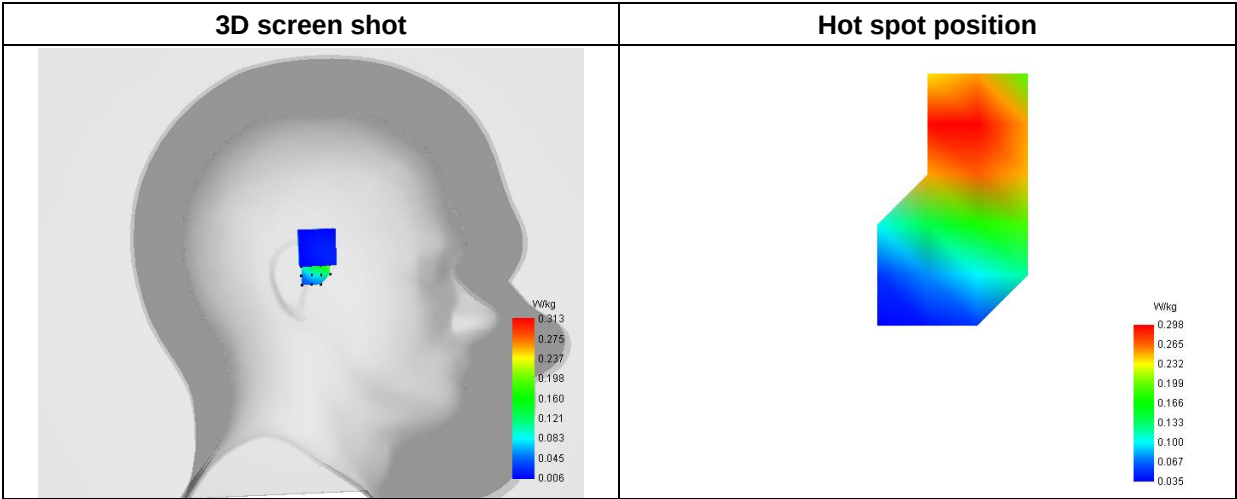
SAR 10g (W/Kg)	0.138097
SAR 1g (W/Kg)	0.290261

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5785	0.3134	0.1606	0.0799	0.0398



F. 3D Image



MEASUREMENT 15

Type: Phone measurement (Complete)
Date of measurement: 2023-06-24
Measurement duration: 12 minutes 3 seconds

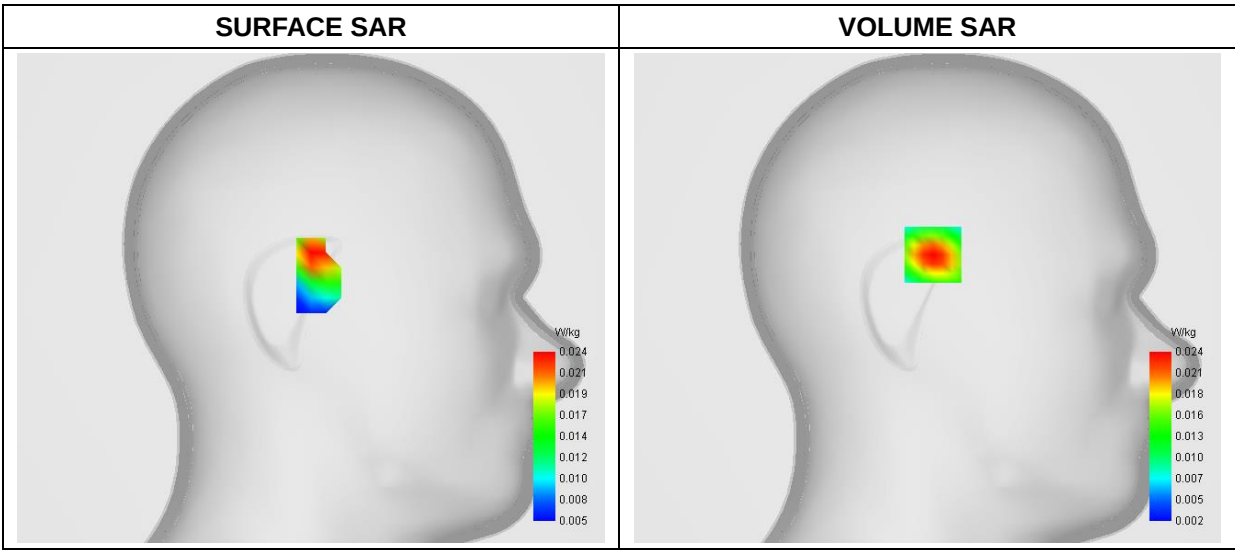
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2480.000000
Relative Permittivity (real part)	38.372521
Conductivity (S/m)	1.783828
Power Variation (%)	1.961100
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

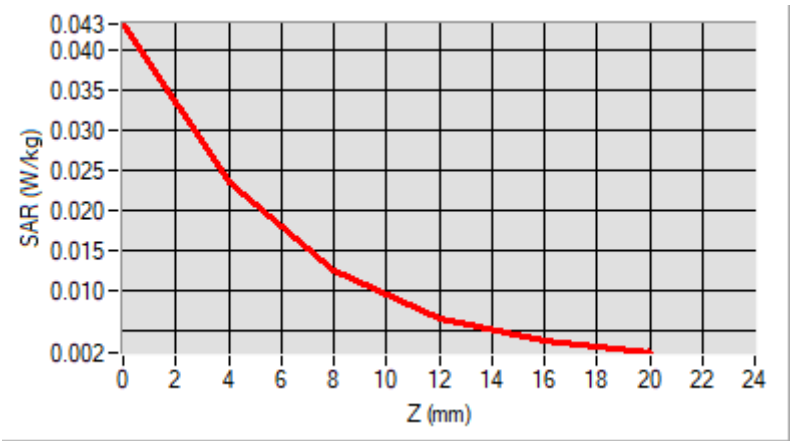


Maximum location: X=-3.00, Y=23.00
D. SAR 1g & 10g

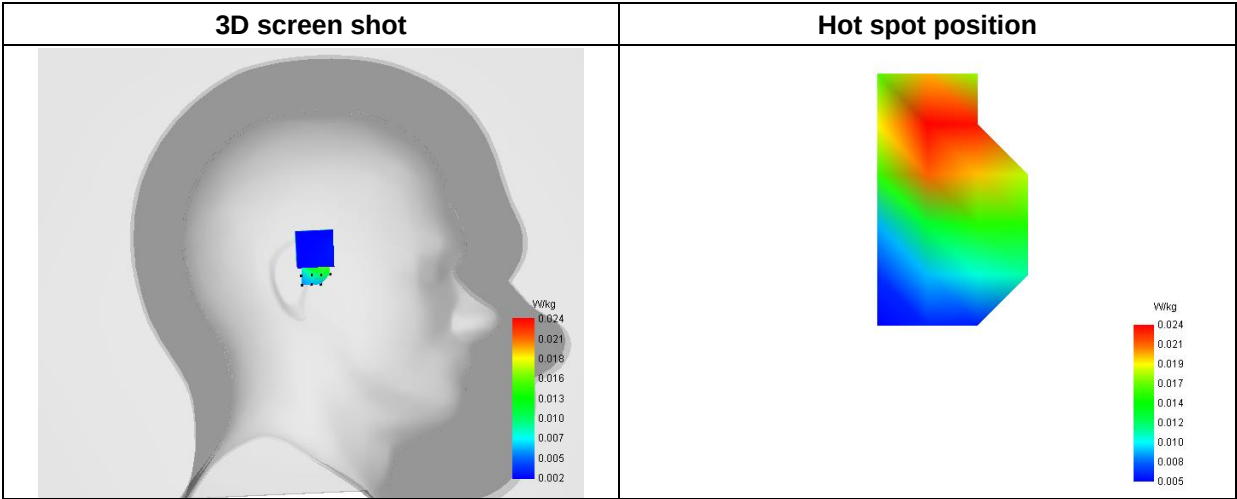
SAR 10g (W/Kg)	0.011281
SAR 1g (W/Kg)	0.022270

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0434	0.0237	0.0125	0.0067	0.0039



F. 3D Image



MEASUREMENT 16

Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

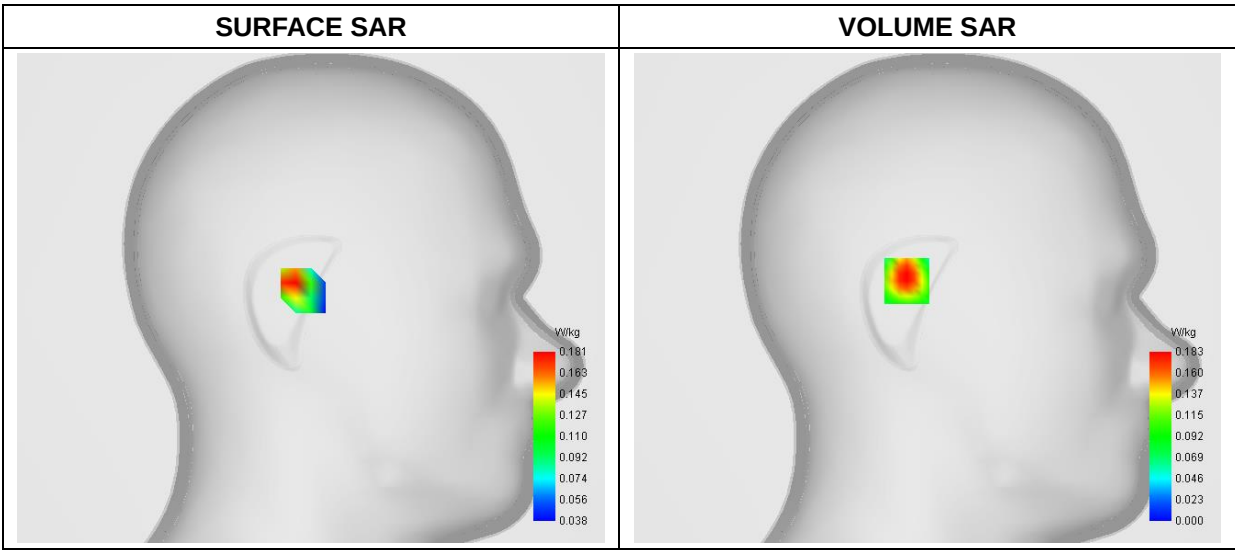
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.2GHz)_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5180.000000
Relative Permittivity (real part)	36.563869
Conductivity (S/m)	4.631611
Power Variation (%)	-1.157400
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

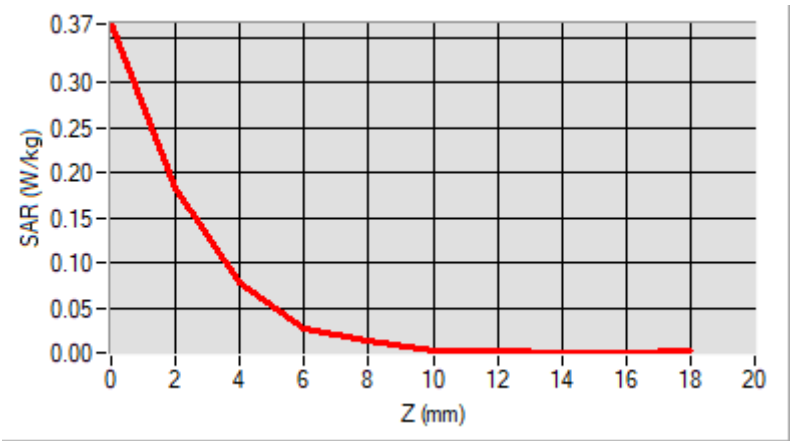


Maximum location: X=11.00, Y=9.00
D. SAR 1g & 10g

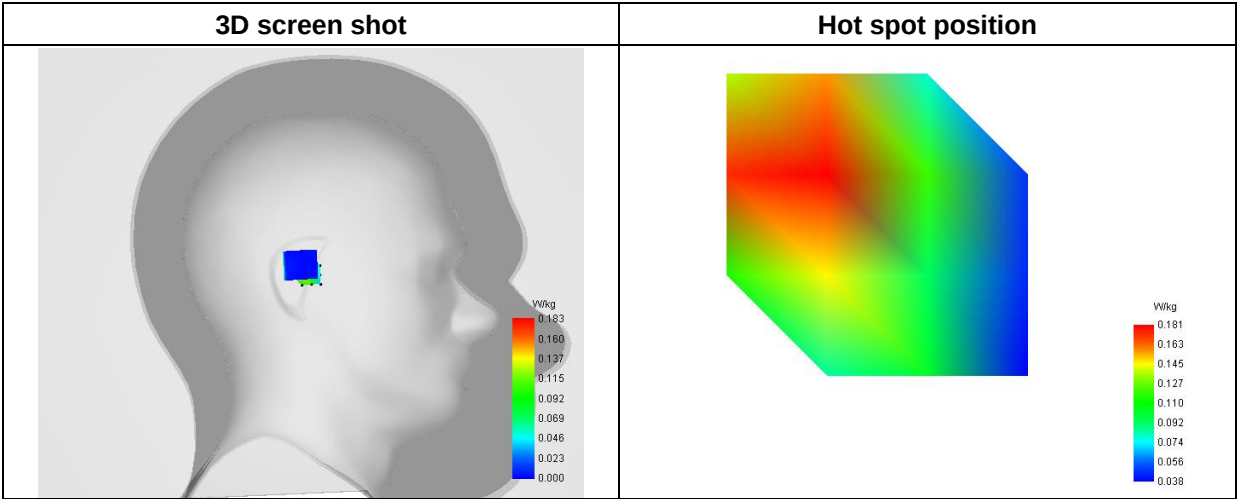
SAR 10g (W/Kg)	0.075952
SAR 1g (W/Kg)	0.203909

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.3651	0.1832	0.0783	0.0281	0.0135	0.0022	0.0025	0.0006	0.0014



F. 3D Image



MEASUREMENT 17

Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

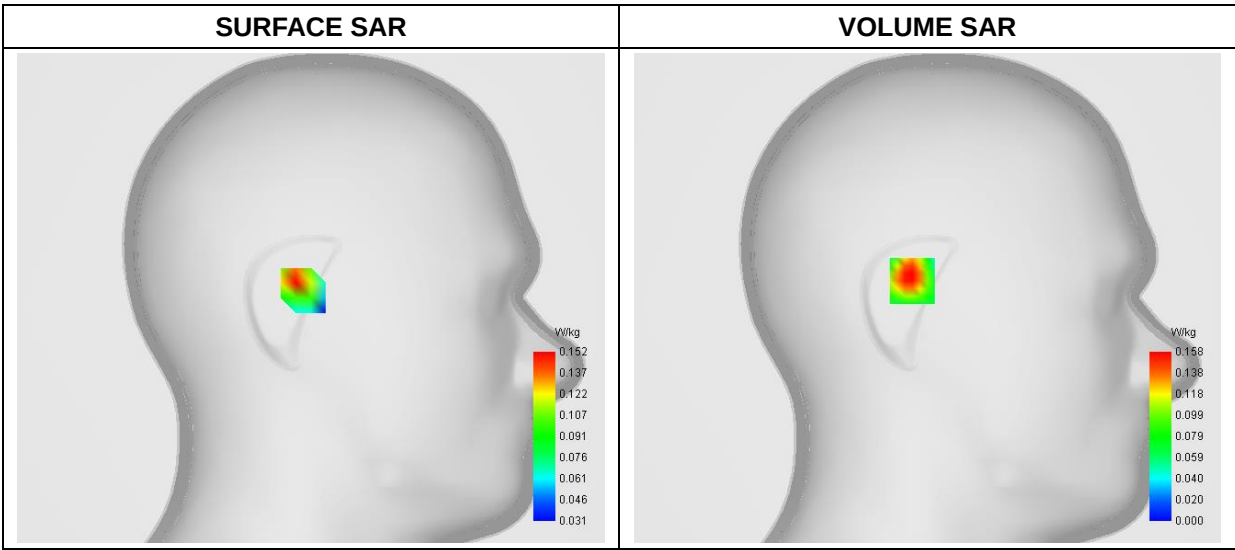
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.3GHz)_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5260.000000
Relative Permittivity (real part)	36.562839
Conductivity (S/m)	4.631926
Power Variation (%)	0.464100
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

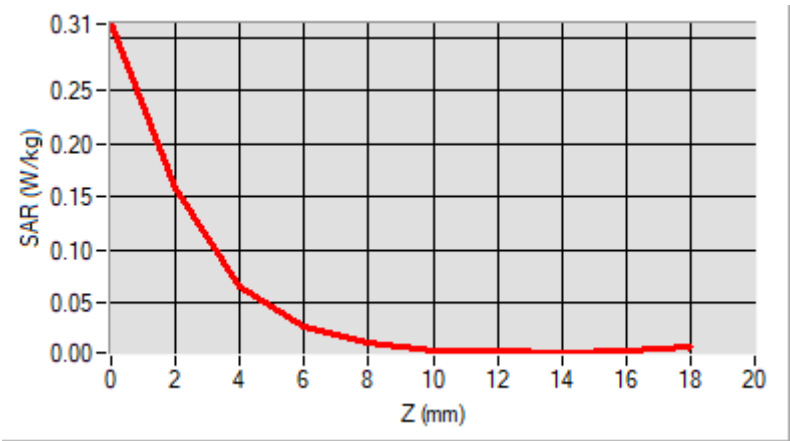


Maximum location: X=8.00, Y=9.00
D. SAR 1g & 10g

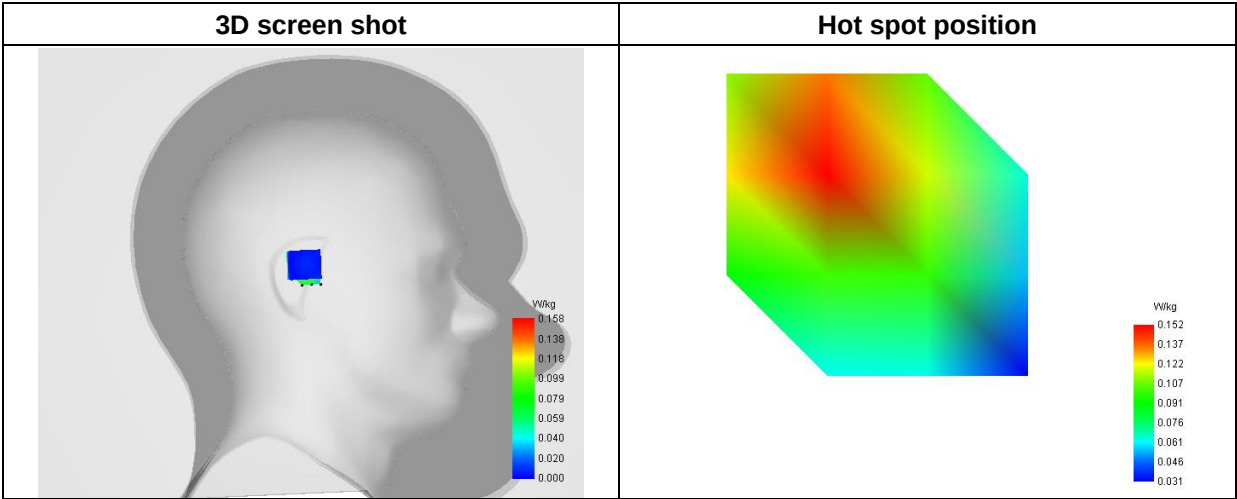
SAR 10g (W/Kg)	0.065733
SAR 1g (W/Kg)	0.175239

