TEST REPORT

Reference No.	:	WTX23X05117108W009
Manufacturer	:	Xontel Technology Company
Address	:	Kuwait City Aladel Tower,F21 QIBLA
Product Name	:	WIFI Phone
Model No.	:	XT-16W
Standards	:	**EN 50663:2017** **EN 62209-1:2016 EN 62209-2:2010+AMD1:2019** **EN 50360:2017 EN 50566:2017**
Date of Receipt sample	:	2023-05-30
Date of Test	:	2023-05-30 to 2023-07-04
Date of Issue	:	2023-07-05
Test Report Form No.	:	WTX_EN50360_EN50566_2017W
Test Result	:	**Pass**

Remarks:

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

Prepared By:

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Silin Chen

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Report version

Version No.	Date of issue	Description
Rev.00	2023-07-05	Original
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1. General Information

1.1 Product Description for Equipment Under Test (EUT)

General Description of EUT	
Product Name:	WIFI Phone
Trade Name:	Xontel
Model No.:	XT-16W
Adding Model(s):	/
Rated Voltage:	DC3.7V
Battery Capacity:	2000mAh
Adapter Model:	CT-083 Input:AC110-240 50/60Hz 0.2A Output:DC5V1.0A
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 Bands:	GSM900, DCS1800
Frequency Range:	GSM900: Tx: 880-915MHz, Rx: 925-960MHz
	DCS1800: Tx: 1710-1785MHz, Rx: 1805-1880MHz
RF Output Power:	GSM900: 32.34dBm, GSM1800: 29.20dBm EDGE900: 27.20dBm, EDGE1800: 25.92dBm
Modulation Type:	GMSK, 8PSK
Type of Antenna:	Integral Antenna
Antenna Gain:	GSM900: 0.48dBi, DCS1800: 1.17dBi
GPRS/EDGE Class:	Class 12
3G	
Support Networks:	WCDMA, HSDPA, HSUPA
Support Bands:	WCDMA Band 1, WCDMA Band 8
Frequency Range:	WCDMA Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz
	WCDMA Band 8: Tx: 880-915MHz, Rx: 925-960MHz
RF Output Power:	WCDMA Band 1: 23.56dBm, WCDMA Band 8: 23.27dBm
Modulation Type:	BPSK, QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	WCDMA Band 1: 1.17dBi, WCDMA Band 8: 0.48dBi
4G	
Support Bands:	FDD-LTE Band 1, 3, 7, 8, 20, 28, TDD-LTE Band 38, 40
Frequency Range:	FDD-LTE Band 1: Tx: 1920-1980MHz, Rx: 2110-2170MHz
	FDD-LTE Band 3: Tx: 1710-1785MHz, Rx: 1805-1880MHz
	FDD-LTE Band 7: Tx: 2500-2570MHz, Rx: 2620-2690MHz
	FDD-LTE Band 8: Tx: 880-915MHz, Rx: 925-960MHz
	FDD-LTE Band 20: Tx: 832-862MHz, Rx: 791-821MHz
	FDD-LTE Band 28: Tx: 703-748MHz, Rx:758-803MHz
	TDD-LTE Band 38: Tx: 2570-2620MHz, Rx: 2570-2620MHz
	TDD-LTE Band 40: Tx: 2300-2400MHz, Rx: 2300-2400MHz
Max. RF Output Power:	FDD-LTE Band 1: 22.43dBm, FDD-LTE Band 3: 22.89dBm, FDD-LTE Band 7: 23.89dBm, FDD-LTE Band 8: 22.95dBm, FDD-LTE Band 20: 22.45dBm, FDD-LTE Band 28: 22.99dBm, TDD-LTE Band 38: 21.75dBm, TDD-LTE Band 40: 21.72dBm,
Modulation Type:	QPSK, 16QAM
Antenna Type:	Integral Antenna
Antenna Gain:	FDD-LTE Band 1: 1.14dBi, FDD-LTE Band 3: 1.14dBi, FDD-LTE Band 7: 1.32dBi, FDD-LTE Band 8: 0.29dBi, FDD-LTE Band 20: 0.37dBi, FDD-LTE Band 28: 1.34dBi, TDD-LTE Band 38: 1.31dBi, TDD-LTE Band 40: 2.29dBi,

Bluetooth	
Bluetooth Version:	Bluetooth V4.2
Frequency Range:	2402-2480MHz
Max.RF Output Power:	8.64dBm (EIRP)
Type of Modulation:	GFSK, π/4 DQPSK, 8DPSK
Data Rate:	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79/40
Channel Separation:	1MHz/2MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	2.19dBi
Wi-Fi (2.4GHz)	
Support Standards:	802.11b, 802.11g, 802.11n-HT20/40
Frequency Range:	2412-2472MHz for 802.11b/g/n(HT20) 2422-2462MHz for 802.11n(HT40)
Max. RF Output Power:	15.49dBm (EIRP)
Type of Modulation:	CCK, OFDM, QPSK, BPSK, 16QAM, 64QAM
Quantity of Channels	13 for 802.11b/g/n(HT20), 9 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	Integral Antenna
Antenna Gain:	2.19dBi
GPS	
Frequency Range:	1575.42MHz
FM	
Frequency Range:	87.5~108.0MHz Receiving
Note: The Antenna Gain is provided by the customer and can affect the validity of results.	

1.2 Test Standards

EN 50360:2017: Product standard to demonstrate the compliance of GSM phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz - 3 GHz).
EN 62209-1:2016: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures –Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz).
EN 62209-2:2010+AMD1:2019: Human exposure to radio frequency fields from hand-held and body mounted wireless communication devices-Human models, instrumentation, and procedures. Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz).
EN 50663:2017: Generic standard for assessment of low power electronic and electrical equipment related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
EN50566:2017: Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz).

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 standards EN 62209-2 for SAR Measurement Procedure.

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 (5mm Gap)	SAR_{10g} Limit (W/kg)
	Maximum SAR_{10g} (W/kg)	Maximum SAR_{10g} (W/kg)	
GSM	**0.386**	**1.119**	2.0
WCDMA	0.277	0.402	2.0
LTE	0.359	0.662	2.0
WLAN 2.4GHz	0.044	0.038	2.0
Simultaneous Transmission	**0.416**	**1.157**	2.0

Frequency Band	Limb (0mm Gap)	SAR_{10g} Limit (W/kg)
	Maximum SAR_{10g} (W/kg)	
GSM	**1.577**	4.0
WCDMA	0.578	4.0
LTE	0.941	4.0
WLAN 2.4GHz	0.070	4.0
Simultaneous Transmission	**1.647**	4.0

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (2.0 W/kg for Head and Body, 4.0W/kg for Limb) specified in Annex II of Council Recommendation 1999/519/EC, and had been tested in accordance with the measurement methods and procedure specified in IEC/IEEE 62209-1528:2020 and EN 62209-2.

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:

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

SAR is expressed in units of Watts per kilogram (W/kg)
SAR measurement can be either related to the temperature elevation in tissue by

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

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

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

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

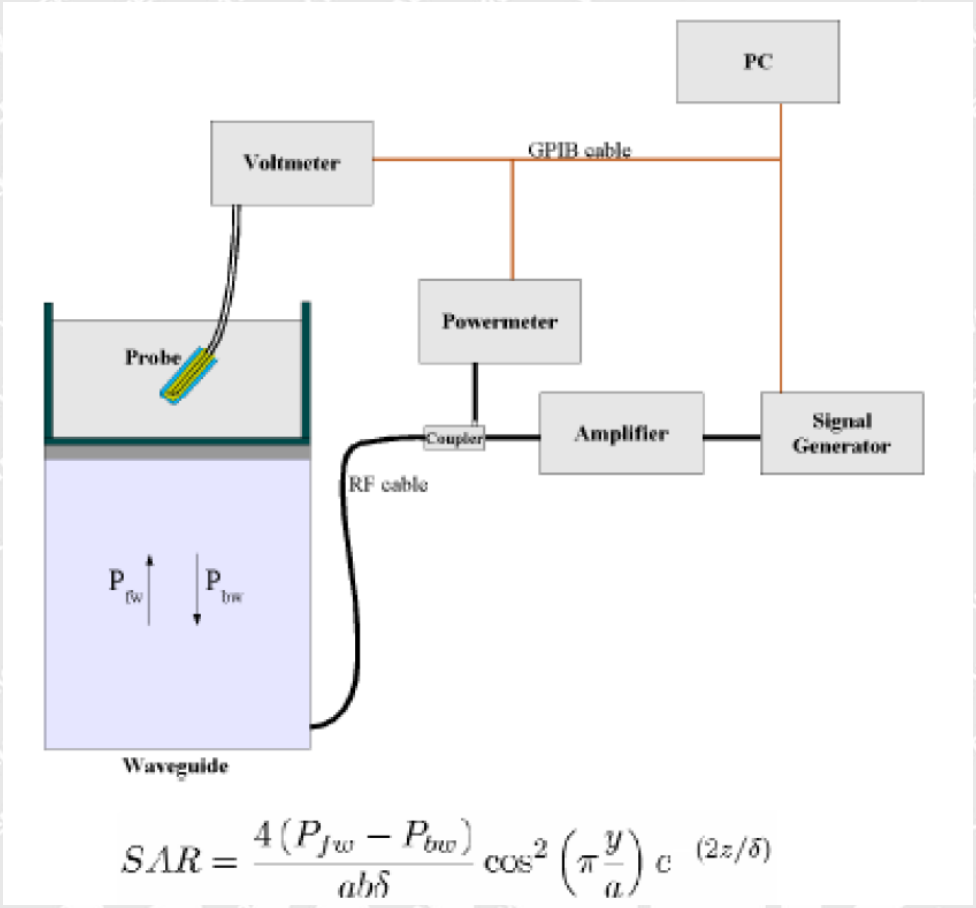
The following figure shows the system.

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 EPGO356, and refer to the calibration report for probe parameters.

Probe calibration is realized, in compliance with EN 62209-1, with CALISAR, Antennas proprietary calibration system. The calibration is performed with the EN 62209-1 annexes technique using reference guide at the five frequencies.



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

Where :
Pfw = Forward Power
Pbw = Backward Power
a and b =Waveguide dimensions
I = 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)/Vlin(N) (N=1,2,3)

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

Vlin(N)=V(N)*(1+V(N)/DCP(N)) (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 ΔT/Δt, 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)

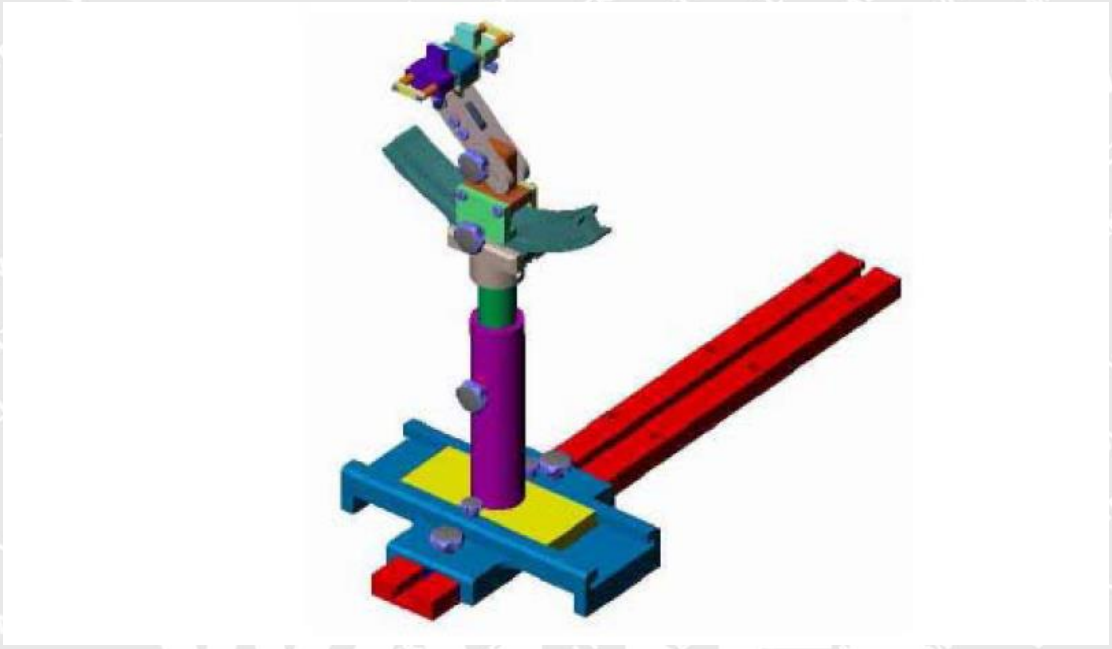
4.4 Phantom

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
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
2300 MHz Dipole	MVG	SID2300	SN 50/20 DIP 2G300-513	2021-01-14	2024-01-13
2450MHz Dipole	MVG	SID2450	SN 09/15 DIP 2G450-363	2020-08-29	2023-08-28
2600MHz Dipole	MVG	SID2600	SN 28/21 DIP 2G600-590	2021-07-19	2024-07-18
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 Body SAR

The Composition of Tissue Simulating Liquid

Frequency (MHz)	Water (%)	Salt (%)	1,2-Propanediol (%)	HEC (%)	Preventol (%)	DGBE (%)
Head/Body						
835	40.3	1.4	57.9	0.2	0.2	0
900	40.3	1.4	57.9	0.2	0.2	0
1800-2000	55.2	0.3	0	0	0	44.5
2300	55.6	0.2	0	0	0	44.2
2450	55.0	0.1	0	0	0	44.9
2600	54.9	0.1	0	0	0	45.0

5.2 Tissue Dielectric Parameters for Head and Body Phantoms

According to EN 62209-2, nominal dielectric values of the tissue-equivalent liquid in the phantom are specified in Table 1, for discrete frequencies ranging between 30 MHz and 6 GHz. For other frequencies within this range, the nominal dielectric values shall be obtained by linear interpolation between the higher and lower tabulated figures.

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

5.3 Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an Agilent 85033E Dielectric Probe Kit and an Agilent Network Analyzer.

Calibration Result for Dielectric Parameters of Tissue Simulating Liquid

Head Tissue Simulating Liquid									
Freq. MHz	Temp. (℃)	Conductivity			Permittivity			Limit (%)	Date
		Reading (σ)	Target (σ)	Delta (%)	Reading (ε r)	Target (ε r)	Delta (%)		
750	22.2	0.87	0.89	-2.25	41.46	41.9	-1.05	±5	2023-06-23
835	22.2	0.89	0.90	-1.11	41.37	41.5	-0.31	±5	2023-06-23
900	22.2	1.01	0.97	4.12	40.28	41.5	-2.94	±5	2023-06-23
1800	22.5	1.38	1.40	-1.43	39.36	40.0	-1.60	±5	2023-06-25
1900	22.5	1.38	1.40	-1.43	39.48	40.0	-1.30	±5	2023-06-25
2300	22.4	1.68	1.67	0.60	39.16	39.5	-0.86	±5	2023-06-27
2450	22.4	1.78	1.80	-1.11	38.57	39.2	-1.61	±5	2023-06-28
2600	22.2	1.94	1.96	-1.02	39.44	39.0	1.13	±5	2023-06-27

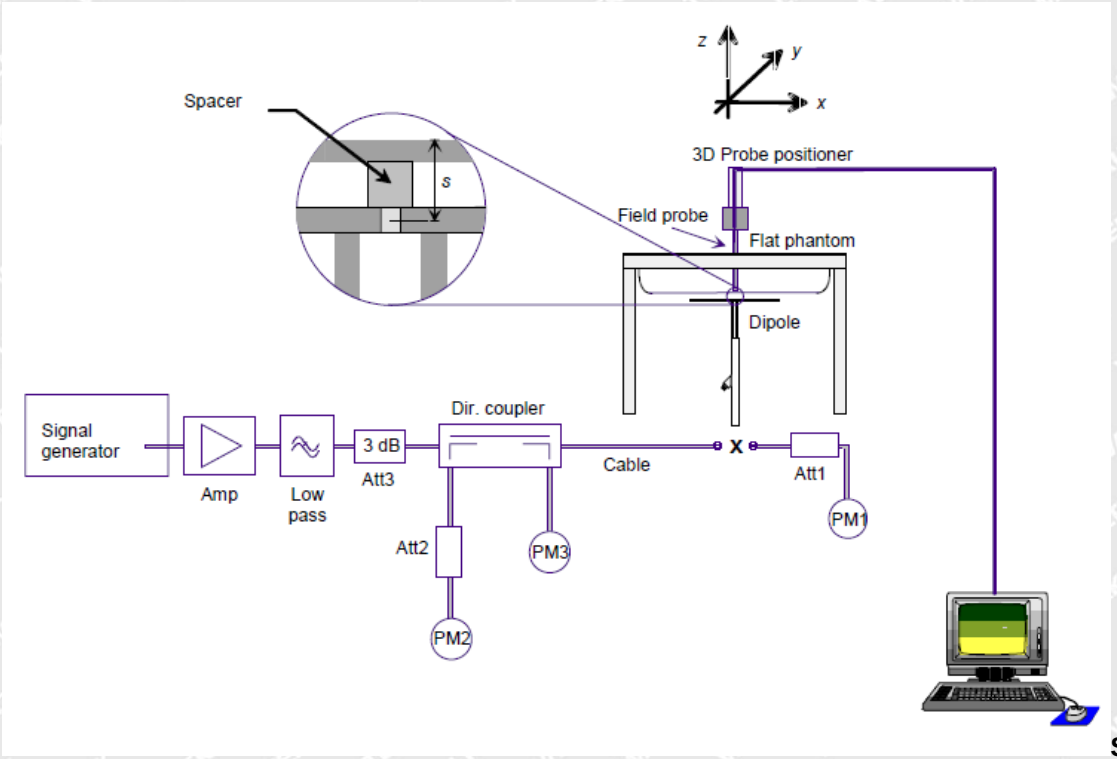
6. SAR Measurement Evaluation

6.1 Purpose of System Performance Check

at the device test frequencies. System check verifies the measurement repeatability of a SAR system before compliance testing and is not a validation of all system specifications. The latter is not required for testing a device but is mandatory before the system is deployed. The system check detects possible short-term drift and unacceptable measurement errors or uncertainties in the system

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 850MHz, 900 MHz,1800MHz,2000MHz, 2450MHz,2600MHz. 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 %. The following table 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	Liquid	Power (mw)	Targeted SAR10g	Measured SAR10g	Normalized SAR10g	Tolerance	Date
750	Head	250	5.72	1.34	5.36	-6.29	2023-06-23
835	Head	250	6.10	1.47	5.88	-3.61	2023-06-23
900	Head	250	6.98	1.70	6.80	-2.58	2023-06-23
1800	Head	250	20.29	5.00	20.00	-1.43	2023-06-25
1900	Head	250	20.25	5.17	20.68	2.12	2023-06-25
2300	Head	250	22.91	5.68	22.72	-0.83	2023-06-27
2450	Head	250	24.20	6.15	24.60	1.65	2023-06-28
2600	Head	250	24.63	6.17	24.68	0.20	2023-06-27

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.

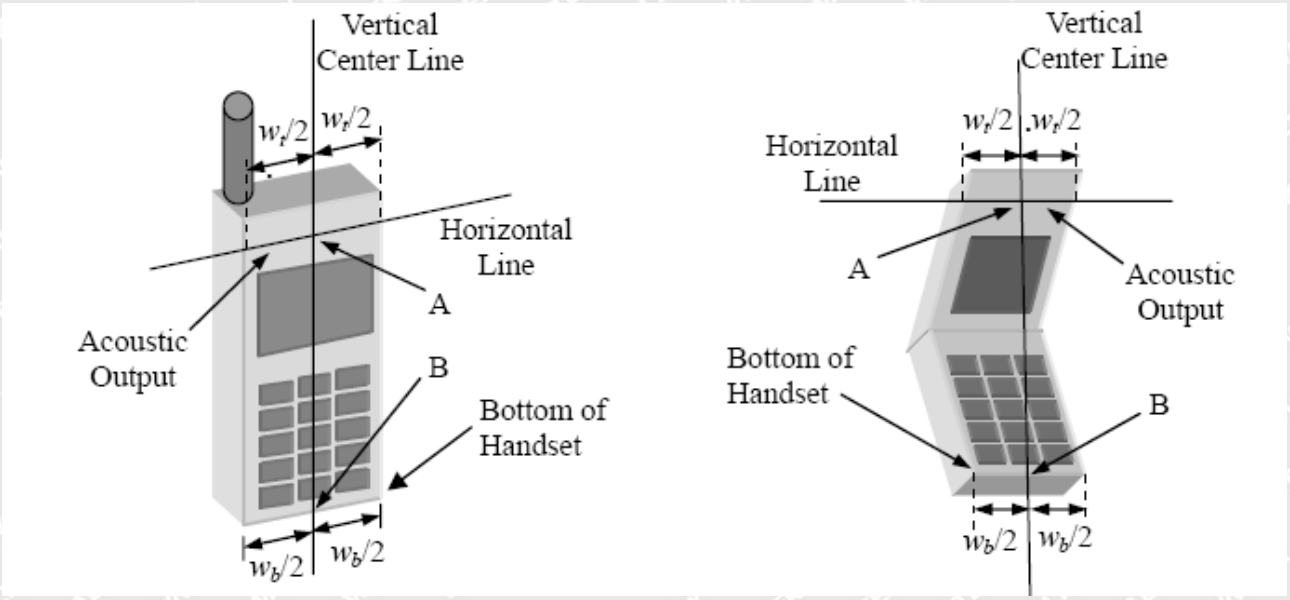


Fig 7.1 Illustration for Handset Vertical and Horizontal Reference Lines

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).

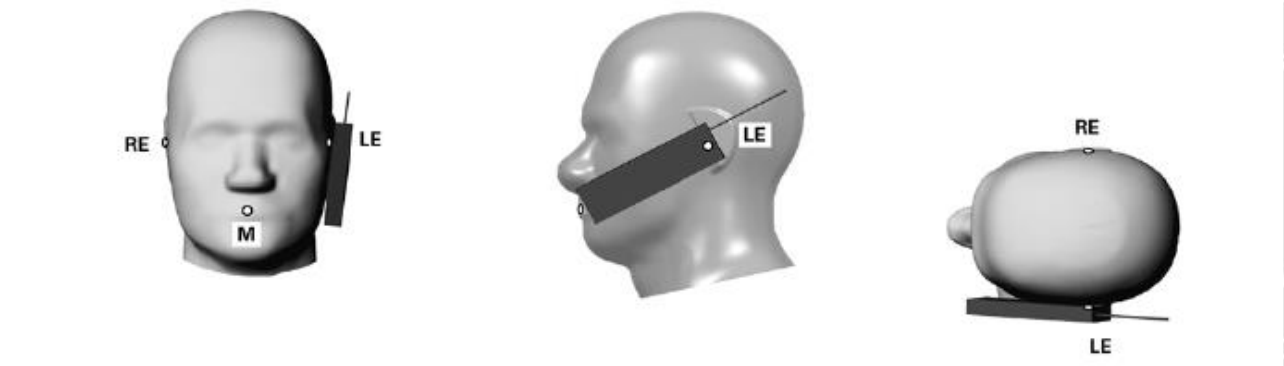


Fig 7.2 Illustration for Cheek Position

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).

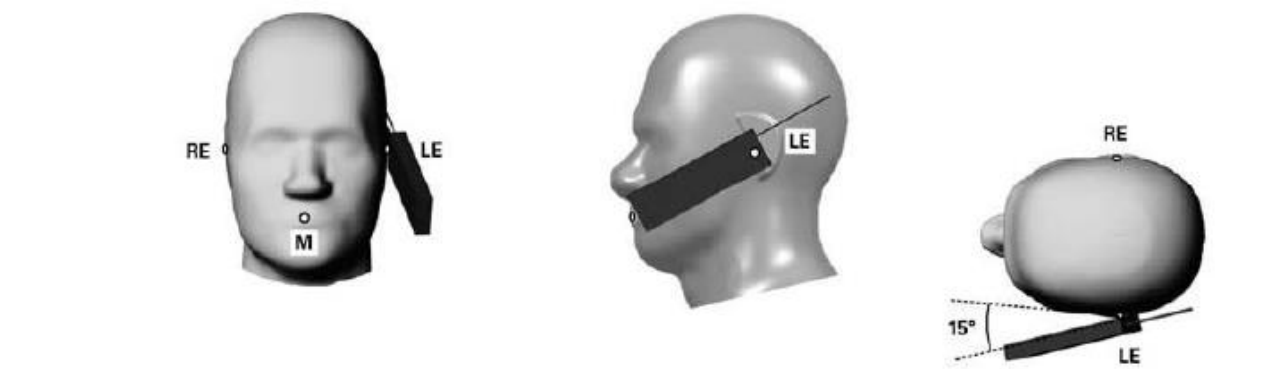


Fig 7.3 Illustration for Tilted Position

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 5mm. a separation distance of 5mm between the phone and the body is used in the measurement conducted for body SAR. This distance represents a typical phone-skin distance when the phone is close to the body e.g. located in pants pocket taking into consideration typical average clothing fabric thickness.

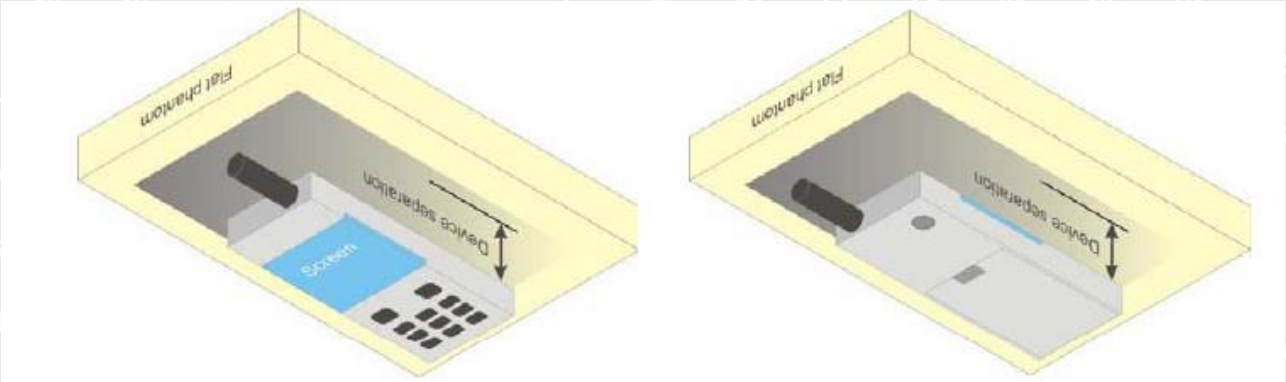


Fig 7.4 Illustration for Body Worn Position

7.5 EUT Antenna Position

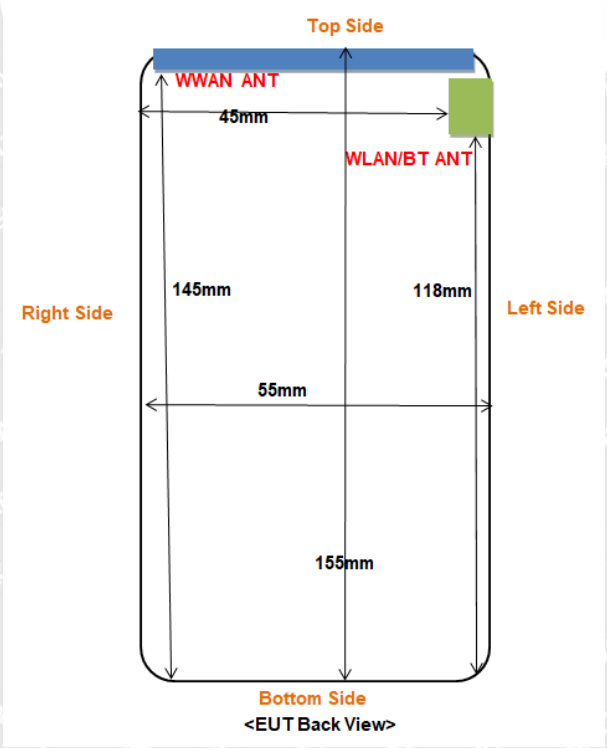


Fig 7.2 Block Diagram for EUT Antenna Position

Distance of EUT antenna-to-edge/surface(mm), Test distance:0mm/5mm						
Antennas	Back side	Front side	Left Edge	Right Edge	Top Edge	Bottom Edge
WWAN	<25	<25	<25	<25	<25	145
WLAN/BT	<25	<25	<25	45	<25	118

7.4 EUT Testing Position

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

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

Body SAR tests, Test distance: 5mm						
Antennas	**Front**	**Back**	**Right Side**	**Left Side**	**Top Side**	**Bottom Side**
WWAN	Yes	Yes	Yes	Yes	Yes	No
WLAN/BT	Yes	Yes	No	Yes	Yes	No

Limb SAR tests, Test distance: 0mm						
Antennas	**Front**	**Back**	**Right Side**	**Left Side**	**Top Side**	**Bottom Side**
WWAN	Yes	Yes	Yes	Yes	Yes	No
WLAN/BT	Yes	Yes	No	Yes	Yes	No

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

8. SAR Measurement Procedures

8.1 Measurement Procedures

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

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:
(a) Power reference measurement
(b) Area scan
(c) Zoom scan
(d) Power drift measurement

8.2 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The SATIMO software includes all numerical procedures necessary to evaluate the spatial peak SAR value.
The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.
The entire evaluation of the spatial peak values is performed within the post-processing engine. The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:
(a) Extraction of the measured data (grid and values) from the Zoom Scan
(b) Calculation of the SAR value at every measurement point based on all stored data
(c) Generation of a high-resolution mesh within the measured volume
(d) Interpolation of all measured values form 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	**GSM900**			**GSM1800**		
Channel	**975**	**60**	**124**	**513**	**698**	**880**
Frequency (MHz)	**880.2**	**902.0**	**914.8**	**1710.4**	**1747.4**	**1783.8**
GSM	**32.20**	32.00	31.90	28.20	28.60	**29.20**
GPRS (1 slot)	32.34	32.09	32.01	28.22	28.60	29.17
GPRS (2 slots)	31.83	31.51	31.41	27.45	27.82	28.47
GPRS (3 slots)	30.35	29.97	29.84	25.69	26.04	26.71
GPRS (4 slots)	**29.24**	28.89	28.72	24.51	24.86	**25.53**
EGPRS (1 slot)	27.20	27.16	27.05	25.91	25.92	24.70
EGPRS (2 slots)	24.94	25.14	25.17	23.51	23.73	23.96
EGPRS (3 slots)	24.32	24.35	24.26	23.27	23.60	23.87
EGPRS (4 slots)	21.77	21.78	21.78	21.25	21.57	21.84

GSM - Source-Based Time-Average Power (dBm)						
Band	**GSM900**			**GSM1800**		
Channel	**975**	**60**	**124**	**513**	**698**	**880**
Frequency (MHz)	**880.2**	**902.0**	**914.8**	**1710.4**	**1747.4**	**1783.8**
GSM	23.20	23.00	22.90	19.20	19.60	20.20
GPRS (1 slot)	23.34	23.09	23.01	19.22	19.60	20.17
GPRS (2 slots)	25.83	25.51	25.41	21.45	21.82	22.47
GPRS (3 slots)	26.10	25.72	25.59	21.44	21.79	22.46
GPRS (4 slots)	**26.24**	25.89	25.72	21.51	21.86	**22.53**
EGPRS (1 slot)	18.20	18.16	18.05	16.91	16.92	15.70
EGPRS (2 slots)	18.94	19.14	19.17	17.51	17.73	17.96
EGPRS (3 slots)	20.07	20.10	20.01	19.02	19.35	19.62
EGPRS (4 slots)	18.77	18.78	18.78	18.25	18.57	18.84
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 Body SAR testing, GPRS should be evaluated, therefore the EUT was set in GPRS (2Tx slots) for GSM900 and GPRS (3Tx slots) for GSM1800 due to its highest source-based time-average power.
2. The DUT do not support DTM function.

WCDMA - Average Power (dBm)						
Band	**WCDMA Band I**			**WCDMA Band VIII**		
Channel	**9613**	**9750**	**9887**	**2713**	**2788**	**2862**
Frequency (MHz)	**1922.6**	**1950**	**1977.4**	**882.6**	**897.6**	**912.4**
RMC	23.33	23.41	**23.56**	**23.27**	23.21	23.11
HSDPA Subtest-1	22.42	22.98	22.59	21.83	22.68	22.46
HSDPA Subtest-2	22.39	22.96	22.53	21.80	22.62	22.43
HSDPA Subtest-3	22.37	22.97	22.56	21.82	22.65	22.40
HSDPA Subtest-4	22.40	22.95	22.55	21.79	22.66	22.41
HSUPA Subtest-1	22.38	22.96	22.54	21.67	22.65	22.38
HSUPA Subtest-2	22.35	22.91	22.51	21.62	22.60	22.35
HSUPA Subtest-3	22.36	22.90	22.53	21.64	22.62	22.33
HSUPA Subtest-4	22.37	22.92	22.49	21.63	22.59	22.34
HSUPA Subtest-5	22.34	22.89	22.50	21.66	22.61	22.31

LTE Band 1:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band1	5MHz	QPSK	18025	1RB#0	22.25	PASS
NTNV	Band1	5MHz	QPSK	18025	8RB#0	22.22	PASS
NTNV	Band1	5MHz	QPSK	18300	1RB#0	21.83	PASS
NTNV	Band1	5MHz	QPSK	18300	8RB#0	21.85	PASS
NTNV	Band1	5MHz	QPSK	18575	1RB#24	21.74	PASS
NTNV	Band1	5MHz	QPSK	18575	8RB#17	21.72	PASS
NTNV	Band1	20MHz	QPSK	18100	1RB#0	**22.43**	PASS
NTNV	Band1	20MHz	QPSK	18100	18RB#0	21.40	PASS
NTNV	Band1	20MHz	QPSK	18300	1RB#0	21.24	PASS
NTNV	Band1	20MHz	QPSK	18300	18RB#0	21.30	PASS
NTNV	Band1	20MHz	QPSK	18500	1RB#99	20.98	PASS
NTNV	Band1	20MHz	QPSK	18500	18RB#82	20.97	PASS

LTE Band 3:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band3	1.4MHz	QPSK	19207	1RB#0	22.72	PASS
NTNV	Band3	1.4MHz	QPSK	19575	1RB#0	22.39	PASS
NTNV	Band3	1.4MHz	QPSK	19575	5RB#0	22.67	PASS
NTNV	Band3	1.4MHz	QPSK	19943	1RB#0	22.31	PASS
NTNV	Band3	5MHz	QPSK	19225	1RB#0	22.26	PASS
NTNV	Band3	5MHz	QPSK	19225	1RB#24	22.22	PASS
NTNV	Band3	5MHz	QPSK	19575	1RB#0	22.53	PASS
NTNV	Band3	5MHz	QPSK	19575	1RB#24	22.37	PASS
NTNV	Band3	5MHz	QPSK	19575	8RB#0	22.49	PASS
NTNV	Band3	5MHz	QPSK	19925	1RB#0	21.94	PASS
NTNV	Band3	5MHz	QPSK	19925	1RB#24	21.83	PASS
NTNV	Band3	20MHz	QPSK	19300	1RB#0	22.42	PASS
NTNV	Band3	20MHz	QPSK	19300	1RB#99	21.90	PASS
NTNV	Band3	20MHz	QPSK	19575	1RB#0	22.31	PASS
NTNV	Band3	20MHz	QPSK	19575	1RB#99	22.10	PASS
NTNV	Band3	20MHz	QPSK	19575	18RB#0	**22.89**	PASS
NTNV	Band3	20MHz	QPSK	19850	1RB#0	21.98	PASS
NTNV	Band3	20MHz	QPSK	19850	1RB#99	21.60	PASS

LTE Band 7:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band7	5MHz	QPSK	20775	1RB#0	23.42	PASS
NTNV	Band7	5MHz	QPSK	20775	1RB#24	23.47	PASS
NTNV	Band7	5MHz	QPSK	21100	1RB#0	23.69	PASS
NTNV	Band7	5MHz	QPSK	21100	1RB#24	23.68	PASS
NTNV	Band7	5MHz	QPSK	21100	8RB#0	23.60	PASS
NTNV	Band7	5MHz	QPSK	21425	1RB#0	23.88	PASS
NTNV	Band7	5MHz	QPSK	21425	1RB#24	23.79	PASS
NTNV	Band7	20MHz	QPSK	20850	1RB#0	23.75	PASS
NTNV	Band7	20MHz	QPSK	20850	1RB#99	23.53	PASS
NTNV	Band7	20MHz	QPSK	21100	1RB#0	23.65	PASS
NTNV	Band7	20MHz	QPSK	21100	1RB#99	23.85	PASS
NTNV	Band7	20MHz	QPSK	21100	18RB#0	23.60	PASS
NTNV	Band7	20MHz	QPSK	21350	1RB#0	23.83	PASS
NTNV	Band7	20MHz	QPSK	21350	1RB#99	**23.89**	PASS

LTE Band 8:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band8	1.4MHz	QPSK	21457	1RB#0	22.56	PASS
NTNV	Band8	1.4MHz	QPSK	21625	1RB#0	22.69	PASS
NTNV	Band8	1.4MHz	QPSK	21625	5RB#0	22.77	PASS
NTNV	Band8	1.4MHz	QPSK	21793	1RB#0	22.88	PASS
NTNV	Band8	5MHz	QPSK	21475	1RB#0	22.03	PASS
NTNV	Band8	5MHz	QPSK	21475	1RB#24	22.13	PASS
NTNV	Band8	5MHz	QPSK	21625	1RB#0	22.21	PASS
NTNV	Band8	5MHz	QPSK	21625	1RB#24	22.13	PASS
NTNV	Band8	5MHz	QPSK	21625	8RB#0	22.24	PASS
NTNV	Band8	5MHz	QPSK	21775	1RB#0	22.29	PASS
NTNV	Band8	5MHz	QPSK	21775	1RB#24	22.32	PASS
NTNV	Band8	10MHz	QPSK	21500	1RB#0	22.41	PASS
NTNV	Band8	10MHz	QPSK	21500	1RB#49	22.27	PASS
NTNV	Band8	10MHz	QPSK	21625	1RB#0	22.27	PASS
NTNV	Band8	10MHz	QPSK	21625	1RB#49	22.13	PASS
NTNV	Band8	10MHz	QPSK	21625	12RB#0	22.25	PASS
NTNV	Band8	10MHz	QPSK	21750	1RB#0	**22.95**	PASS
NTNV	Band8	10MHz	QPSK	21750	1RB#49	22.29	PASS

LTE Band 20:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band20	5MHz	QPSK	24175	1RB#0	22.38	PASS
NTNV	Band20	5MHz	QPSK	24175	1RB#24	22.27	PASS
NTNV	Band20	5MHz	QPSK	24300	1RB#0	22.38	PASS
NTNV	Band20	5MHz	QPSK	24300	1RB#24	22.39	PASS
NTNV	Band20	5MHz	QPSK	24300	8RB#0	22.36	PASS
NTNV	Band20	5MHz	QPSK	24425	1RB#0	22.41	PASS
NTNV	Band20	5MHz	QPSK	24425	1RB#24	22.37	PASS
NTNV	Band20	20MHz	QPSK	24250	1RB#0	**22.45**	PASS
NTNV	Band20	20MHz	QPSK	24250	1RB#99	22.20	PASS
NTNV	Band20	20MHz	QPSK	24300	1RB#0	22.02	PASS
NTNV	Band20	20MHz	QPSK	24300	1RB#99	22.05	PASS
NTNV	Band20	20MHz	QPSK	24300	18RB#0	22.15	PASS
NTNV	Band20	20MHz	QPSK	24350	1RB#0	22.09	PASS
NTNV	Band20	20MHz	QPSK	24350	1RB#99	22.10	PASS

LTE Band 28:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band28	3MHz	QPSK	27225	1RB#0	22.55	PASS
NTNV	Band28	3MHz	QPSK	27225	4RB#0	22.56	PASS
NTNV	Band28	3MHz	QPSK	27375	1RB#0	22.75	PASS
NTNV	Band28	3MHz	QPSK	27375	4RB#0	22.68	PASS
NTNV	Band28	3MHz	QPSK	27645	1RB#14	22.84	PASS
NTNV	Band28	3MHz	QPSK	27645	4RB#11	22.97	PASS
NTNV	Band28	5MHz	QPSK	27235	1RB#24	22.04	PASS
NTNV	Band28	5MHz	QPSK	27235	8RB#17	21.99	PASS
NTNV	Band28	5MHz	QPSK	27385	1RB#24	22.55	PASS
NTNV	Band28	5MHz	QPSK	27385	8RB#17	22.30	PASS
NTNV	Band28	5MHz	QPSK	27635	1RB#24	22.27	PASS
NTNV	Band28	5MHz	QPSK	27635	8RB#17	22.19	PASS
NTNV	Band28	20MHz	QPSK	27310	1RB#0	**22.99**	PASS
NTNV	Band28	20MHz	QPSK	27310	18RB#0	22.00	PASS
NTNV	Band28	20MHz	QPSK	27460	1RB#0	21.91	PASS
NTNV	Band28	20MHz	QPSK	27460	18RB#0	21.95	PASS
NTNV	Band28	20MHz	QPSK	27560	1RB#99	21.87	PASS
NTNV	Band28	20MHz	QPSK	27560	18RB#82	21.93	PASS

LTE Band 38:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band38	5MHz	QPSK	37775	1RB#0	21.31	PASS
NTNV	Band38	5MHz	QPSK	37775	8RB#0	21.39	PASS
NTNV	Band38	5MHz	QPSK	38000	1RB#0	21.56	PASS
NTNV	Band38	5MHz	QPSK	38000	8RB#0	21.63	PASS
NTNV	Band38	5MHz	QPSK	38225	1RB#24	21.62	PASS
NTNV	Band38	5MHz	QPSK	38225	8RB#17	21.66	PASS
NTNV	Band38	20MHz	QPSK	37850	1RB#0	21.22	PASS
NTNV	Band38	20MHz	QPSK	37850	18RB#0	21.33	PASS
NTNV	Band38	20MHz	QPSK	38000	1RB#0	21.50	PASS
NTNV	Band38	20MHz	QPSK	38000	18RB#0	**21.75**	PASS
NTNV	Band38	20MHz	QPSK	38150	1RB#99	21.39	PASS
NTNV	Band38	20MHz	QPSK	38150	18RB#82	21.46	PASS

LTE Band 40:

Condition	Band	Channel Bandwidth	Modulation	Channel	RB Configure	Result (dBm)	Verdict
NTNV	Band40	5MHz	QPSK	38675	1RB#0	21.08	PASS
NTNV	Band40	5MHz	QPSK	38675	8RB#0	21.19	PASS
NTNV	Band40	5MHz	QPSK	39150	1RB#0	21.63	PASS
NTNV	Band40	5MHz	QPSK	39150	8RB#0	21.65	PASS
NTNV	Band40	5MHz	QPSK	39625	1RB#24	21.47	PASS
NTNV	Band40	5MHz	QPSK	39625	8RB#17	21.57	PASS
NTNV	Band40	20MHz	QPSK	38750	1RB#0	20.90	PASS
NTNV	Band40	20MHz	QPSK	38750	18RB#0	21.05	PASS
NTNV	Band40	20MHz	QPSK	39150	1RB#0	21.38	PASS
NTNV	Band40	20MHz	QPSK	39150	18RB#0	**21.72**	PASS
NTNV	Band40	20MHz	QPSK	39550	1RB#99	21.29	PASS
NTNV	Band40	20MHz	QPSK	39550	18RB#82	21.37	PASS

WLAN(2.4GHz)				
Test Mode	**Data Rate**	**Channel**	**Frequency (MHz)**	**Conducted Power (dBm)**
802.11b	11Mbps	CH 01	2412	13.03
		CH 07	2442	**13.30**
		CH 13	2472	13.02
802.11g	54Mbps	CH 01	2412	12.43
		CH 07	2442	12.43
		CH 13	2472	12.65
802.11n (20MHz)	MCS7	CH 01	2412	10.80
		CH 07	2442	11.75
		CH 13	2472	11.28
802.11n (40MHz)	MCS7	CH 03	2422	10.76
		CH 07	2442	10.05
		CH 11	2462	10.32

Note: Conducted Power = EIRP - Antenna gain (x dBi) - Cable loss (x dB)

Bluetooth		
Test Mode	**Data Rate**	**EIRP Power (dBm)**
GFSK	1Mbps	6.50
π/4 DQPSK	2Mbps	5.02
8DPSK	3Mbps	5.92

Bluetooth				
Test Mode	**Data Rate**	**Channel**	**Frequency (MHz)**	**EIRP Power (dBm)**
BLE	1Mbps	CH 00	2402	8.58
		CH 19	2440	**8.64**
		CH 39	2480	8.48

Remark:

1. Since EIRP power of BT at worse case is: 8.64dBm(7.31mW) which not exceed the exempt condition, 20mW specified in EN 50663. It is deemed to full fit the requirement of RF exposure basic restriction specified in EC Council Recommendation (1999/519/EC).

9.2 Test Results for Standalone SAR Test

Head SAR

GSM900 –Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM900	Right Cheek	60	902.0	32.00	32.5	1.122	0.035	0.039
	GSM900	Right Tilted	60	902.0	32.00	32.5	1.122	0.032	0.036
	GSM900	Left Cheek	60	902.0	32.00	32.5	1.122	0.081	0.091
	GSM900	Left Tilted	60	902.0	32.00	32.5	1.122	0.078	0.088
1.	GSM900	Left Cheek	975	880.2	32.20	32.5	1.072	0.155	**0.166**
	GSM900	Left Cheek	124	914.8	31.90	32.5	1.148	0.049	0.056

GSM1800 –Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM1800	Right Cheek	698	1747.4	28.60	29.5	1.230	0.302	0.372
	GSM1800	Right Tilted	698	1747.4	28.60	29.5	1.230	0.285	0.351
2.	GSM1800	Left Cheek	698	1747.4	28.60	29.5	1.230	0.314	**0.386**
	GSM1800	Left Tilted	698	1747.4	28.60	29.5	1.230	0.289	0.356
	GSM1800	Left Cheek	513	1710.4	28.20	29.5	1.349	0.283	0.382
	GSM1800	Left Cheek	880	1783.8	29.20	29.5	1.072	0.348	0.373

WCDMA Band I–Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	9750	1950	23.41	24.0	1.146	0.205	0.235
	RMC	Right Tilted	9750	1950	23.41	24.0	1.146	0.185	0.212
	RMC	Left Cheek	9750	1950	23.41	24.0	1.146	0.089	0.102
	RMC	Left Tilted	9750	1950	23.41	24.0	1.146	0.081	0.093
3.	RMC	Right Cheek	9613	1922.6	23.33	24.0	1.167	0.237	**0.277**
	RMC	Right Cheek	9887	1977.4	23.56	24.0	1.107	0.180	0.199

WCDMA Band VIII –Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	RMC	Right Cheek	2788	897.6	23.21	23.5	1.069	0.076	0.081
	RMC	Right Tilted	2788	897.6	23.21	23.5	1.069	0.071	0.076
	RMC	Left Cheek	2788	897.6	23.21	23.5	1.069	0.098	0.105
	RMC	Left Tilted	2788	897.6	23.21	23.5	1.069	0.086	0.092
4.	RMC	Left Cheek	2713	882.6	23.27	23.5	1.054	0.177	**0.187**
	RMC	Left Cheek	2862	912.4	23.11	23.5	1.094	0.071	0.078

FDD-LTE Band 1–Head SAR Test								
Plot No.	Mode	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	Modulation, Bandwidth							
5.	QPSK,20MHz	Right Cheek	1950	21.30	22.5	1.318	0.210	**0.277**
	QPSK,20MHz	Right Tilted	1950	21.30	22.5	1.318	0.186	0.245
	QPSK,20MHz	Left Cheek	1950	21.30	22.5	1.318	0.133	0.175
	QPSK,20MHz	Left Tilted	1950	21.30	22.5	1.318	0.124	0.163
	QPSK,20MHz	Right Cheek	1930	22.43	22.5	1.016	0.213	0.216
	QPSK,20MHz	Right Cheek	1970	20.97	22.5	1.422	0.170	0.242

FDD-LTE Band 3–Head SAR Test								
Plot No.	Mode	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	Modulation, Bandwidth							
	QPSK,20MHz	Right Cheek	1747.5	22.89	23.0	1.026	0.250	0.256
	QPSK,20MHz	Right Tilted	1747.5	22.89	23.0	1.026	0.237	0.243
	QPSK,20MHz	Left Cheek	1747.5	22.89	23.0	1.026	0.253	0.259
	QPSK,20MHz	Left Tilted	1747.5	22.89	23.0	1.026	0.239	0.245
	QPSK,20MHz	Right Cheek	1720	22.42	23.0	1.143	0.264	0.302
6.	QPSK,20MHz	Right Cheek	1775	21.98	23.0	1.265	0.260	**0.329**

FDD-LTE Band 7–Head SAR Test								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
7.	QPSK,20MHz	Right Cheek	2535	23.85	24.0	1.035	0.218	**0.226**
	QPSK,20MHz	Right Tilted	2535	23.85	24.0	1.035	0.196	0.203
	QPSK,20MHz	Left Cheek	2535	23.85	24.0	1.035	0.116	0.120
	QPSK,20MHz	Left Tilted	2535	23.85	24.0	1.035	0.102	0.106
	QPSK,20MHz	Right Cheek	2510	23.75	24.0	1.059	0.142	0.150
	QPSK,20MHz	Right Cheek	2560	23.89	24.0	1.026	0.124	0.127

FDD-LTE Band 8–Head SAR Test								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,10MHz	Right Cheek	897.5	22.27	23.0	1.183	0.124	0.147
	QPSK,10MHz	Right Tilted	897.5	22.27	23.0	1.183	0.103	0.122
8.	QPSK,10MHz	Left Cheek	897.5	22.27	23.0	1.183	0.132	**0.156**
	QPSK,10MHz	Left Tilted	897.5	22.27	23.0	1.183	0.109	0.129
	QPSK,10MHz	Left Cheek	885.0	22.41	23.0	1.146	0.133	0.152
	QPSK,10MHz	Left Cheek	910.0	22.95	23.0	1.012	0.063	0.064

FDD-LTE Band 20–Head SAR Test								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
9.	QPSK,20MHz	Right Cheek	847	22.15	22.5	1.084	0.331	**0.359**
	QPSK,20MHz	Right Tilted	847	22.15	22.5	1.084	0.301	0.326
	QPSK,20MHz	Left Cheek	847	22.15	22.5	1.084	0.295	0.320
	QPSK,20MHz	Left Tilted	847	22.15	22.5	1.084	0.275	0.298
	QPSK,20MHz	Right Cheek	842	22.45	22.5	1.012	0.274	0.277
	QPSK,20MHz	Right Cheek	852	22.10	22.5	1.096	0.285	0.312

FDD-LTE Band 28–Head SAR Test								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Right Cheek	725	21.95	23.0	1.274	0.102	0.130
	QPSK,20MHz	Right Tilted	725	21.95	23.0	1.274	0.085	0.108
	QPSK,20MHz	Left Cheek	725	21.95	23.0	1.274	0.089	0.113
	QPSK,20MHz	Left Tilted	725	21.95	23.0	1.274	0.072	0.092
	QPSK,20MHz	Right Cheek	713	22.99	23.0	1.002	0.090	0.090
10.	QPSK,20MHz	Right Cheek	738	21.93	23.0	1.279	0.121	**0.155**

TDD-LTE Band 38–Head SAR Test								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Right Cheek	2595	21.75	22.0	1.059	0.075	0.079
	QPSK,20MHz	Right Tilted	2595	21.75	22.0	1.059	0.072	0.076
	QPSK,20MHz	Left Cheek	2595	21.75	22.0	1.059	0.047	0.050
	QPSK,20MHz	Left Tilted	2595	21.75	22.0	1.059	0.046	0.049
	QPSK,20MHz	Right Cheek	2580	21.22	22.0	1.197	0.071	0.085
11.	QPSK,20MHz	Right Cheek	2610	21.46	22.0	1.132	0.080	**0.091**

TDD-LTE Band 40–Head SAR Test								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Right Cheek	2350	21.72	22.0	1.067	0.078	0.083
	QPSK,20MHz	Right Tilted	2350	21.72	22.0	1.067	0.072	0.077
	QPSK,20MHz	Left Cheek	2350	21.72	22.0	1.067	0.041	0.044
	QPSK,20MHz	Left Tilted	2350	21.72	22.0	1.067	0.038	0.041
12.	QPSK,20MHz	Right Cheek	2310	21.05	22.0	1.245	0.079	**0.098**
	QPSK,20MHz	Right Cheek	2390	21.37	22.0	1.156	0.079	0.091

WLAN 2.4GHz–Head SAR Test									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	802.11b	Right Cheek	07	2442	13.30	13.5	1.047	0.026	0.027
	802.11b	Right Tilted	07	2442	13.30	13.5	1.047	0.024	0.025
	802.11b	Left Cheek	07	2442	13.30	13.5	1.047	0.012	0.013
	802.11b	Left Tilted	07	2442	13.30	13.5	1.047	0.010	0.010
	802.11b	Right Cheek	01	2412	13.03	13.5	1.114	0.030	0.033
13.	802.11b	Right Cheek	13	2472	13.02	13.5	1.117	0.039	**0.044**

Body SAR: 5mm

GSM900 –Body SAR Test(5mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM	Back Face	60	902.0	32.00	32.5	1.122	0.249	0.279
	GSM	Front Face	60	902.0	32.00	32.5	1.122	0.059	0.066
	GSM	Back Face	975	880.2	32.20	32.5	1.072	0.277	0.297
	GSM	Back Face	124	914.8	31.90	32.5	1.148	0.193	0.222
	GPRS_4TX	Back Face	60	902.0	28.89	29.5	1.151	0.532	0.612
	GPRS_4TX	Front Face	60	902.0	28.89	29.5	1.151	0.164	0.189
	GPRS_4TX	Right Side	60	902.0	28.89	29.5	1.151	0.123	0.142
	GPRS_4TX	Left Side	60	902.0	28.89	29.5	1.151	0.108	0.124
	GPRS_4TX	Top Side	60	902.0	28.89	29.5	1.151	0.142	0.163
14.	GPRS_4TX	Back Face	975	880.2	29.24	29.5	1.062	1.042	**1.106**
	GPRS_4TX	Back Face	124	914.8	28.72	29.5	1.197	0.395	0.473

GSM1800 –Body SAR Test(5mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM	Back Face	698	1747.4	28.60	29.5	1.230	0.537	0.661
	GSM	Front Face	698	1747.4	28.60	29.5	1.230	0.241	0.296
	GSM	Back Face	513	1710.4	28.20	29.5	1.349	0.543	0.732
	GSM	Back Face	880	1783.8	29.20	29.5	1.072	0.412	0.441
	GPRS_4TX	Back Face	698	1747.4	24.86	26.0	1.300	0.839	1.091
	GPRS_4TX	Front Face	698	1747.4	24.86	26.0	1.300	0.357	0.464
	GPRS_4TX	Right Side	698	1747.4	24.86	26.0	1.300	0.254	0.330
	GPRS_4TX	Left Side	698	1747.4	24.86	26.0	1.300	0.286	0.372
	GPRS_4TX	Top Side	698	1747.4	24.86	26.0	1.300	0.417	0.542
	GPRS_4TX	Back Face	513	1710.4	24.51	26.0	1.409	0.718	1.012
15.	GPRS_4TX	Back Face	880	1783.8	25.53	26.0	1.114	1.004	**1.119**

WCDMA Band I– Body SAR Test(5mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	RMC	Back Face	9750	1950	23.41	24.0	1.146	0.344	0.394
	RMC	Front Face	9750	1950	23.41	24.0	1.146	0.124	0.142
	RMC	Right Side	9750	1950	23.41	24.0	1.146	0.085	0.097
	RMC	Left Side	9750	1950	23.41	24.0	1.146	0.096	0.110
	RMC	Top Side	9750	1950	23.41	24.0	1.146	0.108	0.124
	RMC	Back Face	9613	1922.6	23.33	24.0	1.167	0.322	0.376
16.	RMC	Back Face	9887	1977.4	23.56	24.0	1.107	0.363	**0.402**

WCDMA Band VIII– Body SAR Test(5mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	RMC	Back Face	2788	897.6	23.21	23.5	1.069	0.196	0.210
	RMC	Front Face	2788	897.6	23.21	23.5	1.069	0.062	0.066
	RMC	Right Side	2788	897.6	23.21	23.5	1.069	0.087	0.093
	RMC	Left Side	2788	897.6	23.21	23.5	1.069	0.098	0.105
	RMC	Top Side	2788	897.6	23.21	23.5	1.069	0.110	0.118
17.	RMC	Back Face	2713	882.6	23.27	23.5	1.054	0.281	**0.296**
	RMC	Back Face	2862	912.4	23.11	23.5	1.094	0.198	0.217

FDD-LTE Band 1– Body SAR Test(5mm)								
Plot No.	Mode	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	Modulation, Bandwidth							
	QPSK,20MHz	Back Face	1950	21.30	22.5	1.318	0.219	0.289
	QPSK,20MHz	Front Face	1950	21.30	22.5	1.318	0.122	0.161
	QPSK,20MHz	Right Side	1950	21.30	22.5	1.318	0.089	0.117
	QPSK,20MHz	Left Side	1950	21.30	22.5	1.318	0.101	0.133
	QPSK,20MHz	Top Side	1950	21.30	22.5	1.318	0.113	0.149
	QPSK,20MHz	Back Face	1930	22.43	22.5	1.016	0.223	0.227
18.	QPSK,20MHz	Back Face	1970	20.97	22.5	1.422	0.222	**0.316**

FDD-LTE Band 3– Body SAR Test(5mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	1747.5	22.89	23.0	1.026	0.483	0.495
	QPSK,20MHz	Front Face	1747.5	22.89	23.0	1.026	0.184	0.189
	QPSK,20MHz	Right Side	1747.5	22.89	23.0	1.026	0.096	0.098
	QPSK,20MHz	Left Side	1747.5	22.89	23.0	1.026	0.108	0.111
	QPSK,20MHz	Top Side	1747.5	22.89	23.0	1.026	0.231	0.237
19.	QPSK,20MHz	Back Face	1720	22.42	23.0	1.143	0.579	**0.662**
	QPSK,20MHz	Back Face	1775	21.98	23.0	1.265	0.404	0.511

FDD-LTE Band 7– Body SAR Test(5mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
20.	QPSK,20MHz	Back Face	2535	23.85	24	1.035	0.234	**0.242**
	QPSK,20MHz	Front Face	2535	23.85	24	1.035	0.111	0.115
	QPSK,20MHz	Right Side	2535	23.85	24	1.035	0.049	0.051
	QPSK,20MHz	Left Side	2535	23.85	24	1.035	0.085	0.088
	QPSK,20MHz	Top Side	2535	23.85	24	1.035	0.150	0.155
	QPSK,20MHz	Back Face	2510	23.75	24	1.059	0.213	0.226
	QPSK,20MHz	Back Face	2560	23.89	24	1.026	0.156	0.160

FDD-LTE Band 8– Body SAR Test(5mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,10MHz	Back Face	897.5	22.27	23.0	1.183	0.154	0.182
	QPSK,10MHz	Front Face	897.5	22.27	23.0	1.183	0.026	0.031
	QPSK,10MHz	Right Side	897.5	22.27	23.0	1.183	0.035	0.041
	QPSK,10MHz	Left Side	897.5	22.27	23.0	1.183	0.078	0.092
	QPSK,10MHz	Top Side	897.5	22.27	23.0	1.183	0.127	0.150
21.	QPSK,10MHz	Back Face	885.0	22.41	23.0	1.146	0.321	**0.368**
	QPSK,10MHz	Back Face	910.0	22.95	23.0	1.012	0.125	0.126

FDD-LTE Band 20– Body SAR Test(5mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
22.	QPSK,20MHz	Back Face	847	22.15	22.5	1.084	0.276	**0.299**
	QPSK,20MHz	Front Face	847	22.15	22.5	1.084	0.264	0.286
	QPSK,20MHz	Right Side	847	22.15	22.5	1.084	0.154	0.167
	QPSK,20MHz	Left Side	847	22.15	22.5	1.084	0.129	0.140
	QPSK,20MHz	Top Side	847	22.15	22.5	1.084	0.090	0.098
	QPSK,20MHz	Back Face	842	22.45	22.5	1.012	0.271	0.274
	QPSK,20MHz	Back Face	852	22.10	22.5	1.096	0.257	0.282

FDD-LTE Band 28– Body SAR Test(5mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
23.	QPSK,20MHz	Back Face	725	21.95	23.0	1.274	0.163	**0.208**
	QPSK,20MHz	Front Face	725	21.95	23.0	1.274	0.089	0.113
	QPSK,20MHz	Right Side	725	21.95	23.0	1.274	0.097	0.124
	QPSK,20MHz	Left Side	725	21.95	23.0	1.274	0.102	0.130
	QPSK,20MHz	Top Side	725	21.95	23.0	1.274	0.121	0.154
	QPSK,20MHz	Back Face	713	22.99	23.0	1.002	0.116	0.116
	QPSK,20MHz	Back Face	738	21.93	23.0	1.279	0.153	0.196

TDD-LTE Band 38– Body SAR Test(5mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	2595	21.75	22.0	1.059	0.086	0.091
	QPSK,20MHz	Front Face	2595	21.75	22.0	1.059	0.049	0.052
	QPSK,20MHz	Right Side	2595	21.75	22.0	1.059	0.020	0.021
	QPSK,20MHz	Left Side	2595	21.75	22.0	1.059	0.082	0.087
	QPSK,20MHz	Top Side	2595	21.75	22.0	1.059	0.056	0.059
	QPSK,20MHz	Back Face	2580	21.22	22.0	1.197	0.084	0.101
24.	QPSK,20MHz	Back Face	2610	21.46	22.0	1.132	0.089	**0.101**

TDD-LTE Band 40– Body SAR Test(5mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	2350	21.72	22.0	1.067	0.123	0.131
	QPSK,20MHz	Front Face	2350	21.72	22.0	1.067	0.027	0.029
	QPSK,20MHz	Right Side	2350	21.72	22.0	1.067	0.028	0.030
	QPSK,20MHz	Left Side	2350	21.72	22.0	1.067	0.073	0.078
	QPSK,20MHz	Top Side	2350	21.72	22.0	1.067	0.118	0.126
	QPSK,20MHz	Back Face	2310	21.05	22.0	1.245	0.185	0.230
25.	QPSK,20MHz	Back Face	2390	21.37	22.0	1.156	0.208	**0.240**

WLAN 2.4GHz– Body SAR Test(5mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	802.11b	Back Face	07	2442	13.30	13.5	1.047	0.022	0.023
	802.11b	Front Face	07	2442	13.30	13.5	1.047	0.016	0.017
	802.11b	Left Side	07	2442	13.30	13.5	1.047	0.019	0.020
	802.11b	Top Side	07	2442	13.30	13.5	1.047	0.007	0.007
26.	802.11b	Back Face	01	2412	13.03	13.5	1.114	0.034	**0.038**
	802.11b	Back Face	13	2472	13.02	13.5	1.117	0.029	0.032

Limb SAR: 0mm

GSM900 –Limb SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM	Back Face	60	902.0	32.00	32.5	1.122	0.281	0.315
	GSM	Front Face	60	902.0	32.00	32.5	1.122	0.044	0.049
	GSM	Back Face	975	880.2	32.20	32.5	1.072	0.378	0.405
	GSM	Back Face	124	914.8	31.90	32.5	1.148	0.223	0.256
	GPRS_4TX	Back Face	60	902.0	28.89	29.5	1.151	0.622	0.716
	GPRS_4TX	Front Face	60	902.0	28.89	29.5	1.151	0.315	0.363
	GPRS_4TX	Right Side	60	902.0	28.89	29.5	1.151	0.264	0.304
	GPRS_4TX	Left Side	60	902.0	28.89	29.5	1.151	0.247	0.284
	GPRS_4TX	Top Side	60	902.0	28.89	29.5	1.151	0.291	0.335
27.	GPRS_4TX	Back Face	975	880.2	29.24	29.5	1.062	1.216	**1.291**
	GPRS_4TX	Back Face	124	914.8	28.72	29.5	1.197	0.451	0.540

GSM1800 –Limb SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	GSM	Back Face	698	1747.4	28.60	29.5	1.230	0.793	0.976
	GSM	Front Face	698	1747.4	28.60	29.5	1.230	0.416	0.512
	GSM	Back Face	513	1710.4	28.20	29.5	1.349	0.712	0.960
	GSM	Back Face	880	1783.8	29.20	29.5	1.072	0.696	0.746
28.	GPRS_4TX	Back Face	698	1747.4	24.86	26.0	1.300	1.213	**1.577**
	GPRS_4TX	Front Face	698	1747.4	24.86	26.0	1.300	0.935	1.216
	GPRS_4TX	Right Side	698	1747.4	24.86	26.0	1.300	0.636	0.827
	GPRS_4TX	Left Side	698	1747.4	24.86	26.0	1.300	0.768	0.999
	GPRS_4TX	Top Side	698	1747.4	24.86	26.0	1.300	1.018	1.324
	GPRS_4TX	Back Face	513	1710.4	24.51	26.0	1.409	1.116	1.573
	GPRS_4TX	Back Face	880	1783.8	25.53	26.0	1.114	1.181	1.316

WCDMA Band I–Limb SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	RMC	Back Face	9750	1950	23.41	24.0	1.146	0.496	0.568
	RMC	Front Face	9750	1950	23.41	24.0	1.146	0.384	0.440
	RMC	Right Side	9750	1950	23.41	24.0	1.146	0.175	0.200
	RMC	Left Side	9750	1950	23.41	24.0	1.146	0.189	0.217
	RMC	Top Side	9750	1950	23.41	24.0	1.146	0.304	0.348
29.	RMC	Back Face	9613	1922.6	23.33	24.0	1.167	0.495	**0.578**
	RMC	Back Face	9887	1977.4	23.56	24.0	1.107	0.491	0.543

WCDMA Band VIII–Limb SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
30.	RMC	Back Face	2788	897.6	23.21	23.5	1.069	0.310	**0.331**
	RMC	Front Face	2788	897.6	23.21	23.5	1.069	0.075	0.080
	RMC	Right Side	2788	897.6	23.21	23.5	1.069	0.165	0.176
	RMC	Left Side	2788	897.6	23.21	23.5	1.069	0.189	0.202
	RMC	Top Side	2788	897.6	23.21	23.5	1.069	0.221	0.236
	RMC	Back Face	2713	882.6	23.27	23.5	1.054	0.293	0.309
	RMC	Back Face	2862	912.4	23.11	23.5	1.094	0.233	0.255

FDD-LTE Band 1– Limb SAR Test(0mm)								
Plot No.	Mode	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	Modulation, Bandwidth							
	QPSK,20MHz	Back Face	1950	21.30	22.5	1.318	0.362	0.477
	QPSK,20MHz	Front Face	1950	21.30	22.5	1.318	0.252	0.332
	QPSK,20MHz	Right Side	1950	21.30	22.5	1.318	0.195	0.257
	QPSK,20MHz	Left Side	1950	21.30	22.5	1.318	0.209	0.276
	QPSK,20MHz	Top Side	1950	21.30	22.5	1.318	0.234	0.308
	QPSK,20MHz	Back Face	1930	22.43	22.5	1.016	0.386	0.392
31.	QPSK,20MHz	Back Face	1970	20.97	22.5	1.422	0.352	**0.501**

FDD-LTE Band 3– Limb SAR Test(0mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	1747.5	22.89	23.0	1.026	0.680	0.697
	QPSK,20MHz	Front Face	1747.5	22.89	23.0	1.026	0.344	0.353
	QPSK,20MHz	Right Side	1747.5	22.89	23.0	1.026	0.208	0.213
	QPSK,20MHz	Left Side	1747.5	22.89	23.0	1.026	0.223	0.229
	QPSK,20MHz	Top Side	1747.5	22.89	23.0	1.026	0.462	0.474
32.	QPSK,20MHz	Back Face	1720	22.42	23.0	1.143	0.823	**0.941**
	QPSK,20MHz	Back Face	1775	21.98	23.0	1.265	0.605	0.765

FDD-LTE Band 7– Limb SAR Test(0mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	2535	23.85	24	1.035	0.267	0.276
	QPSK,20MHz	Front Face	2535	23.85	24	1.035	0.218	0.226
	QPSK,20MHz	Right Side	2535	23.85	24	1.035	0.091	0.094
	QPSK,20MHz	Left Side	2535	23.85	24	1.035	0.172	0.178
	QPSK,20MHz	Top Side	2535	23.85	24	1.035	0.214	0.222
33.	QPSK,20MHz	Back Face	2510	23.75	24	1.059	0.373	**0.395**
	QPSK,20MHz	Back Face	2560	23.89	24	1.026	0.258	0.265

FDD-LTE Band 8– Limb SAR Test(0mm)								
Plot No.	Mode: Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,10MHz	Back Face	897.5	22.27	23.0	1.183	0.221	0.261
	QPSK,10MHz	Front Face	897.5	22.27	23.0	1.183	0.068	0.080
	QPSK,10MHz	Right Side	897.5	22.27	23.0	1.183	0.067	0.079
	QPSK,10MHz	Left Side	897.5	22.27	23.0	1.183	0.103	0.122
	QPSK,10MHz	Top Side	897.5	22.27	23.0	1.183	0.197	0.233
34.	QPSK,10MHz	Back Face	885.0	22.41	23.0	1.146	0.254	**0.291**
	QPSK,10MHz	Back Face	910.0	22.95	23.0	1.012	0.187	0.189

FDD-LTE Band 20– Limb SAR Test(0mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	847	22.15	22.5	1.084	0.337	0.365
	QPSK,20MHz	Front Face	847	22.15	22.5	1.084	0.231	0.250
	QPSK,20MHz	Right Side	847	22.15	22.5	1.084	0.217	0.235
	QPSK,20MHz	Left Side	847	22.15	22.5	1.084	0.208	0.225
	QPSK,20MHz	Top Side	847	22.15	22.5	1.084	0.158	0.171
	QPSK,20MHz	Back Face	842	22.45	22.5	1.012	0.321	0.325
35.	QPSK,20MHz	Back Face	852	22.10	22.5	1.096	0.335	**0.367**

FDD-LTE Band 28– Limb SAR Test(0mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	725	21.95	23.0	1.274	0.201	0.256
	QPSK,20MHz	Front Face	725	21.95	23.0	1.274	0.057	0.073
	QPSK,20MHz	Right Side	725	21.95	23.0	1.274	0.152	0.194
	QPSK,20MHz	Left Side	725	21.95	23.0	1.274	0.186	0.237
	QPSK,20MHz	Top Side	725	21.95	23.0	1.274	0.169	0.215
	QPSK,20MHz	Back Face	713	22.99	23.0	1.002	0.242	0.243
36.	QPSK,20MHz	Back Face	738	21.93	23.0	1.279	0.306	**0.391**

TDD-LTE Band 38– Limb SAR Test(0mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	2595	21.75	22.0	1.059	0.160	0.169
	QPSK,20MHz	Front Face	2595	21.75	22.0	1.059	0.102	0.108
	QPSK,20MHz	Right Side	2595	21.75	22.0	1.059	0.053	0.056
	QPSK,20MHz	Left Side	2595	21.75	22.0	1.059	0.156	0.165
	QPSK,20MHz	Top Side	2595	21.75	22.0	1.059	0.108	0.114
	QPSK,20MHz	Back Face	2580	21.22	22.0	1.197	0.148	0.177
37.	QPSK,20MHz	Back Face	2610	21.46	22.0	1.132	0.168	**0.190**

TDD-LTE Band 40-Limb SAR Test(0mm)								
Plot No.	Mode Modulation, Bandwidth	Test Position	Frequency (MHz)	Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
	QPSK,20MHz	Back Face	2350	21.72	22.0	1.067	0.260	0.277
	QPSK,20MHz	Front Face	2350	21.72	22.0	1.067	0.062	0.066
	QPSK,20MHz	Right Side	2350	21.72	22.0	1.067	0.066	0.070
	QPSK,20MHz	Left Side	2350	21.72	22.0	1.067	0.143	0.153
	QPSK,20MHz	Top Side	2350	21.72	22.0	1.067	0.231	0.246
38.	QPSK,20MHz	Back Face	2310	21.05	22.0	1.245	0.270	**0.336**
	QPSK,20MHz	Back Face	2390	21.37	22.0	1.156	0.244	0.282

WLAN 2.4GHz–Limb SAR Test(0mm)									
Plot No.	Mode	Test Position	Frequency		Output Power (dBm)	Rated Limit (dBm)	Scaling Factor	SAR10g (W/kg)	Scaled SAR10g (W/kg)
			CH.	MHz					
	802.11b	Back Face	07	2442	13.30	13.5	1.047	0.033	0.035
	802.11b	Front Face	07	2442	13.30	13.5	1.047	0.021	0.022
	802.11b	Left Side	07	2442	13.30	13.5	1.047	0.029	0.030
	802.11b	Top Side	07	2442	13.30	13.5	1.047	0.010	0.010
39.	802.11b	Back Face	01	2412	13.03	13.5	1.114	0.063	**0.070**
	802.11b	Back Face	13	2472	13.02	13.5	1.117	0.047	0.052

9.3 Simultaneous Multi-band Transmission SAR Analysis

List of Mode for Simultaneous Multi-band Transmission

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

s

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. The maximum SAR summation is calculated based on the same configuration and test position.
4. If 10g-SAR scalar summation < 2.0W/kg, simultaneous SAR measurement is not necessary.
5. One way of determining the threshold power level available to the secondary transmitter ($P_{available}$) is to calculate it from the measured peak spatial-average SAR of the primary transmitter (SAR_1) according to the equation:

$$P_{available} = P_{th,m} \times (SAR_{lim} - SAR_1) / SAR_{lim}$$

where $P_{th,m}$ is the threshold exclusion power level taken from IEC/IEEE 62209-1528:2020 for the frequency of the secondary transmitter at the separation distance used in the testing.

For simultaneous transmission analysis, Bluetooth SAR is below:

Bluetooth:

Average Power (dBm)	Output Power (mW)	$P_{th,m}$ (mw)	SAR_{lim} (W/kg)	SAR_1 (W/kg)	$P_{available}$ (mw)
8.64	7.31	20	2.0	1.119	8.81

Bluetooth:

Average Power (dBm)	Output Power (mW)	$P_{th,m}$ (mw)	SAR_{lim} (W/kg)	SAR_1 (W/kg)	$P_{available}$ (mw)
8.64	7.31	20	4.0	1.577	12.115

The Bluetooth output power of the secondary transmitter is less than $P_{available}$, So SAR measurement for the secondary transmitter is not necessary.