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.3126	0.1577	0.0662	0.0286	0.0135	0.0046	0.0046	0.0031	0.0053



F. 3D Image



MEASUREMENT 18

Type: Phone measurement (Complete)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 21 seconds

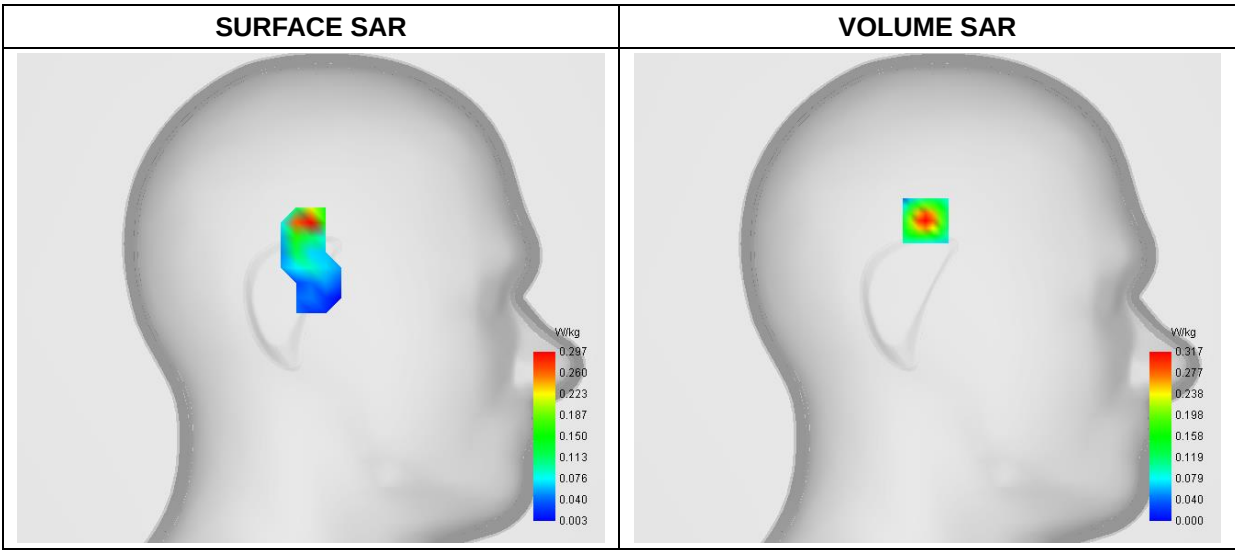
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.6GHz)_802.11n(40MHz)
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5550.000000
Relative Permittivity (real part)	36.392963
Conductivity (S/m)	5.112781
Power Variation (%)	-1.844100
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

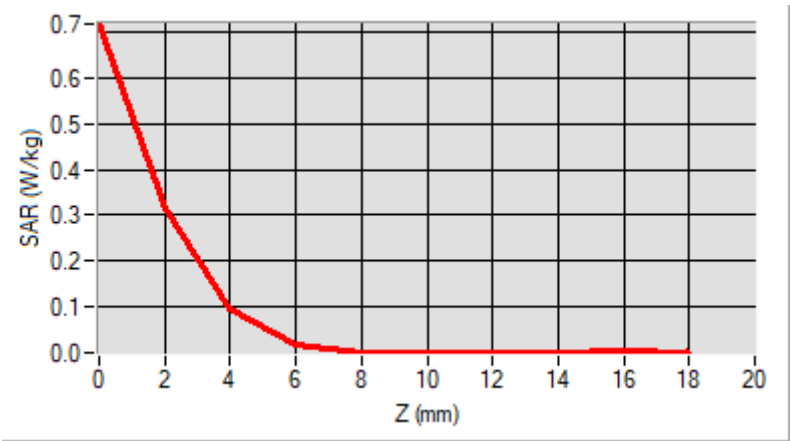


Maximum location: X=1.00, Y=41.00
D. SAR 1g & 10g

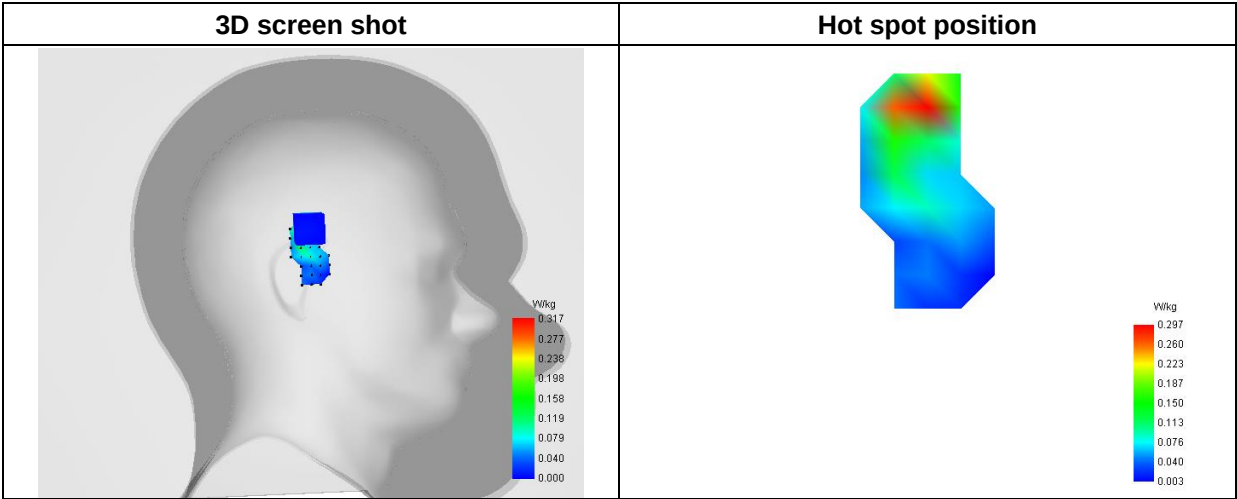
SAR 10g (W/Kg)	0.111732
SAR 1g (W/Kg)	0.369739

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7175	0.3167	0.0980	0.0167	0.0002	0.0009	0.0007	0.0005	0.0037



F. 3D Image



MEASUREMENT 19

Type: Phone measurement (Complete)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 21 seconds

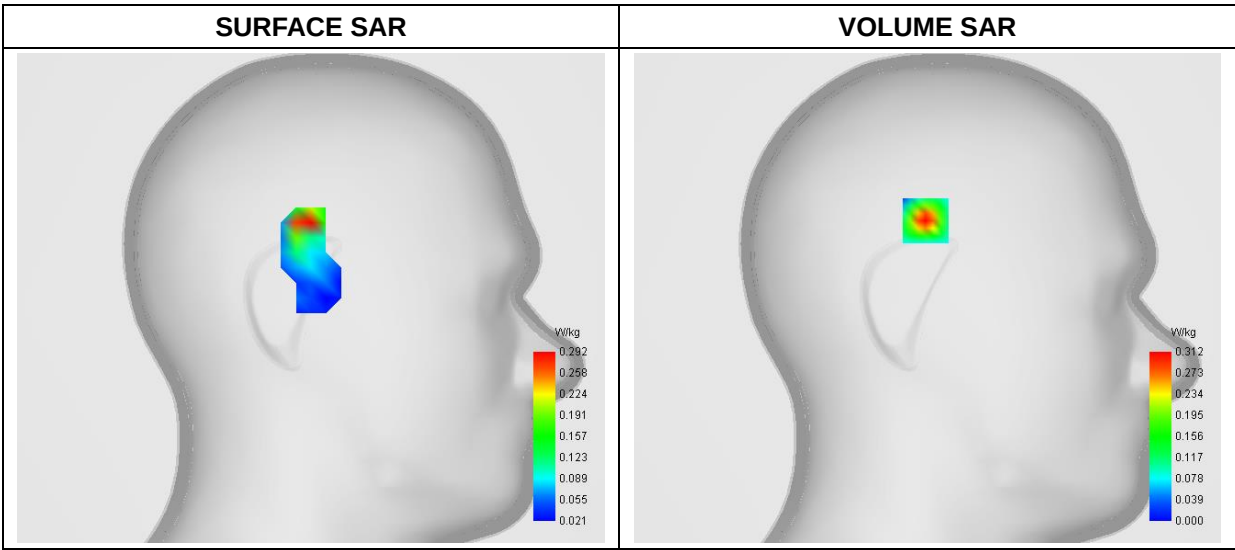
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=4mm dy=4mm dz=2mm
Phantom	Left Head
Device Position	Cheek
Band	WiFi(5.8GHz)_802.11a
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5825.000000
Relative Permittivity (real part)	34.752273
Conductivity (S/m)	5.293836
Power Variation (%)	-1.294100
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

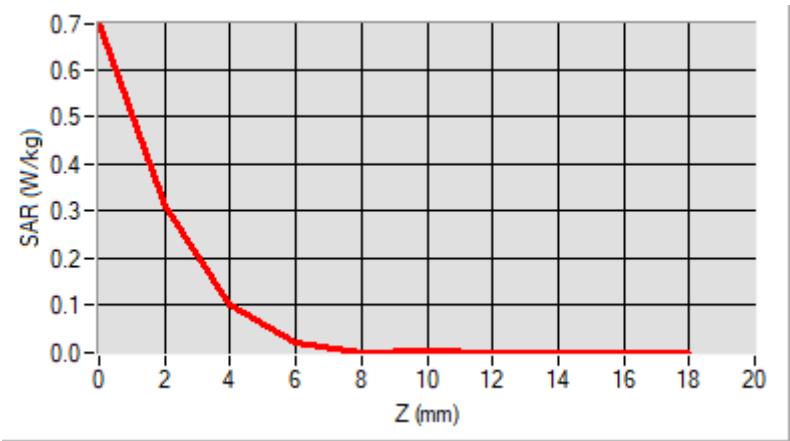


Maximum location: X=1.00, Y=41.00
D. SAR 1g & 10g

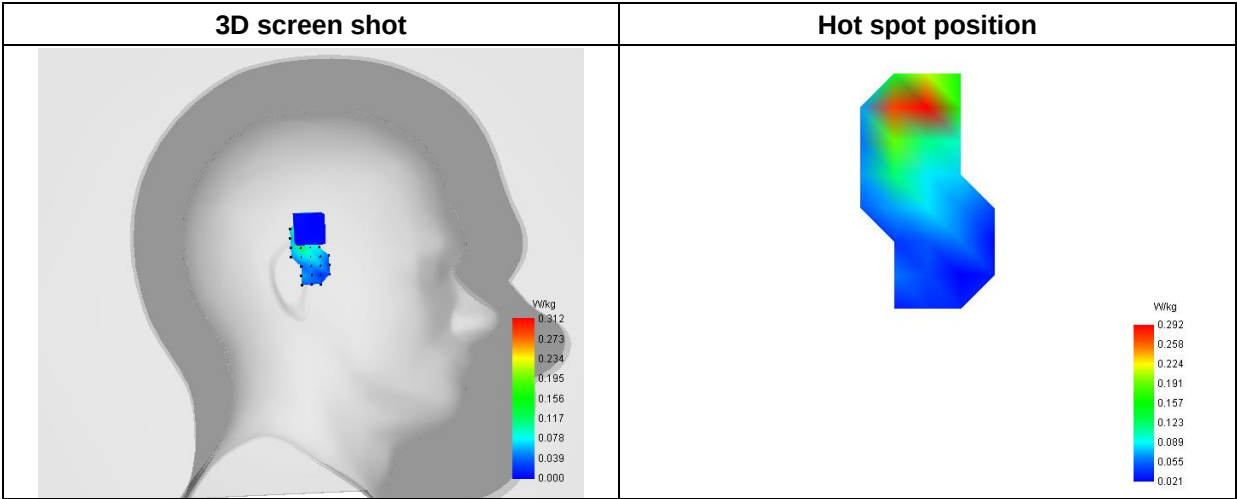
SAR 10g (W/Kg)	0.105773
SAR 1g (W/Kg)	0.353807

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.6969	0.3123	0.1032	0.0207	0.0009	0.0030	0.0015	0.0016	0.0021



F. 3D Image



MEASUREMENT 20

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

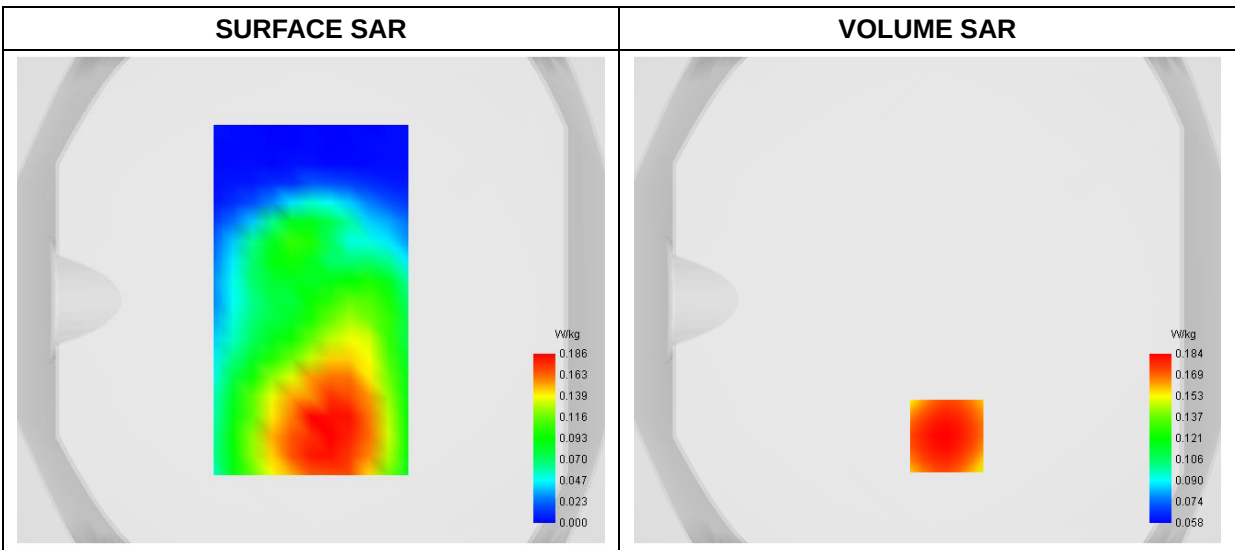
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	824.200000
Relative Permittivity (real part)	41.142459
Conductivity (S/m)	0.871245
Power Variation (%)	0.727200
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

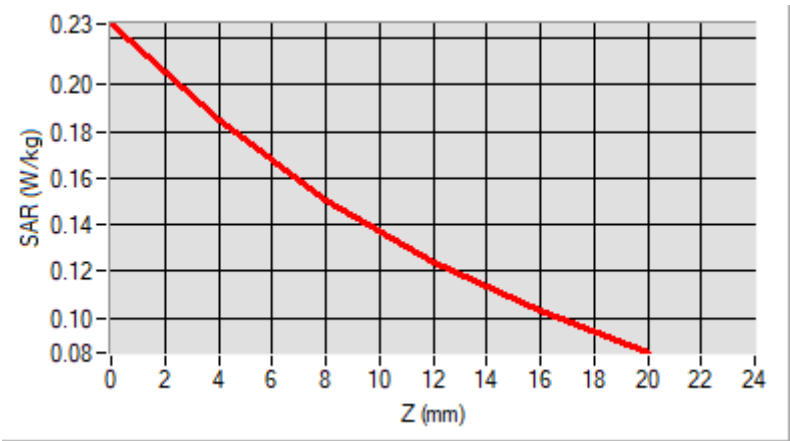


Maximum location: X=8.00, Y=-56.00
D. SAR 1g & 10g

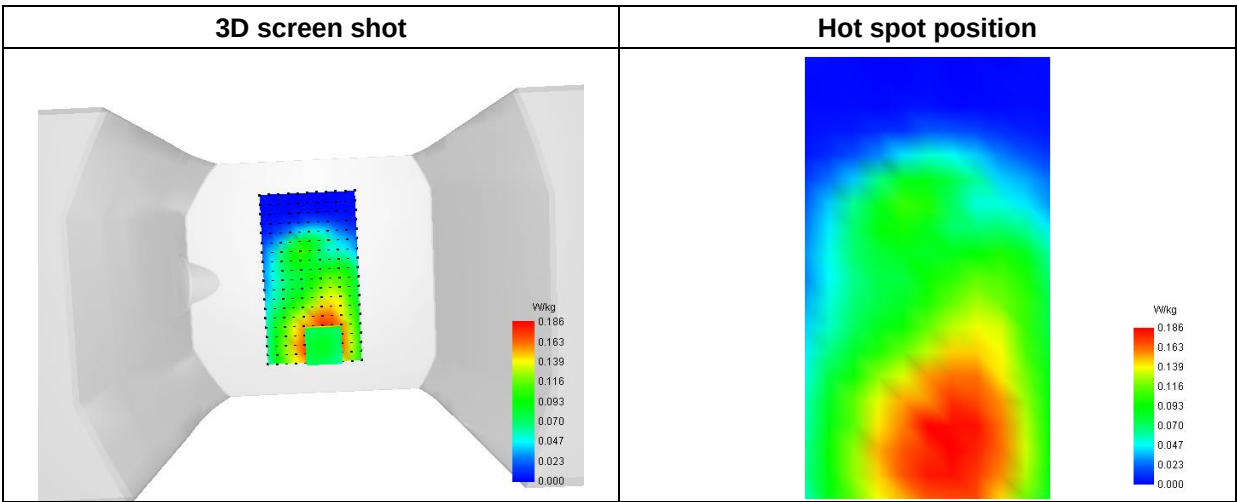
SAR 10g (W/Kg)	0.134173
SAR 1g (W/Kg)	0.178299