Head SAR

Position	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Right Cheek	GSM	0.372	**0.044**	**0.416**
Right Tilted	GSM	0.351	0.025	0.376
Left Cheek	GSM	**0.386**	0.013	0.399
Left Tilted	GSM	0.356	0.010	0.366
Right Cheek	WCDMA	**0.277**	**0.044**	0.321
Right Tilted	WCDMA	0.212	0.025	0.237
Left Cheek	WCDMA	0.187	0.013	0.200
Left Tilted	WCDMA	0.093	0.010	0.103
Right Cheek	LTE	**0.359**	**0.044**	0.403
Right Tilted	LTE	0.326	0.025	0.351
Left Cheek	LTE	0.320	0.013	0.333
Left Tilted	LTE	0.298	0.010	0.308

Body SAR: 5mm

WWAN and WLAN

Position	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
	Band	Scaled SAR (W/kg)	Scaled SAR (W/kg)	
Back	GSM	**1.119**	**0.038**	**1.157**
Front	GSM	0.464	0.017	0.481
Right side	GSM	0.330	--	0.330
Left side	GSM	0.372	0.020	0.392
Top side	GSM	0.542	0.007	0.549
Bottom side	GSM	--	--	--
Back	WCDMA	**0.402**	**0.038**	0.440
Front	WCDMA	0.142	0.017	0.159
Right side	WCDMA	0.097	--	0.097
Left side	WCDMA	0.110	0.020	0.130
Top side	WCDMA	0.124	0.007	0.131
Bottom side	WCDMA	--	--	--
Back	LTE	**0.662**	**0.038**	0.700
Front	LTE	0.286	0.017	0.303
Right side	LTE	0.167	--	0.167
Left side	LTE	0.140	0.020	0.160
Top side	LTE	0.237	0.007	0.244
Bottom side	LTE	--	--	--

Limb SAR: 0mm

WWAN and WLAN

	WWAN		WLAN(2.4GHz)	Summed SAR (W/kg)
Position	**Band**	**Scaled SAR (W/kg)**	**Scaled SAR (W/kg)**	
Back	GSM	**1.577**	**0.070**	**1.647**
Front	GSM	1.216	0.022	1.238
Right side	GSM	0.827	--	0.827
Left side	GSM	0.999	0.030	1.029
Top side	GSM	1.324	0.010	1.334
Bottom side	GSM	--	--	--
Back	WCDMA	**0.578**	**0.070**	0.648
Front	WCDMA	0.440	0.022	0.462
Right side	WCDMA	0.200	--	0.200
Left side	WCDMA	0.217	0.030	0.247
Top side	WCDMA	0.348	0.010	0.358
Bottom side	WCDMA	--	--	--
Back	LTE	**0.941**	**0.070**	1.011
Front	LTE	0.353	0.022	0.375
Right side	LTE	0.257	--	0.257
Left side	LTE	0.276	0.030	0.306
Top side	LTE	0.474	0.010	0.484
Bottom side	LTE	--	--	--

Note:

1. BT output power is less than WIFI2.4GHz, so the simultaneous transmission is not evaluated;

10. Measurement Uncertainty

10.1 Uncertainty for SAR Test

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

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

Annex A. Plots of System Performance Check

MEASUREMENT 1

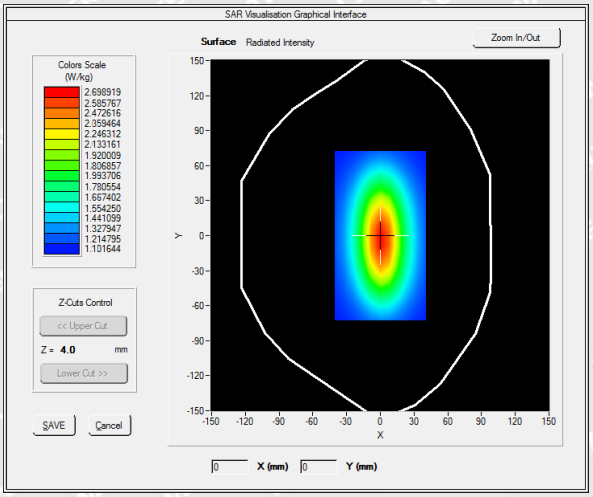
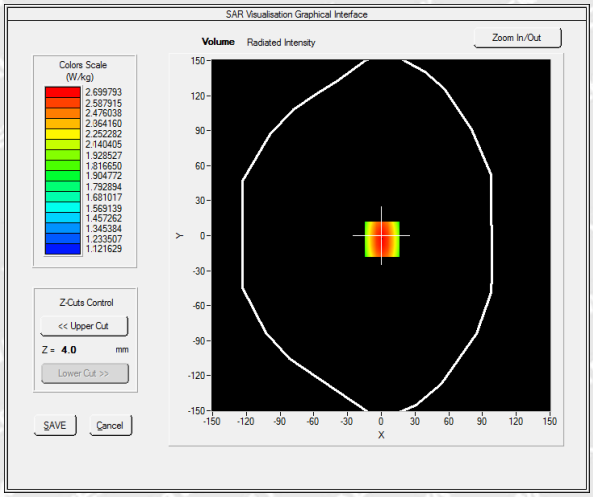
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-23
Measurement duration: 7 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.66; Calibrated: 2022-07-08

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)	41.462574
Conductivity (S/m)	0.872373
Power Variation (%)	0.383630
Ambient Temperature	22.2
Liquid Temperature	22.2

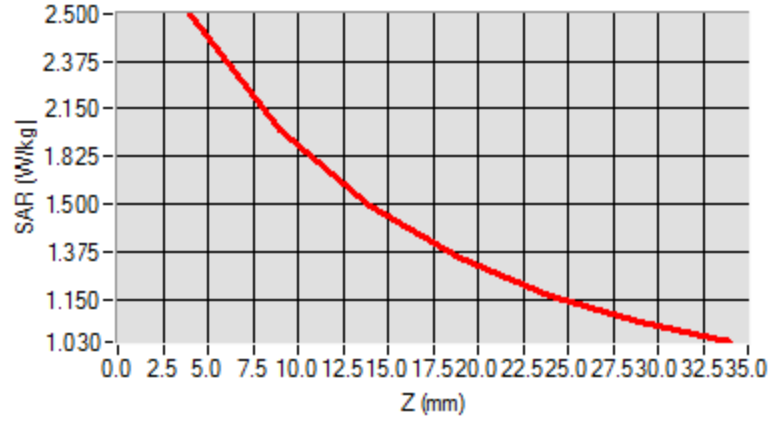
SURFACE SAR	VOLUME SAR
	

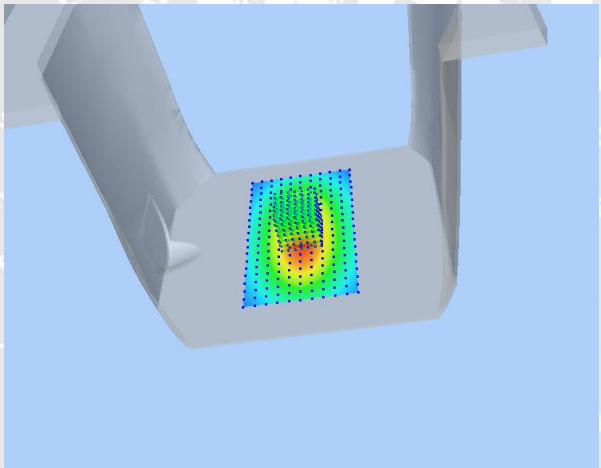
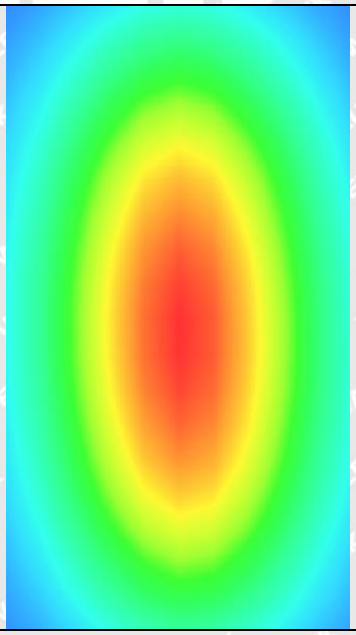
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.342744
SAR 1g (W/Kg)	2.164534

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

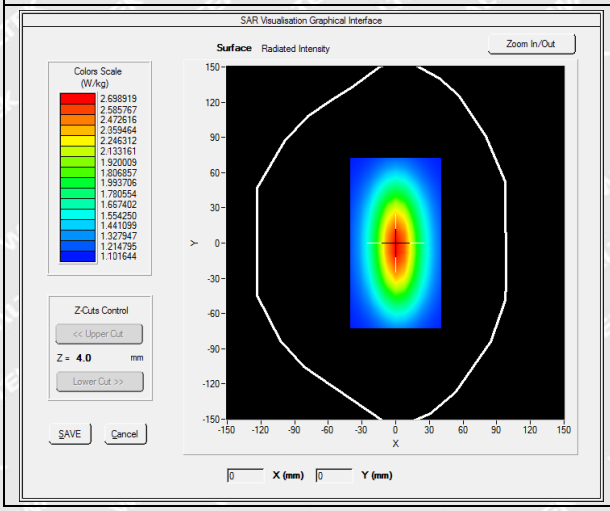
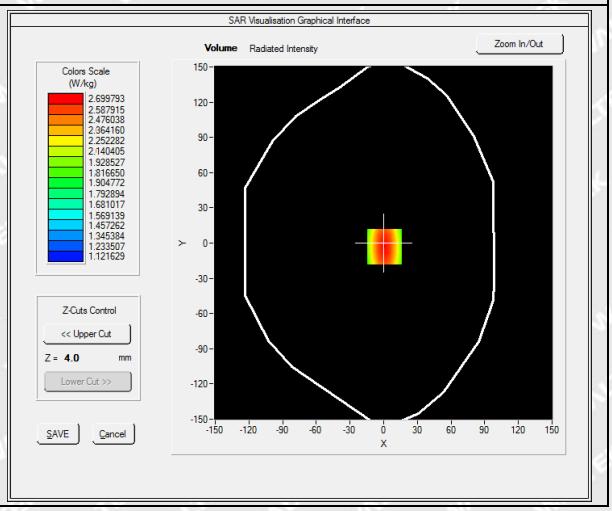
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.71; Calibrated: 2022-07-08

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)	41.371255
Conductivity (S/m)	0.894514
Power Variation (%)	1.818750
Ambient Temperature	22.2
Liquid Temperature	22.2

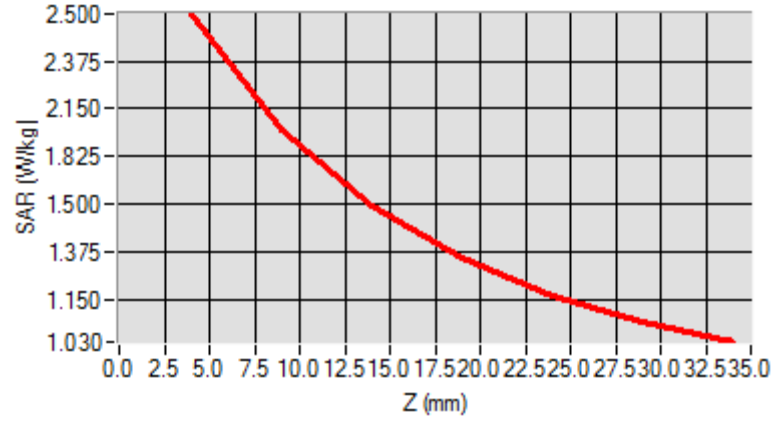
SURFACE SAR	VOLUME SAR
	

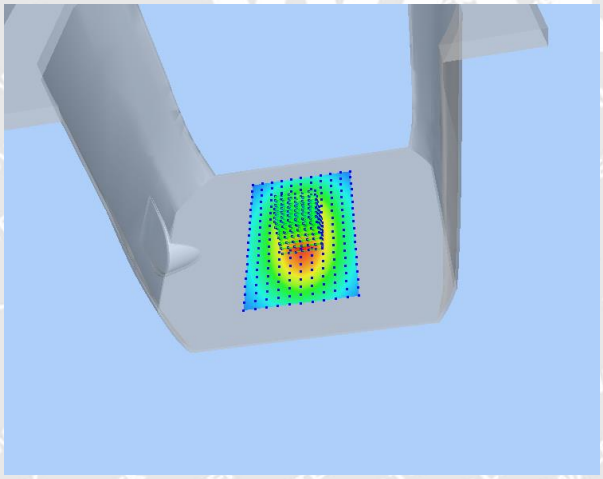
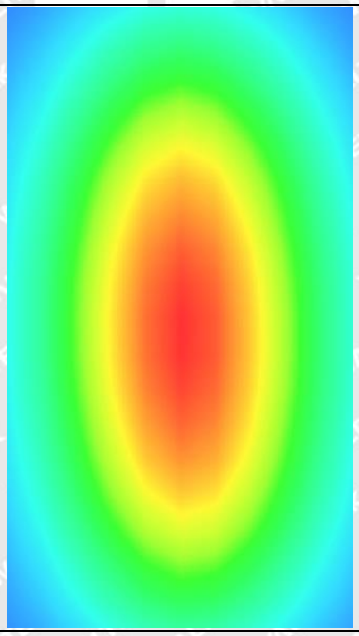
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.471263
SAR 1g (W/Kg)	2.401250

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

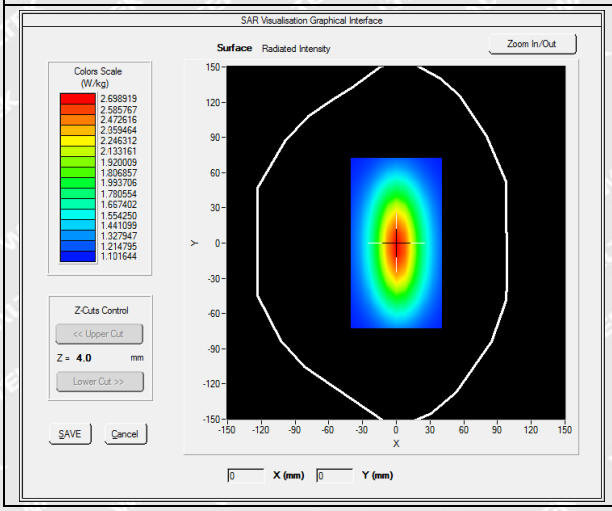
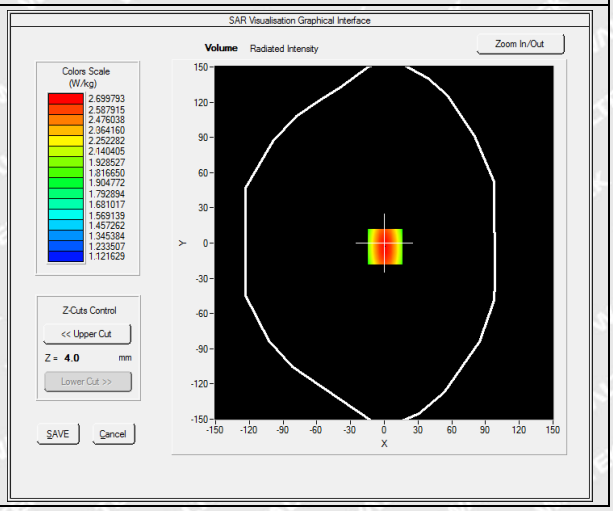
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 1.88; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW900
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	900.000000
Relative Permittivity (real part)	40.279501
Conductivity (S/m)	1.014541
Power Variation (%)	1.843900
Ambient Temperature	22.2
Liquid Temperature	22.2

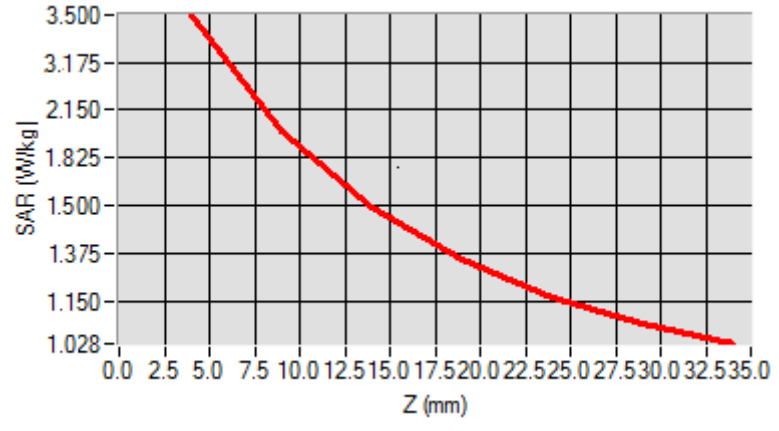
SURFACE SAR	VOLUME SAR
	

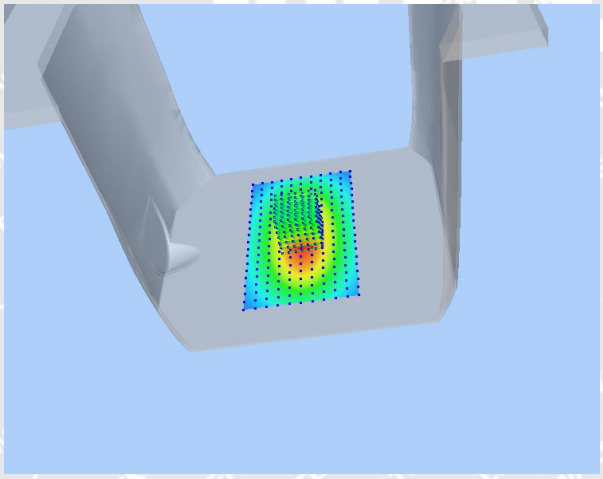
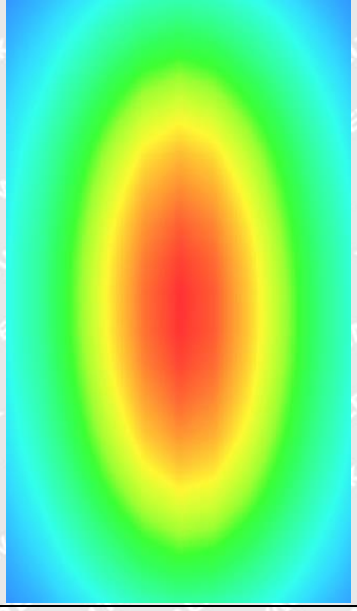
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	1.702021
SAR 1g (W/Kg)	2.742150

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	3.2725	2.6125	2.01258	1.6112	1.1210	1.0492s



3D screen shot	Hot spot position
	

MEASUREMENT 4

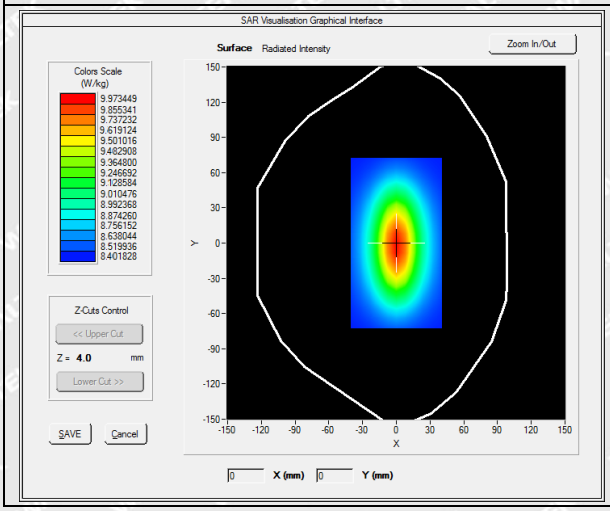
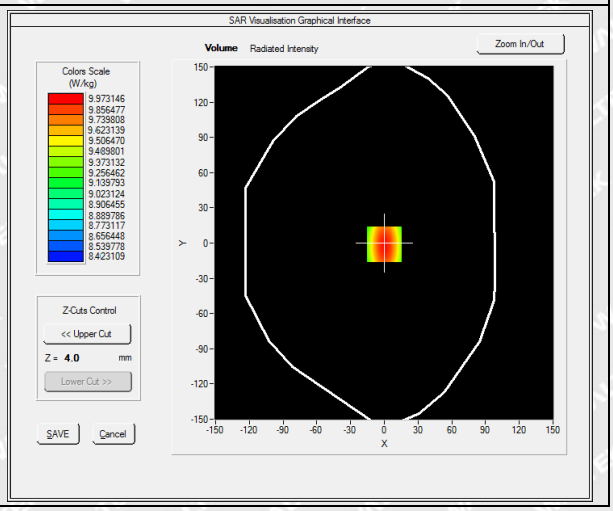
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.11; Calibrated: 2022-07-08

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)	39.358914
Conductivity (S/m)	1.381047
Power Variation (%)	1.403200
Ambient Temperature	22.5
Liquid Temperature	22.5

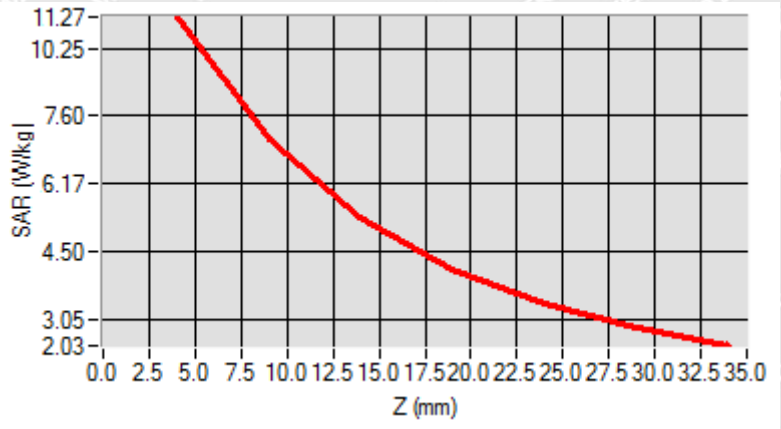
SURFACE SAR	VOLUME SAR
	

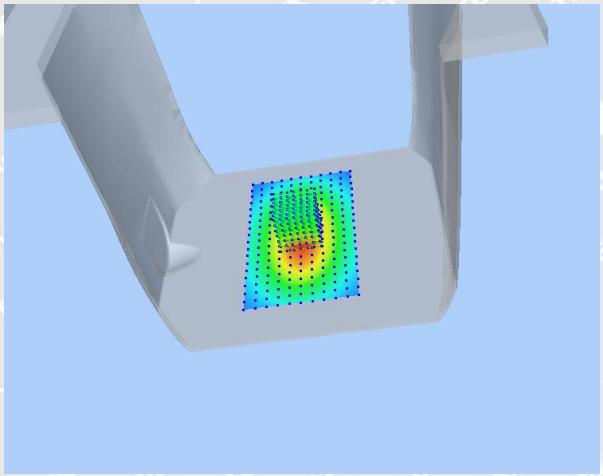
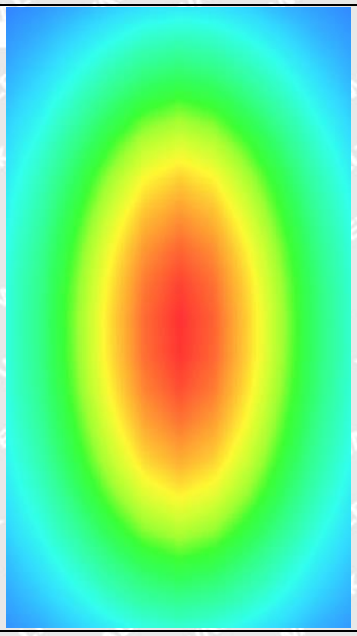
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.001252
SAR 1g (W/Kg)	9.701250

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 5

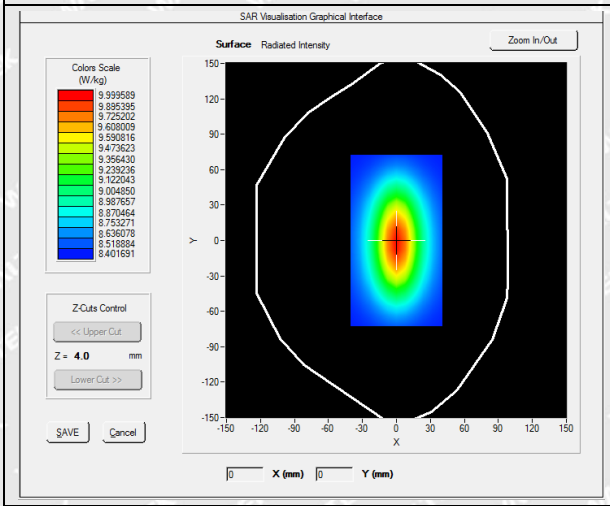
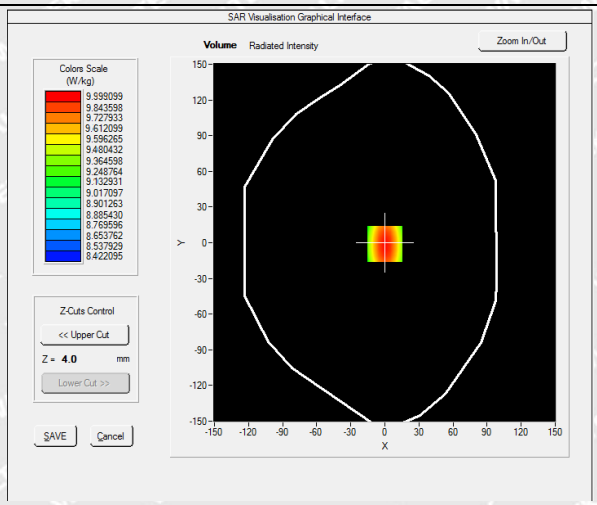
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.21; Calibrated: 2022-07-08

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)	39.482424
Conductivity (S/m)	1.381695
Power Variation (%)	1.251400
Ambient Temperature	22.5
Liquid Temperature	22.5

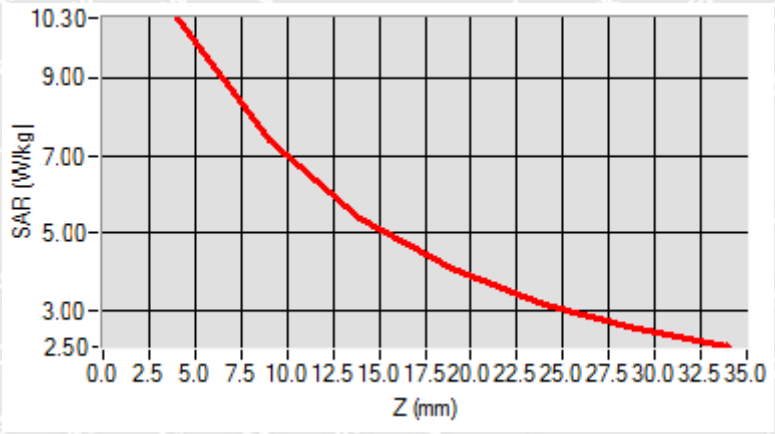
SURFACE SAR	VOLUME SAR
	

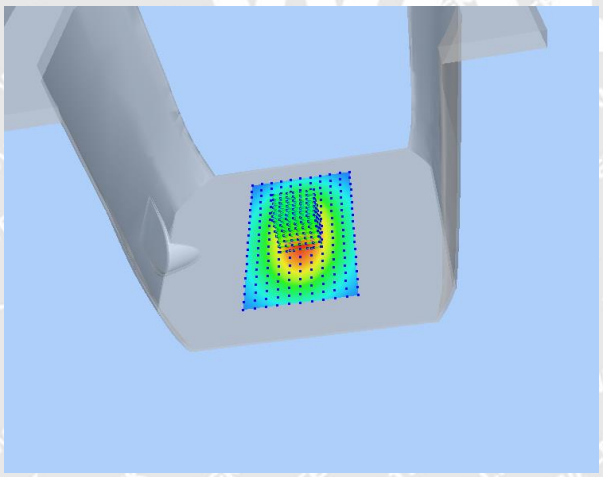
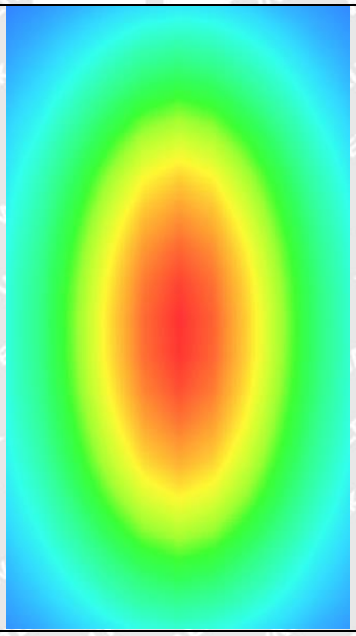
Maximum location: X=0.00, Y=0.00

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
	

MEASUREMENT 6

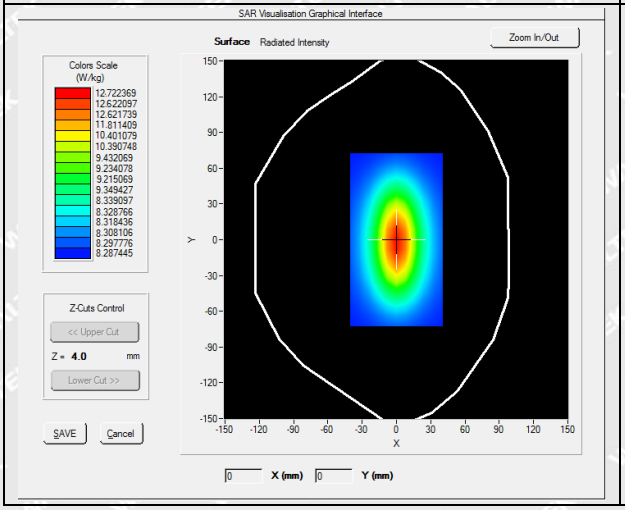
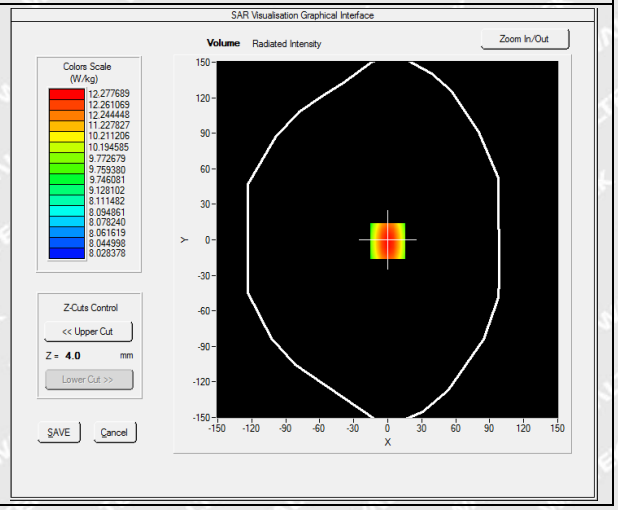
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.34; Calibrated: 2022-07-08

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Validation plane
Device Position	Dipole
Band	CW2300
Signal	CW (Crest factor: 1.0)

B. SAR Measurement Results

Frequency (MHz)	2300.000000
Relative Permittivity (real part)	39.161964
Conductivity (S/m)	1.680285
Power Variation (%)	1.144201
Ambient Temperature	22.4
Liquid Temperature	22.4

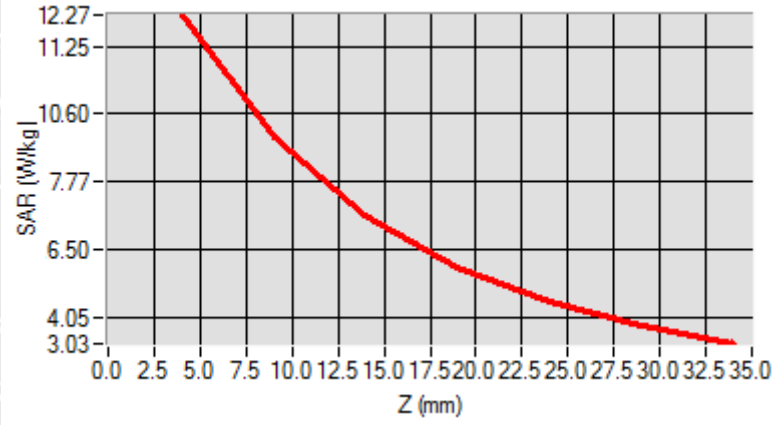
SURFACE SAR	VOLUME SAR
	

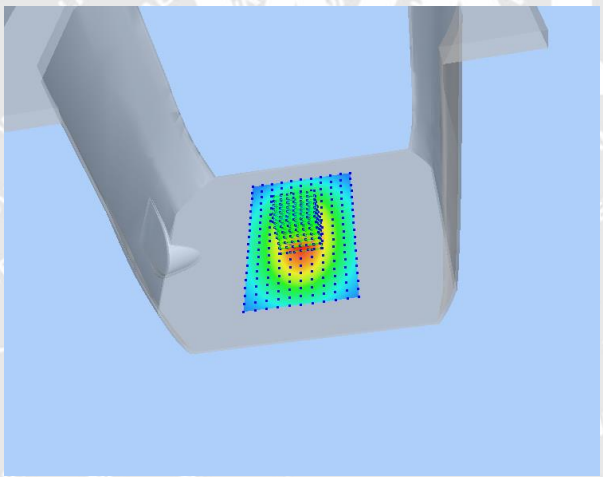
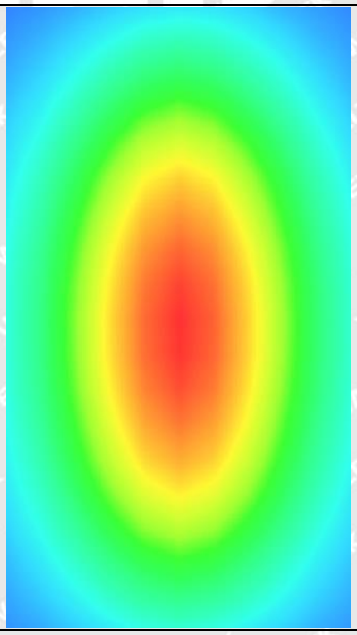
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	5.683461
SAR 1g (W/Kg)	10.12815

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	10.3751	8.3228	9.5132	7.3674	4.1234	2.6215



3D screen shot	Hot spot position
	

MEASUREMENT 7

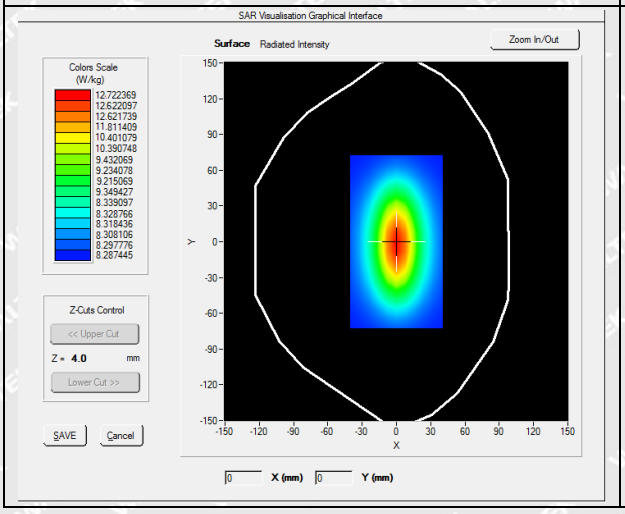
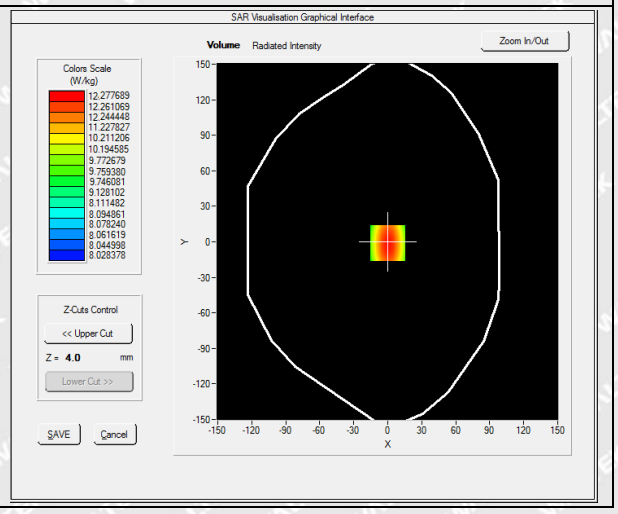
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-28
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.29; Calibrated: 2022-07-08

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2450.000000
Relative Permittivity (real part)	38.571841
Conductivity (S/m)	1.781096
Power Variation (%)	1.112400
Ambient Temperature	22.4
Liquid Temperature	22.4

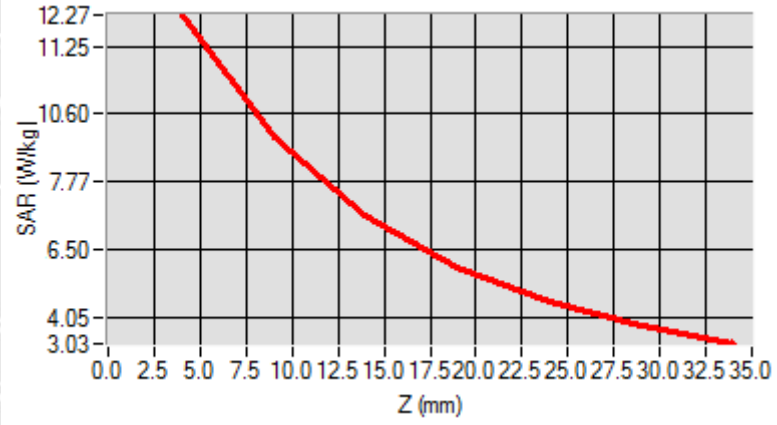
SURFACE SAR	VOLUME SAR
	

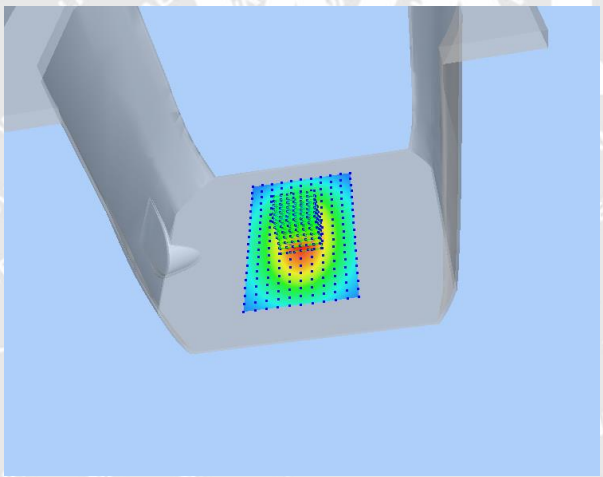
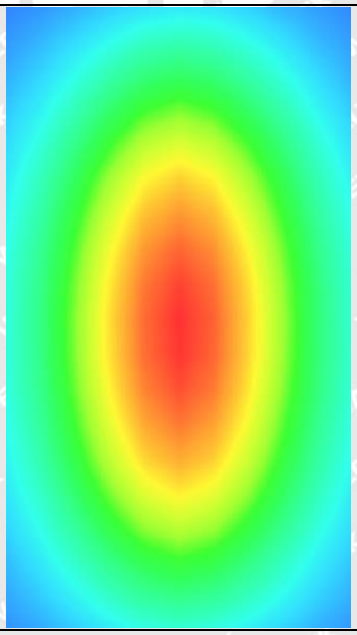
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	6.152122
SAR 1g (W/Kg)	12.131201

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.1365	10.1321	8.3512	6.3365	5.5123	3.6621



3D screen shot	Hot spot position
	

MEASUREMENT 8

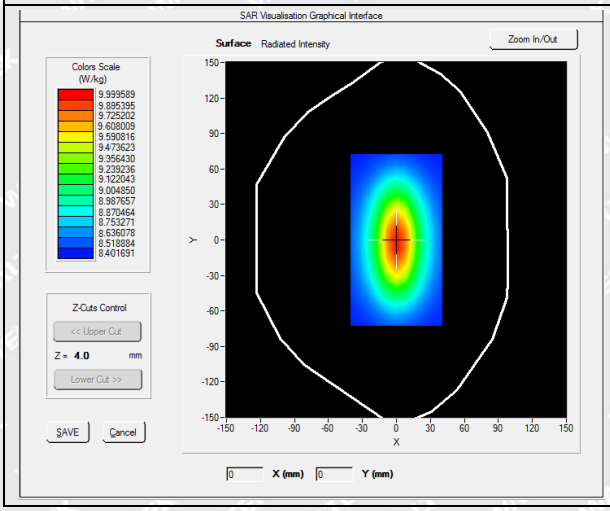
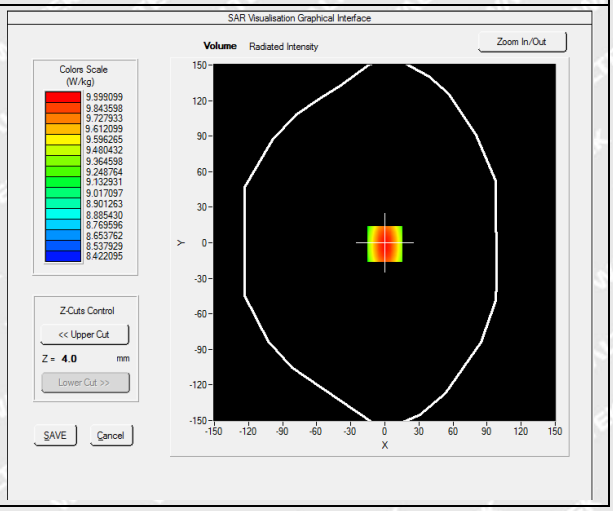
Type: Validation measurement (Fast, 75.00 %)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 21 seconds
E-field Probe: SSE2 - SN 18/21 EPGO356; ConvF: 2.22; Calibrated: 2022-07-08

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2600.000000
Relative Permittivity (real part)	39.443625
Conductivity (S/m)	1.944224
Power Variation (%)	-0.365400
Ambient Temperature	22.2
Liquid Temperature	22.2

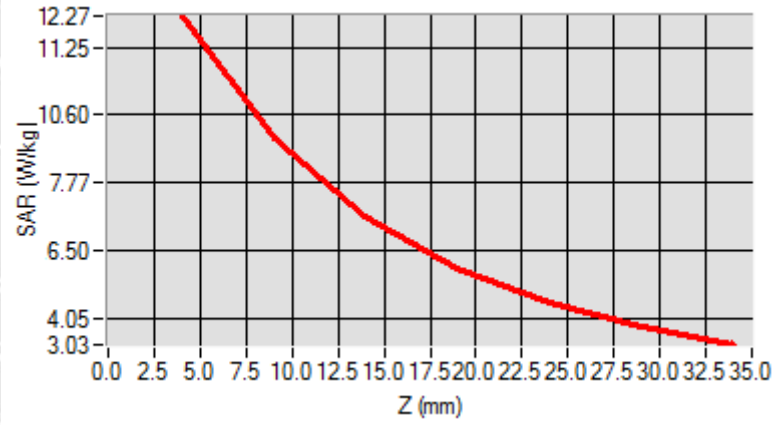
SURFACE SAR	VOLUME SAR
	

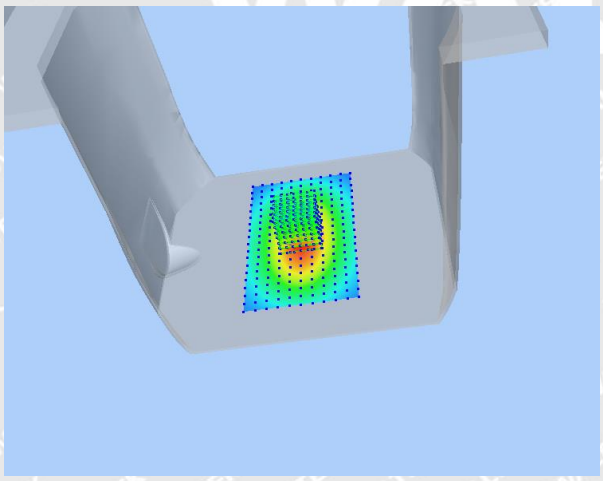
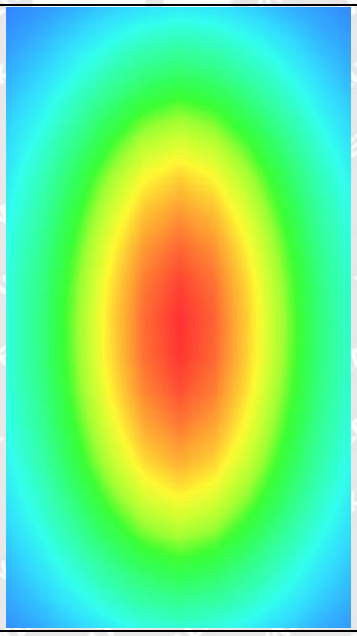
Maximum location: X=0.00, Y=0.00

SAR 10g (W/Kg)	6.173156
SAR 1g (W/Kg)	12.113311

Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.0000	12.24321	10.4214	8.4698	6.4953	5.6665	3.7987



3D screen shot	Hot spot position
	

Annex B. Plots of SAR Measurement

MEASUREMENT 1

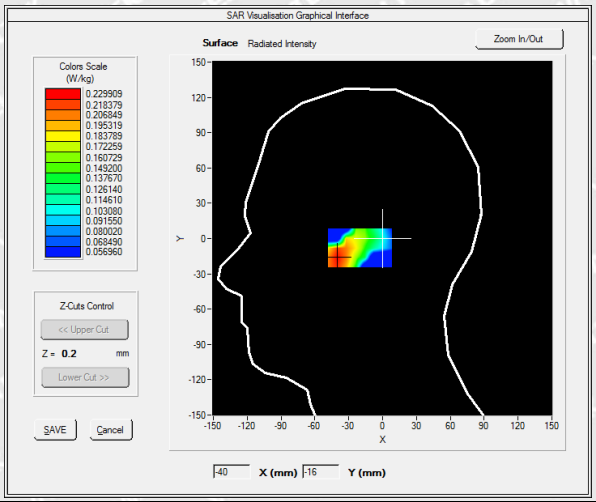
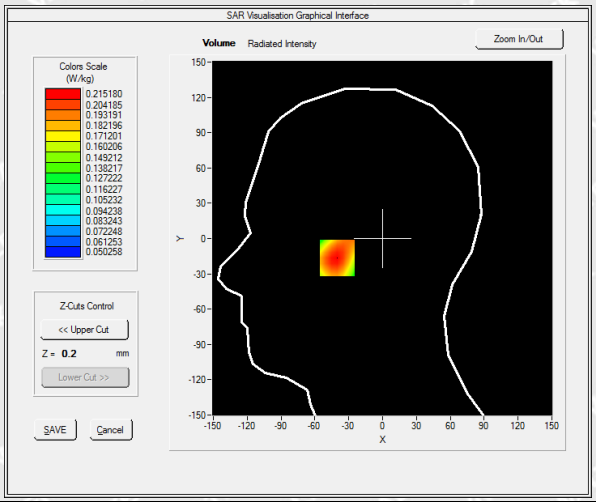
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GSM900
Channels	Low
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	880.200000
Relative Permittivity (real part)	41.372485
Conductivity (S/m)	0.894623
Power Variation (%)	-2.414700
Ambient Temperature	22.2
Liquid Temperature	22.2

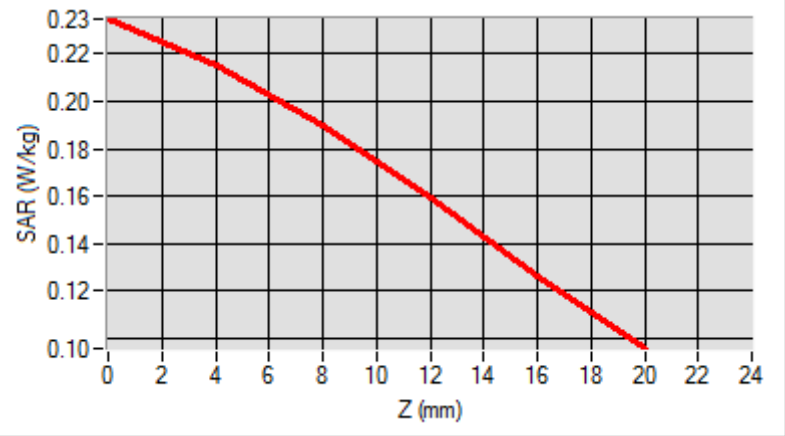
SURFACE SAR	VOLUME SAR
	

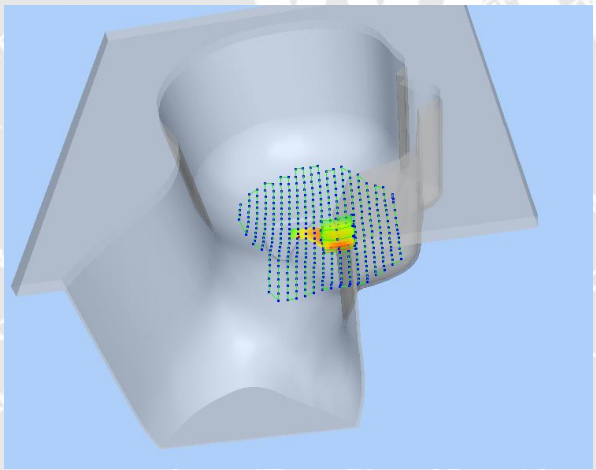
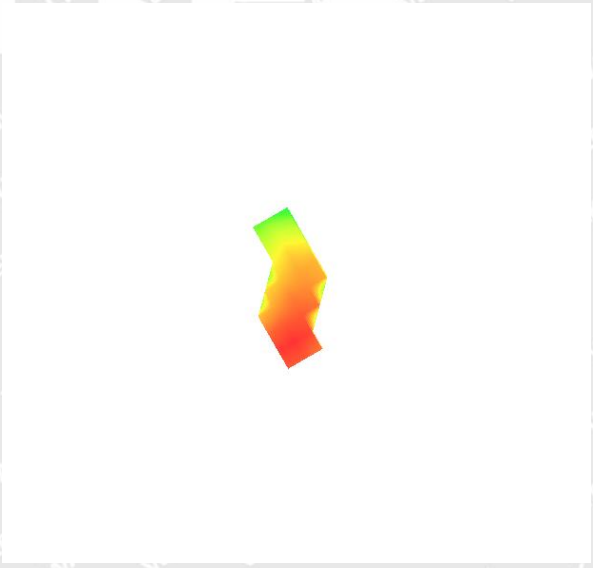
Maximum location: X=-40.00, Y=-16.00

SAR Peak: 0.28 W/kg

SAR 10g (W/Kg)	0.154637
SAR 1g (W/Kg)	0.208666

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2348	0.2152	0.1896	0.1592	0.1266



3D screen shot	Hot spot position
	

MEASUREMENT 2

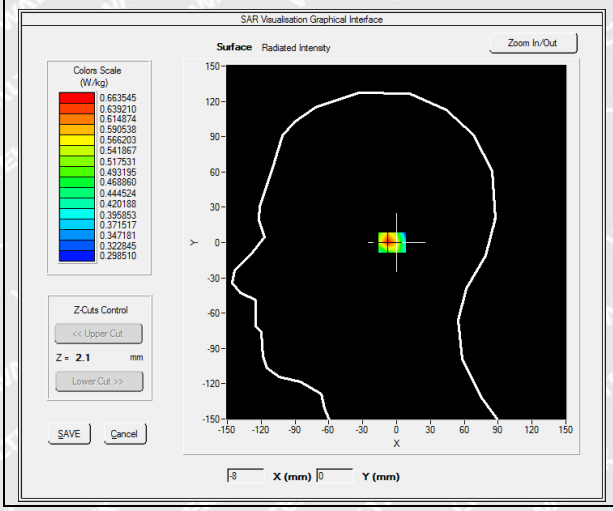
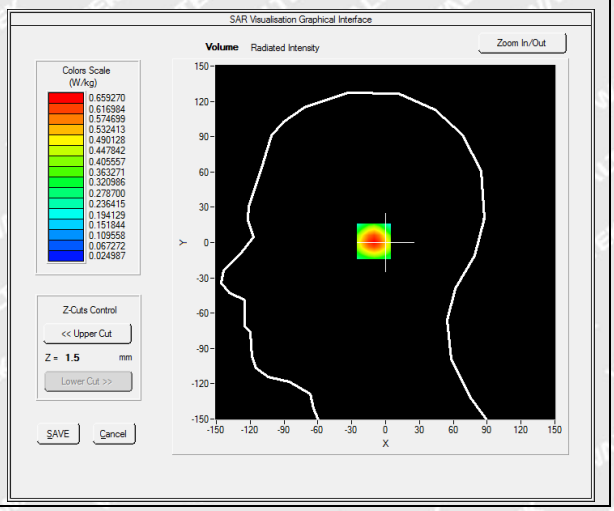
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left head
Device Position	Cheek
Band	GSM1800
Channels	Middle
Signal	TDMA (Crest factor: 8.0)

B. SAR Measurement Results

Frequency (MHz)	1747.400000
Relative permittivity (real part)	39.361874
Conductivity (S/m)	1.382410
Power Variation (%)	1.614700
Ambient Temperature	22.5
Liquid Temperature	22.5

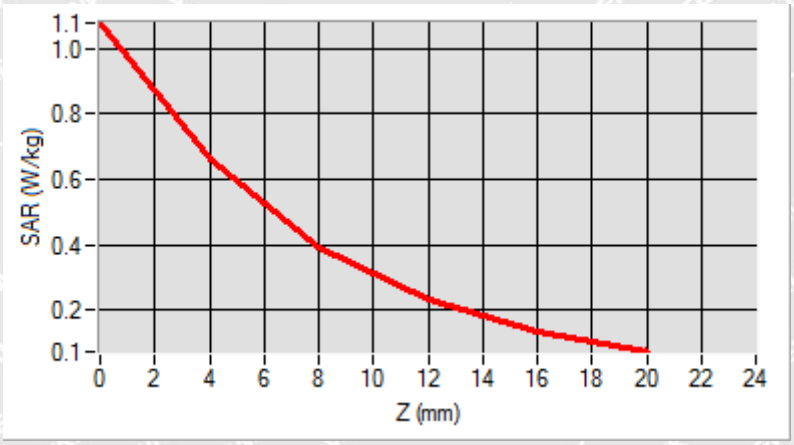
SURFACE SAR	VOLUME SAR
	

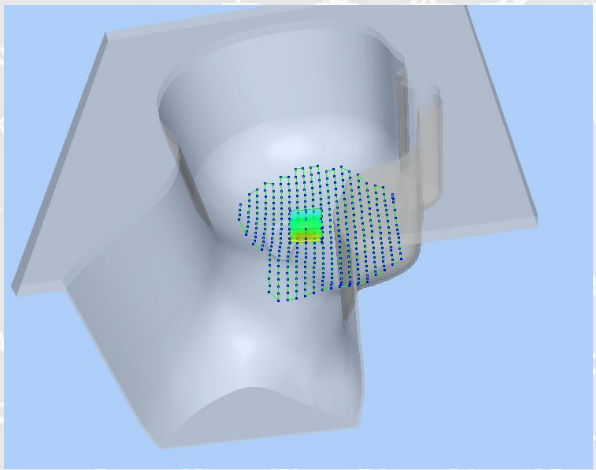
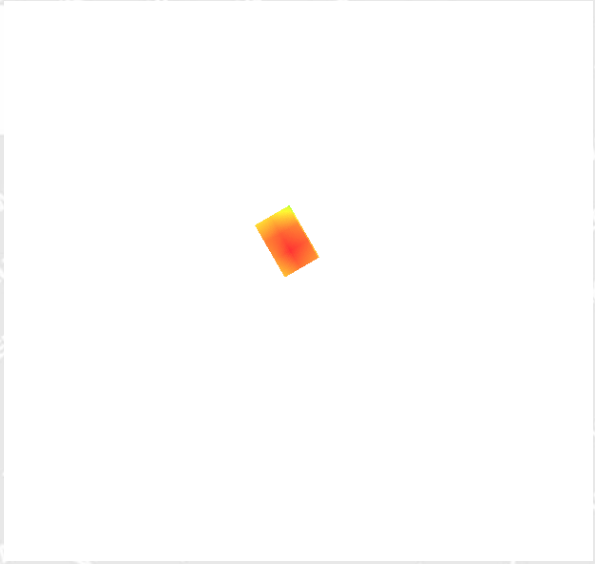
Maximum location: X=-8.00, Y=1.00

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.313929
SAR 1g (W/Kg)	0.606933

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0765	0.6593	0.3925	0.2308	0.1356



3D screen shot	Hot spot position
	

MEASUREMENT 3

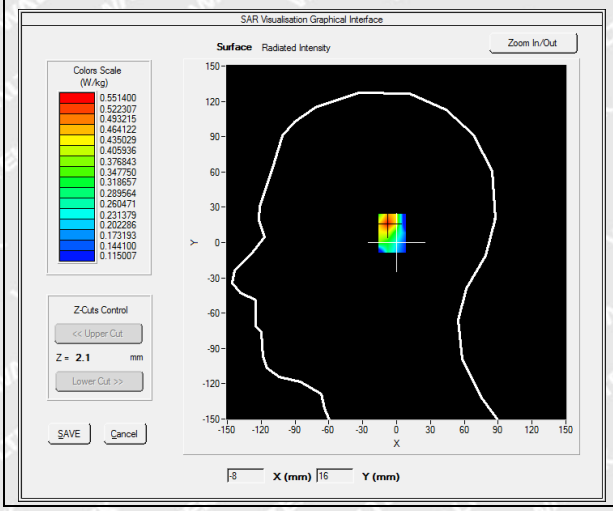
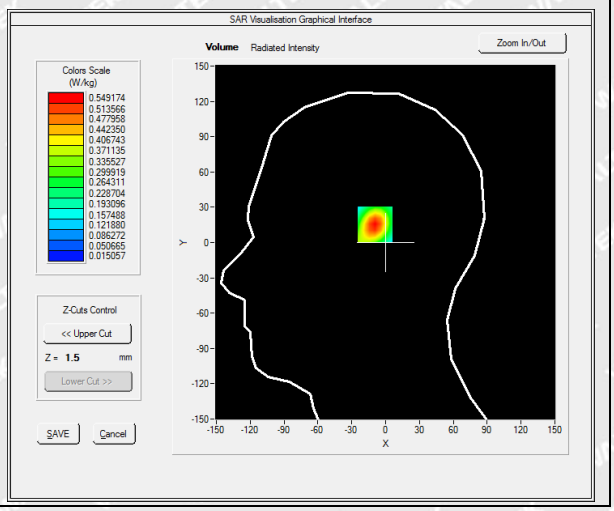
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right Cheek
Device Position	Cheek
Band	WCDMA2100_RMC
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1922.600000
Relative Permittivity (real part)	39.483654
Conductivity (S/m)	1.382488
Power Variation (%)	2.148600
Ambient Temperature	22.5
Liquid Temperature	22.5

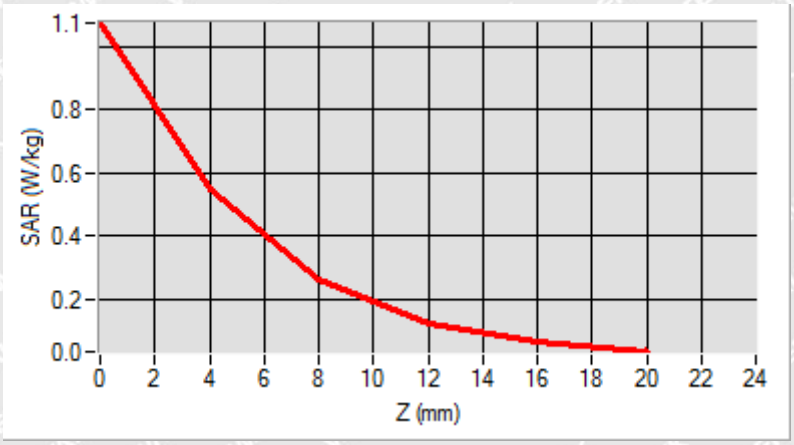
SURFACE SAR	VOLUME SAR
	

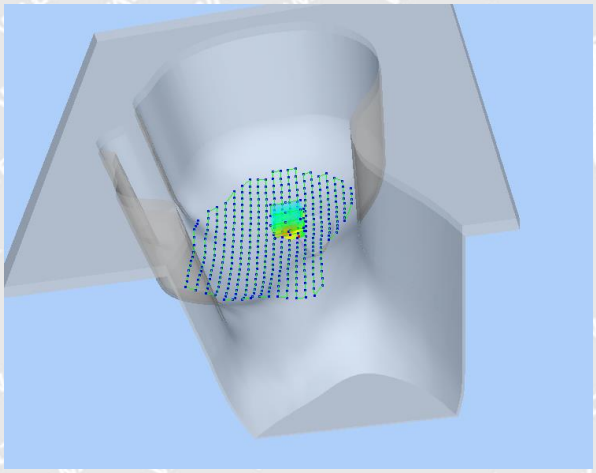
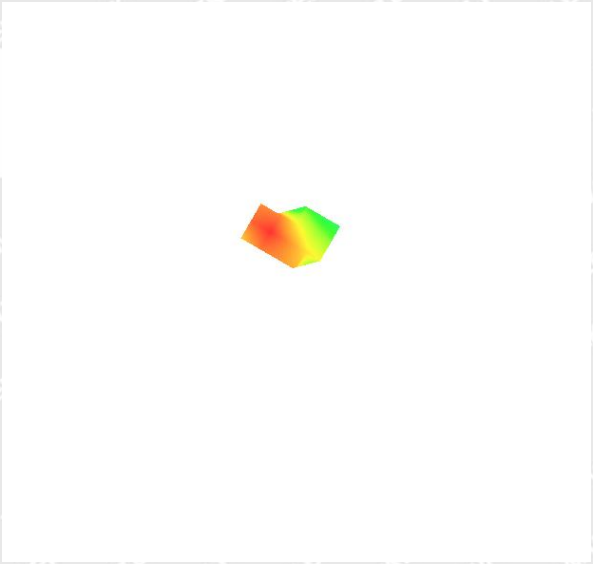
Maximum location: X=-8.00, Y=16.00

SAR Peak: 1.07 W/kg

SAR 10g (W/Kg)	0.236535
SAR 1g (W/Kg)	0.507864

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0751	0.5492	0.2643	0.1268	0.0660



3D screen shot	Hot spot position
	

MEASUREMENT 4

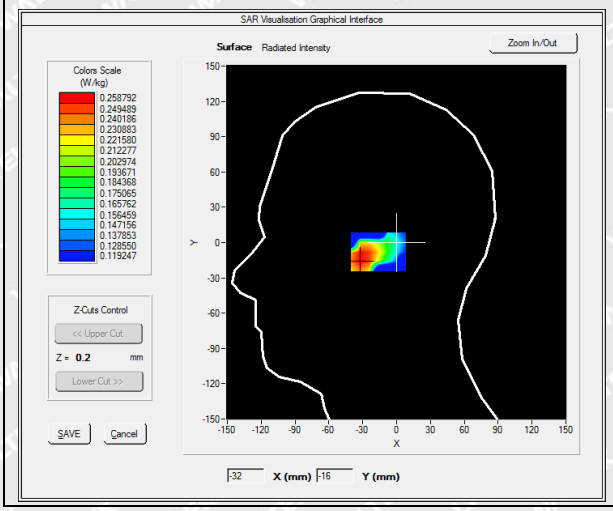
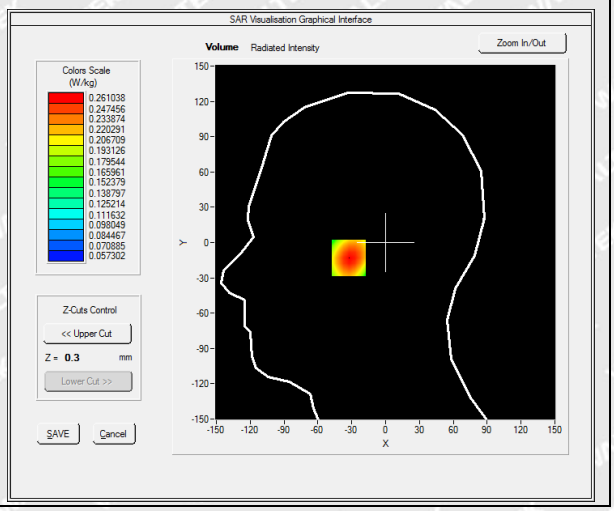
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Left Cheek
Device Position	Cheek
Band	WCDMA900_RMC
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	882.600000
Relative Permittivity (real part)	40.282651
Conductivity (S/m)	1.013129
Power Variation (%)	2.628100
Ambient Temperature	22.2
Liquid Temperature	22.2

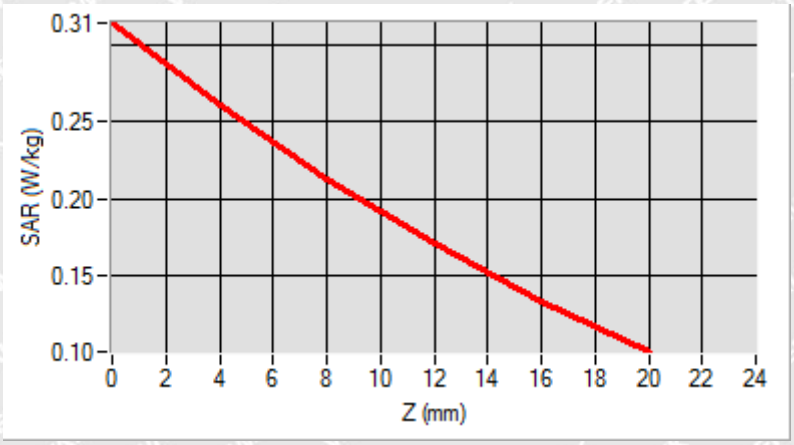
SURFACE SAR	VOLUME SAR
	

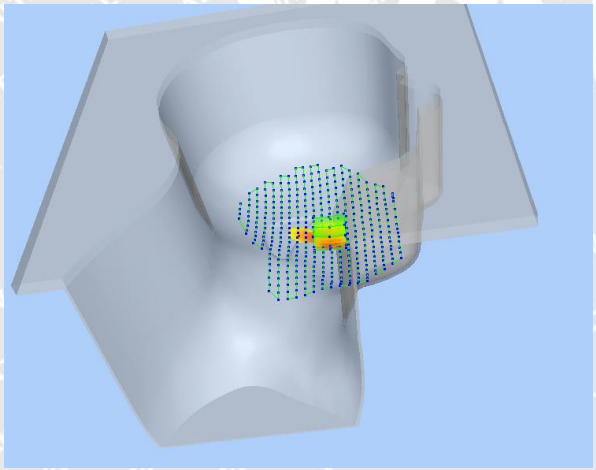
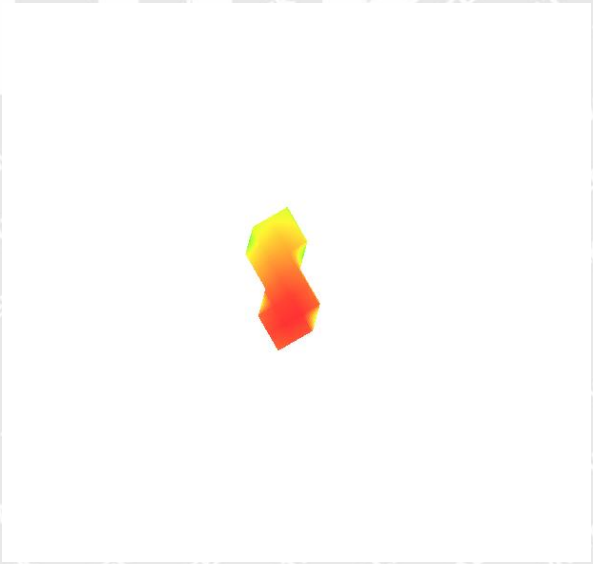
Maximum location: X=-31.00, Y=-13.00

SAR Peak: 0.32 W/kg

SAR 10g (W/Kg)	0.177301
SAR 1g (W/Kg)	0.248961

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3148	0.2610	0.2129	0.1701	0.1325



3D screen shot	Hot spot position
	

MEASUREMENT 5

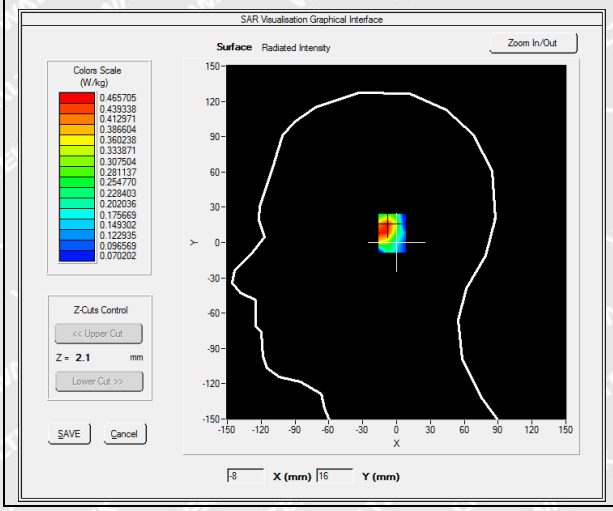
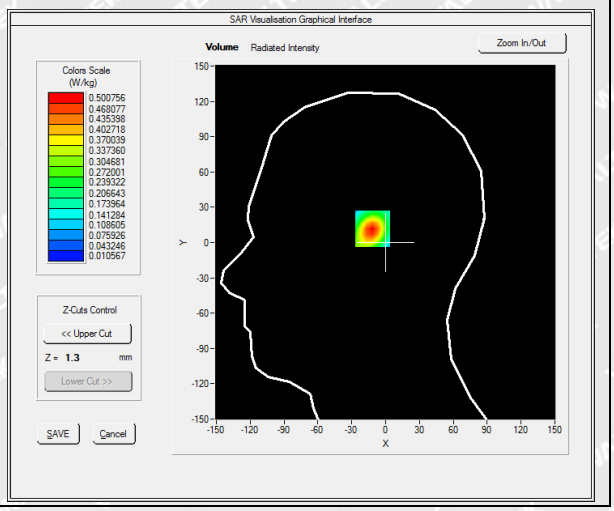
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	1950.000000
Relative Permittivity (real part)	39.482684
Conductivity (S/m)	1.381489
Power Variation (%)	-1.279100
Ambient Temperature	22.5
Liquid Temperature	22.5

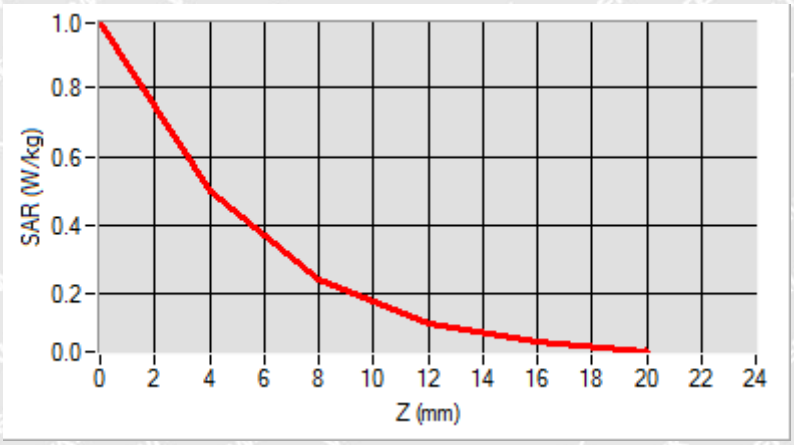
SURFACE SAR	VOLUME SAR
	

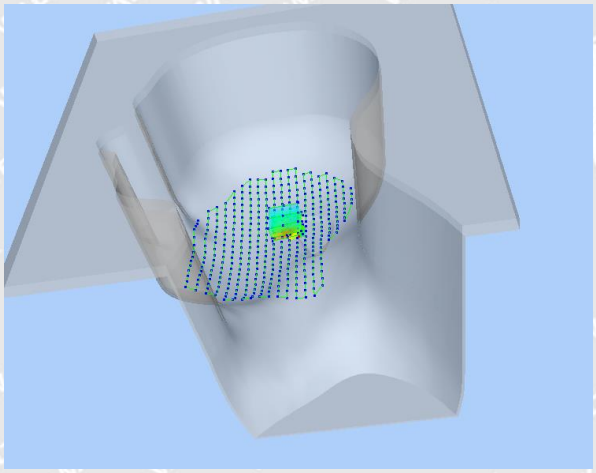
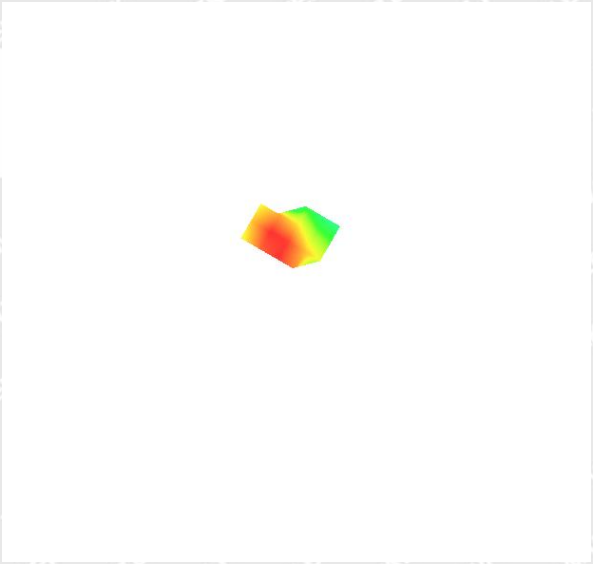
Maximum location: X=-10.00, Y=12.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.209980
SAR 1g (W/Kg)	0.462773

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9891	0.5008	0.2381	0.1126	0.0579



3D screen shot	Hot spot position
	

MEASUREMENT 6

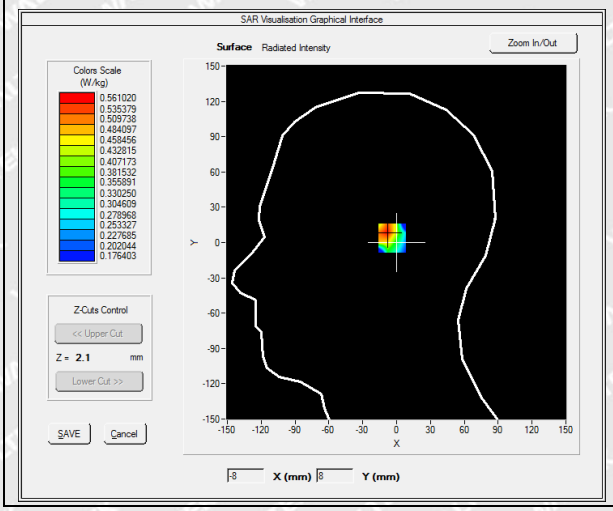
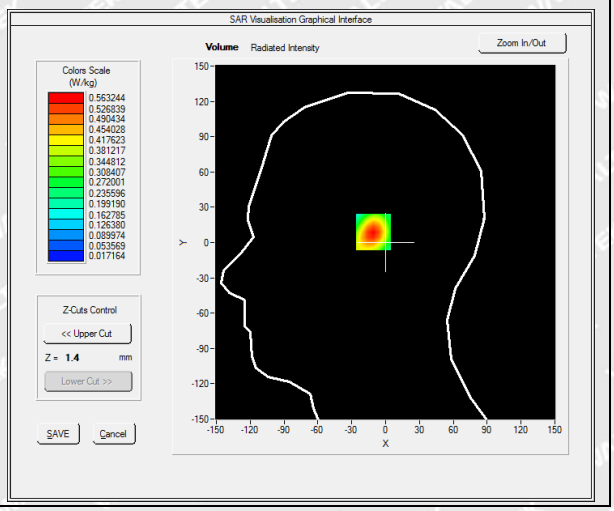
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	FDD-LTE Band 3_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1775.000000
Relative Permittivity (real part)	39.364641
Conductivity (S/m)	1.382417
Power Variation (%)	-1.497700
Ambient Temperature	22.5
Liquid Temperature	22.5