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2262	0.1845	0.1508	0.1242	0.1029



F. 3D Image



MEASUREMENT 21

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

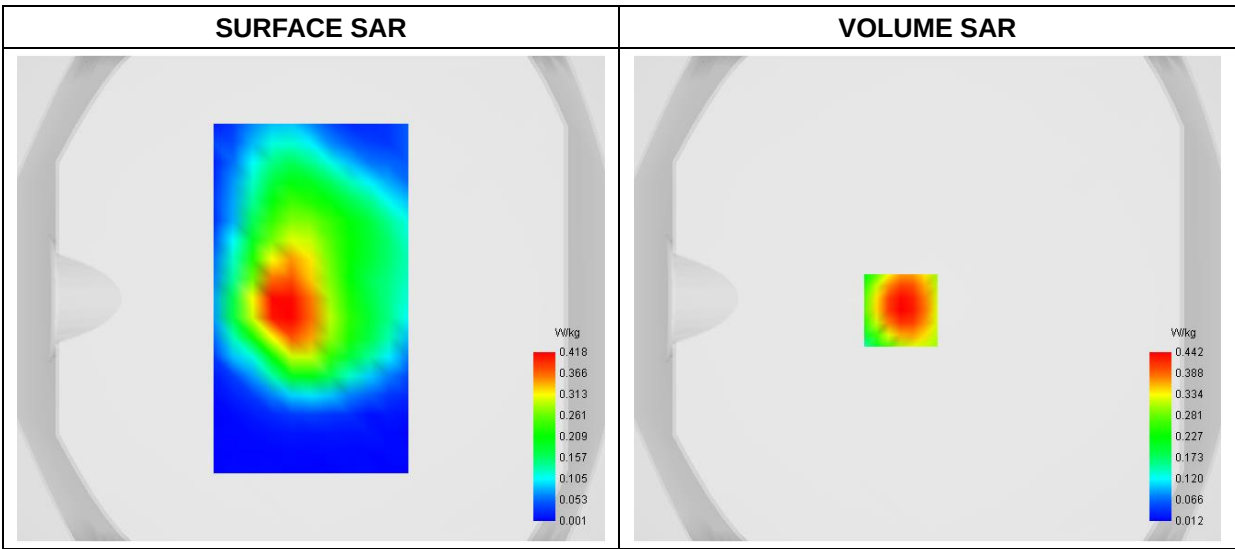
A. Experimental conditions

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)	39.692459
Conductivity (S/m)	1.381255
Power Variation (%)	-1.147100
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

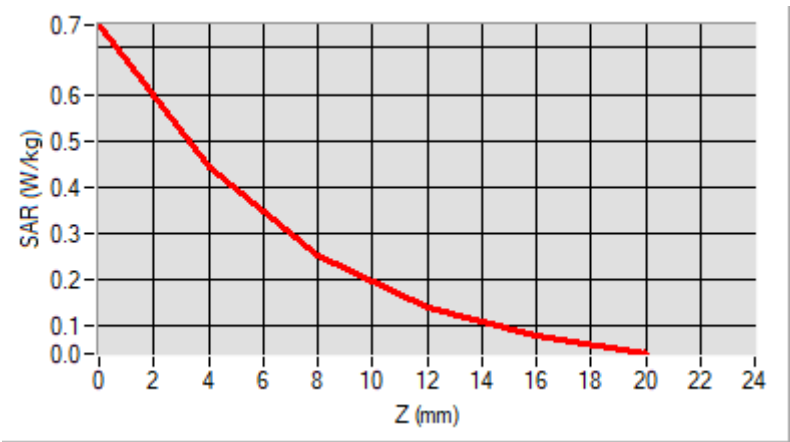


Maximum location: X=-11.00, Y=-5.00
D. SAR 1g & 10g

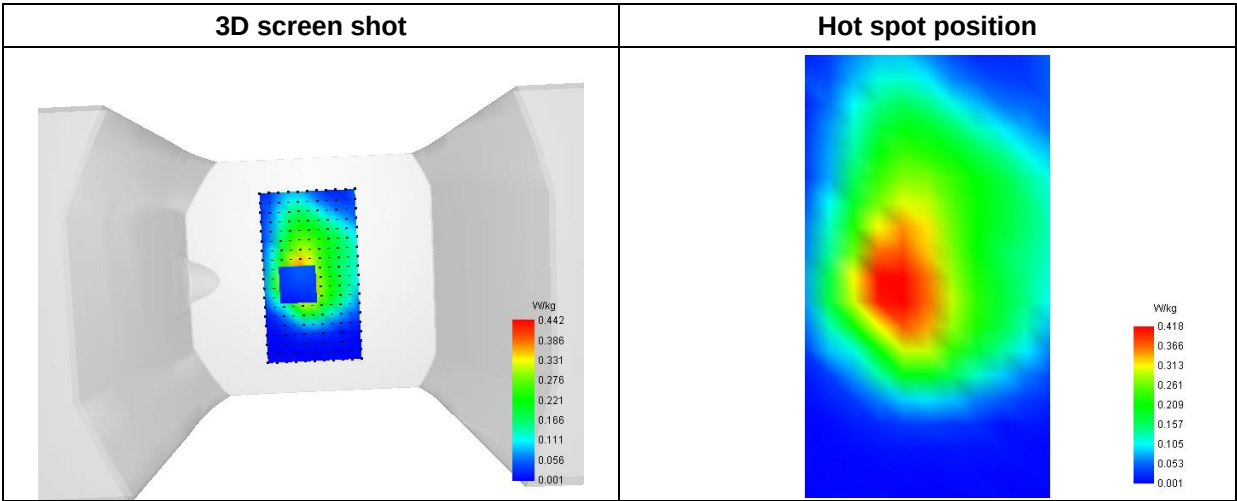
SAR 10g (W/Kg)	0.223689
SAR 1g (W/Kg)	0.417563

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.7492	0.4416	0.2514	0.1411	0.0794



F. 3D Image



MEASUREMENT 22

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

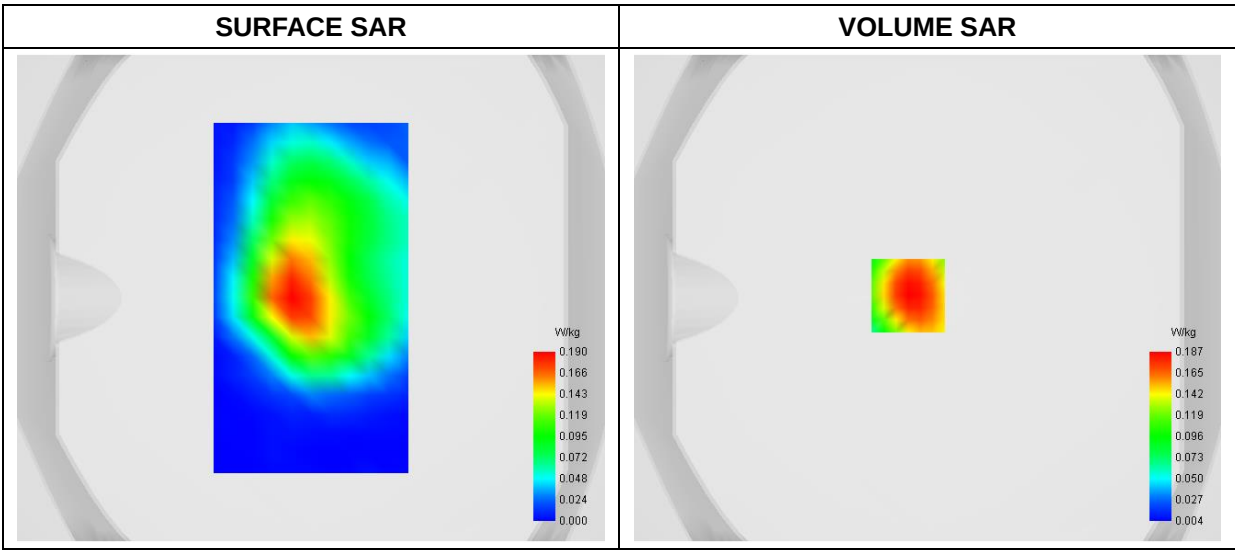
A. Experimental conditions

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)	39.691249
Conductivity (S/m)	1.383607
Power Variation (%)	-0.441700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

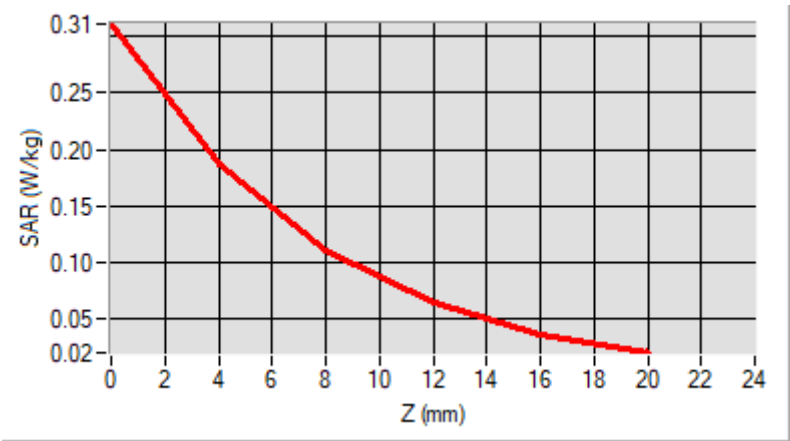


Maximum location: X=-8.00, Y=1.00
D. SAR 1g & 10g

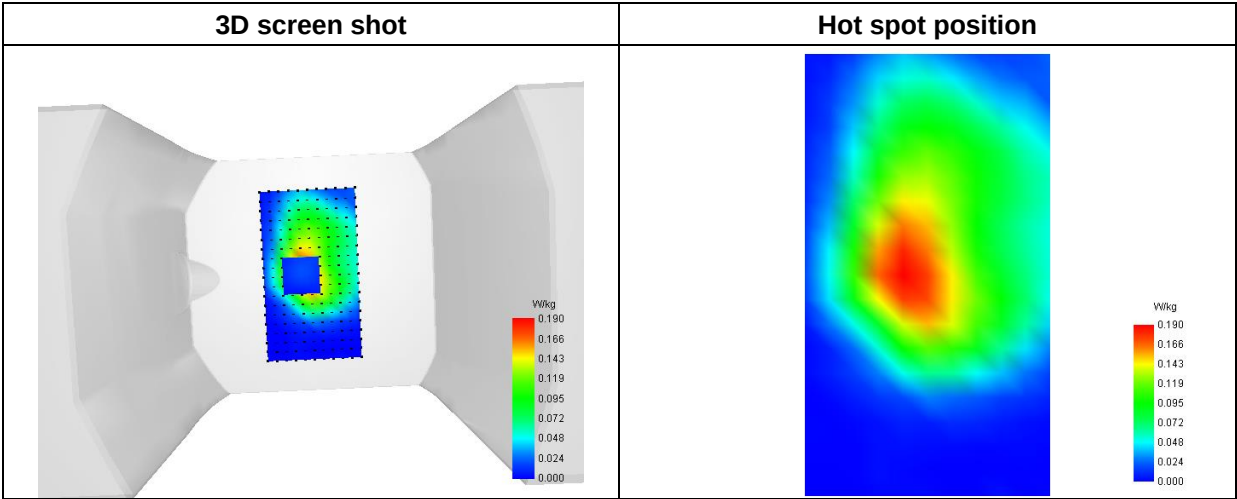
SAR 10g (W/Kg)	0.095671
SAR 1g (W/Kg)	0.177923

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3113	0.1875	0.1094	0.0629	0.0361



F. 3D Image



MEASUREMENT 23

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

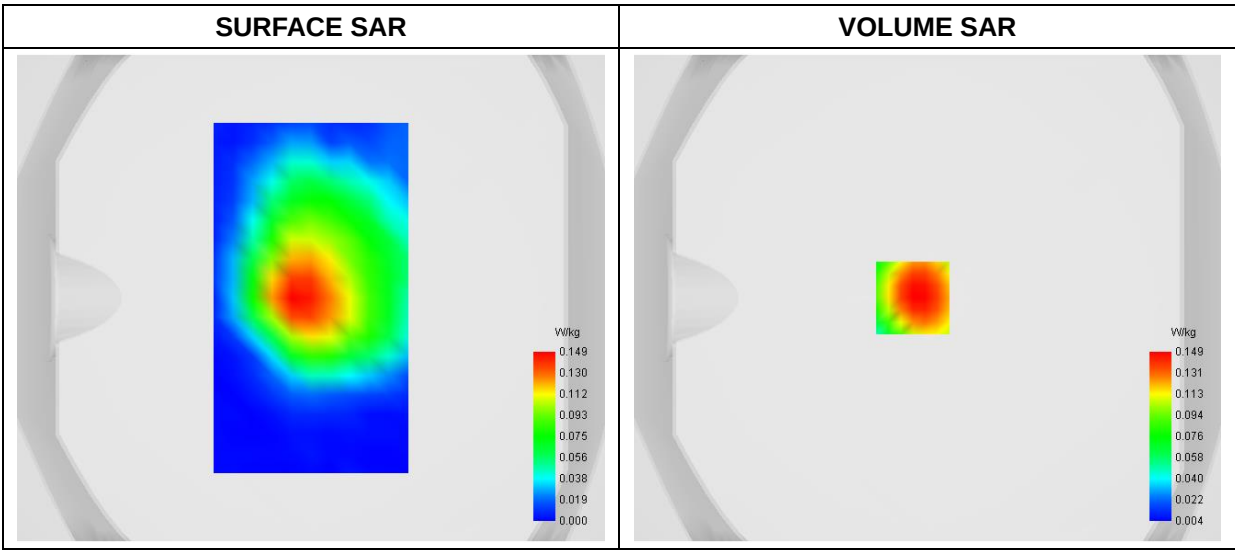
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1712.400000
Relative Permittivity (real part)	39.693245
Conductivity (S/m)	1.383245
Power Variation (%)	-0.471400
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

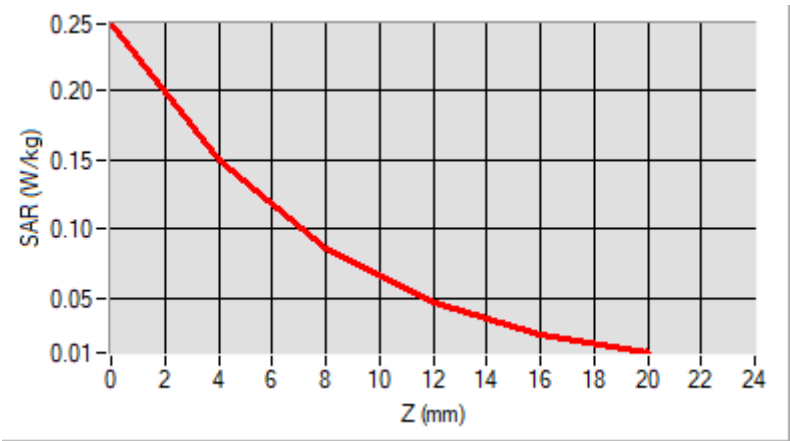


Maximum location: X=-6.00, Y=0.00
D. SAR 1g & 10g

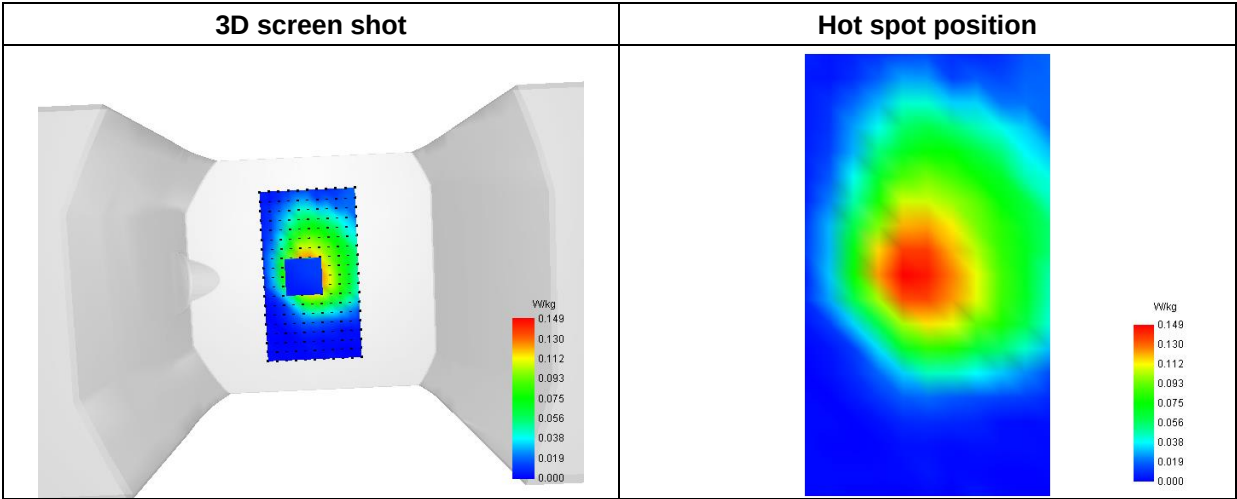
SAR 10g (W/Kg)	0.076118
SAR 1g (W/Kg)	0.141902

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2480	0.1487	0.0851	0.0465	0.0239