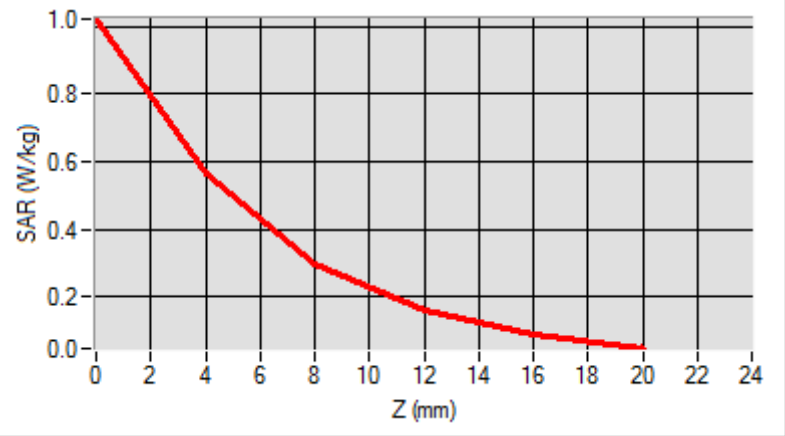
SURFACE SAR	VOLUME SAR
	

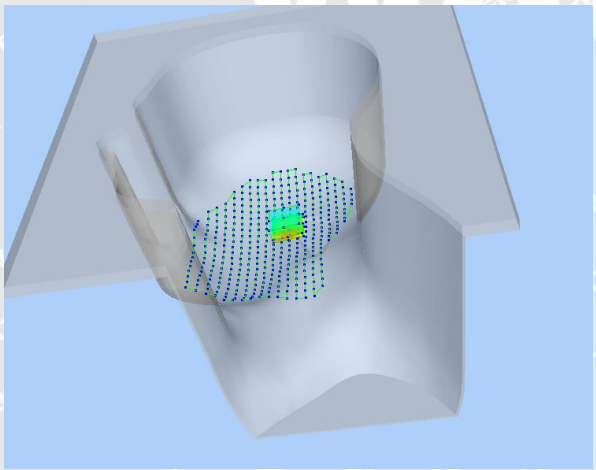
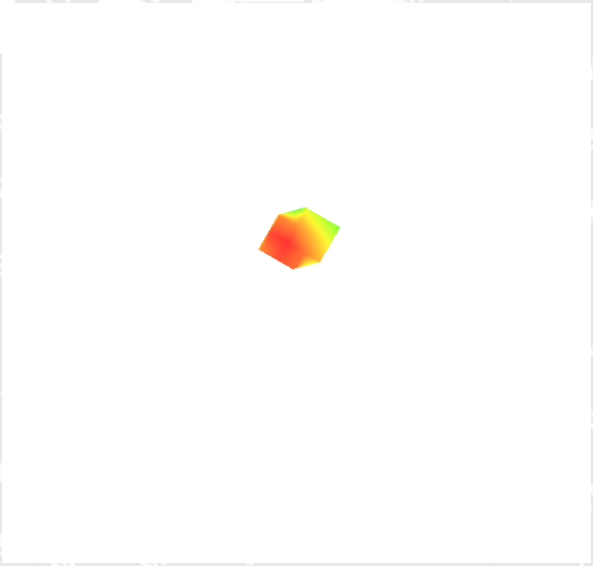
Maximum location: X=-9.00, Y=9.00

SAR Peak: 1.02 W/kg

SAR 10g (W/Kg)	0.260331
SAR 1g (W/Kg)	0.523342

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0217	0.5632	0.2980	0.1572	0.0867



3D screen shot	Hot spot position
	

MEASUREMENT 7

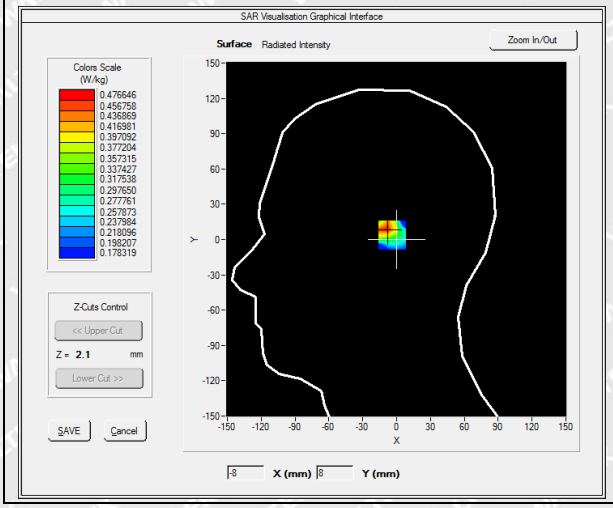
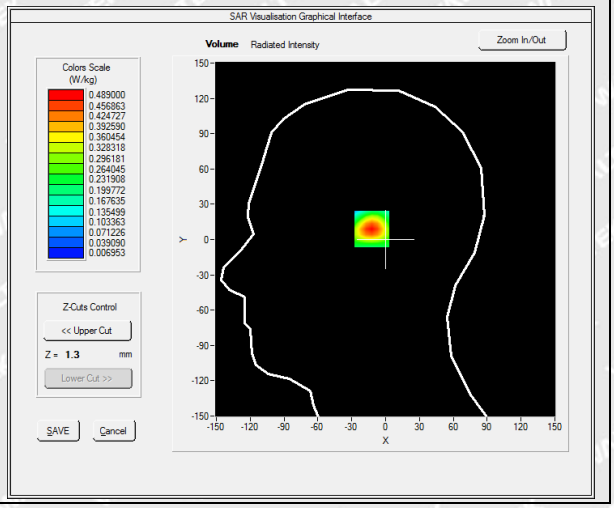
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right head
Device Position	Cheek
Band	FDD-LTE Band 7_QPSK, 20MHz
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative Permittivity (real part)	39.441276
Conductivity (S/m)	1.943859
Power Variation (%)	-1.146900
Ambient Temperature	22.2
Liquid Temperature	22.2

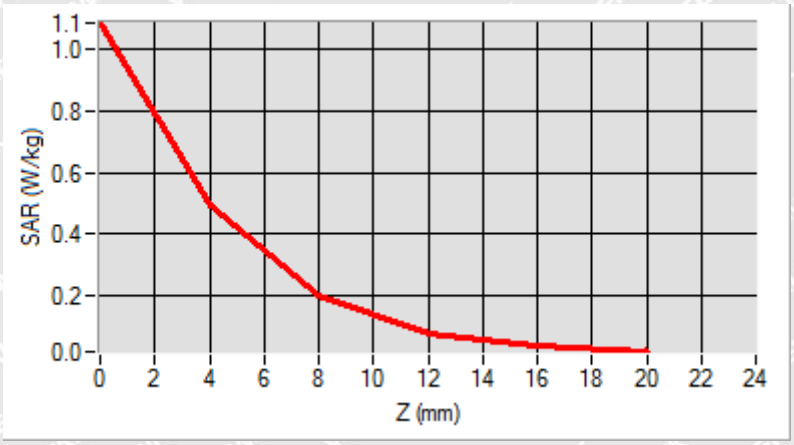
SURFACE SAR	VOLUME SAR
	

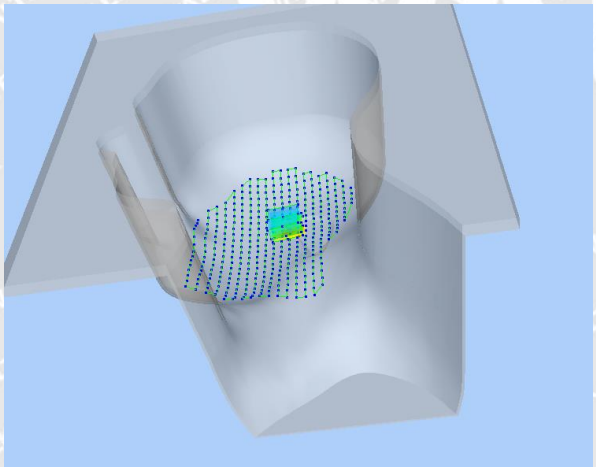
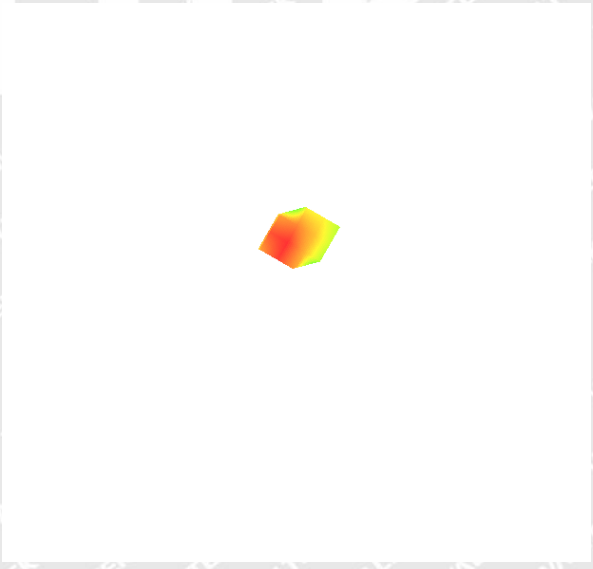
Maximum location: X=-10.00, Y=9.00

SAR Peak: 1.08 W/kg

SAR 10g (W/Kg)	0.218562
SAR 1g (W/Kg)	0.459834

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0877	0.4890	0.1958	0.0745	0.0317



3D screen shot	Hot spot position
	

MEASUREMENT 8

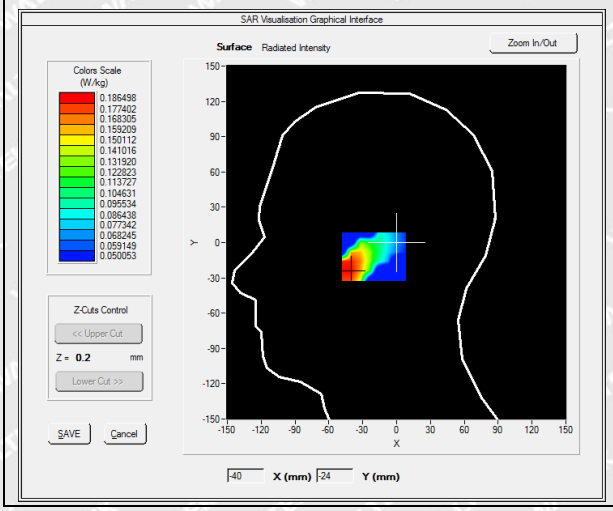
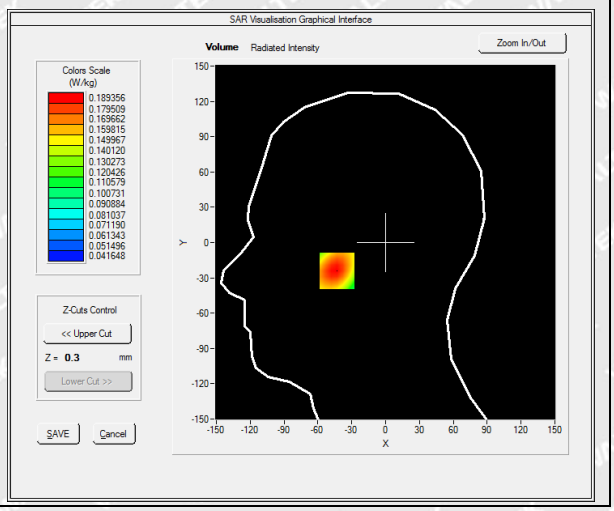
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	897.500000
Relative Permittivity (real part)	40.281283
Conductivity (S/m)	1.012861
Power Variation (%)	-1.914900
Ambient Temperature	22.2
Liquid Temperature	22.2

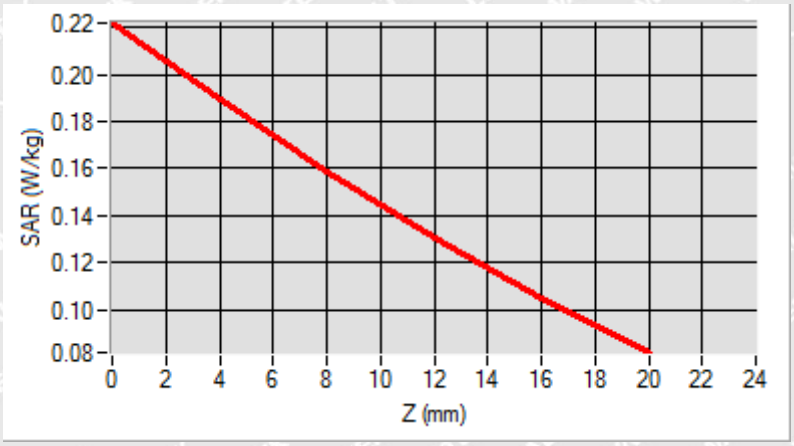
SURFACE SAR	VOLUME SAR
	

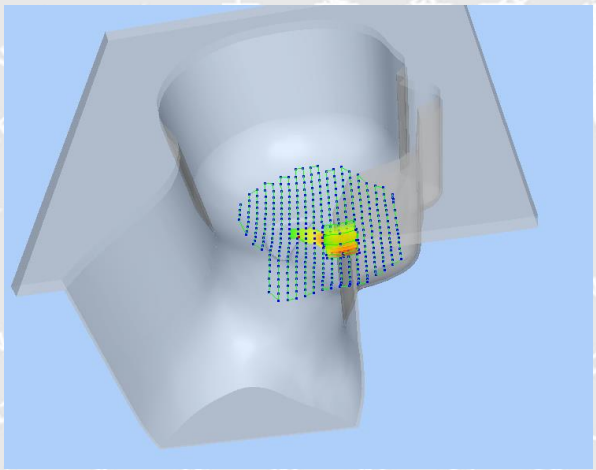
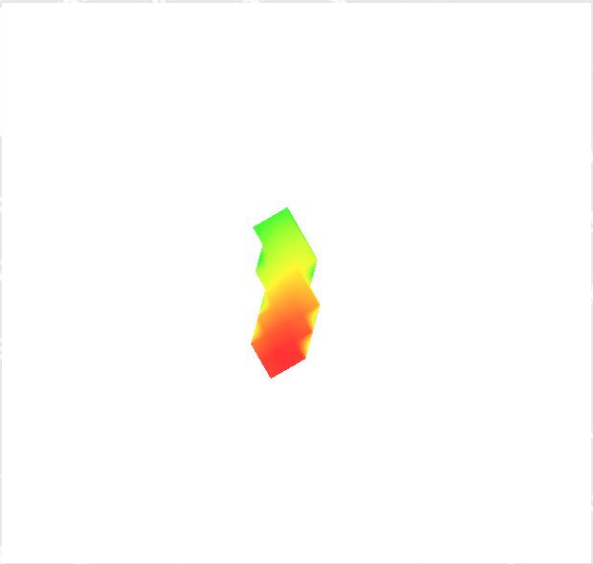
Maximum location: X=-43.00, Y=-24.00

SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)	0.132406
SAR 1g (W/Kg)	0.181416

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2221	0.1894	0.1588	0.1305	0.1047



3D screen shot	Hot spot position
	

MEASUREMENT 9

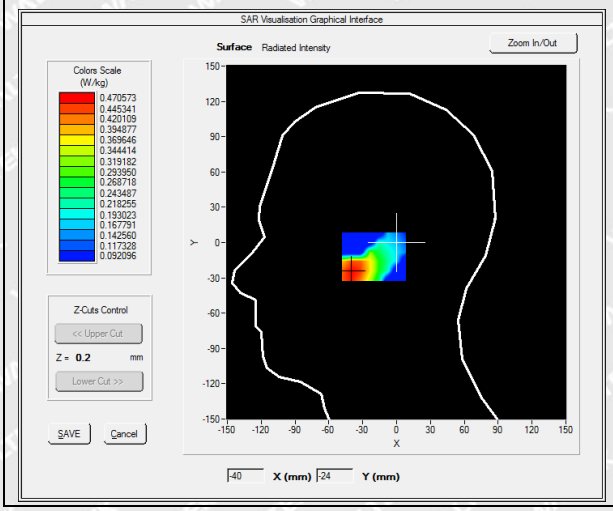
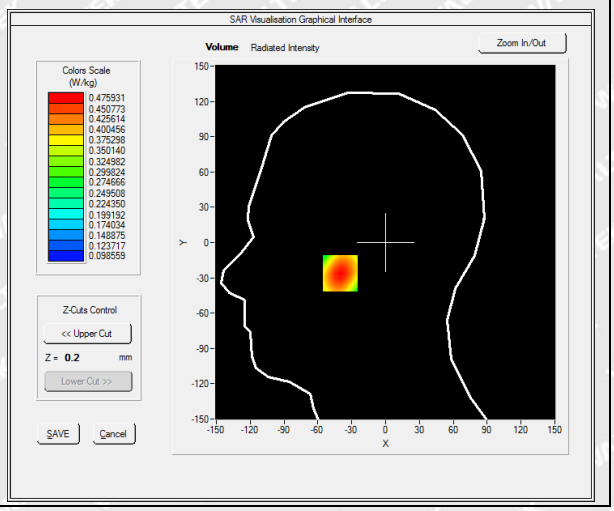
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	847.000000
Relative Permittivity (real part)	41.374538
Conductivity (S/m)	0.892591
Power Variation (%)	-1.292800
Ambient Temperature	22.2
Liquid Temperature	22.2

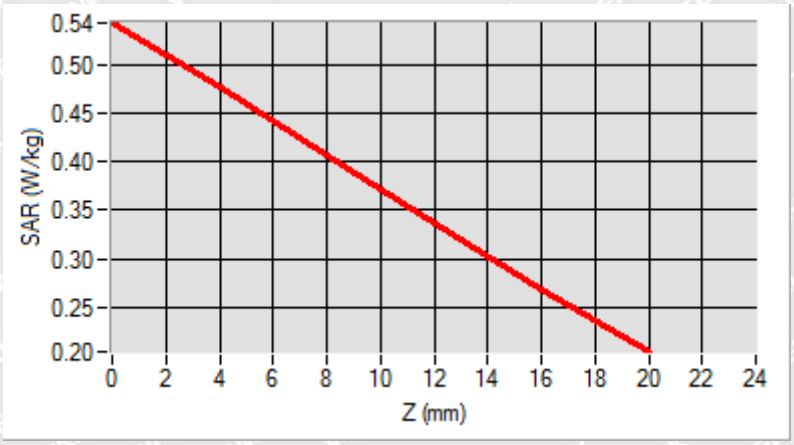
SURFACE SAR	VOLUME SAR
	

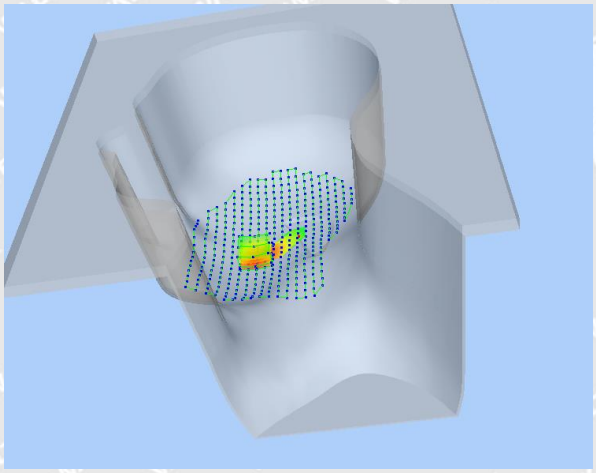
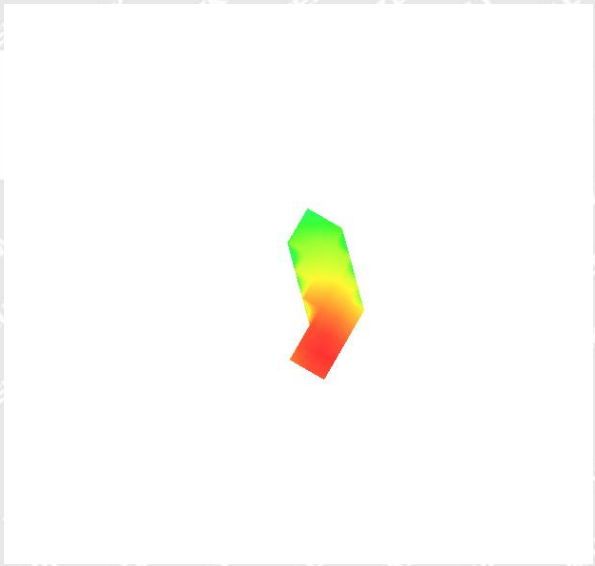
Maximum location: X=-40.00, Y=-26.00

SAR Peak: 0.54 W/kg

SAR 10g (W/Kg)	0.331029
SAR 1g (W/Kg)	0.453939

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.5426	0.4759	0.4065	0.3360	0.2672



3D screen shot	Hot spot position
	

MEASUREMENT 10

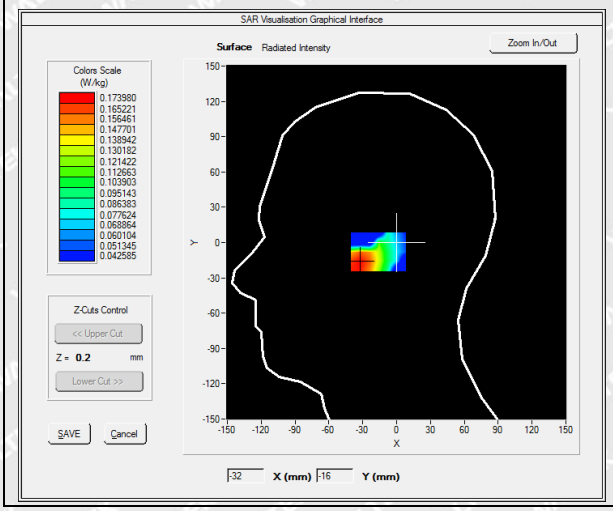
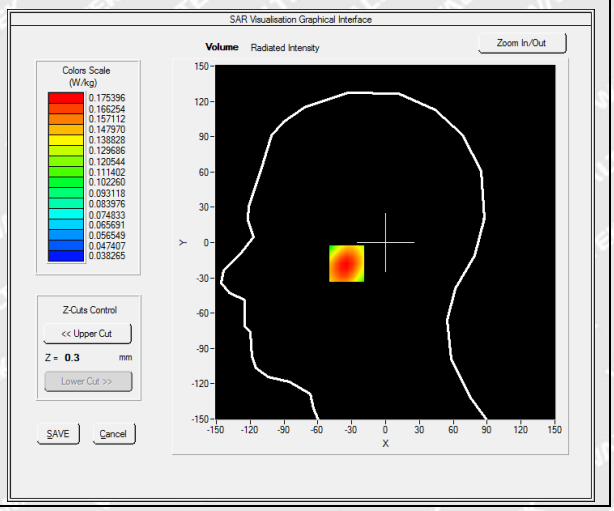
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right Cheek
Device Position	Cheek
Band	FDD-LTE Band 28_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	738.000000
Relative Permittivity (real part)	41.462381
Conductivity (S/m)	0.872579
Power Variation (%)	-1.275800
Ambient Temperature	22.2
Liquid Temperature	22.2

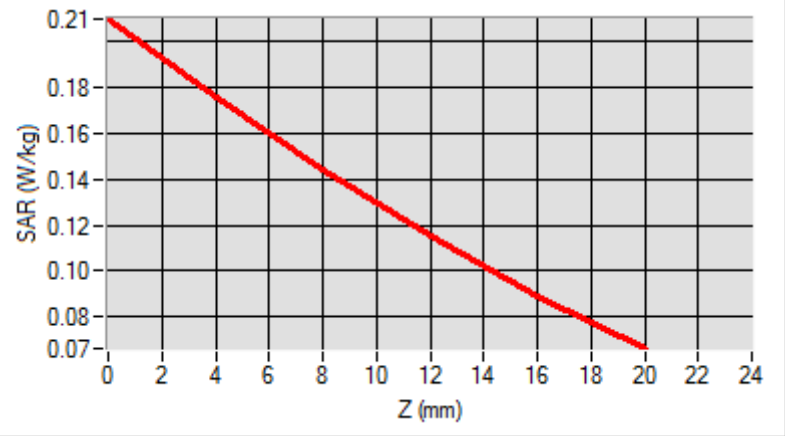
SURFACE SAR	VOLUME SAR
	

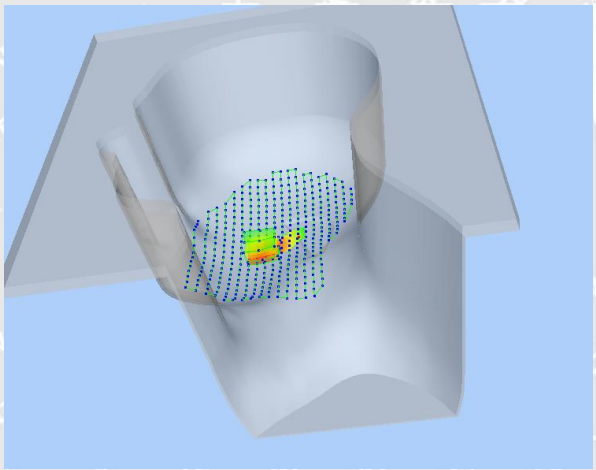
Maximum location: X=-33.00, Y=-18.00

SAR Peak: 0.21 W/kg

SAR 10g (W/Kg)	0.121187
SAR 1g (W/Kg)	0.170415

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2097	0.1754	0.1438	0.1149	0.0890



3D screen shot	Hot spot position
	

MEASUREMENT 11

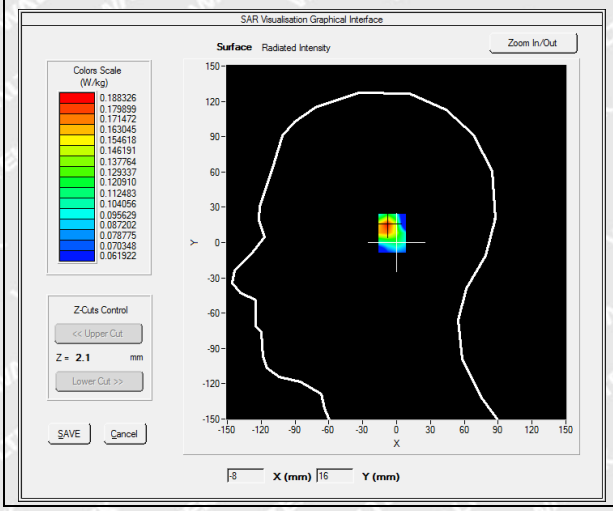
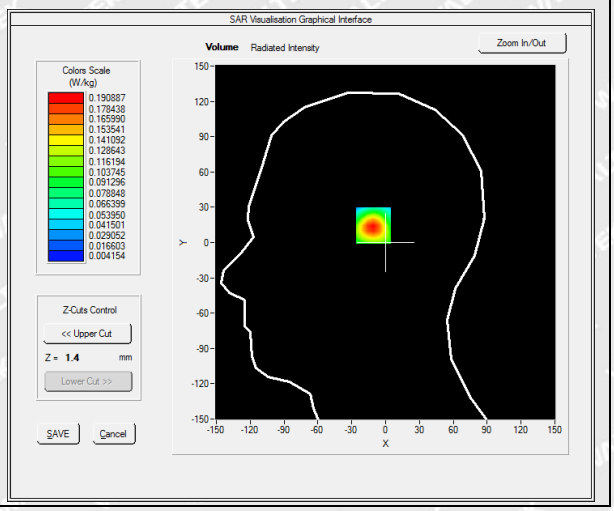
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right Cheek
Device Position	Cheek
Band	TDD-LTE Band 38_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2610.000000
Relative Permittivity (real part)	39.442643
Conductivity (S/m)	1.944365
Power Variation (%)	-1.392800
Ambient Temperature	22.2
Liquid Temperature	22.2

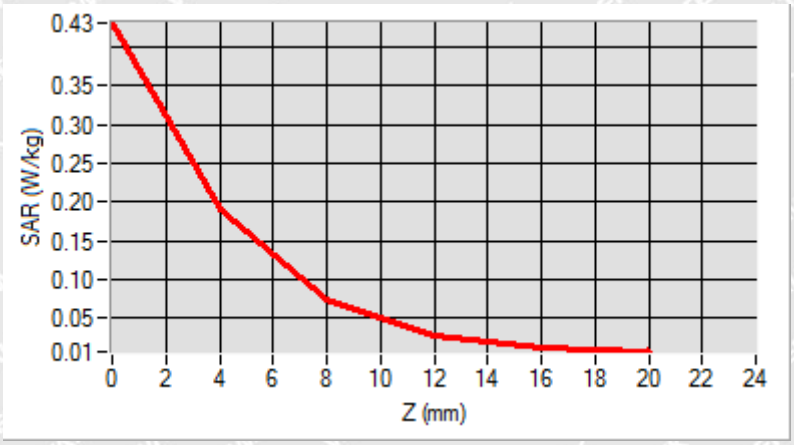
SURFACE SAR	VOLUME SAR
	

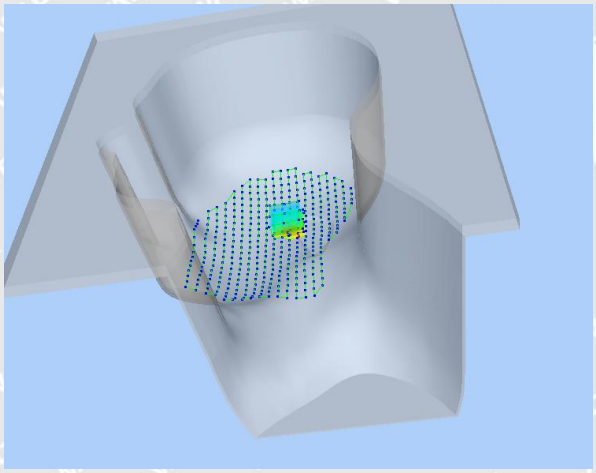
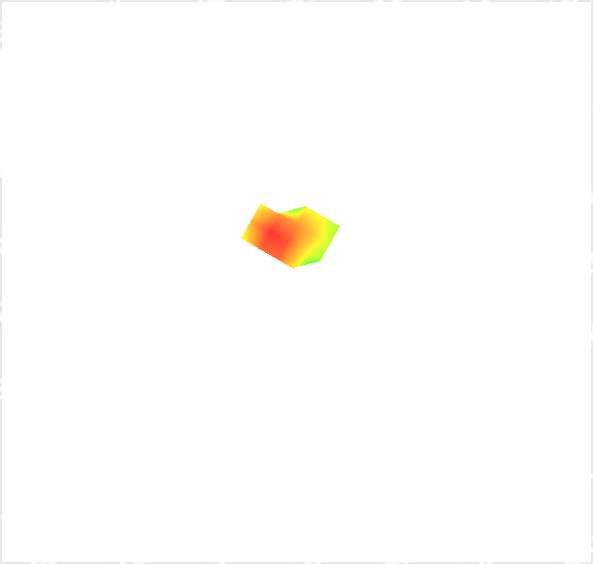
Maximum location: X=-9.00, Y=15.00

SAR Peak: 0.43 W/kg

SAR 10g (W/Kg)	0.079503
SAR 1g (W/Kg)	0.185215

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4307	0.1909	0.0753	0.0286	0.0129



3D screen shot	Hot spot position
	

MEASUREMENT 12

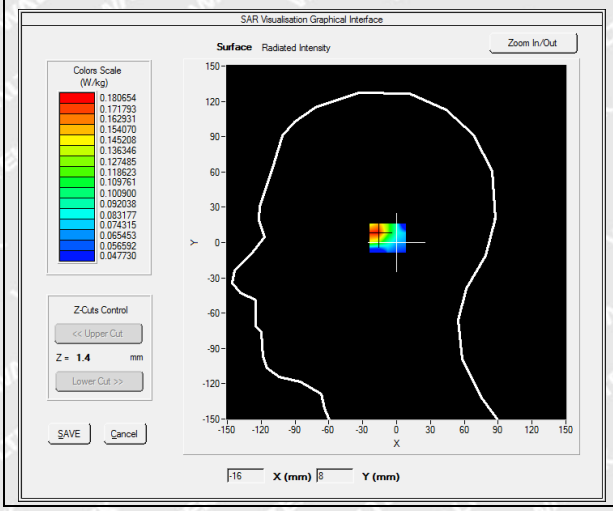
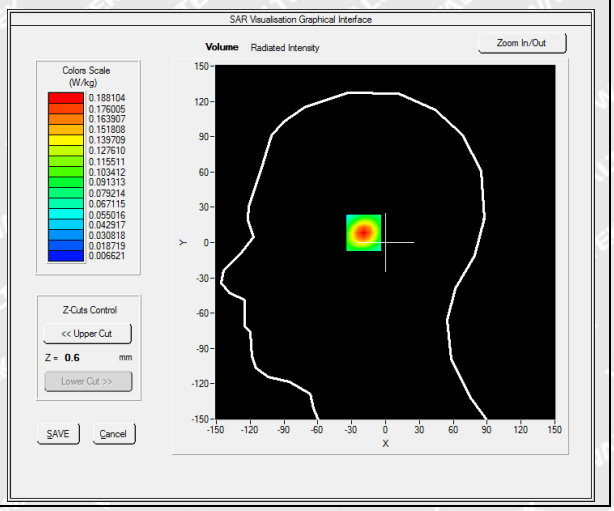
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Right Cheek
Device Position	Cheek
Band	TDD-LTE Band 40_QPSK, 20MHz
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative Permittivity (real part)	39.163412
Conductivity (S/m)	1.684165
Power Variation (%)	-1.276900
Ambient Temperature	22.4
Liquid Temperature	22.4

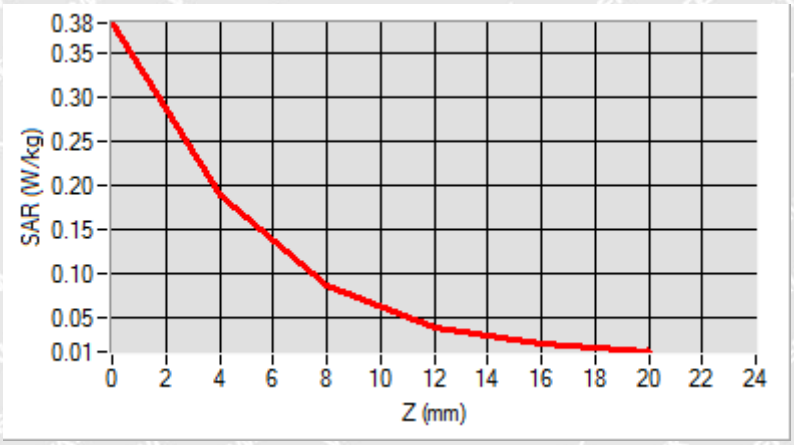
SURFACE SAR	VOLUME SAR
	

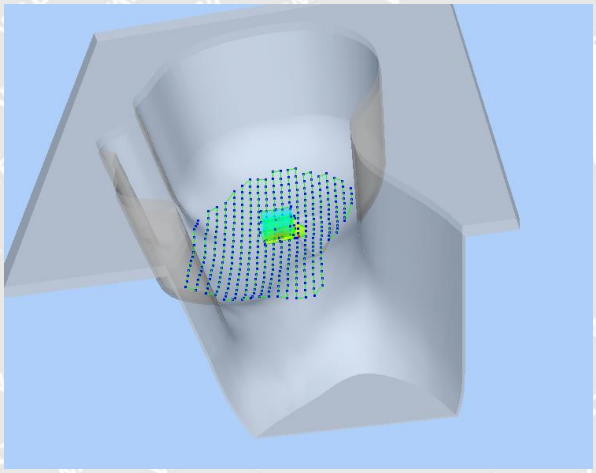
Maximum location: X=-18.00, Y=9.00

SAR Peak: 0.38 W/kg

SAR 10g (W/Kg)	0.079208
SAR 1g (W/Kg)	0.174590

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.3842	0.1881	0.0860	0.0396	0.0209



3D screen shot	Hot spot position
	

MEASUREMENT 13

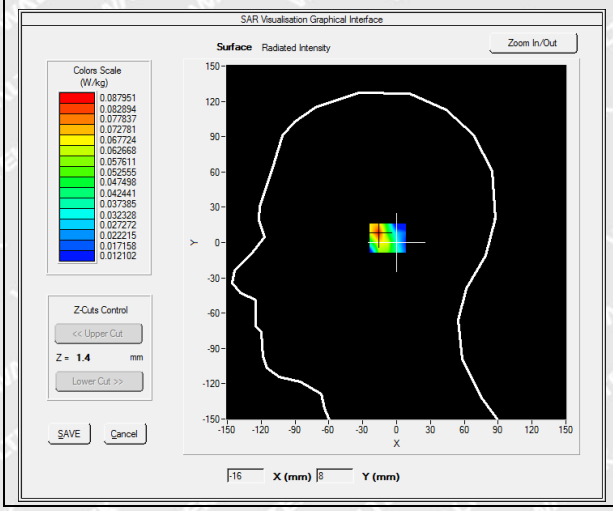
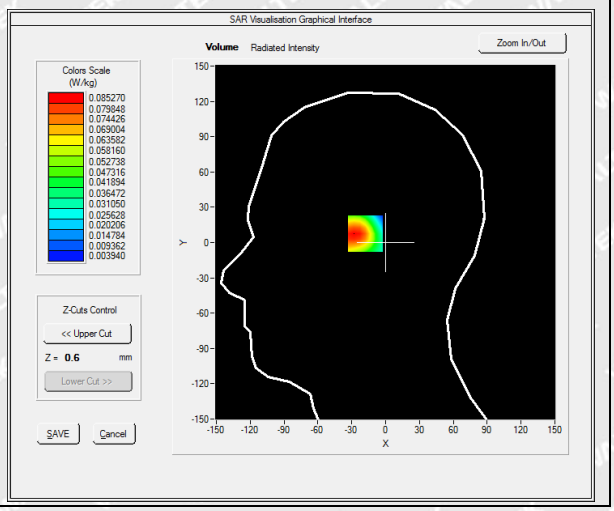
Type: Phone measurement (Complete)
Date of measurement: 2023-06-28
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	2472.000000
Relative Permittivity (real part)	38.571587
Conductivity (S/m)	1.783625
Power Variation (%)	1.346800
Ambient Temperature	22.4
Liquid Temperature	22.4

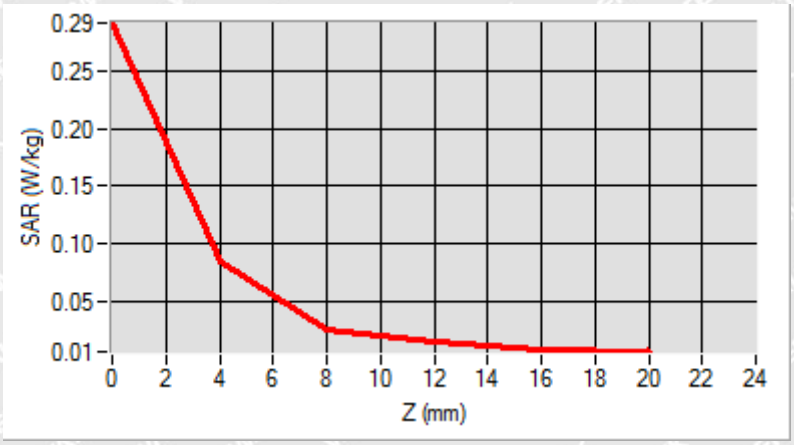
SURFACE SAR	VOLUME SAR
	

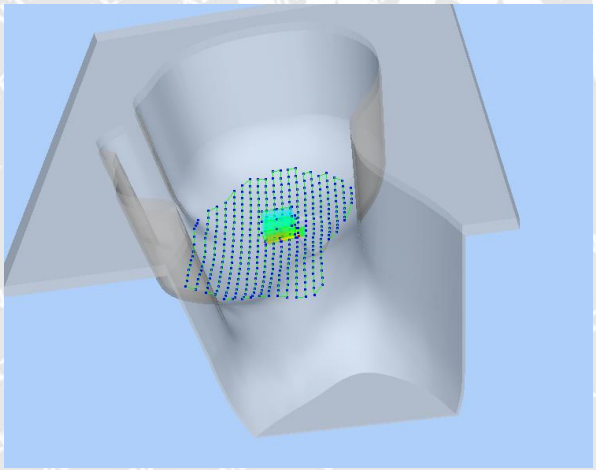
Maximum location: X=-17.00, Y=8.00

SAR Peak: 0.19 W/kg

SAR 10g (W/Kg)	0.039024
SAR 1g (W/Kg)	0.083616

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2916	0.0853	0.0248	0.0150	0.0085



3D screen shot	Hot spot position
	

MEASUREMENT 14

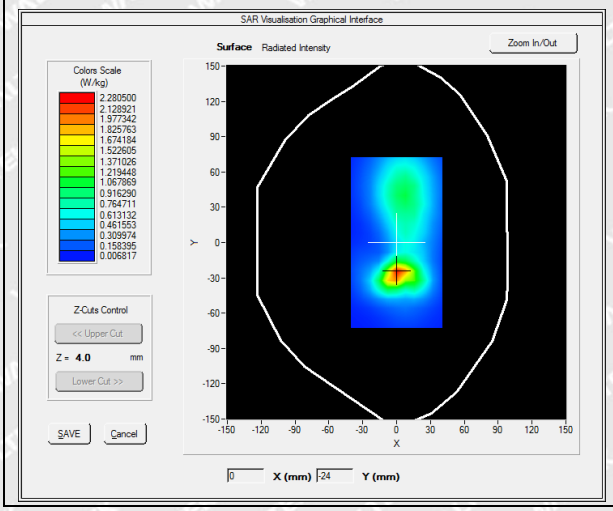
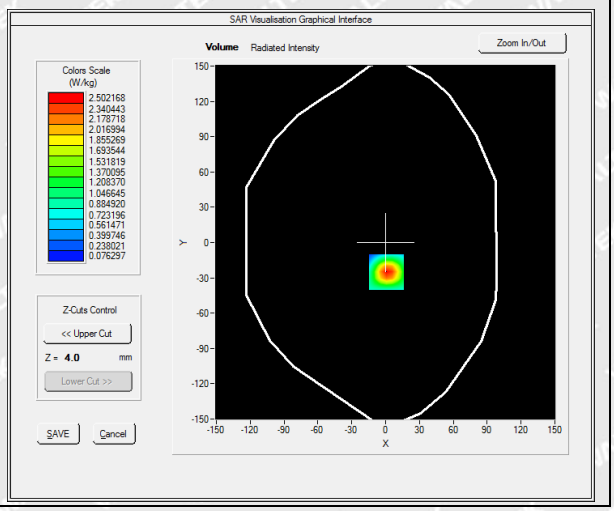
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Phantom
Device Position	Back
Band	GPRS900_4TX
Channels	Low
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	880.200000
Relative Permittivity (real part)	41.372485
Conductivity (S/m)	0.894623
Power Variation (%)	1.521300
Ambient Temperature	22.2
Liquid Temperature	22.2

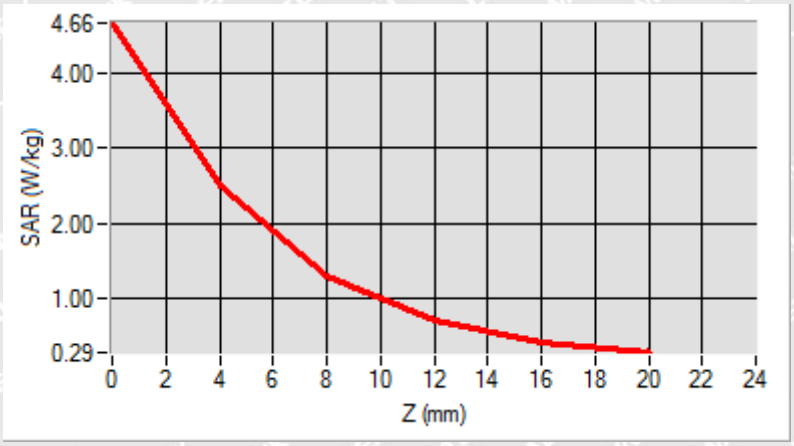
SURFACE SAR	VOLUME SAR
	

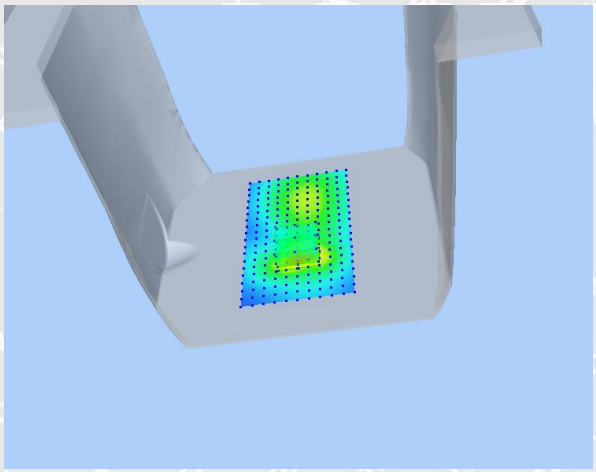
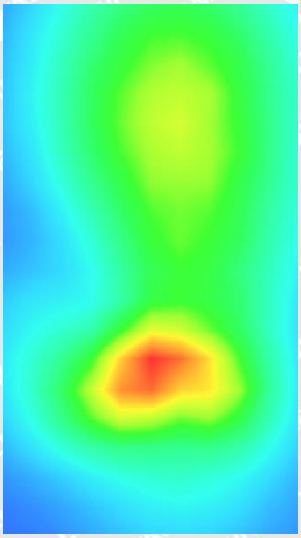
Maximum location: X=1.00, Y=-25.00

SAR Peak: 4.70 W/kg

SAR 10g (W/Kg)	1.042316
SAR 1g (W/Kg)	2.263176

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	4.6628	2.5022	1.3036	0.7080	0.4368



3D screen shot	Hot spot position
	

MEASUREMENT 15

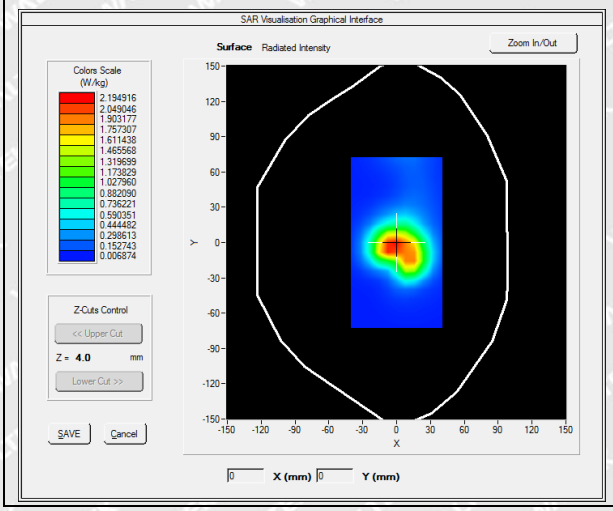
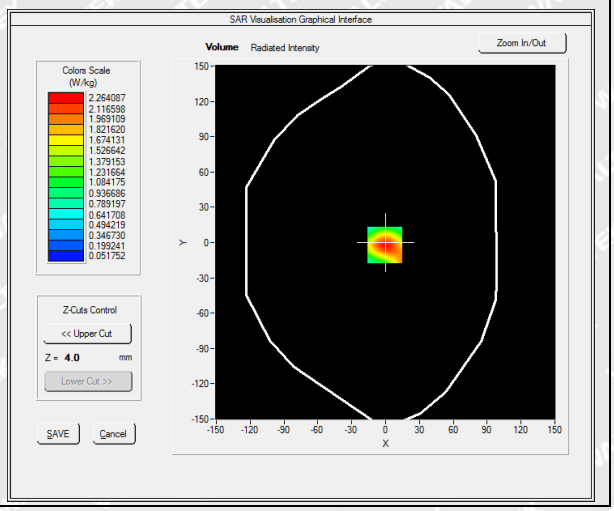
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS1800_4TX
Channels	High
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	1783.800000
Relative Permittivity (real part)	39.363741
Conductivity (S/m)	1.382419
Power Variation (%)	-0.649900
Ambient Temperature	22.5
Liquid Temperature	22.5

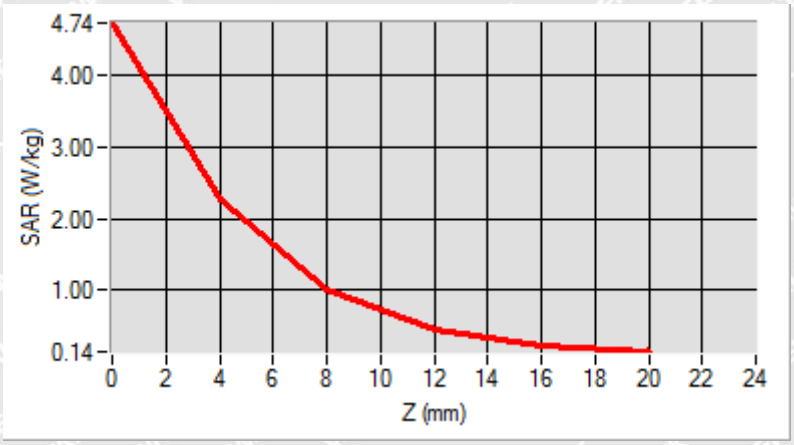
SURFACE SAR	VOLUME SAR
	

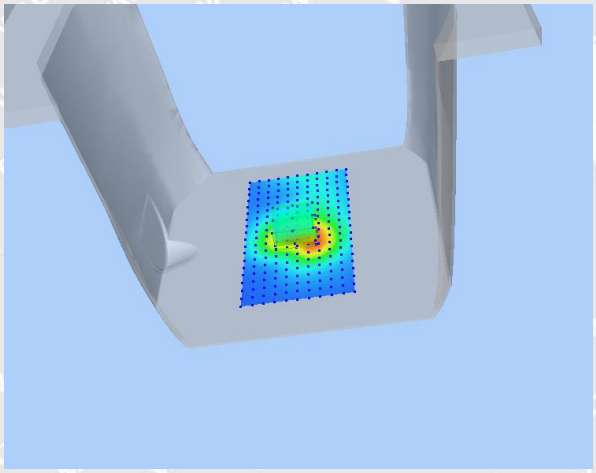
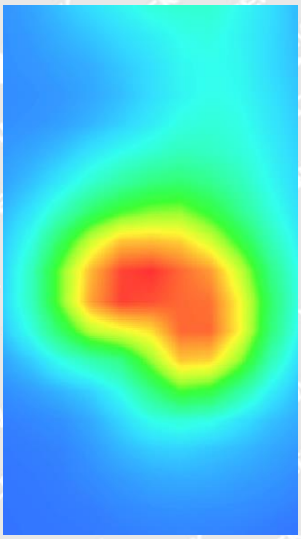
Maximum location: X=-1.00, Y=-2.00

SAR Peak: 4.75 W/kg

SAR 10g (W/Kg)	1.004279
SAR 1g (W/Kg)	2.143620

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	4.7421	2.2641	1.0019	0.4471	0.2334



3D screen shot	Hot spot position
	

MEASUREMENT 16

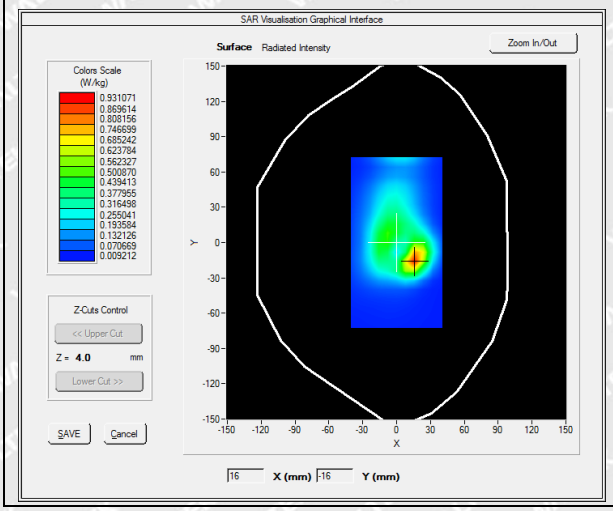
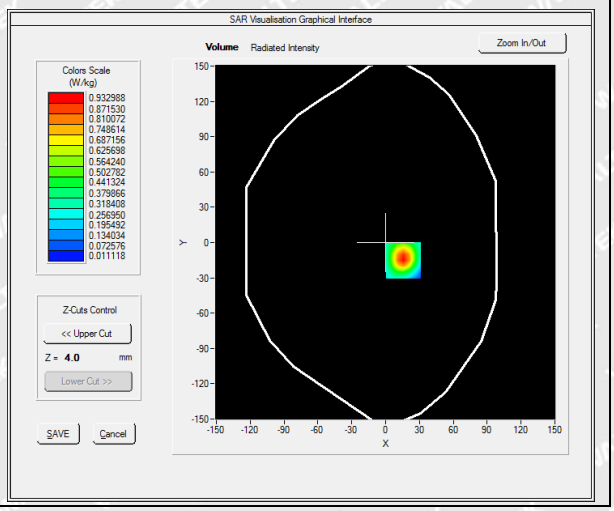
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA2100_RMC
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1977.400000
Relative permittivity (real part)	39.483661
Conductivity (S/m)	1.382489
Variation (%)	1.174800
Ambient Temperature	22.5
Liquid Temperature	22.5

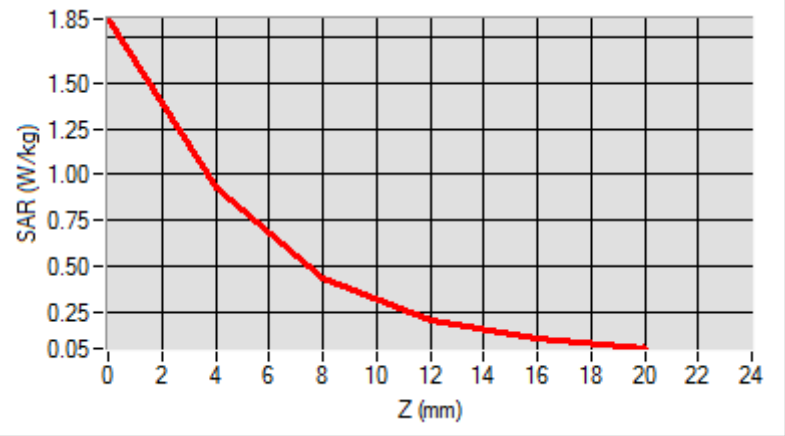
SURFACE SAR	VOLUME SAR
	

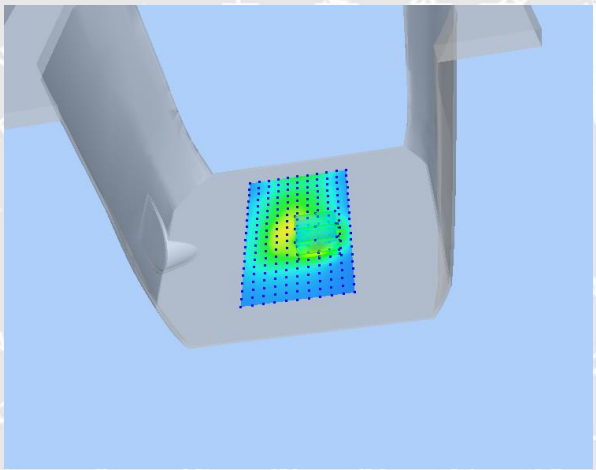
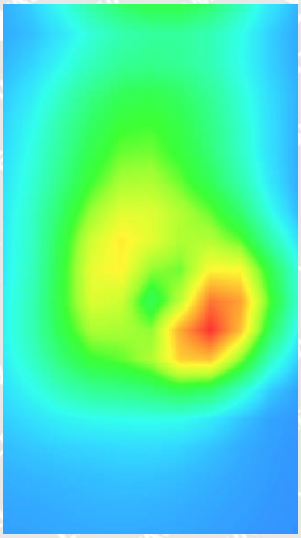
Maximum location: X=16.00, Y=-15.00

SAR Peak: 1.86 W/kg

SAR 10g (W/Kg)	0.362652
SAR 1g (W/Kg)	0.850092

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.8497	0.9330	0.4403	0.2048	0.1023



3D screen shot	Hot spot position
	

MEASUREMENT 17

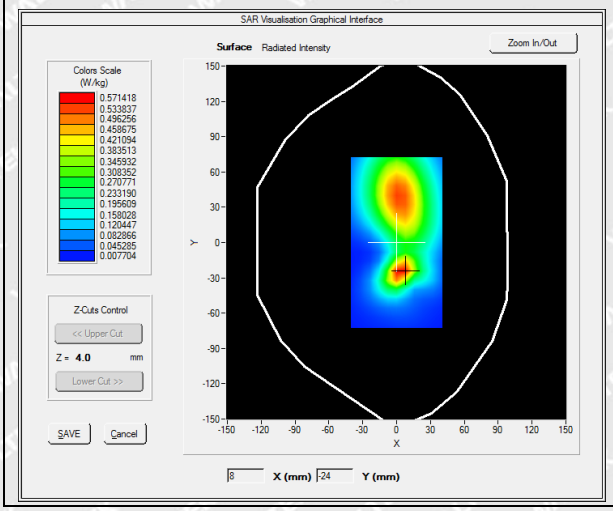
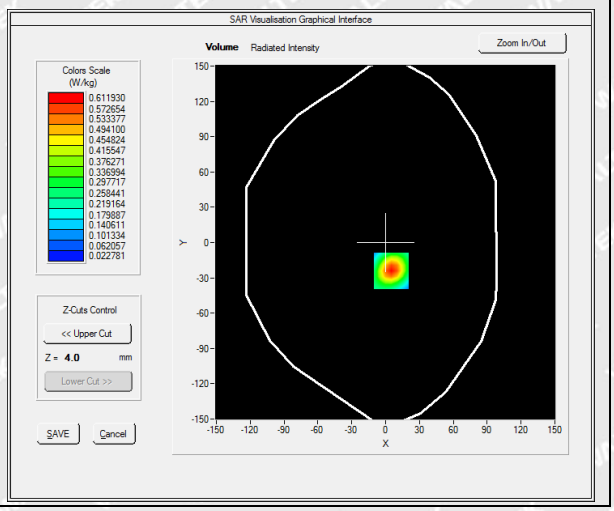
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA900_RMC
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	882.600000
Relative Permittivity (real part)	40.282651
Conductivity (S/m)	1.013129
Power Variation (%)	-1.413800
Ambient Temperature	22.2
Liquid Temperature	22.2

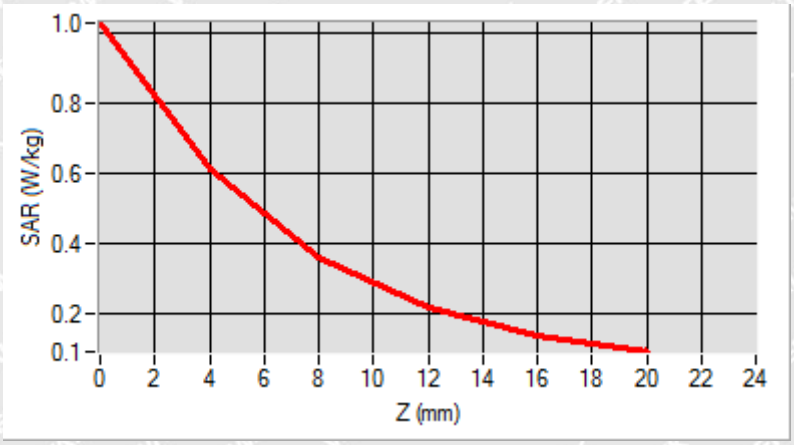
SURFACE SAR	VOLUME SAR
	

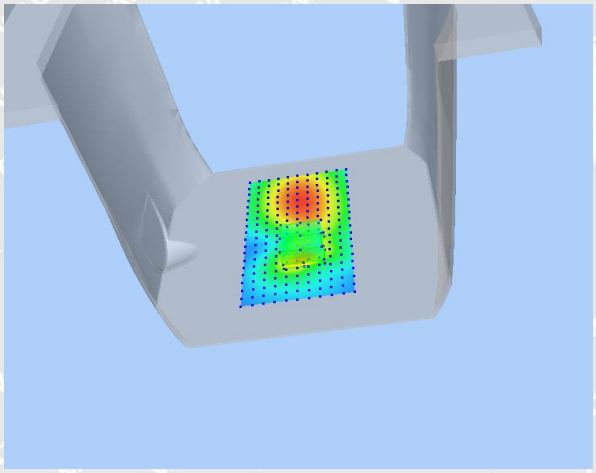
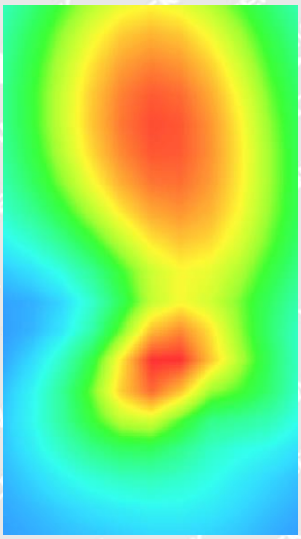
Maximum location: X=5.00, Y=-24.00

SAR Peak: 1.03 W/kg

SAR 10g (W/Kg)	0.281275
SAR 1g (W/Kg)	0.555345

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0304	0.6119	0.3578	0.2144	0.1369



3D screen shot	Hot spot position
	

MEASUREMENT 18

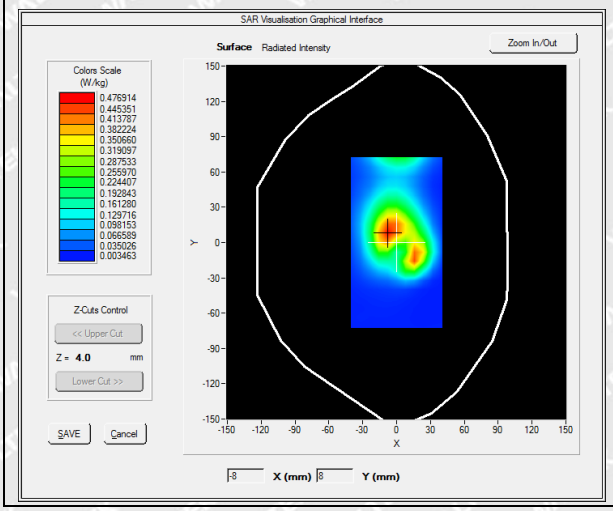
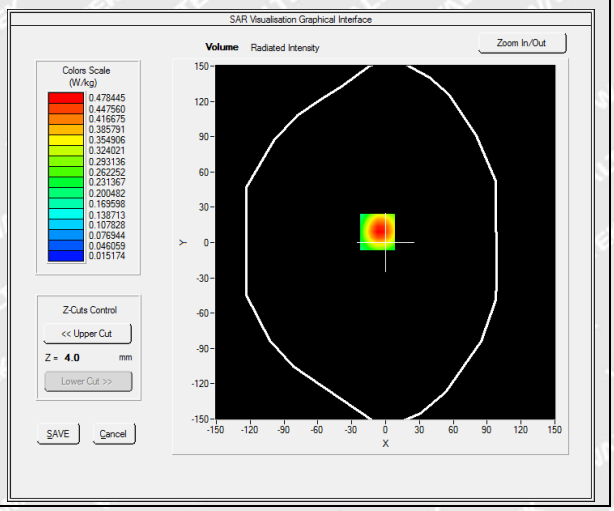
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 1_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1970.000000
Relative Permittivity (real part)	39.482641
Conductivity (S/m)	1.381482
Power Variation (%)	1.187500
Ambient Temperature	22.5
Liquid Temperature	22.5

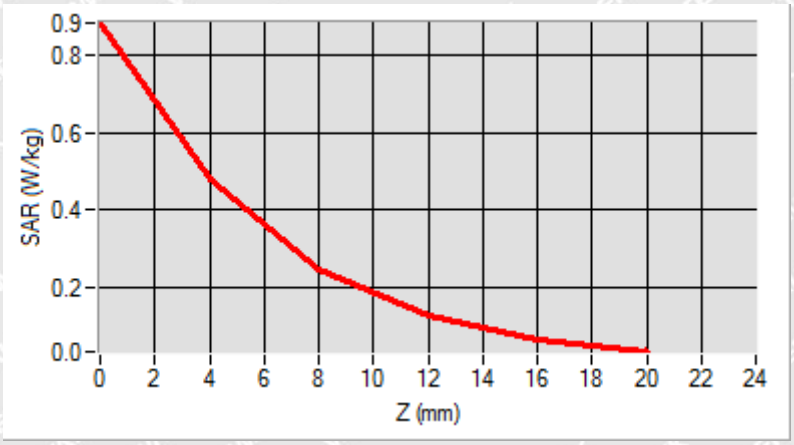
SURFACE SAR	VOLUME SAR
	

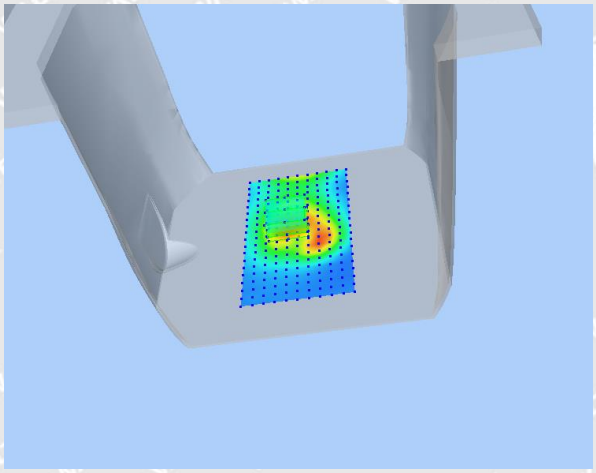
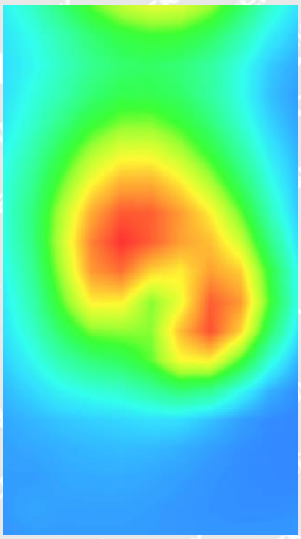
Maximum location: X=-7.00, Y=9.00

SAR Peak: 0.89 W/kg

SAR 10g (W/Kg)	0.222742
SAR 1g (W/Kg)	0.453572

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.8854	0.4784	0.2463	0.1254	0.0664



3D screen shot	Hot spot position
	

MEASUREMENT 19

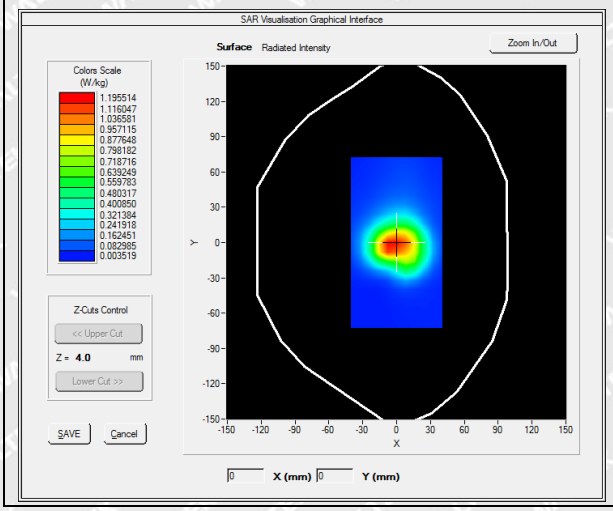
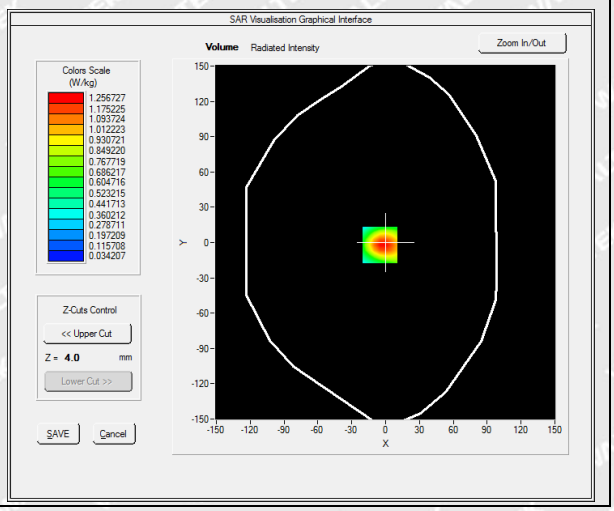
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 3_QPSK, 20MHz
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.361464
Conductivity (S/m)	1.382190
Power Variation (%)	2.641100
Ambient Temperature	22.5
Liquid Temperature	22.5

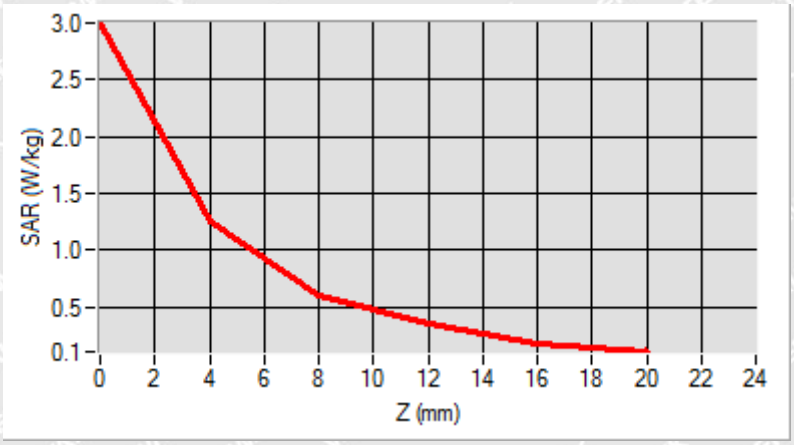
SURFACE SAR	VOLUME SAR
	

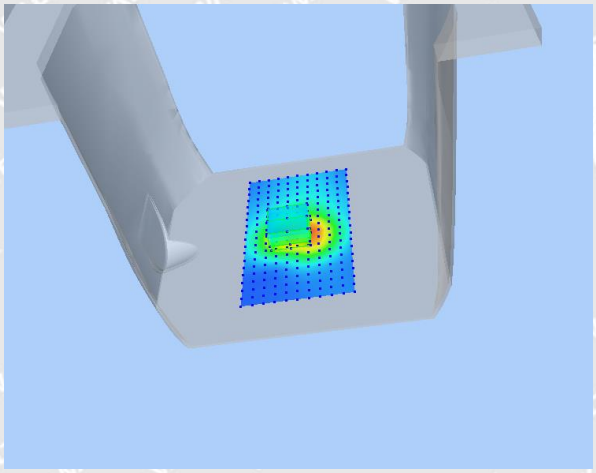
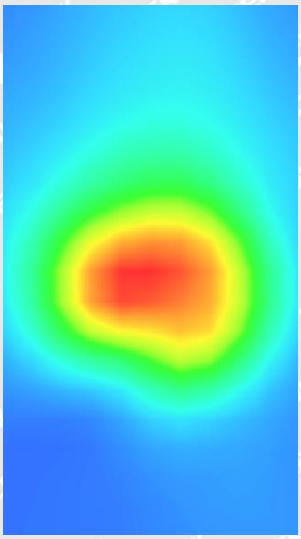
Maximum location: X=-5.00, Y=-2.00

SAR Peak: 2.28 W/kg

SAR 10g (W/Kg)	0.579382
SAR 1g (W/Kg)	1.177853

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	3.0026	1.2567	0.6054	0.3579	0.1827



3D screen shot	Hot spot position
	

MEASUREMENT 20

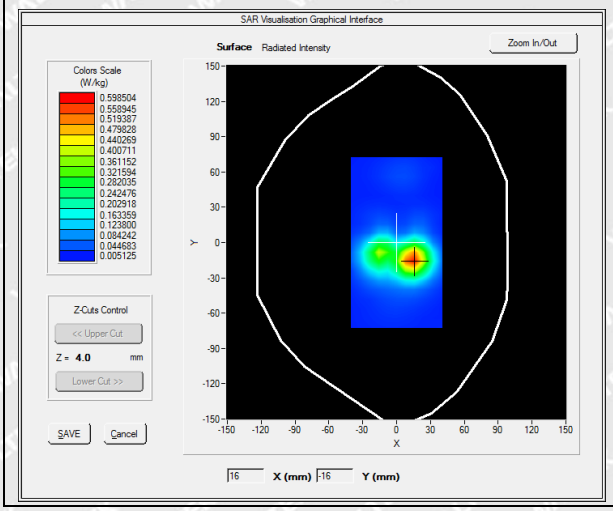
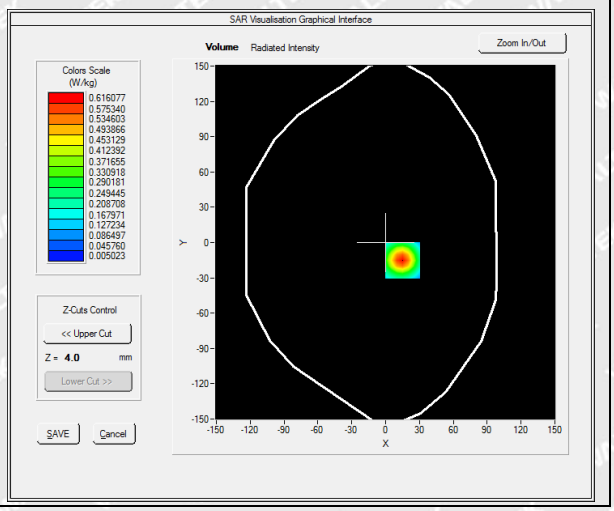
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 7_QPSK, 20MHz
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2535.000000
Relative Permittivity (real part)	39.441276
Conductivity (S/m)	1.943859
Power Variation (%)	1.569100
Ambient Temperature	22.2
Liquid Temperature	22.2