F. 3D Image



MEASUREMENT 24

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

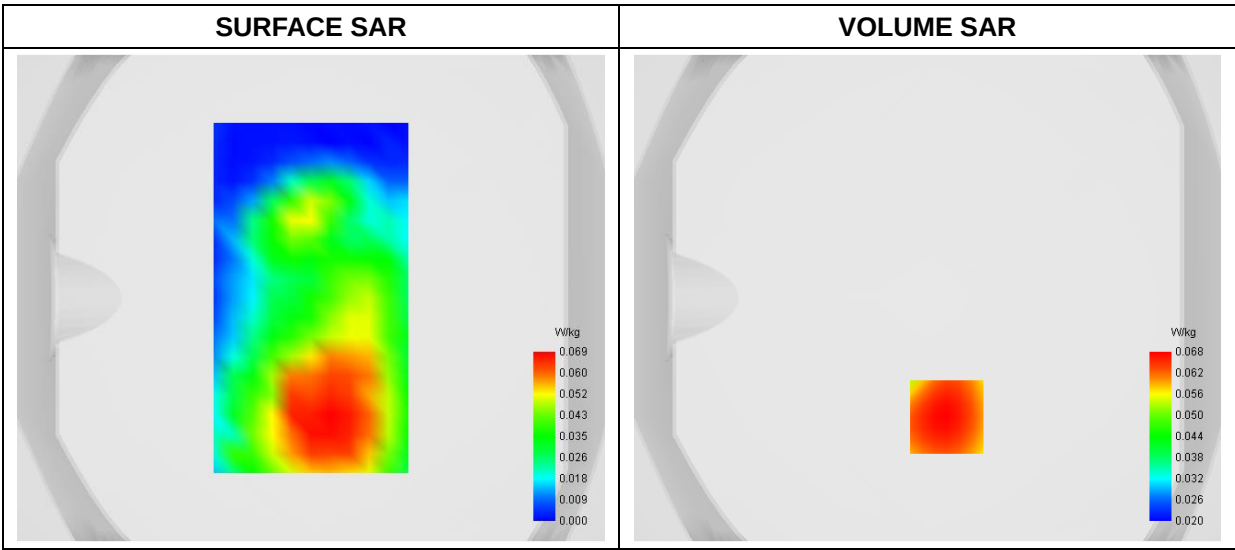
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	846.600000
Relative Permittivity (real part)	40.283245
Conductivity (S/m)	0.882485
Power Variation (%)	-1.347100
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

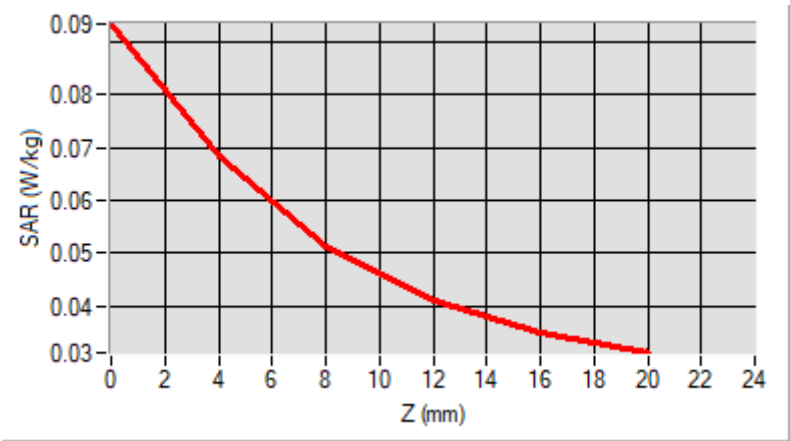


Maximum location: X=8.00, Y=-49.00
D. SAR 1g & 10g

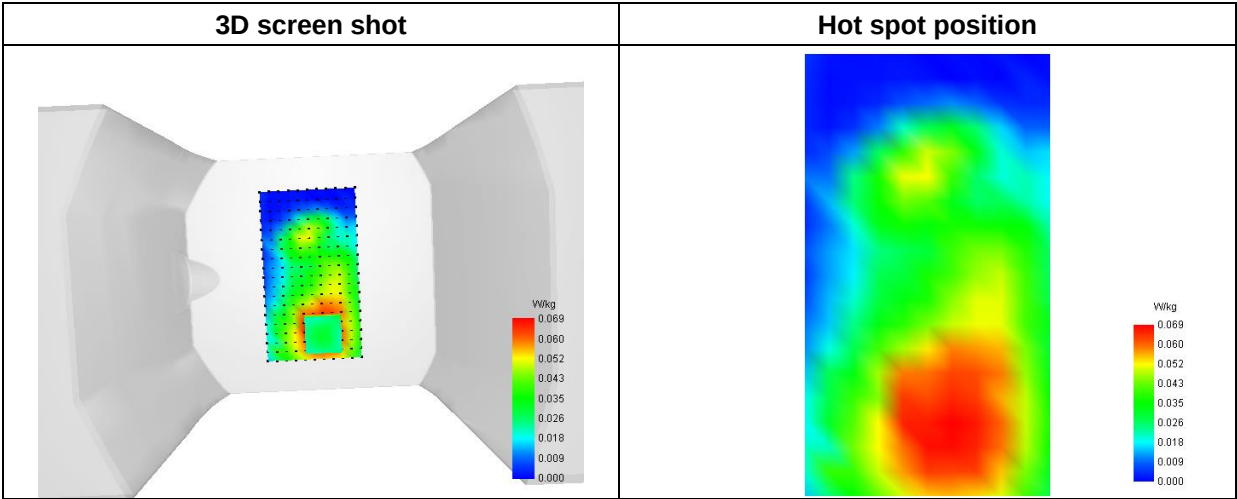
SAR 10g (W/Kg)	0.047732
SAR 1g (W/Kg)	0.065940

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0935	0.0682	0.0513	0.0409	0.0350



F. 3D Image



MEASUREMENT 25

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

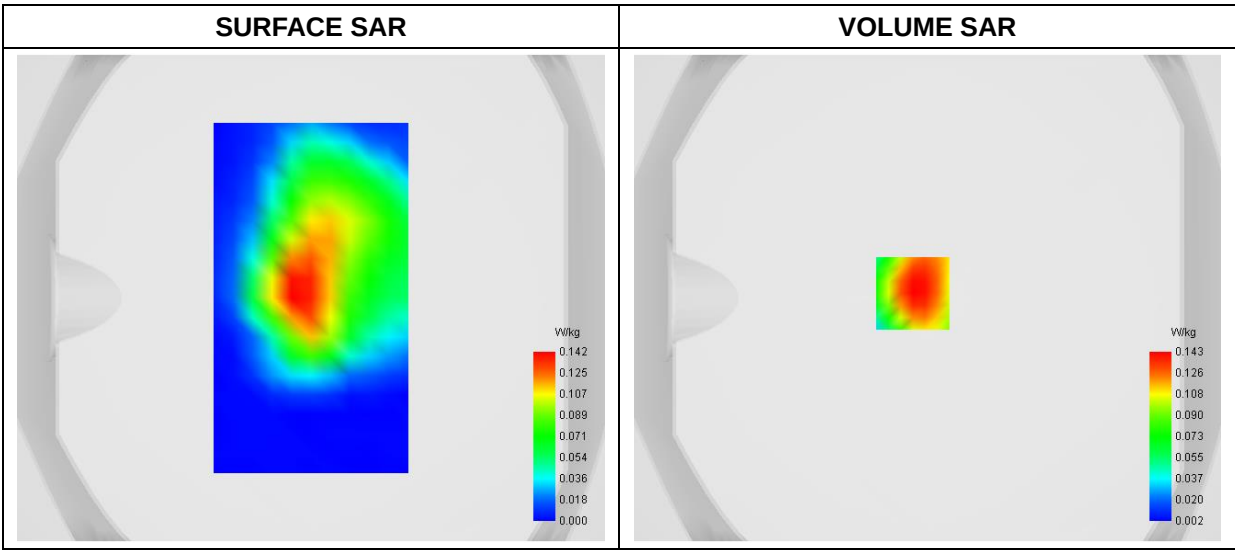
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1860.000000
Relative Permittivity (real part)	39.162612
Conductivity (S/m)	1.382369
Power Variation (%)	-0.194100
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

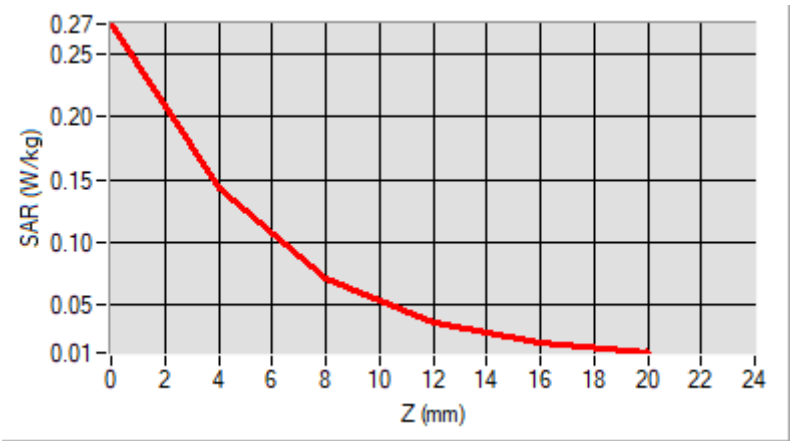


Maximum location: X=-6.00, Y=2.00
D. SAR 1g & 10g

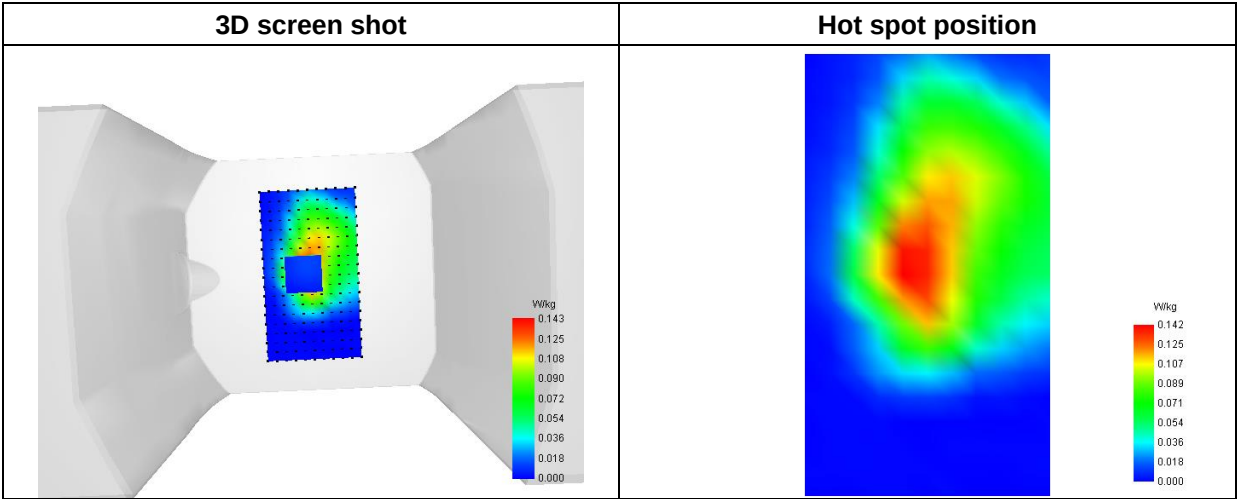
SAR 10g (W/Kg)	0.070761
SAR 1g (W/Kg)	0.138740

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2740	0.1432	0.0715	0.0362	0.0202



F. 3D Image



MEASUREMENT 26

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

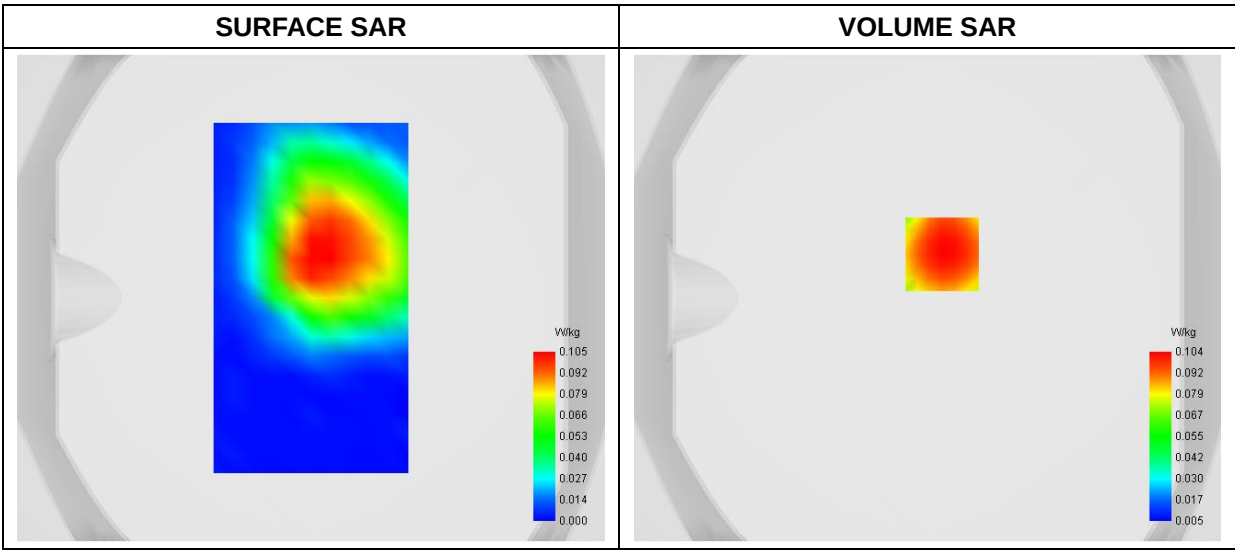
A. Experimental conditions

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, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1745.000000
Relative Permittivity (real part)	39.693275
Conductivity (S/m)	1.382987
Power Variation (%)	0.847600
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

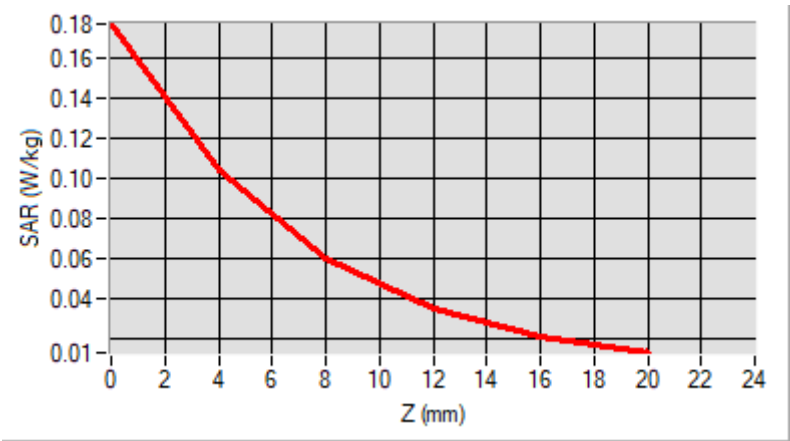


Maximum location: X=6.00, Y=18.00
D. SAR 1g & 10g

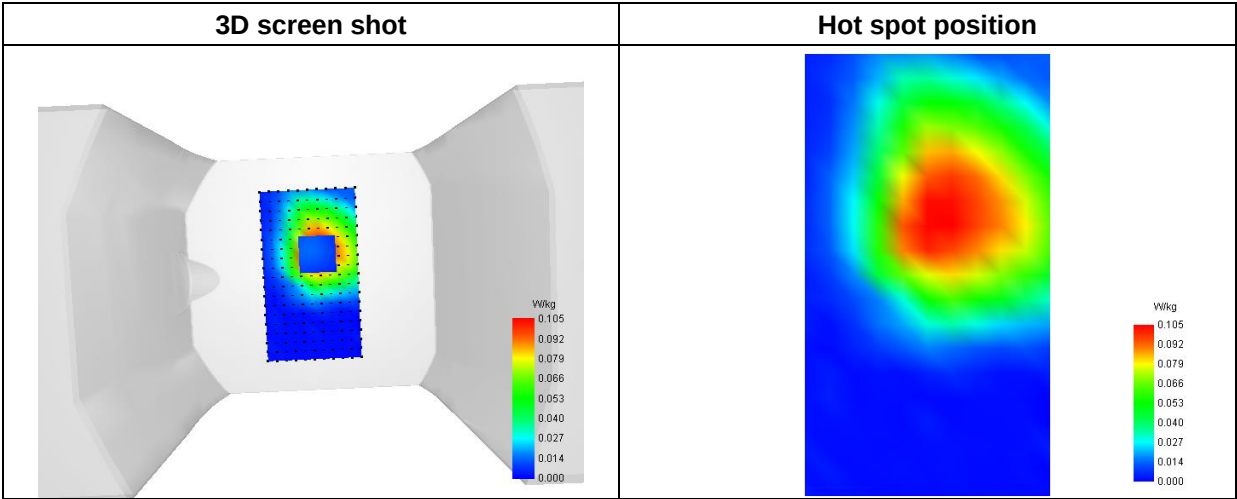
SAR 10g (W/Kg)	0.056143
SAR 1g (W/Kg)	0.100320

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.1765	0.1041	0.0600	0.0350	0.0215



F. 3D Image



MEASUREMENT 27

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

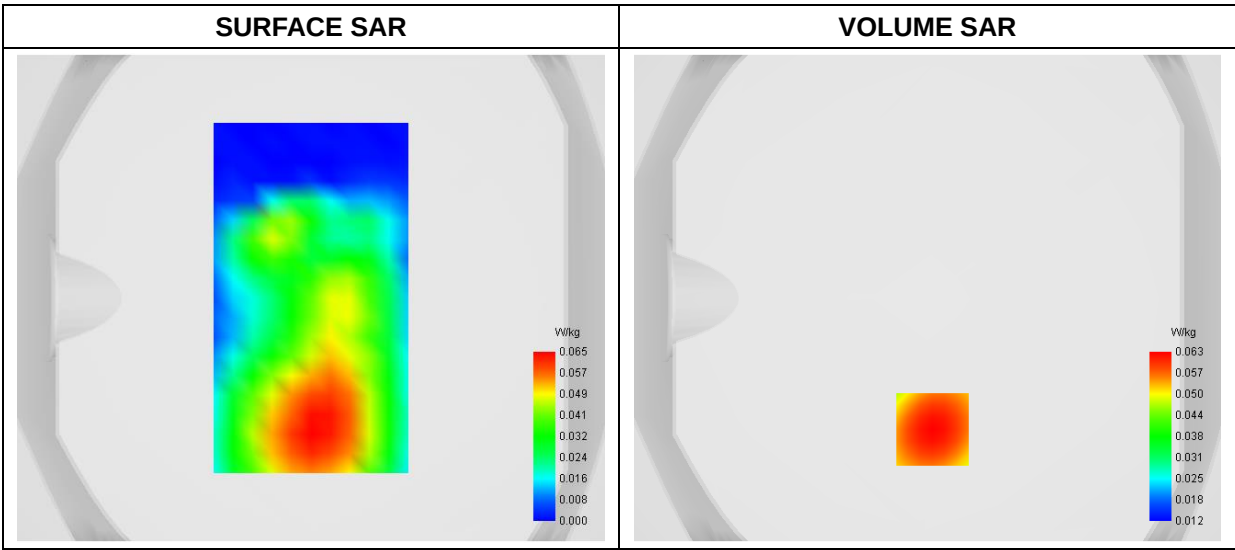
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	836.500000
Relative Permittivity (real part)	40.282245
Conductivity (S/m)	0.882459
Power Variation (%)	-0.814200
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