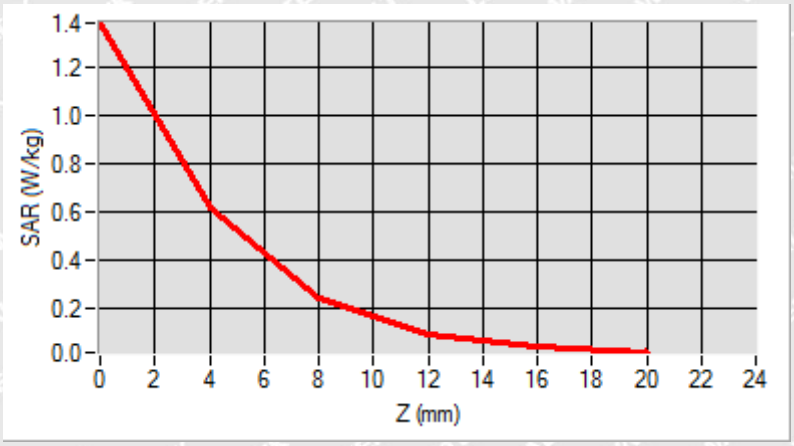
SURFACE SAR	VOLUME SAR
	

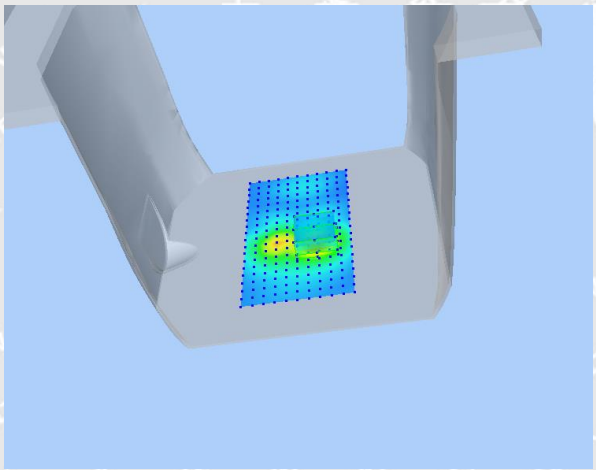
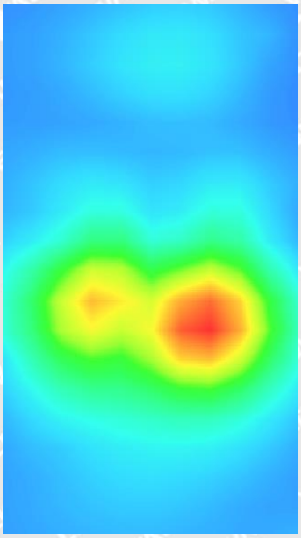
Maximum location: X=15.00, Y=-15.00

SAR Peak: 1.38 W/kg

SAR 10g (W/Kg)	0.234179
SAR 1g (W/Kg)	0.573964

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.3800	0.6161	0.2437	0.0906	0.0373



3D screen shot	Hot spot position
	

MEASUREMENT 21

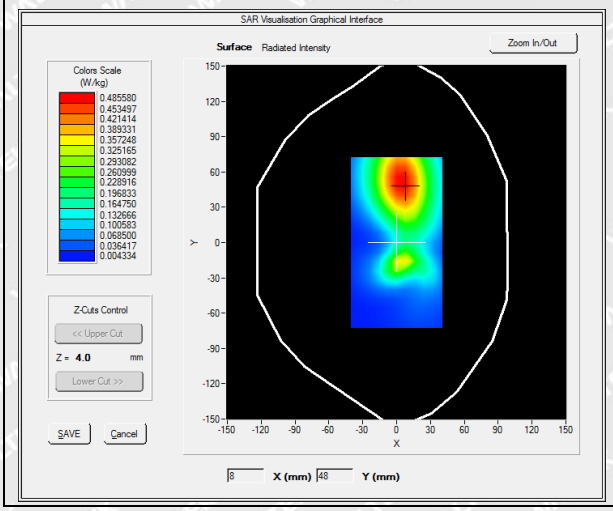
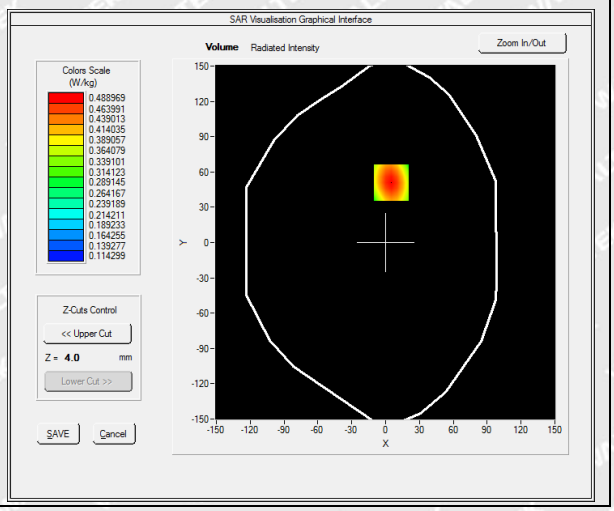
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	885.000000
Relative Permittivity (real part)	41.373914
Conductivity (S/m)	0.892861
Power Variation (%)	2.261100
Ambient Temperature	22.2
Liquid Temperature	22.2

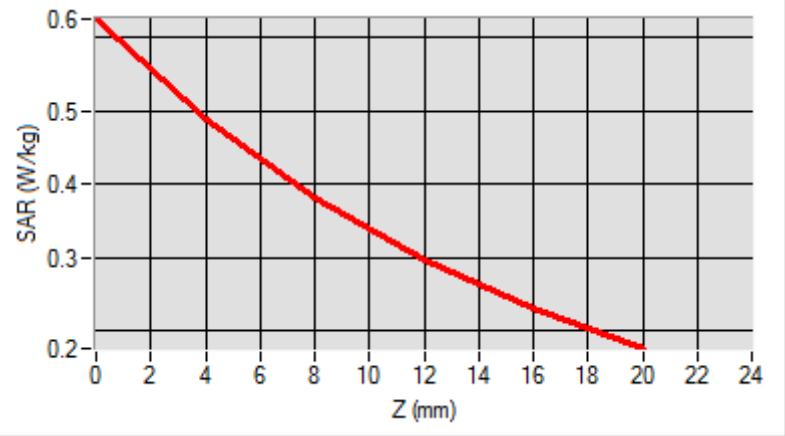
SURFACE SAR	VOLUME SAR
	

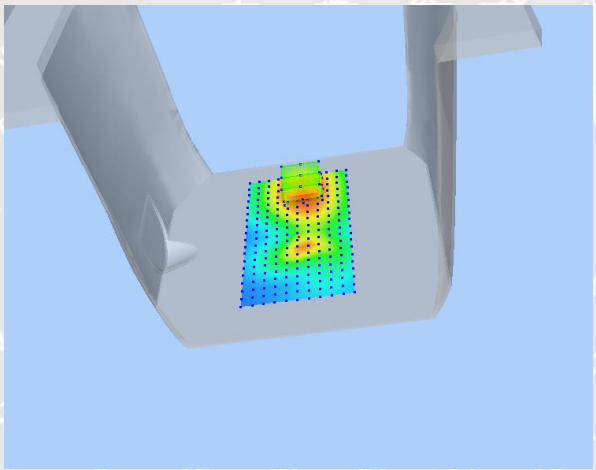
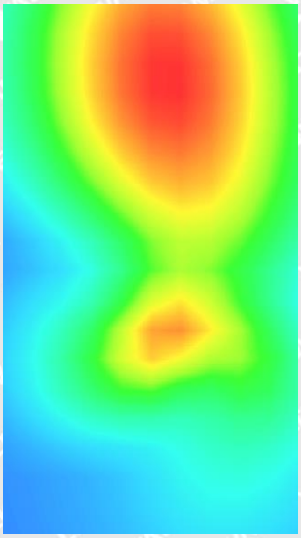
Maximum location: X=5.00, Y=51.00

SAR Peak: 0.63 W/kg

SAR 10g (W/Kg)	0.320739
SAR 1g (W/Kg)	0.464104

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6257	0.4890	0.3805	0.2959	0.2297



3D screen shot	Hot spot position
	

MEASUREMENT 22

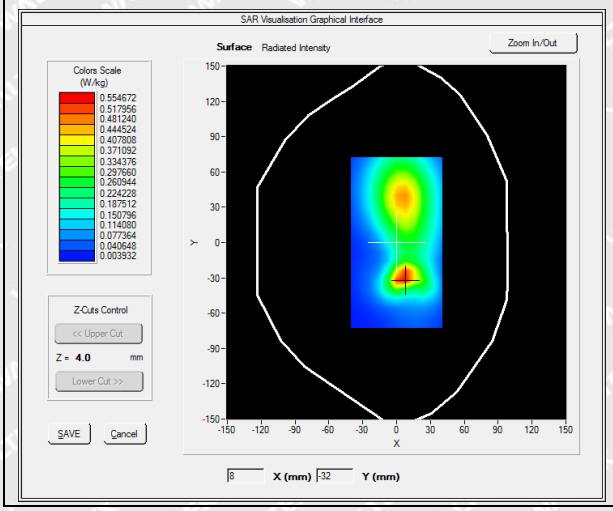
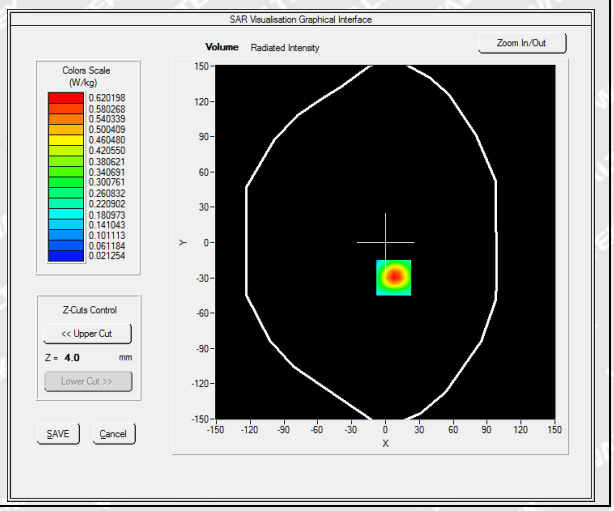
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 20_QPSK, 20MHz
Channels	Middle
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	847.000000
Relative Permittivity (real part)	41.374538
Conductivity (S/m)	0.892591
Power Variation (%)	-1.144500
Ambient Temperature	22.2
Liquid Temperature	22.2

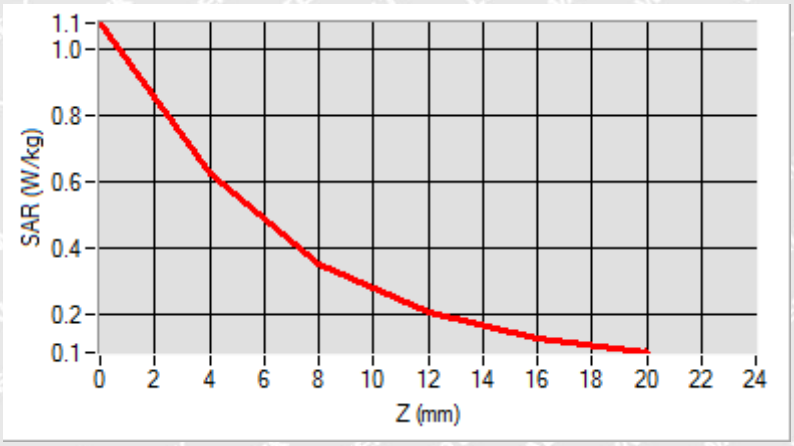
SURFACE SAR	VOLUME SAR
	

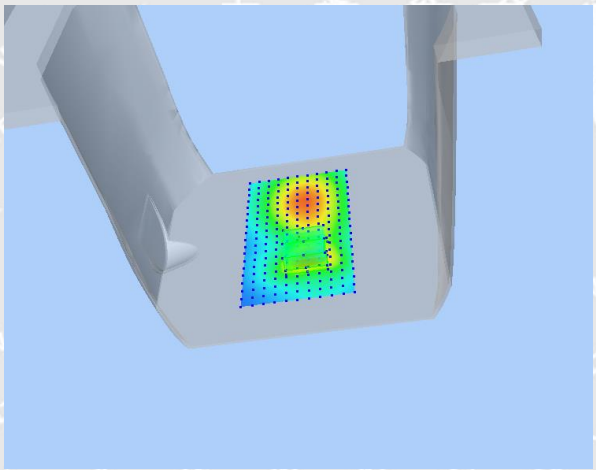
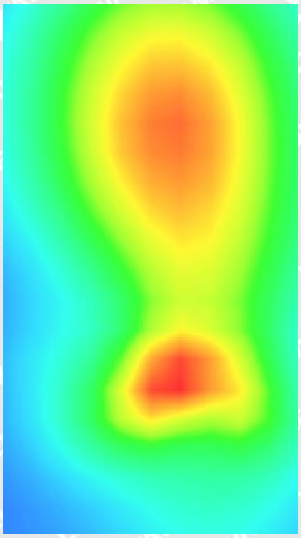
Maximum location: X=7.00, Y=-30.00

SAR Peak: 1.09 W/kg

SAR 10g (W/Kg)	0.276228
SAR 1g (W/Kg)	0.566460

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.0787	0.6202	0.3496	0.2027	0.1270



3D screen shot	Hot spot position
	

MEASUREMENT 23

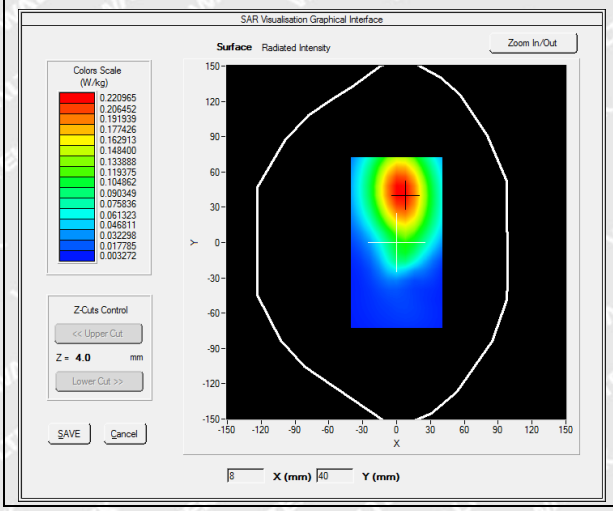
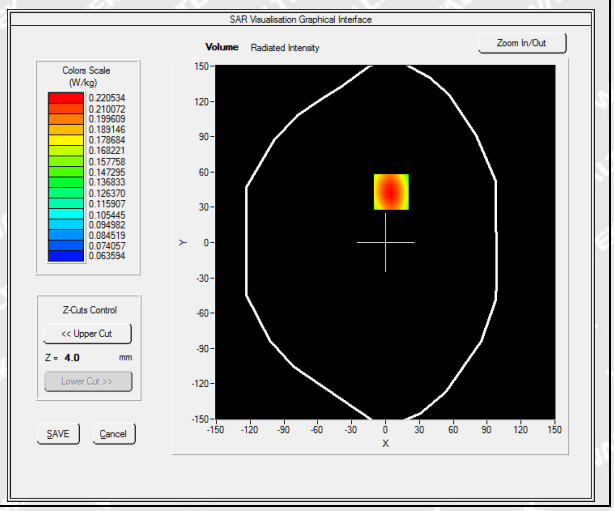
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 28_QPSK, 20MHz
Channels	Middle
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	725.000000
Relative Permittivity (real part)	41.463547
Conductivity (S/m)	0.872541
Power Variation (%)	-1.174500
Ambient Temperature	22.2
Liquid Temperature	22.2

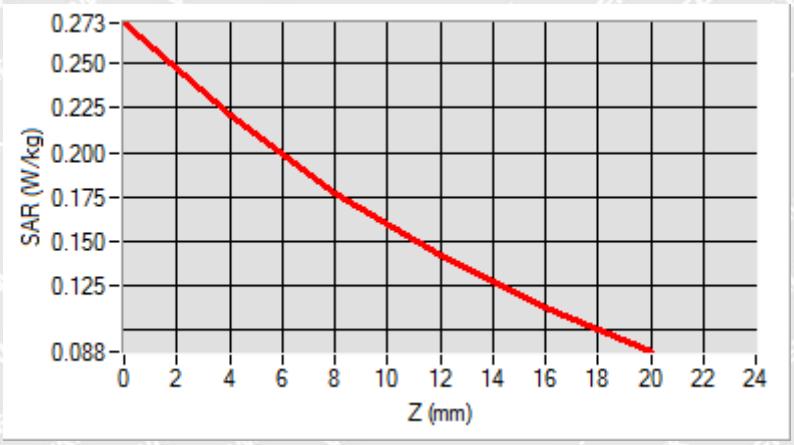
SURFACE SAR	VOLUME SAR
	

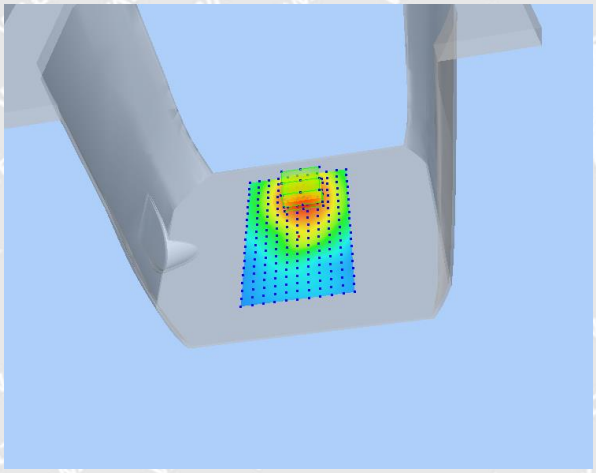
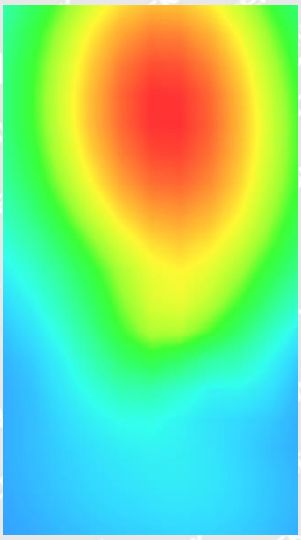
Maximum location: X=5.00, Y=43.00

SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)	0.163271
SAR 1g (W/Kg)	0.214523

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.2728	0.2205	0.1772	0.1417	0.1126



3D screen shot	Hot spot position
	

MEASUREMENT 24

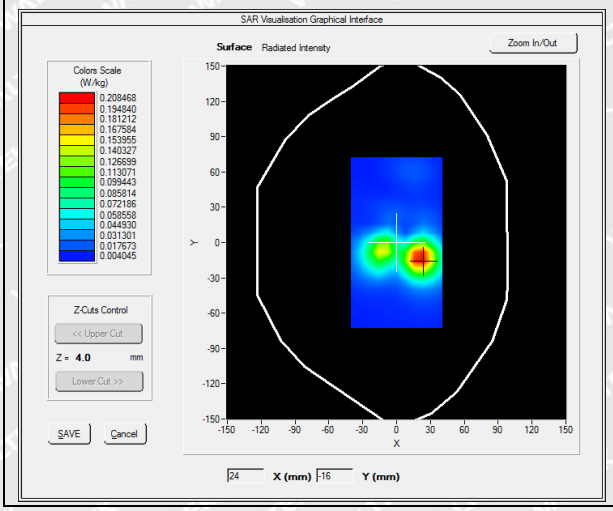
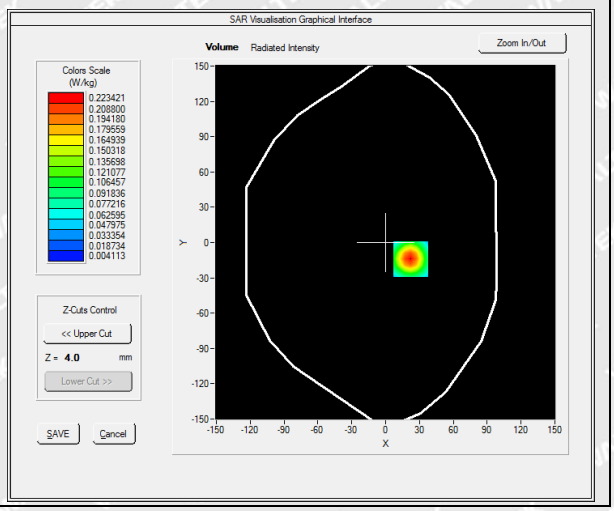
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	TDD-LTE Band 38_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	2610.000000
Relative Permittivity (real part)	39.442643
Conductivity (S/m)	1.944365
Power Variation (%)	1.351800
Ambient Temperature	22.2
Liquid Temperature	22.2

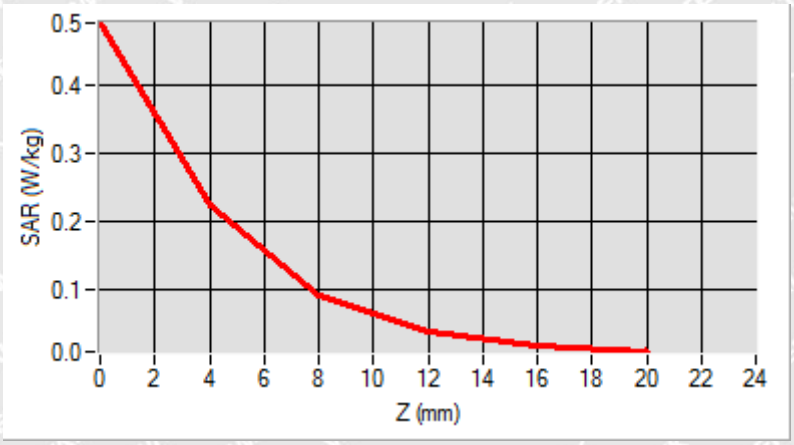
SURFACE SAR	VOLUME SAR
	

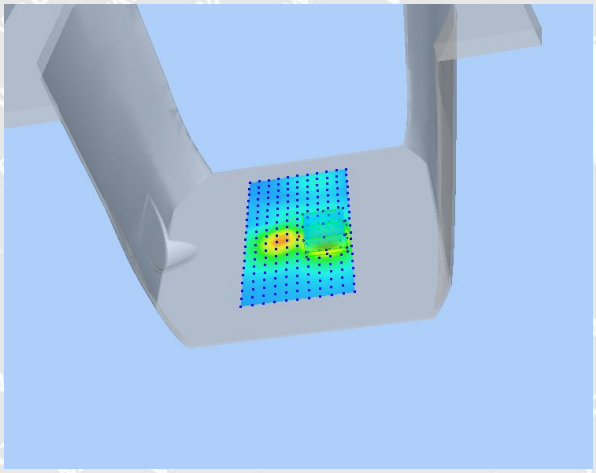
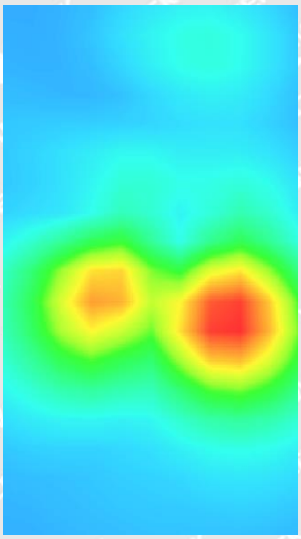
Maximum location: X=22.00, Y=-14.00

SAR Peak: 0.49 W/kg

SAR 10g (W/Kg)	0.089048
SAR 1g (W/Kg)	0.213073

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4909	0.2234	0.0913	0.0358	0.0158



3D screen shot	Hot spot position
	

MEASUREMENT 25

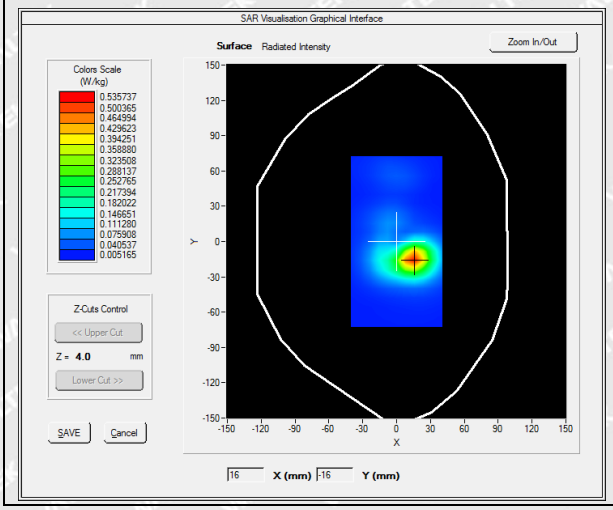
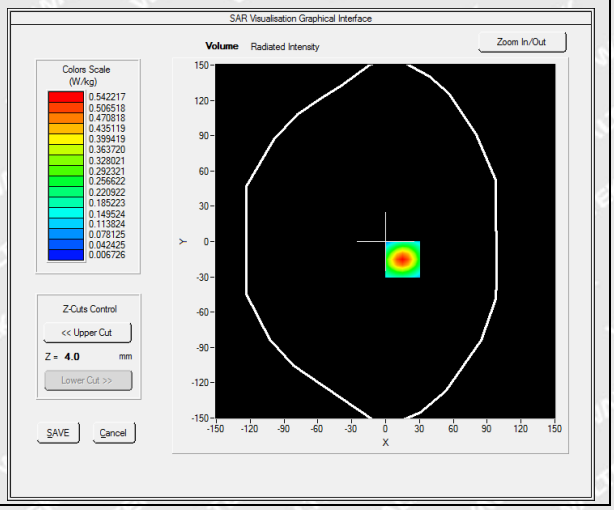
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	TDD-LTE Band 40_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	2390.000000
Relative Permittivity (real part)	39.163541
Conductivity (S/m)	1.684281
Power Variation (%)	-1.093000
Ambient Temperature	22.4
Liquid Temperature	22.4

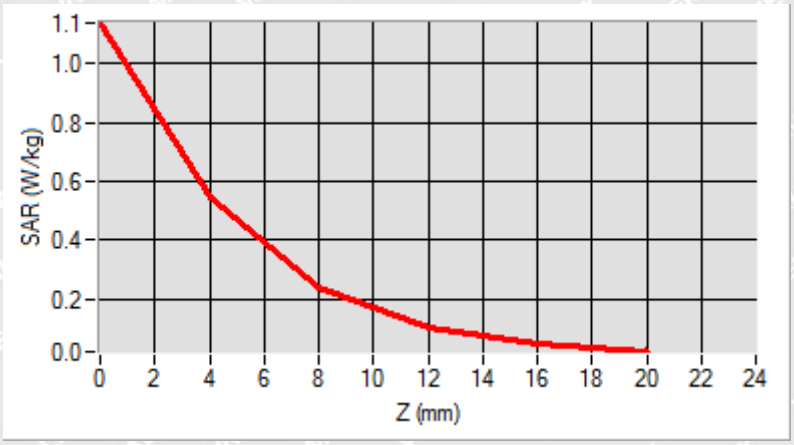
SURFACE SAR	VOLUME SAR
	

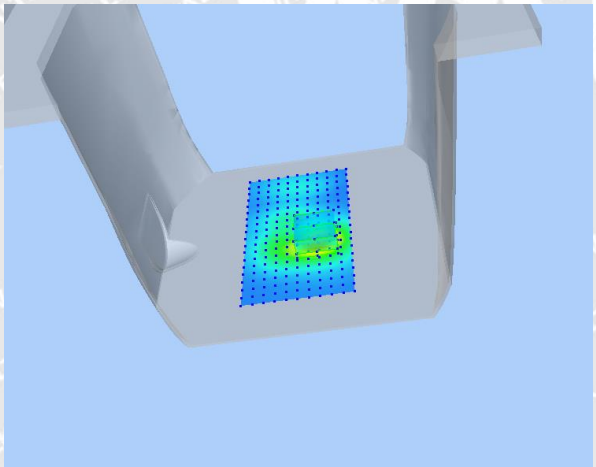
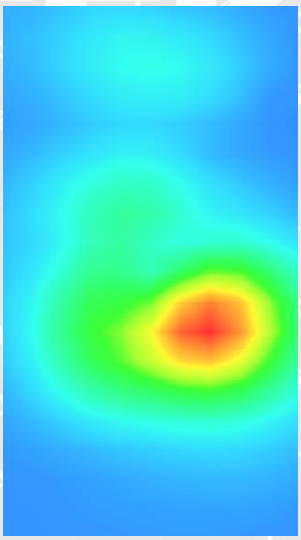
Maximum location: X=15.00, Y=-15.00

SAR Peak: 1.14 W/kg

SAR 10g (W/Kg)	**0.208238**
SAR 1g (W/Kg)	**0.496119**

Z (mm)	**0.00**	**4.00**	**8.00**	**12.00**	**16.00**
SAR (W/Kg)	**1.1385**	**0.5422**	**0.2358**	**0.0990**	**0.0449**



3D screen shot	**Hot spot position**
	

MEASUREMENT 26

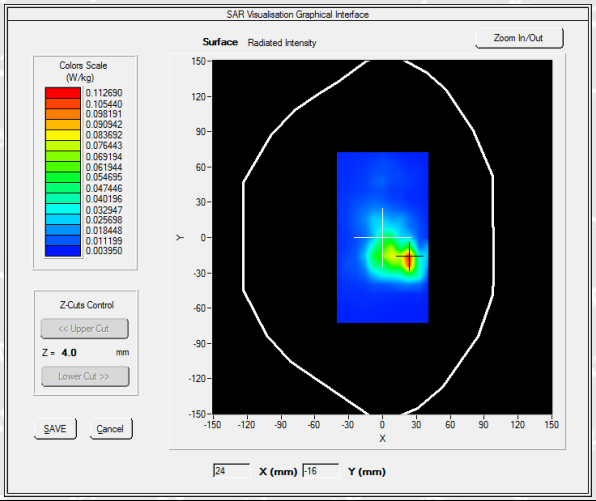
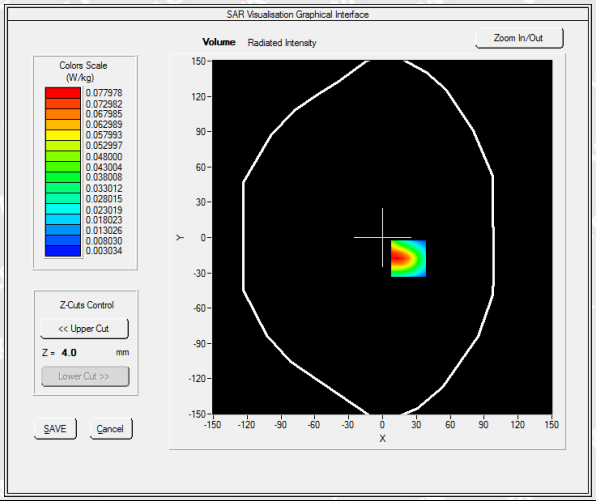
Type: Phone measurement (Complete)
Date of measurement: 2023-06-28
Measurement duration: 12 minutes 3 seconds

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)	2412.000000
Relative Permittivity (real part)	38.571558
Conductivity (S/m)	1.783765
Power Variation (%)	1.374700
Ambient Temperature	22.4
Liquid Temperature	22.4

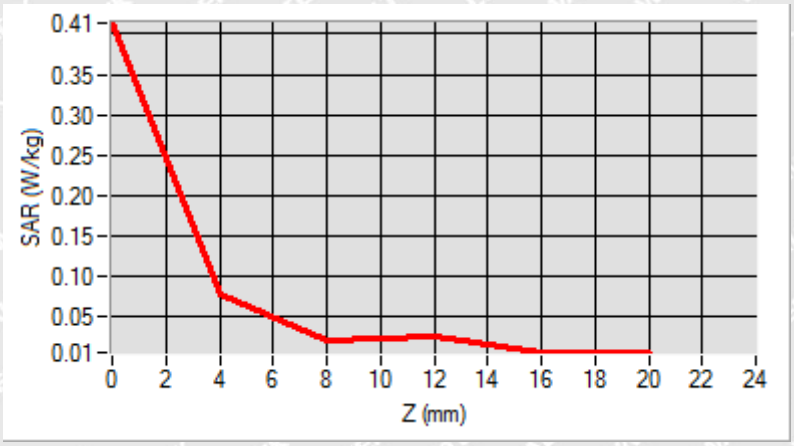
SURFACE SAR	VOLUME SAR
	

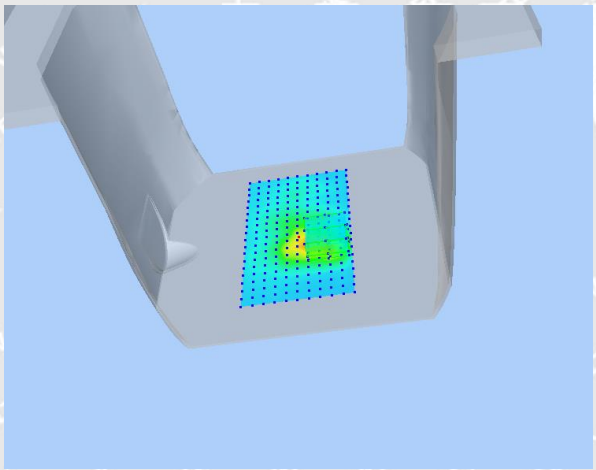
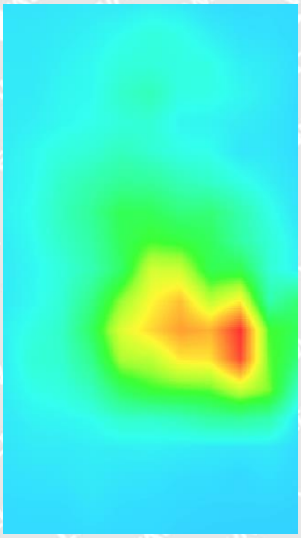
Maximum location: X=23.00, Y=-18.00

SAR Peak: 0.13 W/kg

SAR 10g (W/Kg)	0.033842
SAR 1g (W/Kg)	0.071441

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4135	0.0780	0.0198	0.0249	0.0066



3D screen shot	Hot spot position
	

MEASUREMENT 27

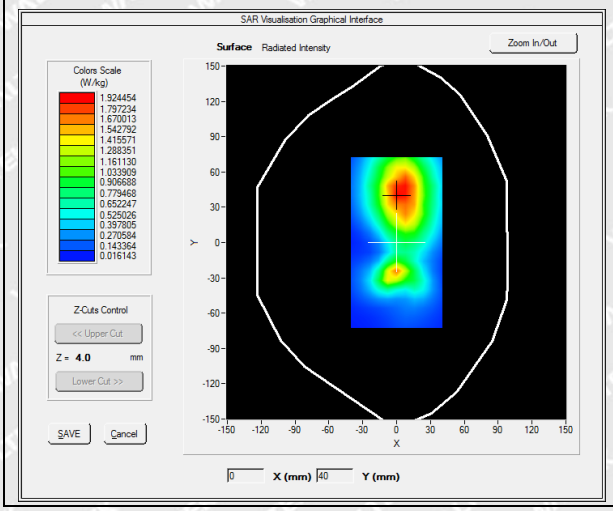
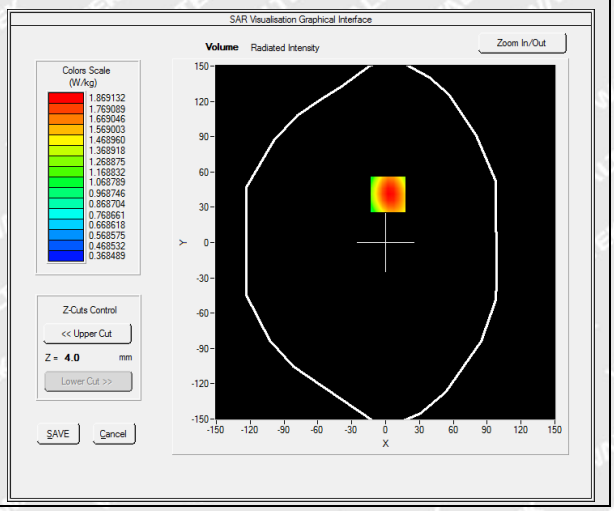
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS900_4TX
Channels	Low
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	880.200000
Relative Permittivity (real part)	41.372485
Conductivity (S/m)	0.894623
Power Variation (%)	1.691100
Ambient Temperature	22.2
Liquid Temperature	22.2