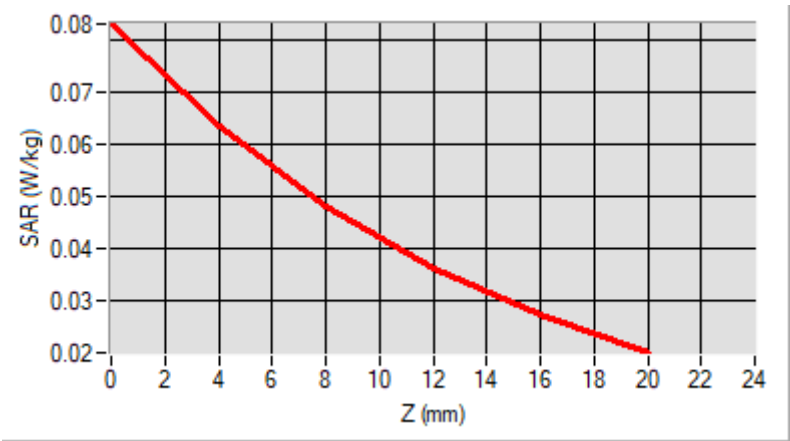


Maximum location: X=2.00, Y=-54.00
D. SAR 1g & 10g

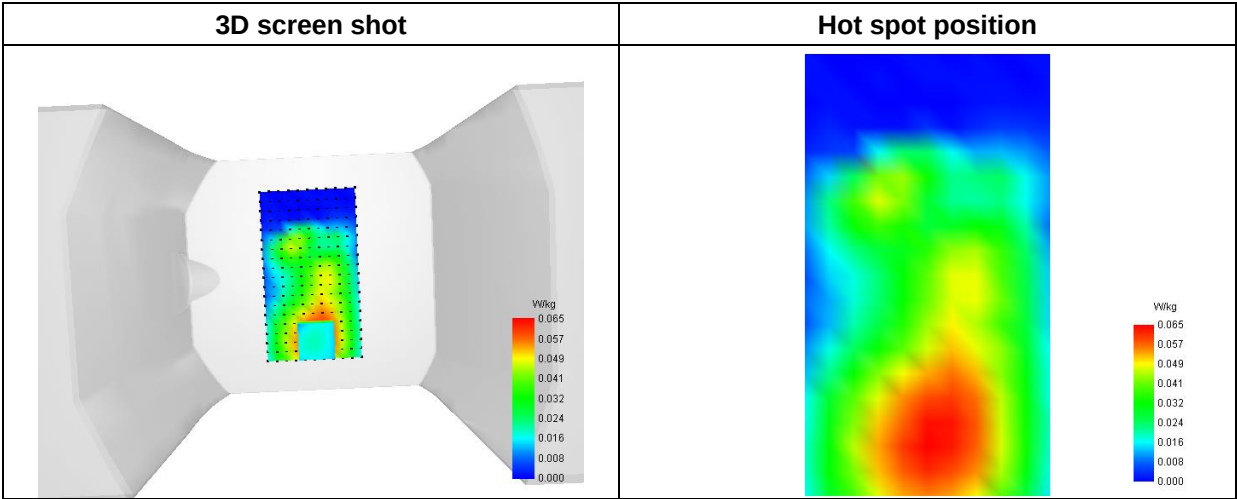
SAR 10g (W/Kg)	0.041182
SAR 1g (W/Kg)	0.060367

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0829	0.0633	0.0479	0.0362	0.0272



F. 3D Image



MEASUREMENT 28

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

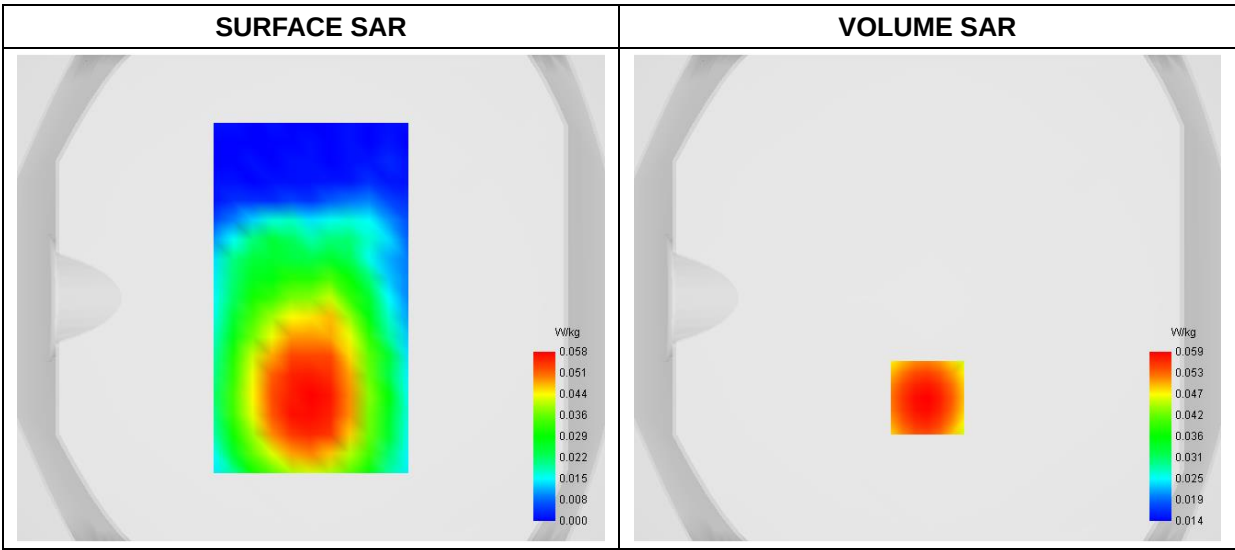
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	704.000000
Relative Permittivity (real part)	41.142661
Conductivity (S/m)	0.873182
Power Variation (%)	-1.1114000
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

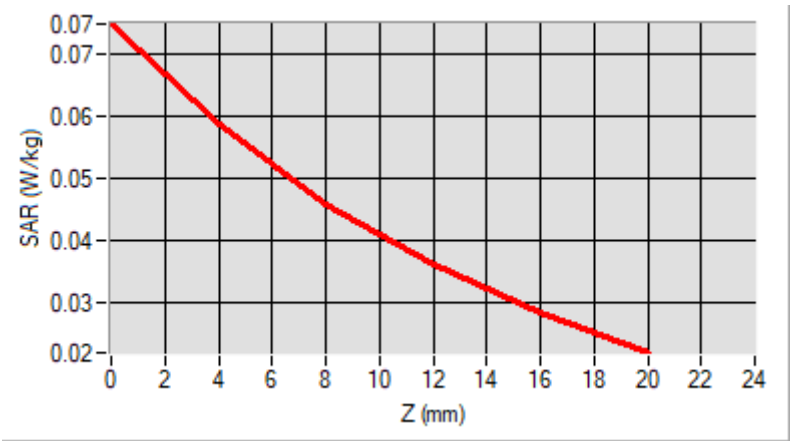


Maximum location: X=0.00, Y=-41.00
D. SAR 1g & 10g

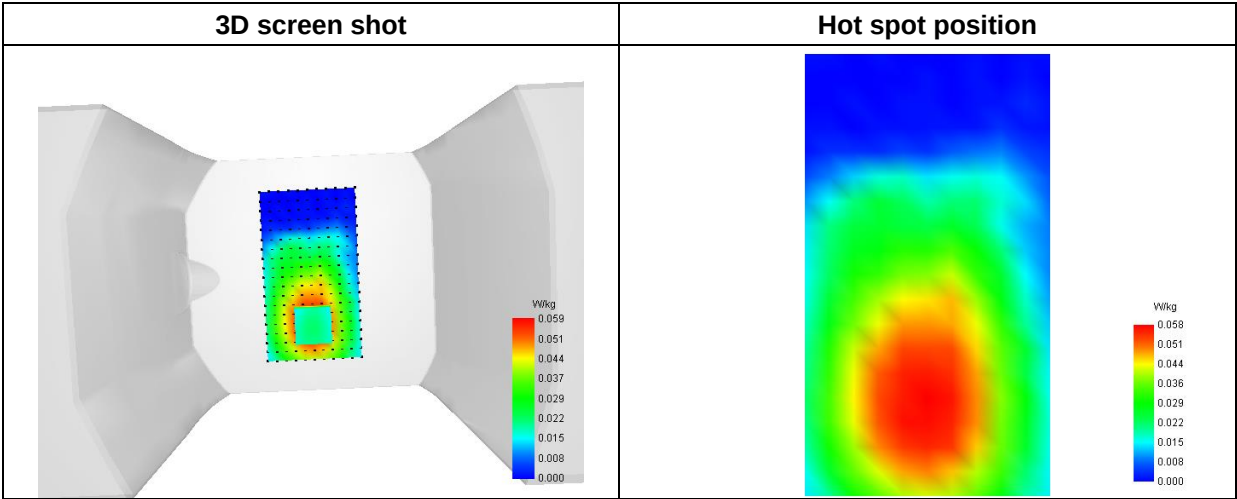
SAR 10g (W/Kg)	0.040702
SAR 1g (W/Kg)	0.057594

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0747	0.0586	0.0459	0.0360	0.0284



F. 3D Image



MEASUREMENT 29

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

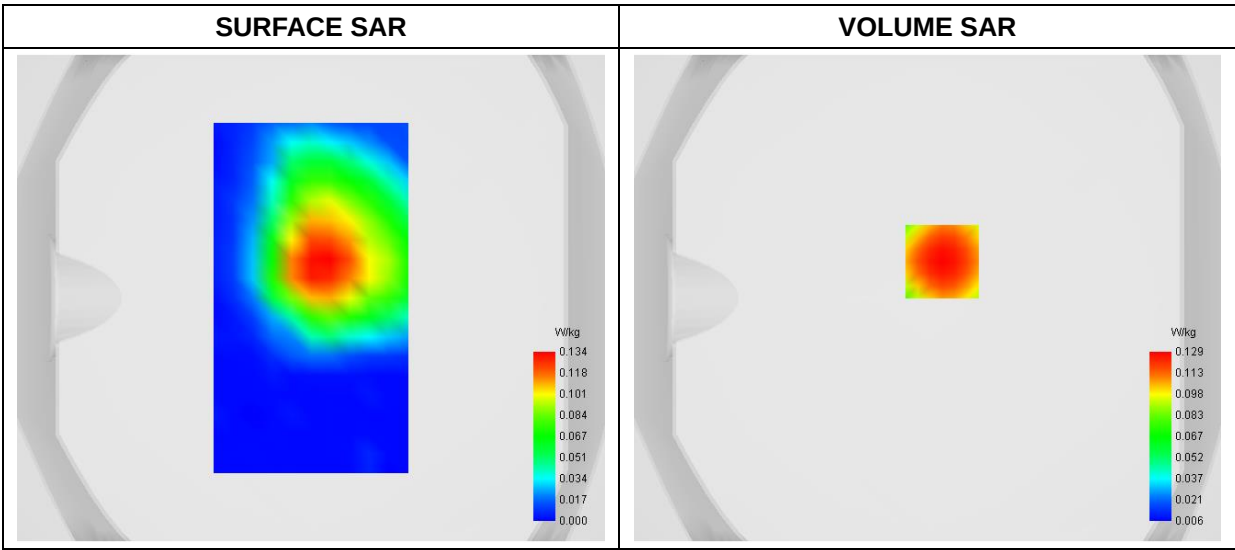
A. Experimental conditions

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, High
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1770.000000
Relative Permittivity (real part)	39.692668
Conductivity (S/m)	1.383696
Power Variation (%)	-1.341700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

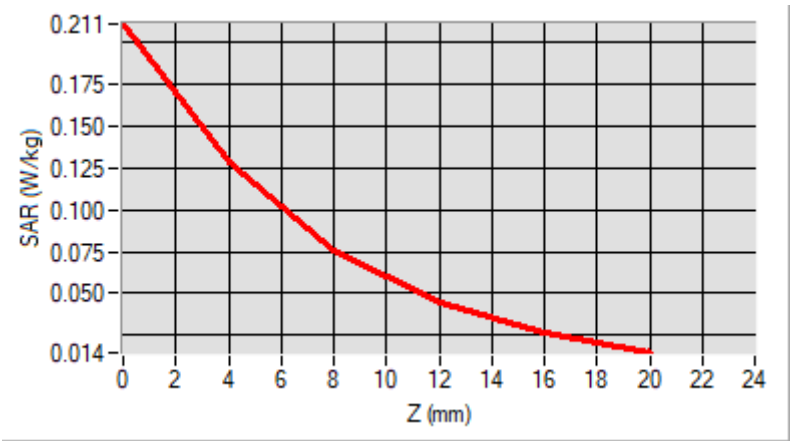


Maximum location: X=6.00, Y=15.00
D. SAR 1g & 10g

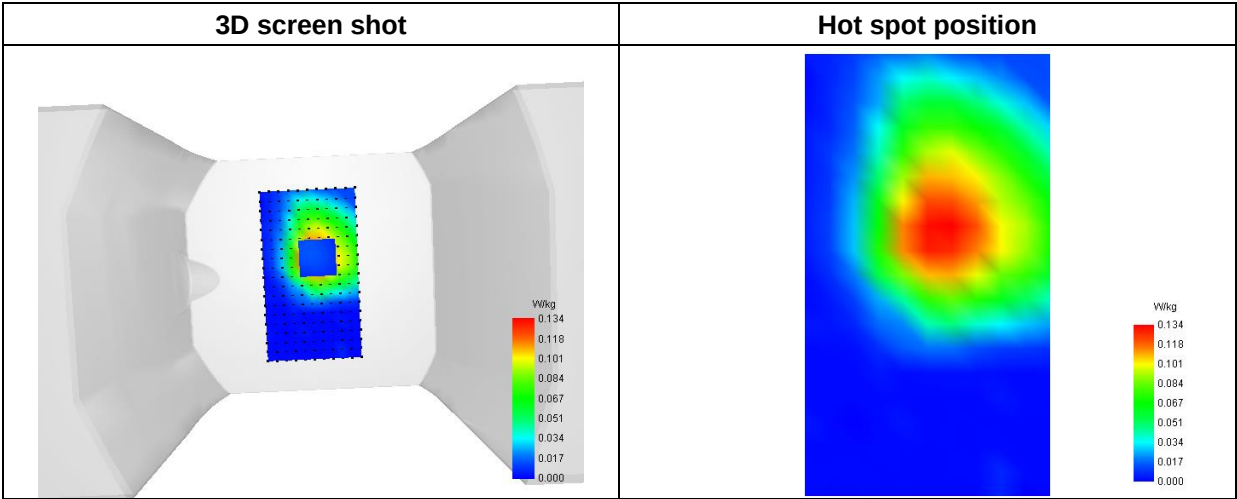
SAR 10g (W/Kg)	0.068651
SAR 1g (W/Kg)	0.123059

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2113	0.1287	0.0762	0.0446	0.0262



F. 3D Image



MEASUREMENT 30

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

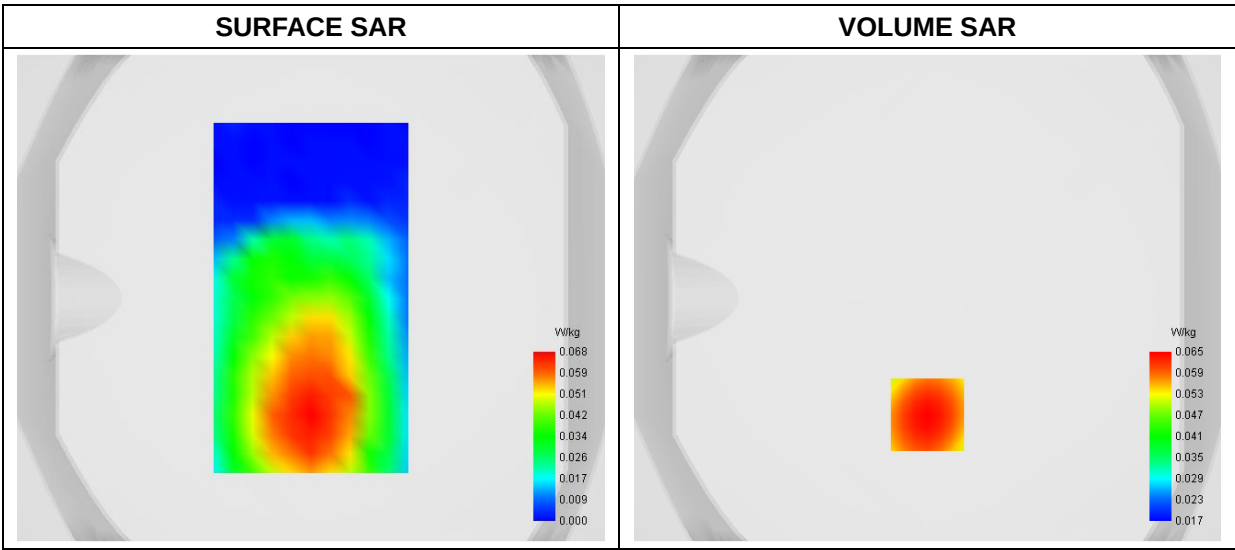
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	LTE Band 71
Channels	QPSK, 20MHz, 1RB, low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	673.000000
Relative Permittivity (real part)	41.142458
Conductivity (S/m)	0.871245
Power Variation (%)	-0.814300
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume



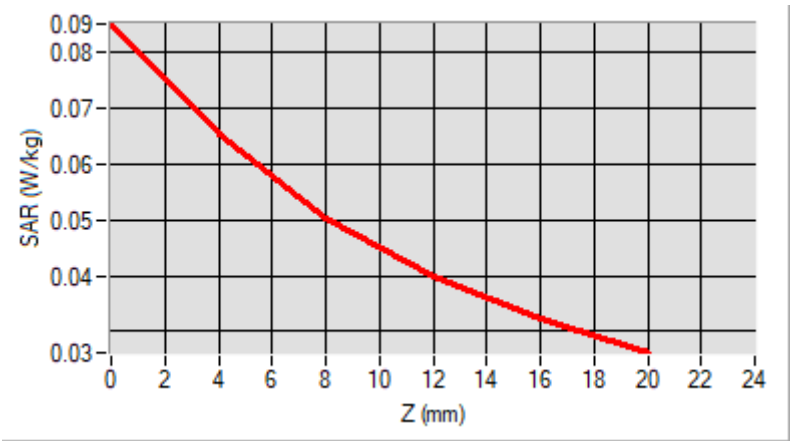
Maximum location: X=0.00, Y=-48.00

D. SAR 1g & 10g

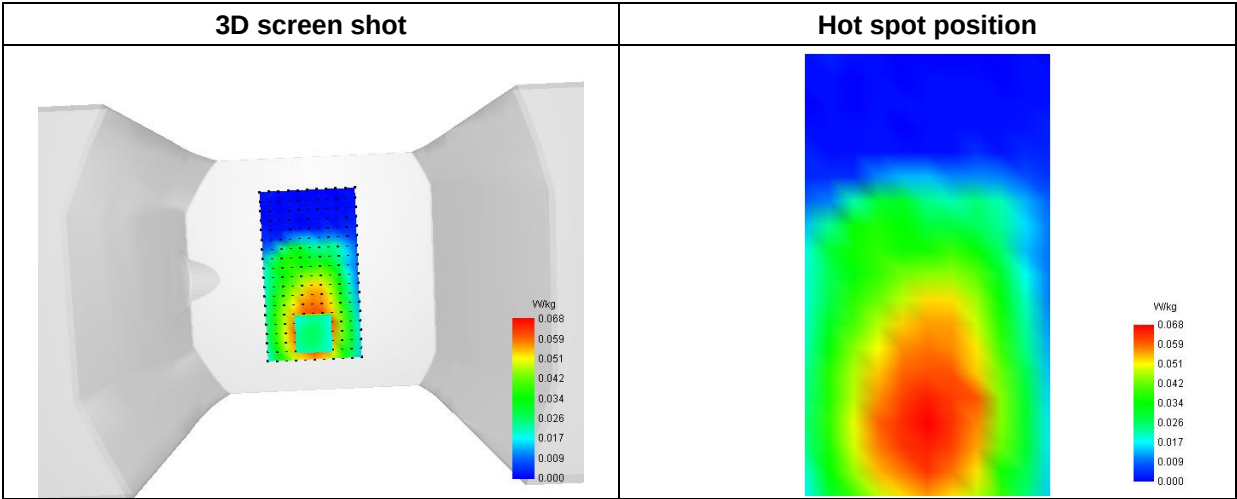
SAR 10g (W/Kg)	0.045713
SAR 1g (W/Kg)	0.064135

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0852	0.0653	0.0504	0.0398	0.0322



F. 3D Image



MEASUREMENT 31

Type: Phone measurement (Complete)
Date of measurement: 2023-06-24
Measurement duration: 12 minutes 3 seconds

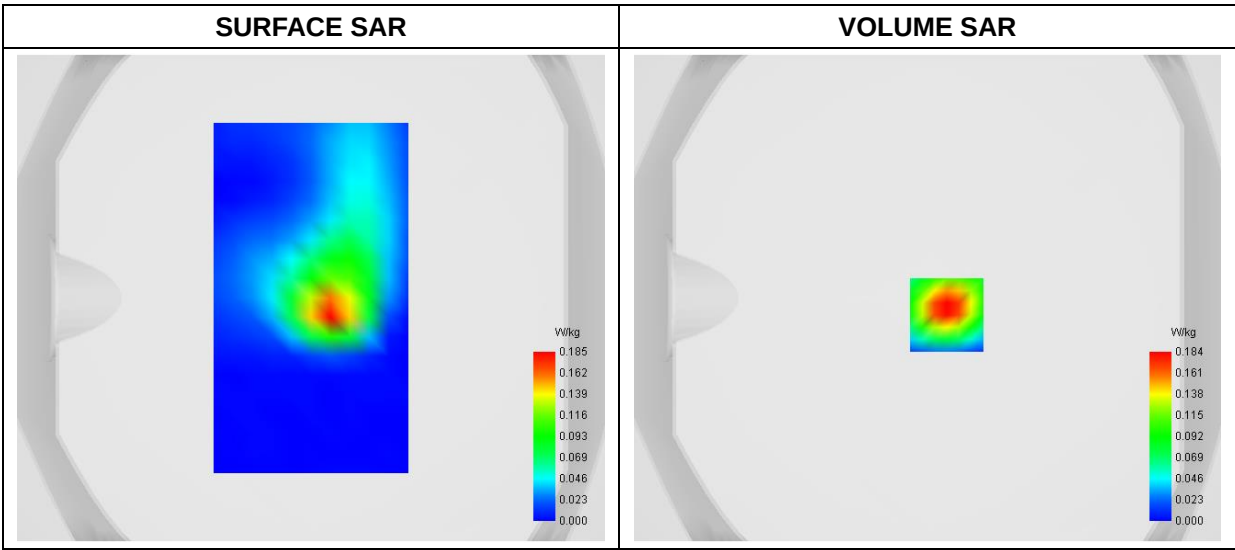
A. Experimental conditions

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	Middle
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	2437.000000
Relative Permittivity (real part)	38.371301
Conductivity (S/m)	1.782638
Power Variation (%)	0.364700
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

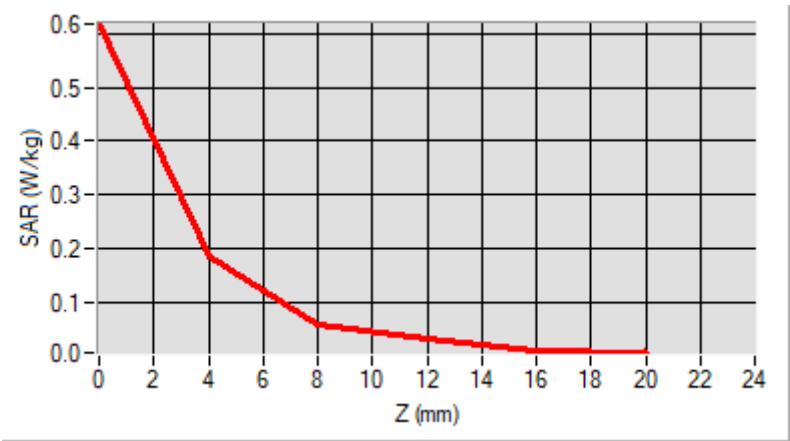


Maximum location: X=8.00, Y=-7.00
D. SAR 1g & 10g

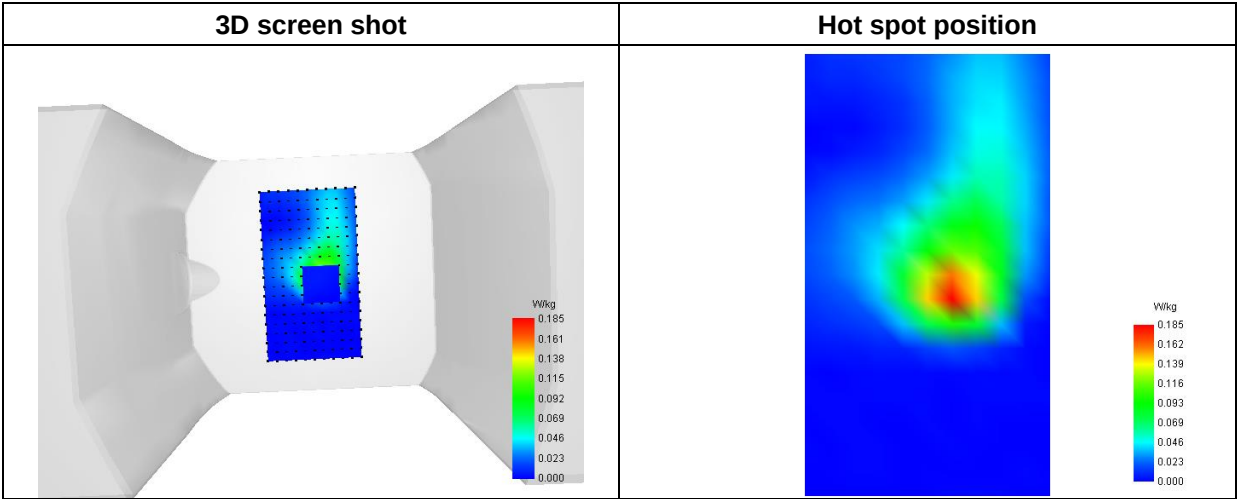
SAR 10g (W/Kg)	0.073111
SAR 1g (W/Kg)	0.175147

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6178	0.1836	0.0571	0.0311	0.0092



F. 3D Image



MEASUREMENT 32

Type: Phone measurement (Complete)
Date of measurement: 2023-06-24
Measurement duration: 12 minutes 3 seconds

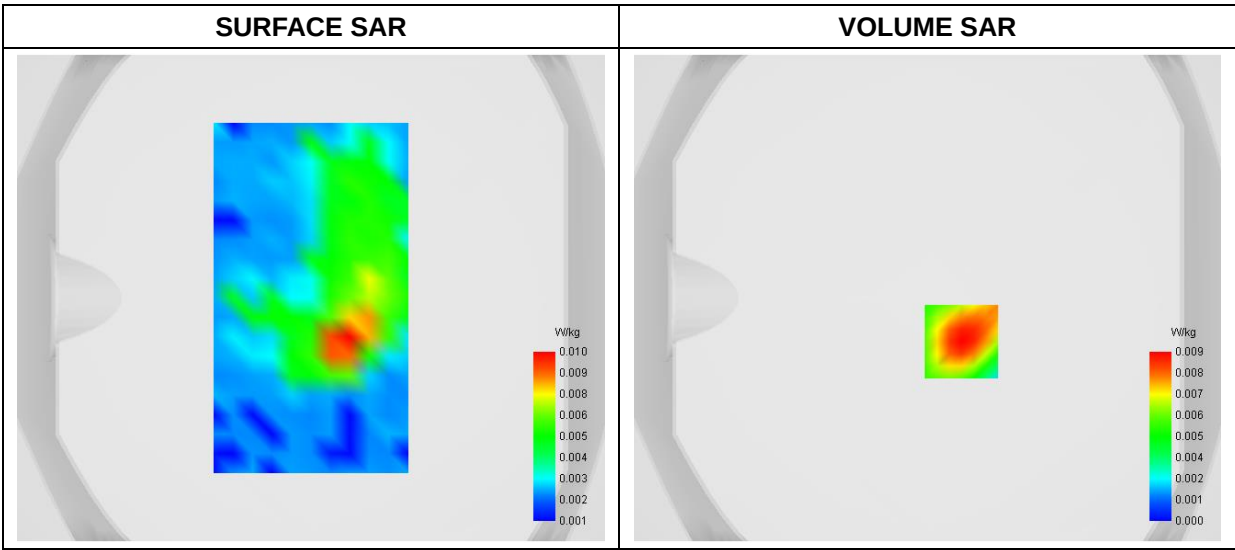
A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2480.000000
Relative Permittivity (real part)	38.372521
Conductivity (S/m)	1.783828
Power Variation (%)	0.364300
Ambient Temperature	22.3
Liquid Temperature	22.3

C. SAR Surface and Volume

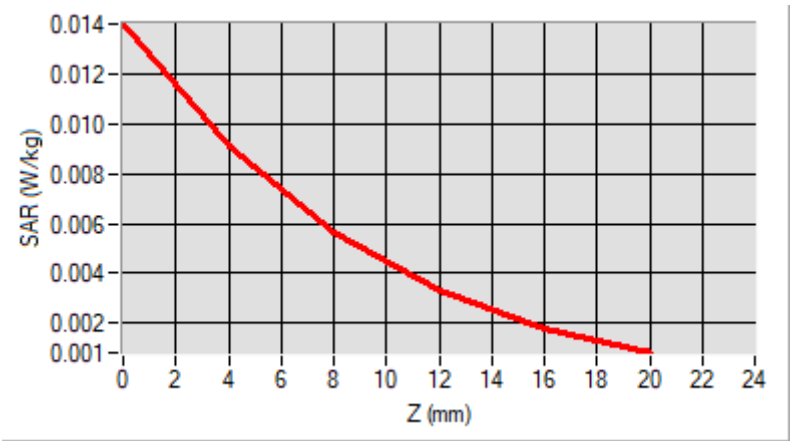


Maximum location: X=14.00, Y=-18.00
D. SAR 1g & 10g

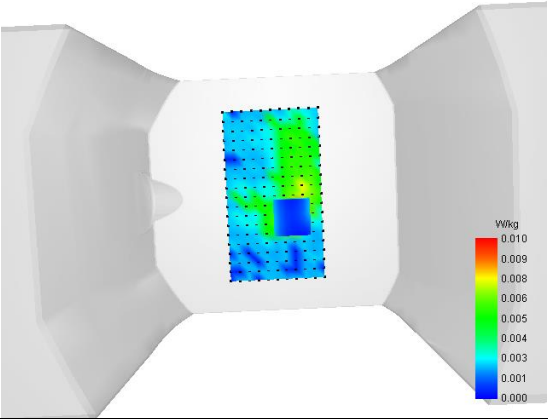
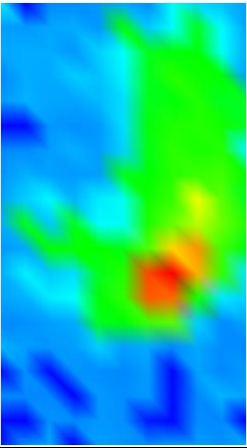
SAR 10g (W/Kg)	0.004761
SAR 1g (W/Kg)	0.008507

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.0140	0.0091	0.0056	0.0033	0.0018



F. 3D Image

3D screen shot	Hot spot position
	

MEASUREMENT 33

Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

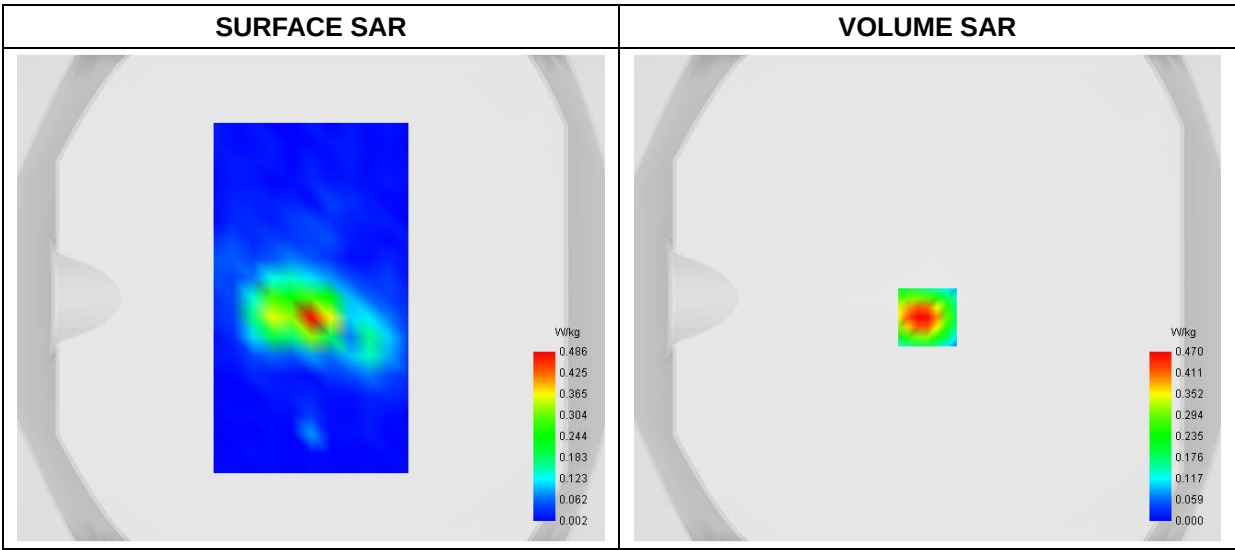
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.2GHz)_802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5180.000000
Relative Permittivity (real part)	36.563869
Conductivity (S/m)	4.631611
Power Variation (%)	-1.524100
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

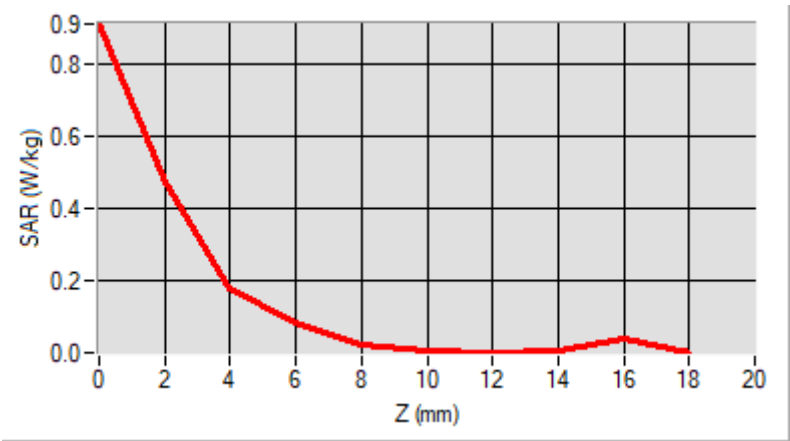


Maximum location: X=0.00, Y=-8.00
D. SAR 1g & 10g

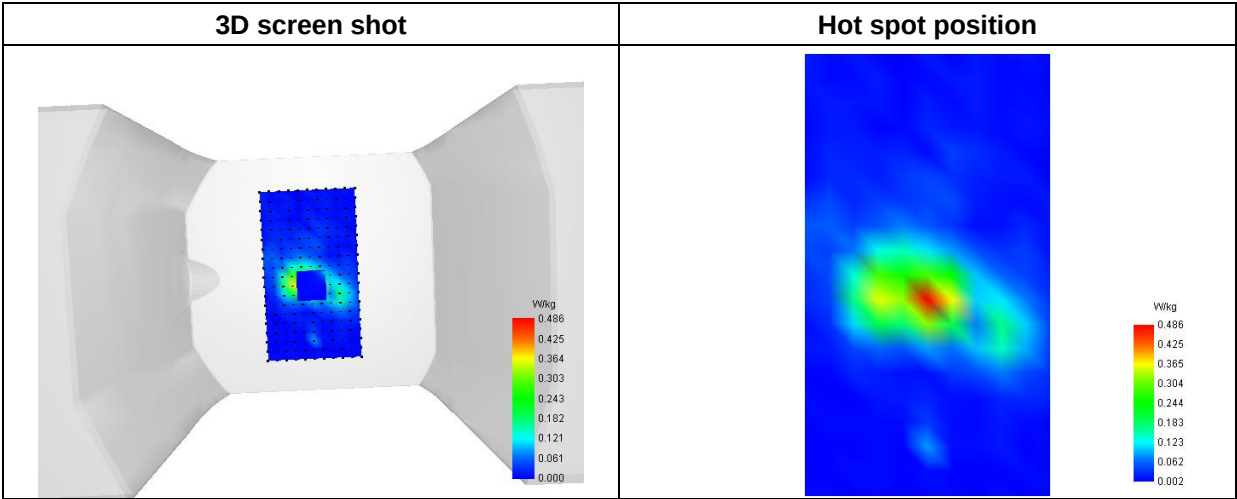
SAR 10g (W/Kg)	0.071799
SAR 1g (W/Kg)	0.248846

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.9094	0.4700	0.1805	0.0825	0.0260	0.0096	0.0014	0.0044	0.0382



F. 3D Image



MEASUREMENT 34

Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

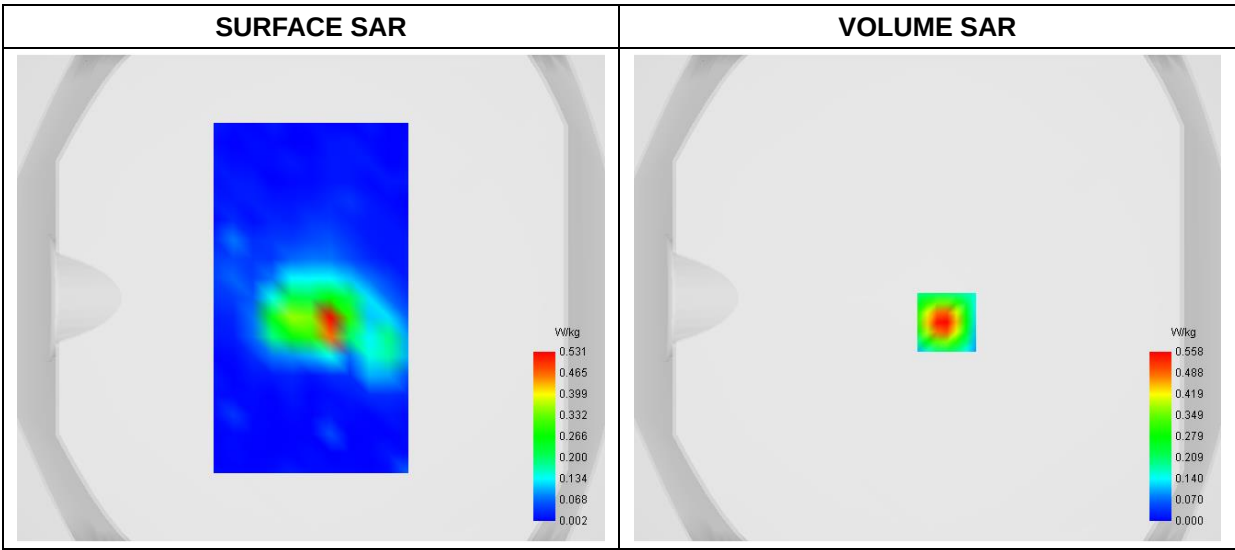
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.3GHz)_ 802.11a
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5260.000000
Relative Permittivity (real part)	36.562839
Conductivity (S/m)	4.631926
Power Variation (%)	1.114700
Ambient Temperature	22.5
Liquid Temperature	22.5

C. SAR Surface and Volume

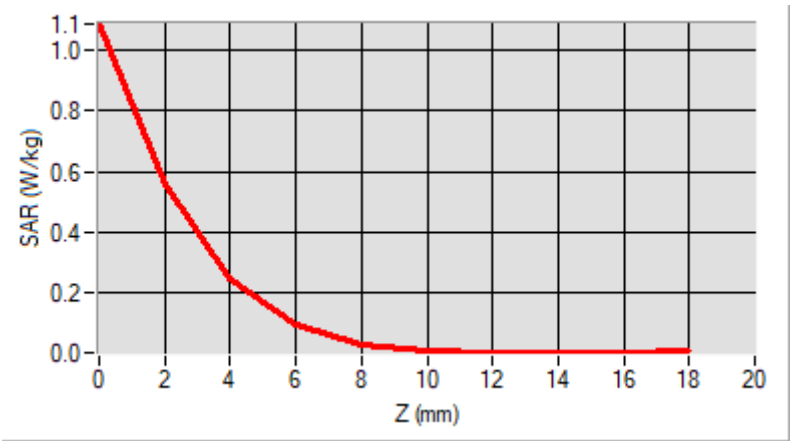


Maximum location: X=8.00, Y=-10.00
D. SAR 1g & 10g

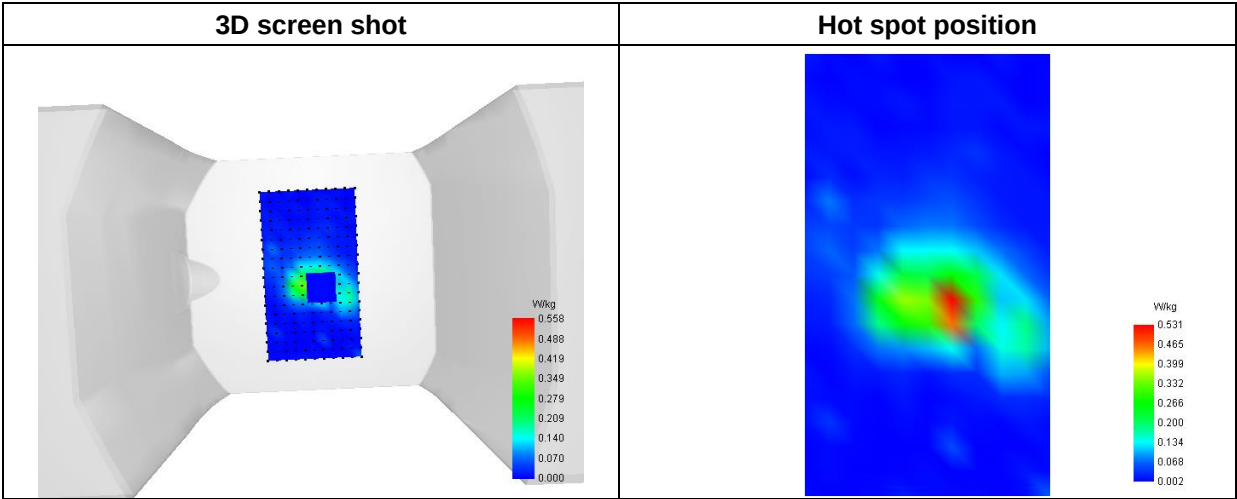
SAR 10g (W/Kg)	0.083335
SAR 1g (W/Kg)	0.305610

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.0867	0.5582	0.2476	0.0936	0.0308	0.0092	0.0021	0.0031	0.0030



F. 3D Image



MEASUREMENT 35

Type: Phone measurement (Complete)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 3 seconds

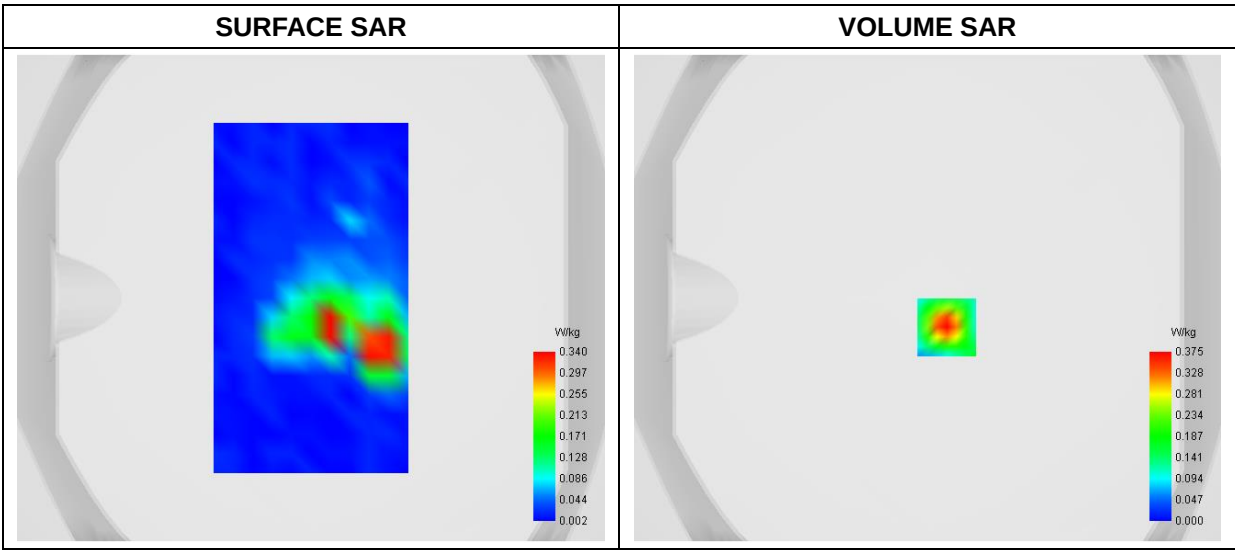
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.6GHz)_802.11n(40MHz)
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5550.000000
Relative Permittivity (real part)	36.392963
Conductivity (S/m)	5.112781
Power Variation (%)	0.754700
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

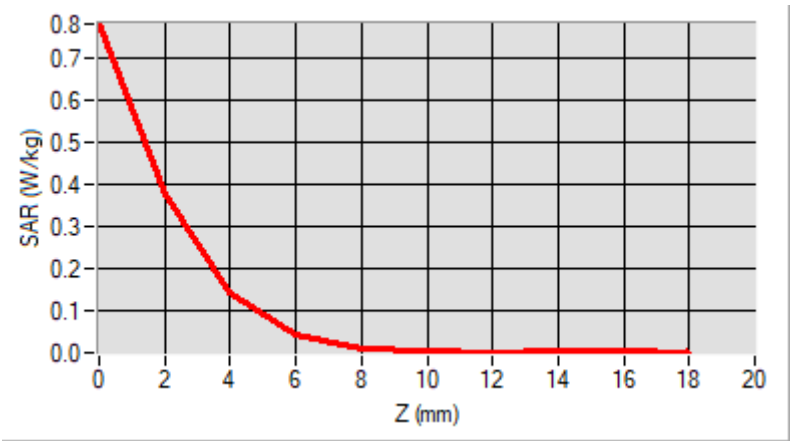


Maximum location: X=8.00, Y=-12.00
D. SAR 1g & 10g

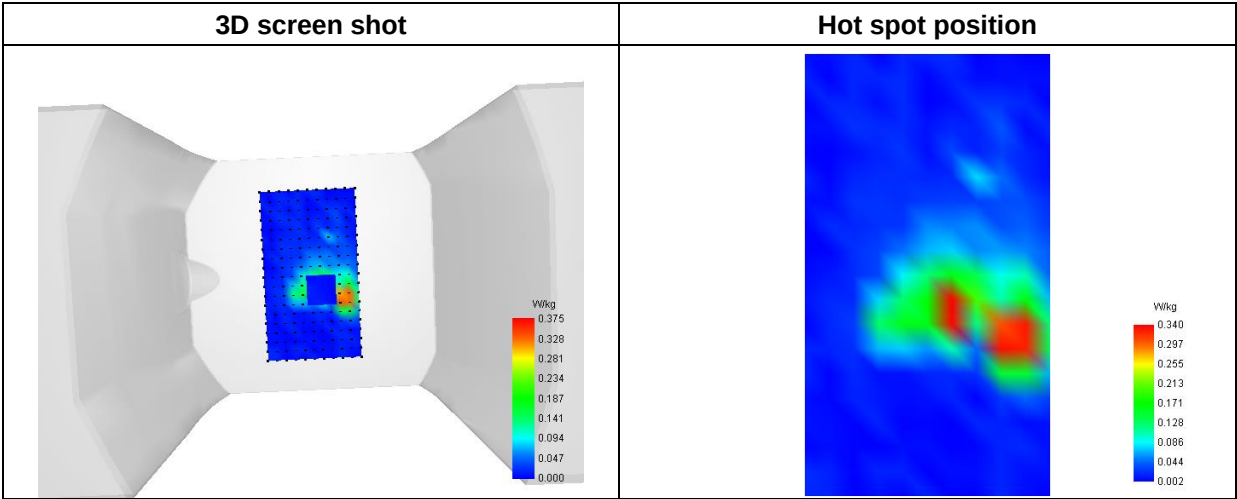
SAR 10g (W/Kg)	0.048005
SAR 1g (W/Kg)	0.194438

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.7822	0.3750	0.1441	0.0421	0.0085	0.0032	0.0008	0.0036	0.0049



F. 3D Image



MEASUREMENT 36

Type: Phone measurement (Complete)
Date of measurement: 2023-06-26
Measurement duration: 12 minutes 3 seconds

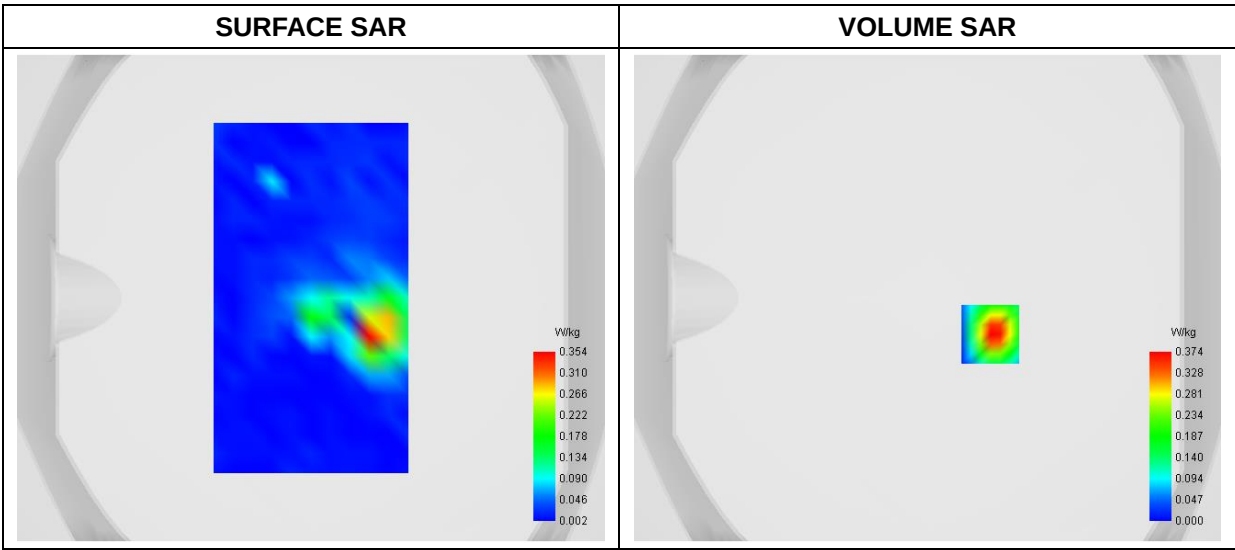
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WiFi(5.8GHz)_ 802.11a
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	5825.000000
Relative Permittivity (real part)	34.752273
Conductivity (S/m)	5.293836
Power Variation (%)	-1.336200
Ambient Temperature	22.4
Liquid Temperature	22.4

C. SAR Surface and Volume

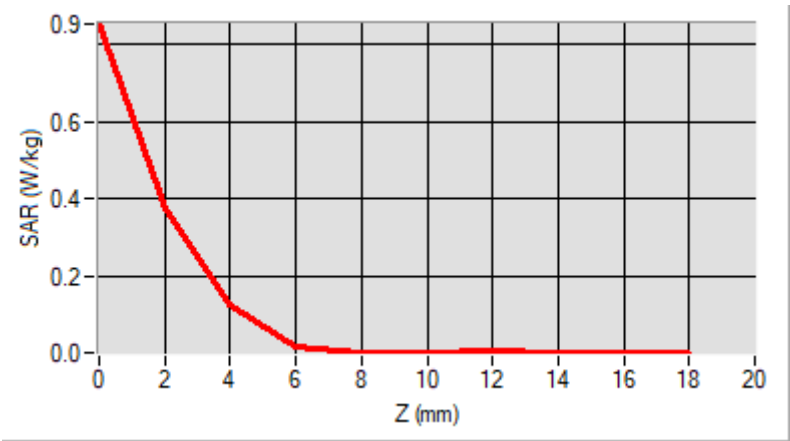


Maximum location: X=26.00, Y=-15.00
D. SAR 1g & 10g

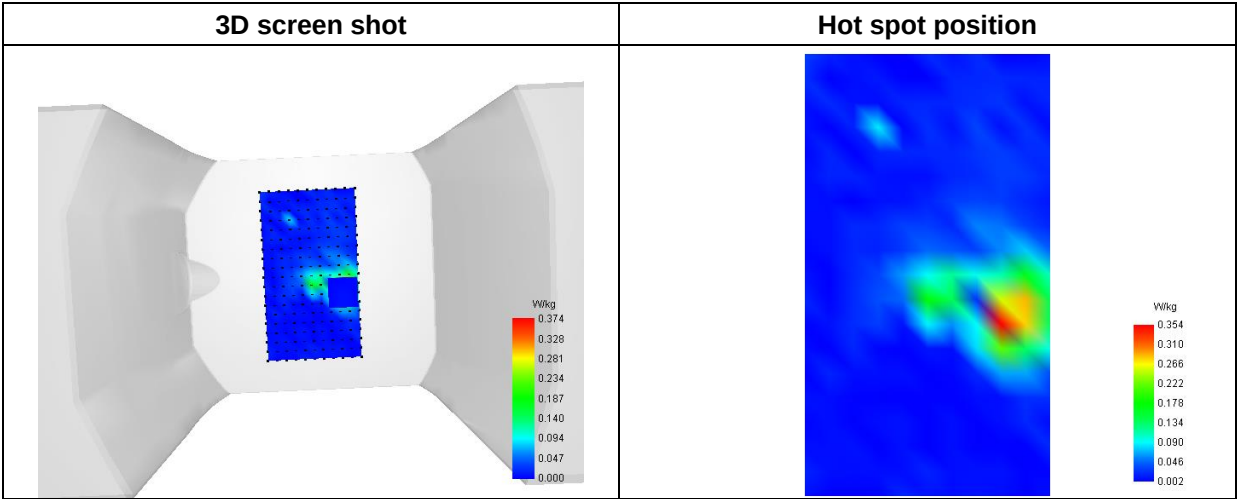
SAR 10g (W/Kg)	0.041033
SAR 1g (W/Kg)	0.196854

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.8525	0.3744	0.1245	0.0132	0.0014	0.0003	0.0042	0.0000	0.0000



F. 3D Image



MEASUREMENT 37

Type: Phone measurement (Complete)
Date of measurement: 2023-06-19
Measurement duration: 12 minutes 3 seconds

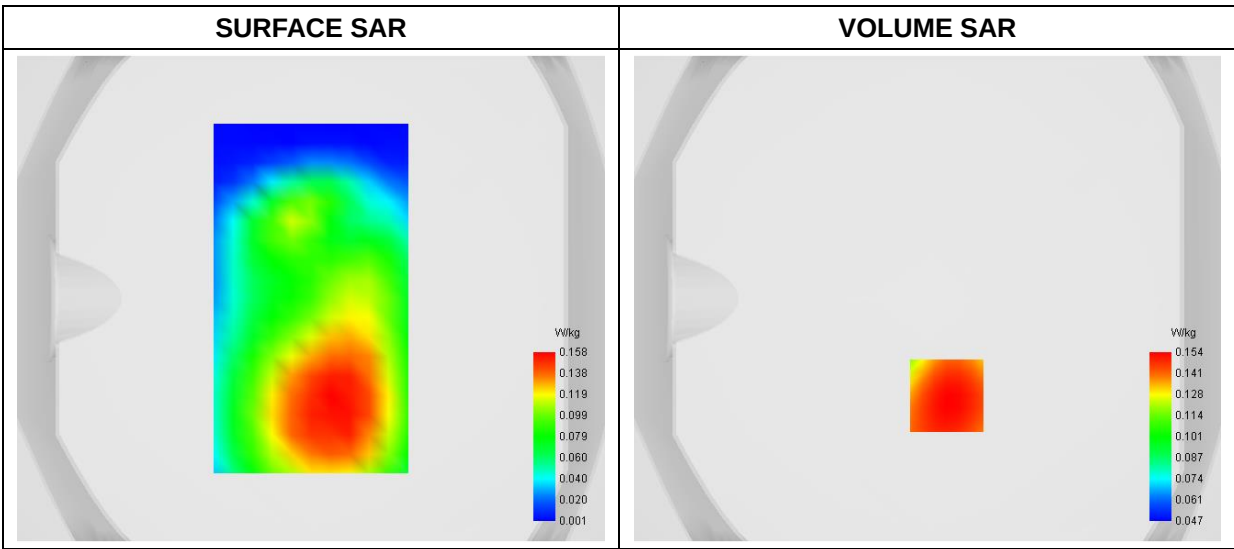
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat plane
Device Position	Back
Band	GPRS850_4TX
Channels	Low
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	824.200000
Relative Permittivity (real part)	41.142459
Conductivity (S/m)	0.871245
Power Variation (%)	1.857200
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

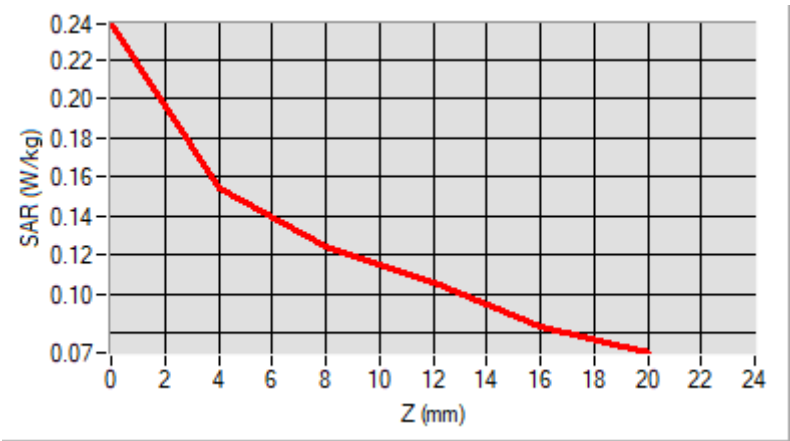


Maximum location: X=8.00, Y=-40.00
D. SAR 1g & 10g

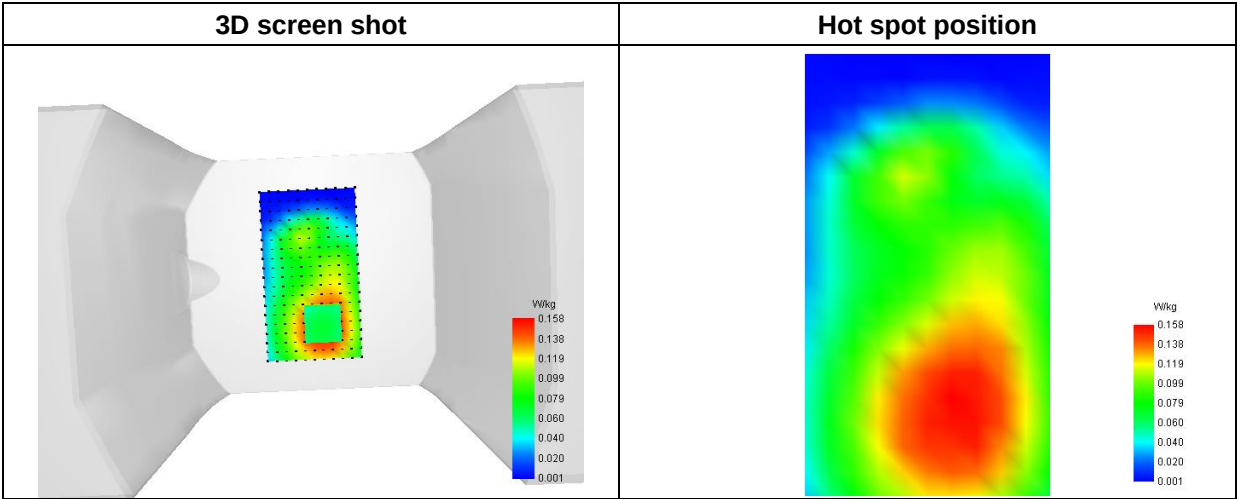
SAR 10g (W/Kg)	0.112477
SAR 1g (W/Kg)	0.149708

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2386	0.1544	0.1244	0.1054	0.0828



F. 3D Image



MEASUREMENT 38

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

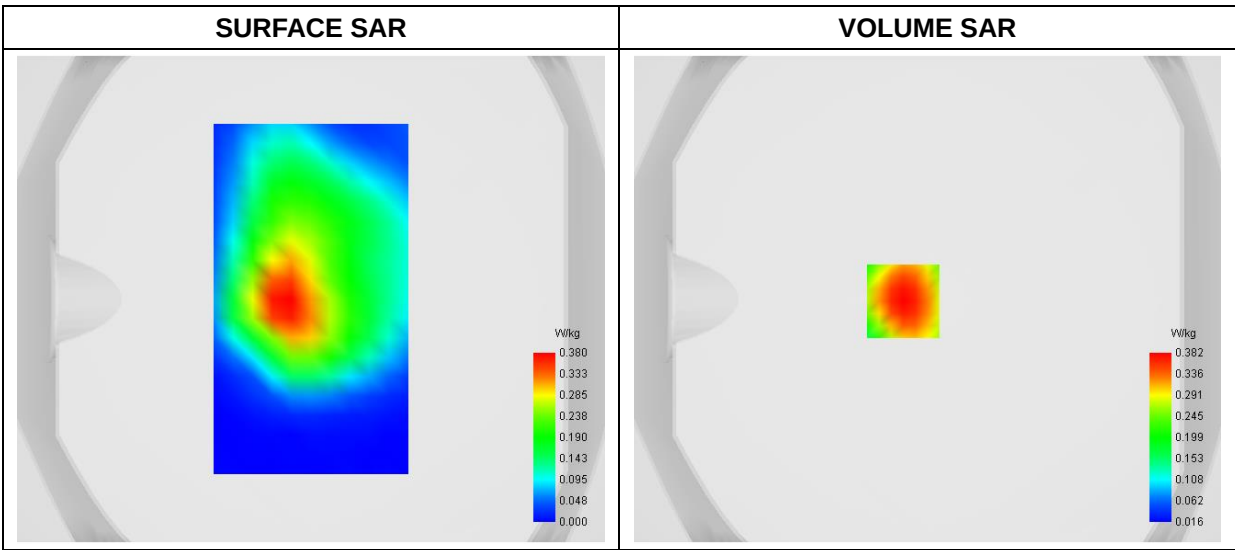
A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat plane
Device Position	Back
Band	GPRS1900_2TX
Channels	Low
Signal	Duty Cycle: 1:4

B. SAR Measurement Results

Frequency (MHz)	1850.200000
Relative Permittivity (real part)	39.692459
Conductivity (S/m)	1.381255
Power Variation (%)	-0.734100
Ambient Temperature	22.2
Liquid Temperature	22.2

C. SAR Surface and Volume

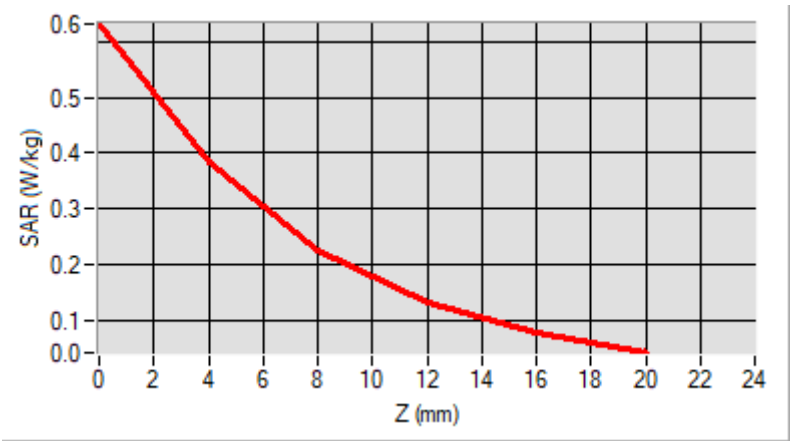


Maximum location: X=-10.00, Y=-1.00
D. SAR 1g & 10g

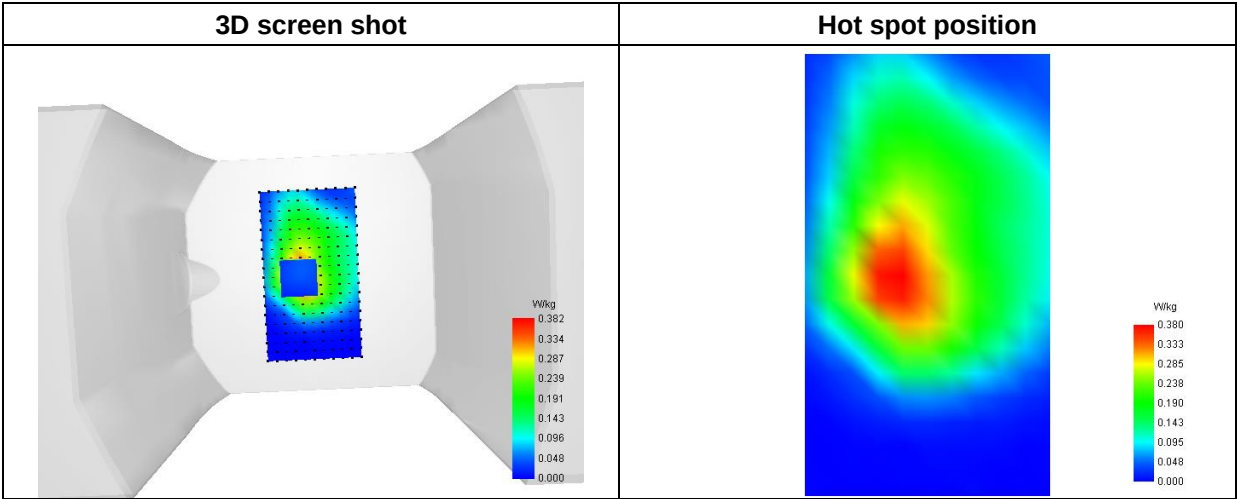
SAR 10g (W/Kg)	0.197052
SAR 1g (W/Kg)	0.360811

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6321	0.3821	0.2243	0.1302	0.0758



F. 3D Image



MEASUREMENT 39

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

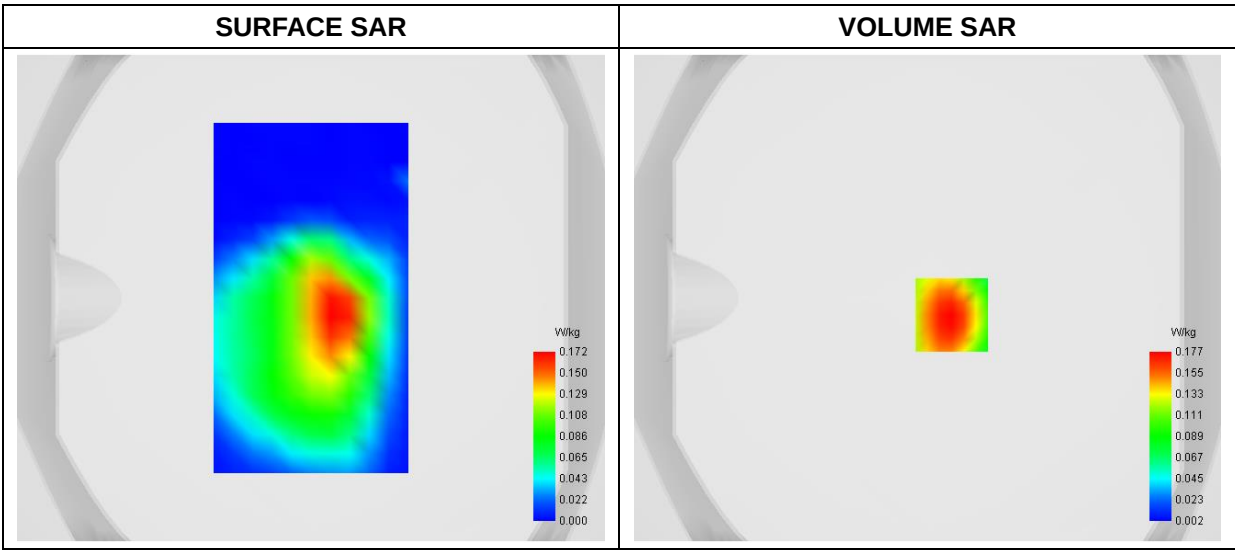
A. Experimental conditions

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)	39.691249
Conductivity (S/m)	1.383607
Power Variation (%)	-0.474700
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

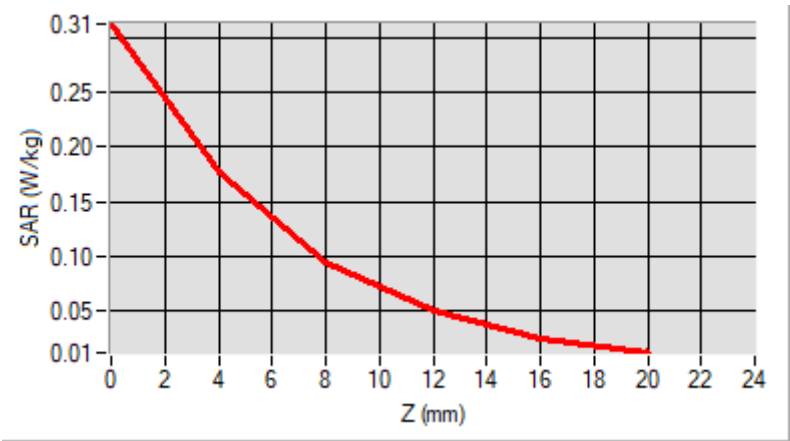


Maximum location: X=10.00, Y=-7.00
D. SAR 1g & 10g

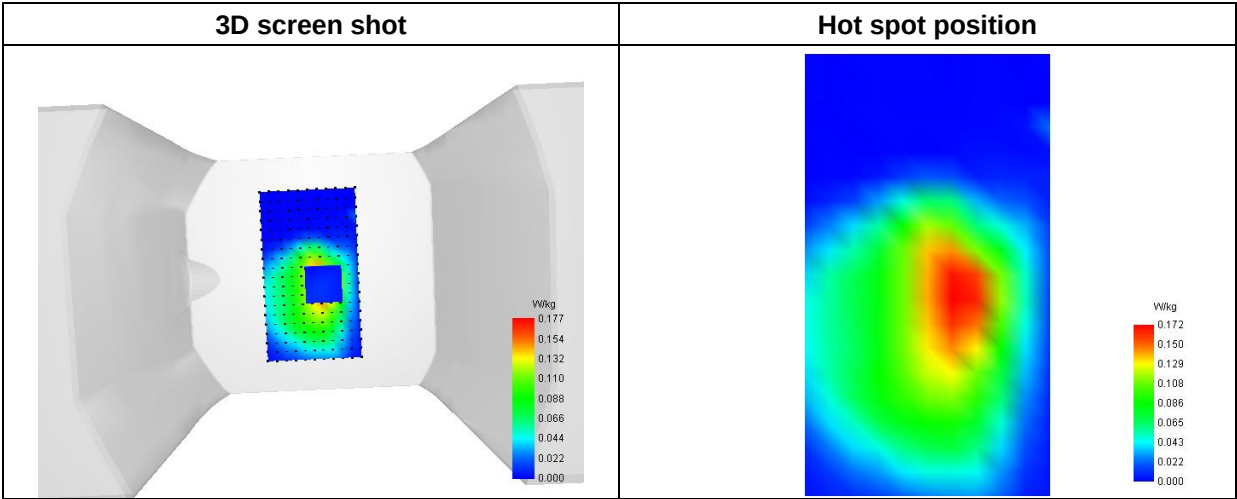
SAR 10g (W/Kg)	0.085666
SAR 1g (W/Kg)	0.167067

E. Z Axis Scan

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3130	0.1765	0.0949	0.0495	0.0255



F. 3D Image



MEASUREMENT 40

Type: Phone measurement (Complete)
Date of measurement: 2023-06-21
Measurement duration: 12 minutes 3 seconds

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	Low
Signal	Duty Cycle 1:1

B. SAR Measurement Results

Frequency (MHz)	1712.400000
Relative Permittivity (real part)	39.693245
Conductivity (S/m)	1.383245
Power Variation (%)	-0.472800
Ambient Temperature	22.1
Liquid Temperature	22.1

C. SAR Surface and Volume