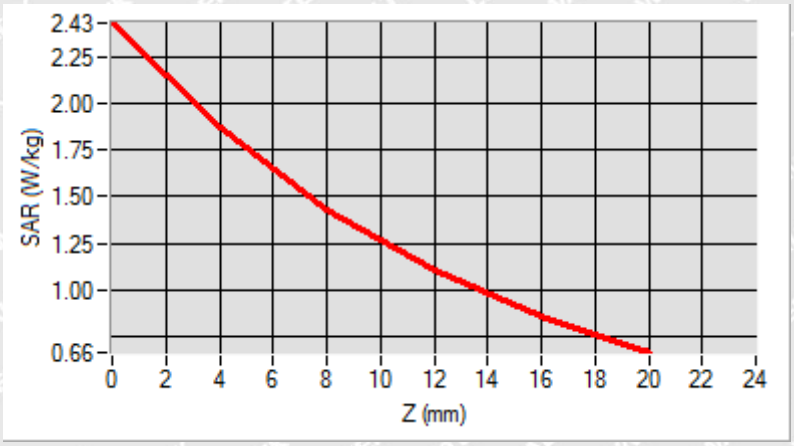
SURFACE SAR	VOLUME SAR
	

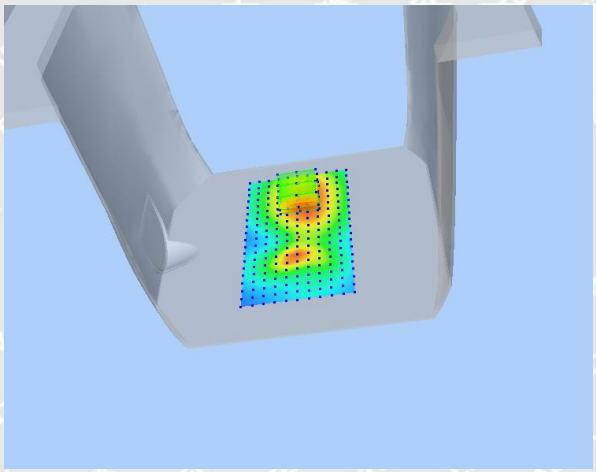
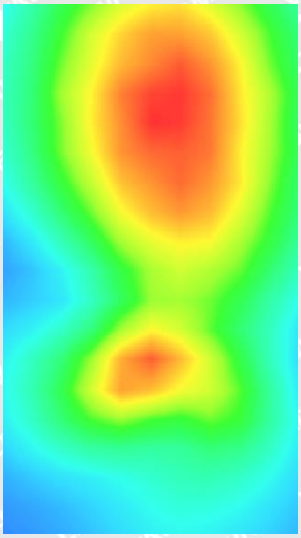
Maximum location: X=2.00, Y=41.00

SAR Peak: 2.45 W/kg

SAR 10g (W/Kg)	1.216450
SAR 1g (W/Kg)	1.782594

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.4347	1.8691	1.4341	1.1071	0.8604



3D screen shot	Hot spot position
	

MEASUREMENT 28

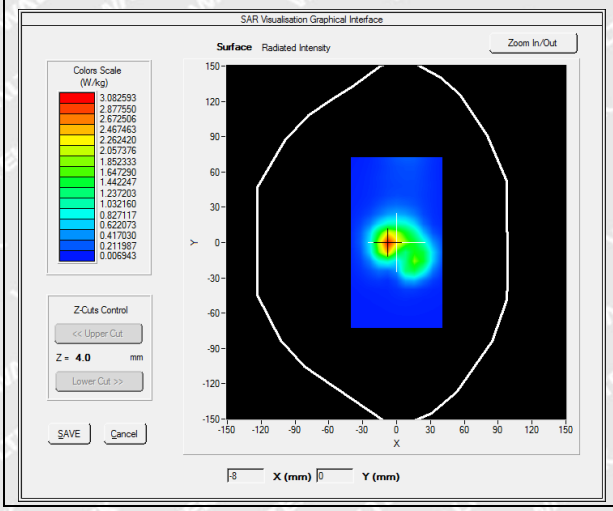
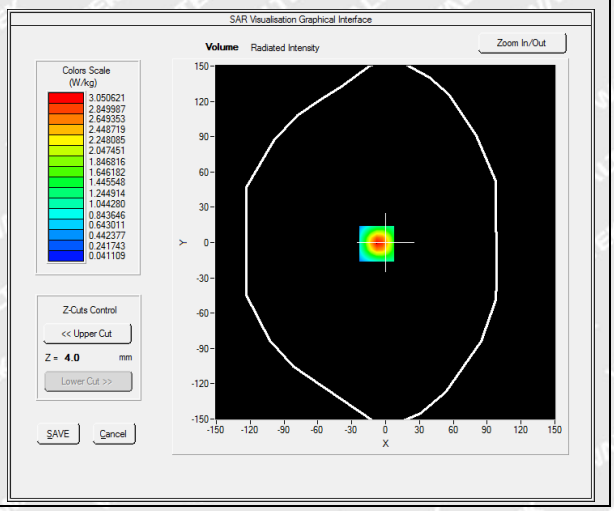
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	GPRS1800_4TX
Channels	Middle
Signal	Duty Cycle: 1:2

B. SAR Measurement Results

Frequency (MHz)	1747.400000
Relative Permittivity (real part)	39.361874
Conductivity (S/m)	1.382410
Power Variation (%)	1.641900
Ambient Temperature	22.5
Liquid Temperature	22.5

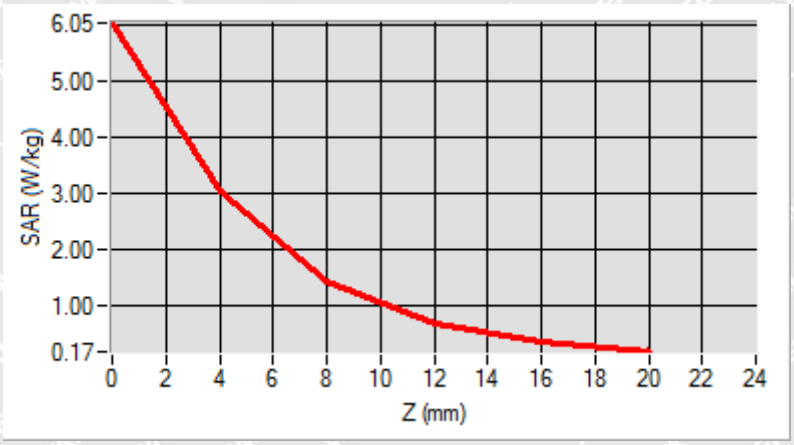
SURFACE SAR	VOLUME SAR
	

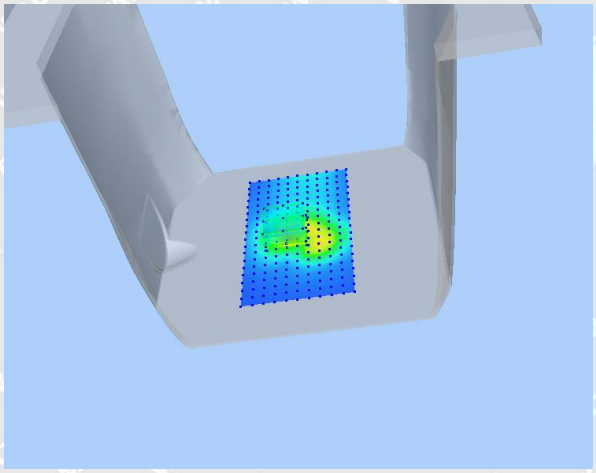
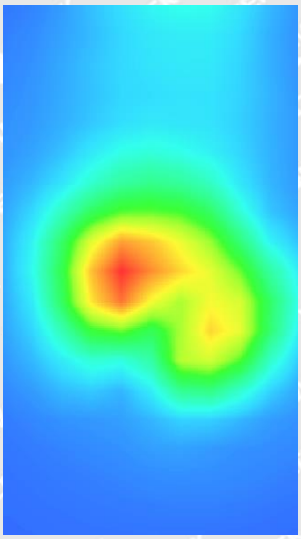
Maximum location: X=-8.00, Y=-1.00

SAR Peak: 6.09 W/kg

SAR 10g (W/Kg)	1.213417
SAR 1g (W/Kg)	2.802685

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	6.0513	3.0506	1.4401	0.6721	0.3389



3D screen shot	Hot spot position
	

MEASUREMENT 29

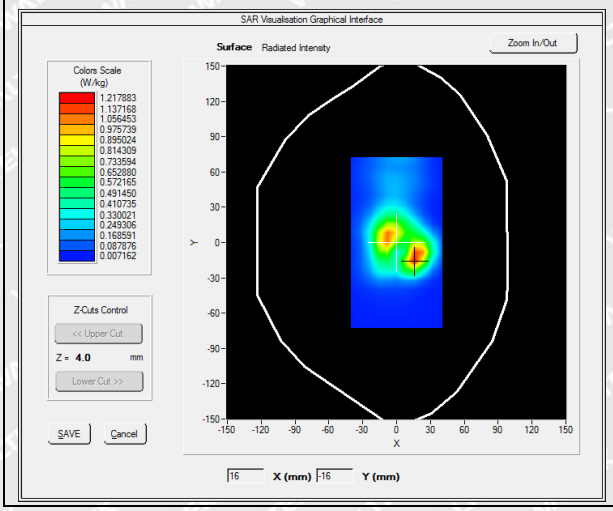
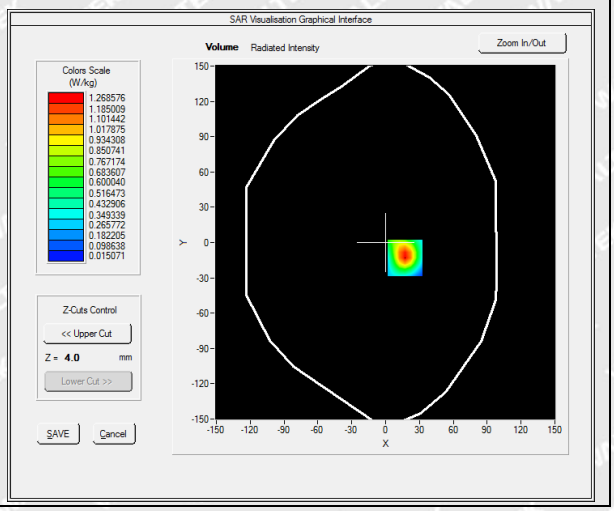
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA2100_RMC
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1922.600000
Relative Permittivity (real part)	39.483654
Conductivity (S/m)	1.382488
Power Variation (%)	1.152300
Ambient Temperature	22.5
Liquid Temperature	22.5

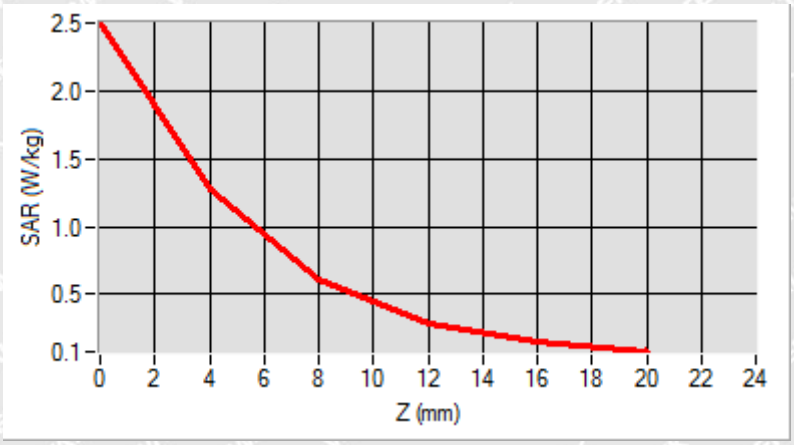
SURFACE SAR	VOLUME SAR
	

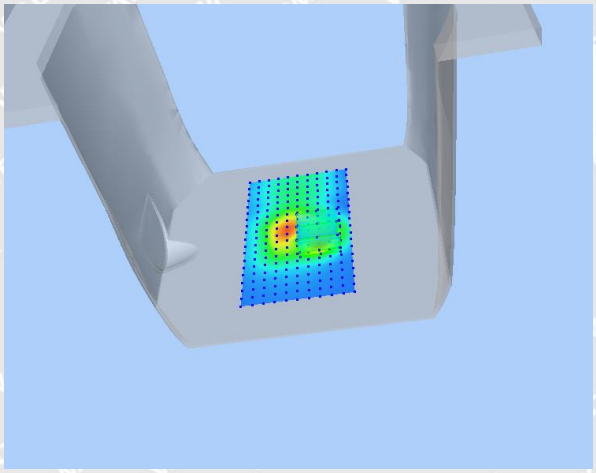
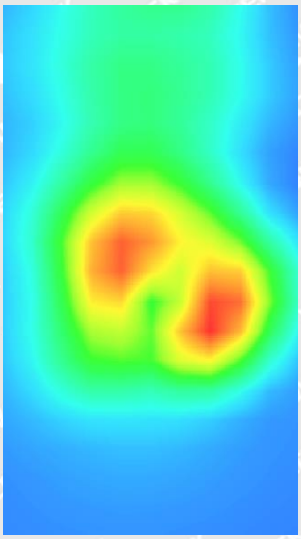
Maximum location: X=17.00, Y=-13.00

SAR Peak: 2.53 W/kg

SAR 10g (W/Kg)	0.495059
SAR 1g (W/Kg)	1.161290

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.5055	1.2686	0.6023	0.2828	0.1432



3D screen shot	Hot spot position
	

MEASUREMENT 30

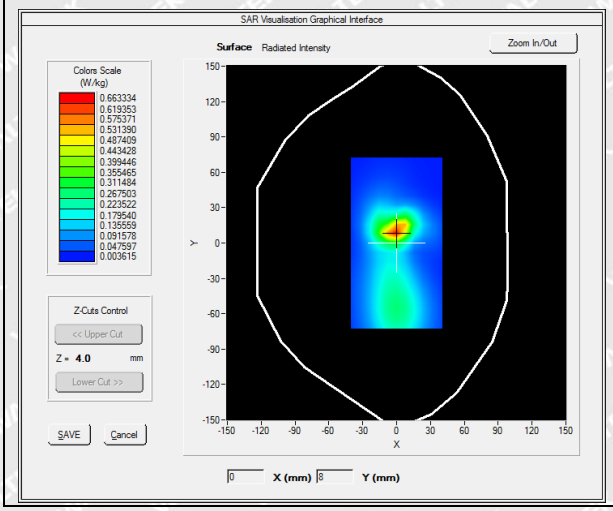
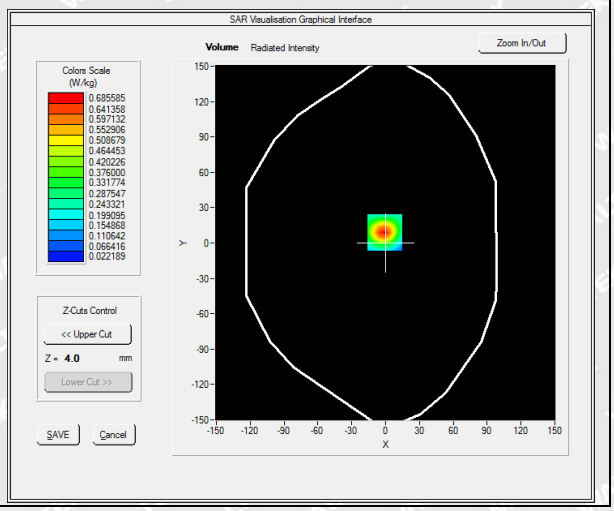
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	WCDMA900_RMC
Channels	Middle
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	897.600000
Relative Permittivity (real part)	40.283741
Conductivity (S/m)	1.014126
Power Variation (%)	-1.124900
Ambient Temperature	22.2
Liquid Temperature	22.2

SURFACE SAR	VOLUME SAR
	

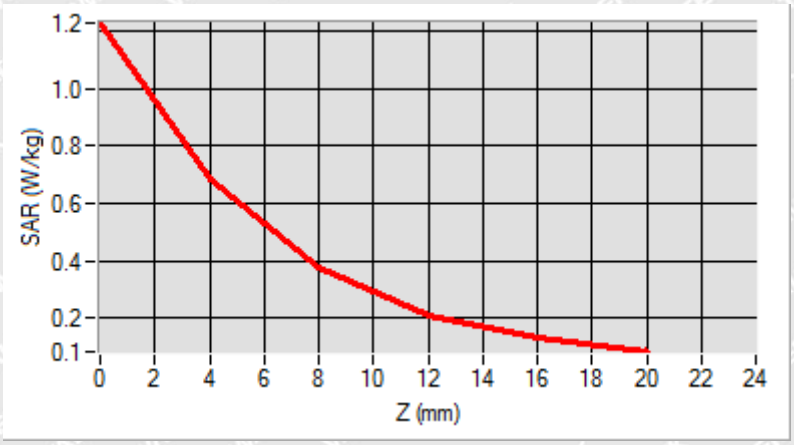
Maximum location: X=-1.00, Y=9.00

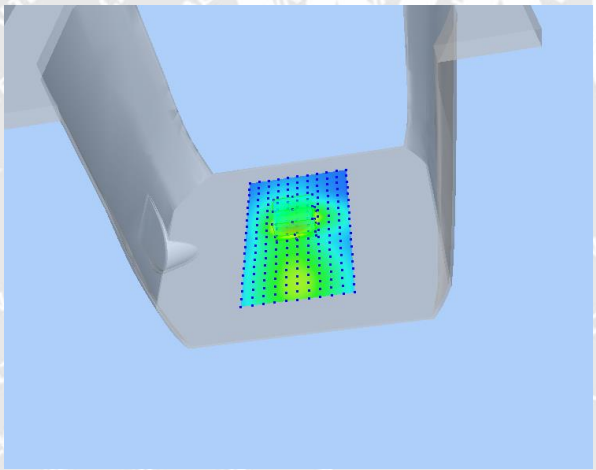
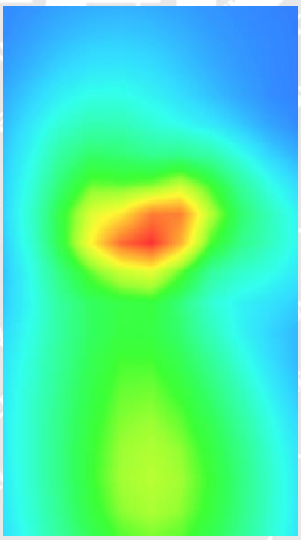
SAR Peak: 1.24 W/kg

SAR 10g (W/Kg)	**0.310389**

SAR 1g (W/Kg)	0.618866

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.2283	0.6856	0.3733	0.2096	0.1292



3D screen shot	Hot spot position
	

MEASUREMENT 31

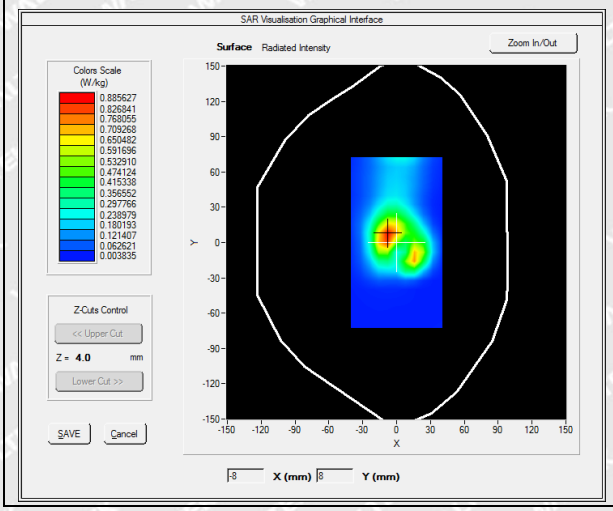
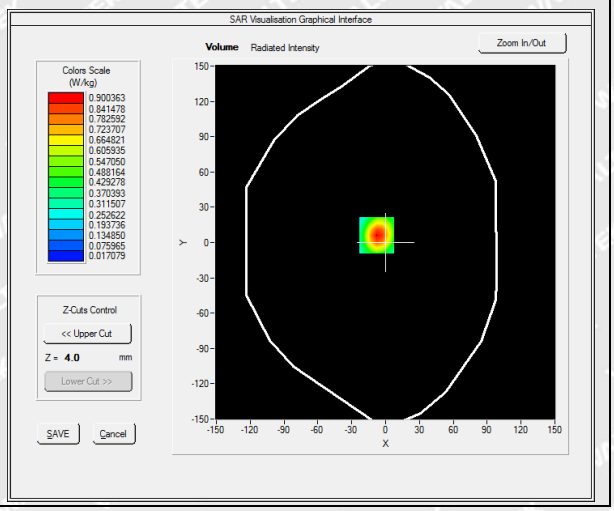
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 1_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1970.000000
Relative Permittivity (real part)	39.482641
Conductivity (S/m)	1.381482
Power Variation (%)	1.425140
Ambient Temperature	22.5
Liquid Temperature	22.5

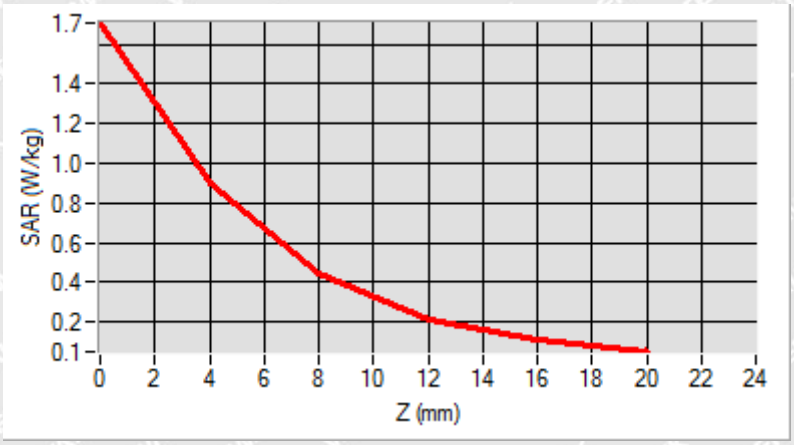
SURFACE SAR	VOLUME SAR
	

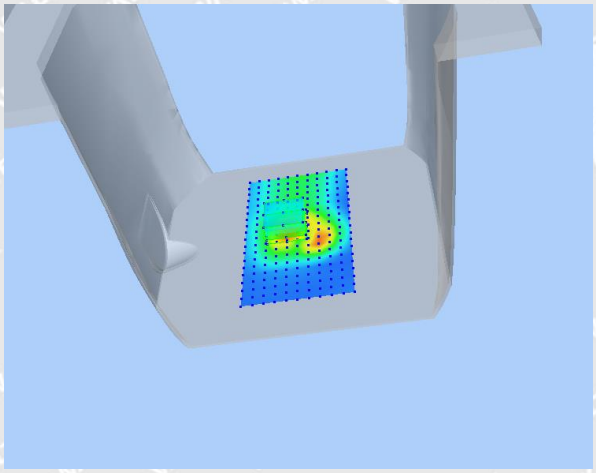
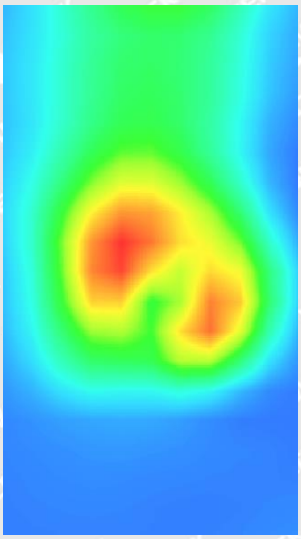
Maximum location: X=-8.00, Y=6.00

SAR Peak: 1.72 W/kg

SAR 10g (W/Kg)	0.351412
SAR 1g (W/Kg)	0.815767

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.7076	0.9004	0.4478	0.2177	0.1090



3D screen shot	Hot spot position
	

MEASUREMENT 32

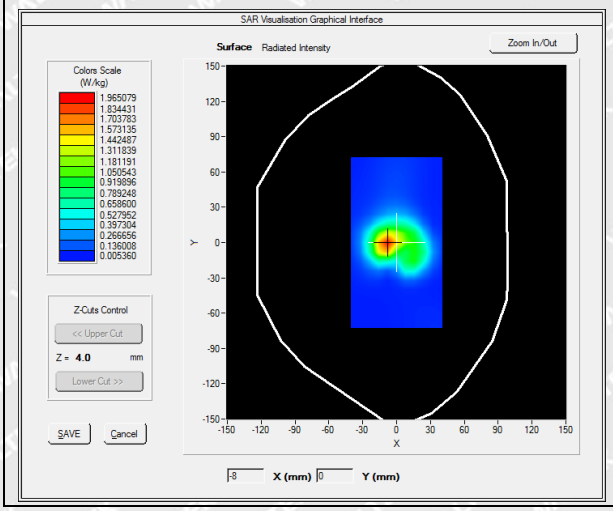
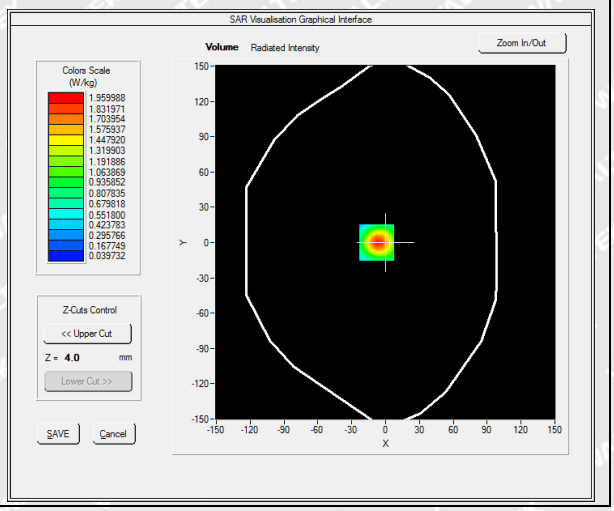
Type: Phone measurement (Complete)
Date of measurement: 2023-06-25
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 3_QPSK, 20MHz
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	1720.000000
Relative Permittivity (real part)	39.361464
Conductivity (S/m)	1.382190
Power Variation (%)	2.521700
Ambient Temperature	22.5
Liquid Temperature	22.5

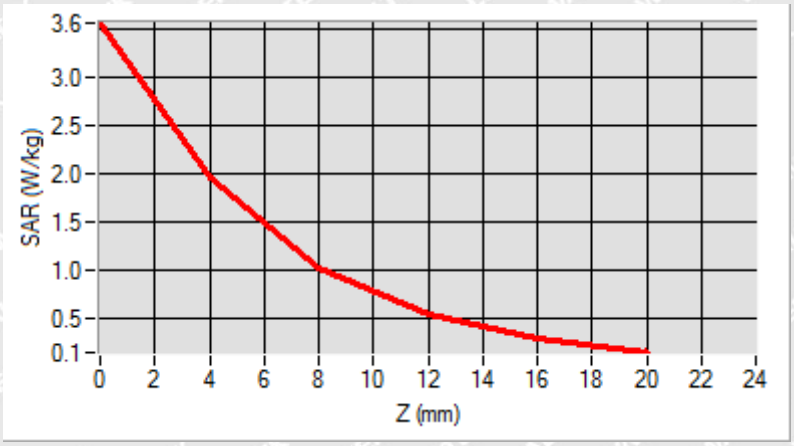
SURFACE SAR	VOLUME SAR
	

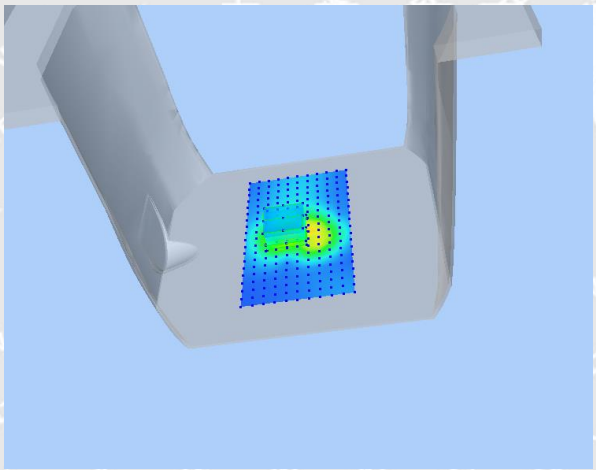
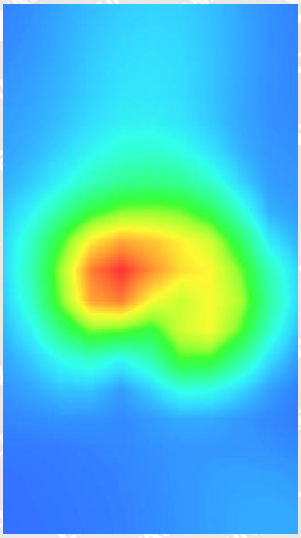
Maximum location: X=-8.00, Y=0.00

SAR Peak: 3.59 W/kg

SAR 10g (W/Kg)	0.822866
SAR 1g (W/Kg)	1.788641

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	3.5700	1.9600	1.0276	0.5320	0.2834



3D screen shot	Hot spot position
	

MEASUREMENT 33

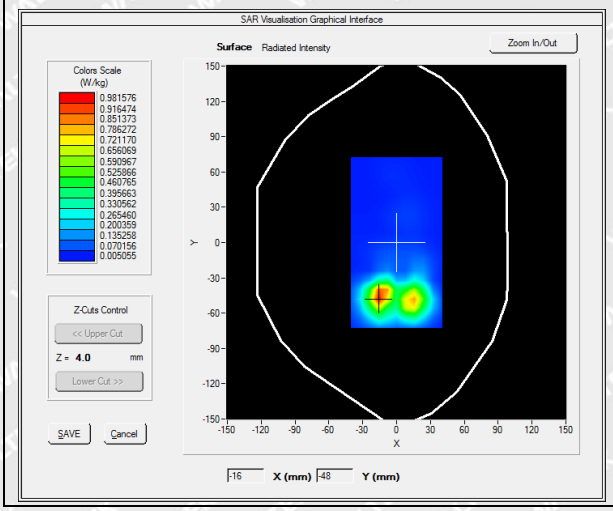
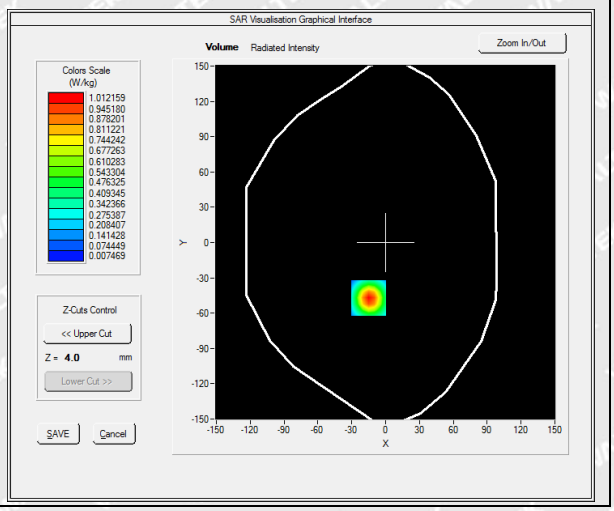
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 7_QPSK, 20MHz
Channels	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2510.000000
Relative Permittivity (real part)	39.442919
Conductivity (S/m)	1.941452
Power Variation (%)	2.447400
Ambient Temperature	22.2
Liquid Temperature	22.2

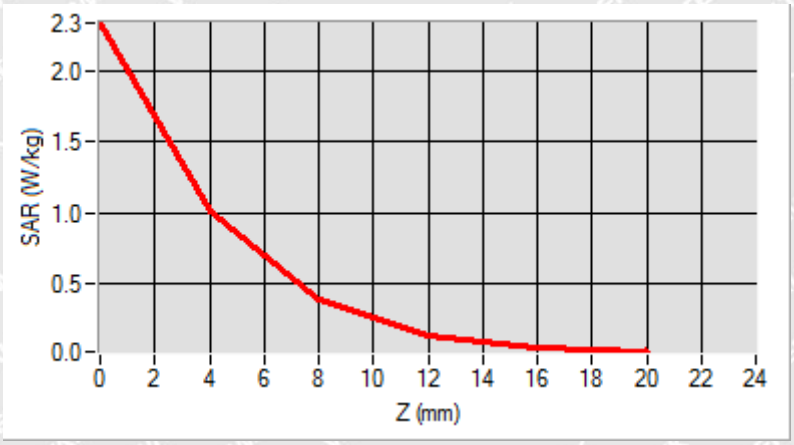
SURFACE SAR	VOLUME SAR
	

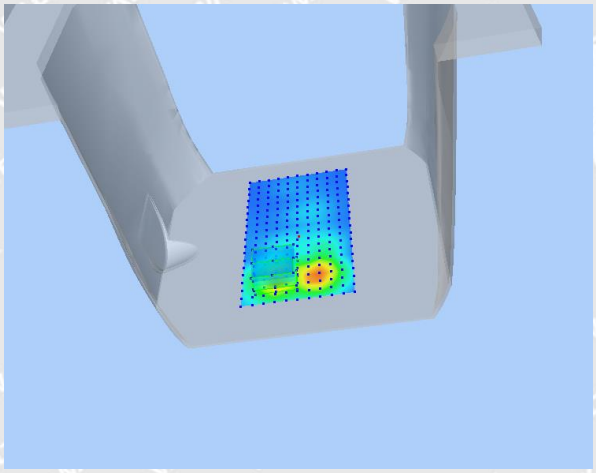
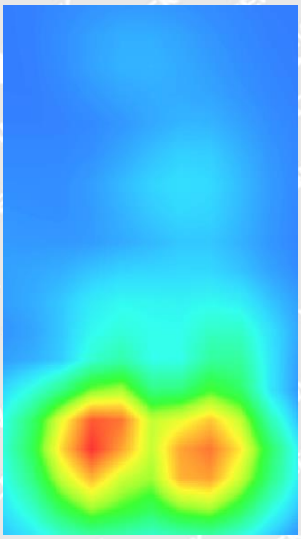
Maximum location: X=-15.00, Y=-47.00

SAR Peak: 2.33 W/kg

SAR 10g (W/Kg)	0.372755
SAR 1g (W/Kg)	0.940365

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	2.3309	1.0122	0.3834	0.1344	0.0526



3D screen shot	Hot spot position
	

MEASUREMENT 34

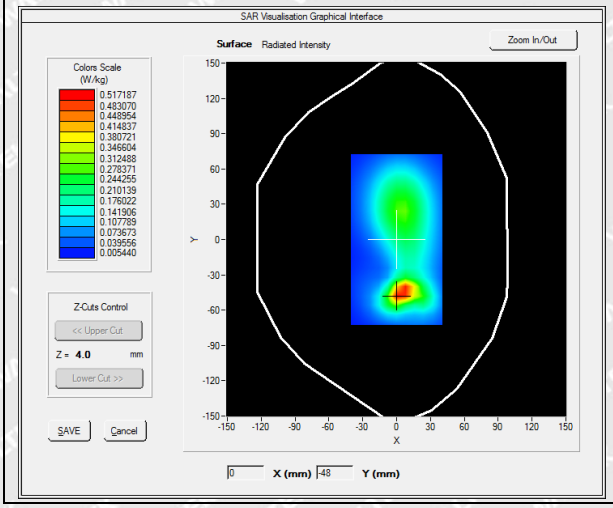
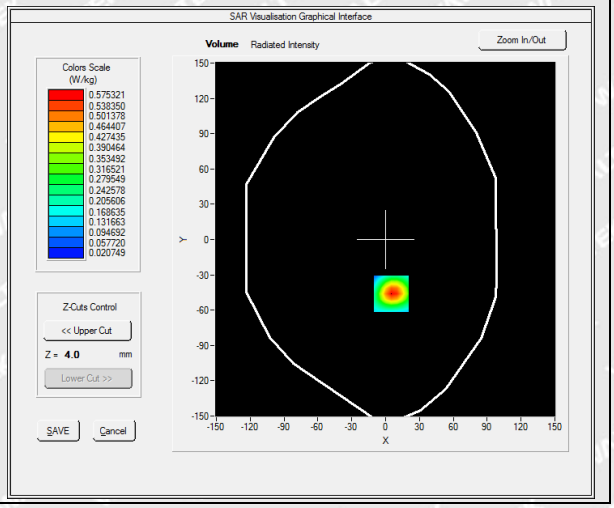
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

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

B. SAR Measurement Results

Frequency (MHz)	885.000000
Relative Permittivity (real part)	41.373914
Conductivity (S/m)	0.892861
Power Variation (%)	2.467300
Ambient Temperature	22.2
Liquid Temperature	22.2

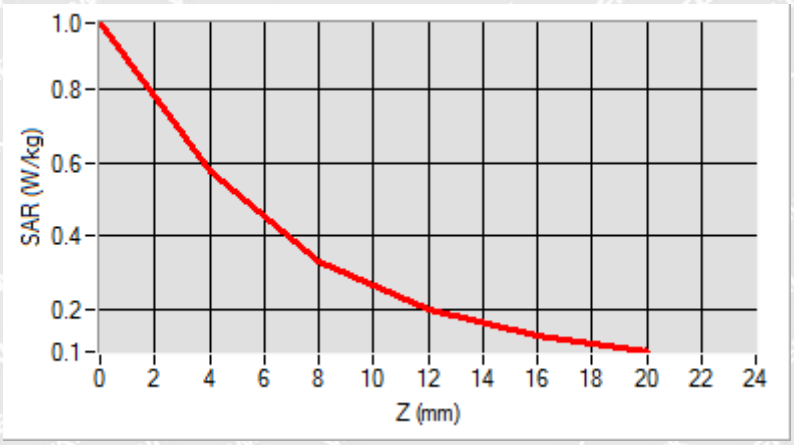
SURFACE SAR	VOLUME SAR
	

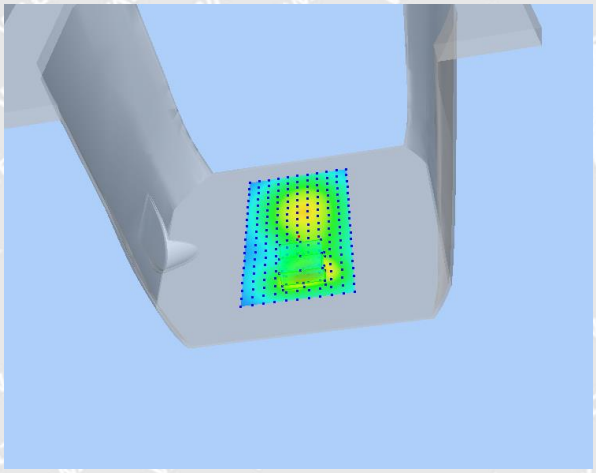
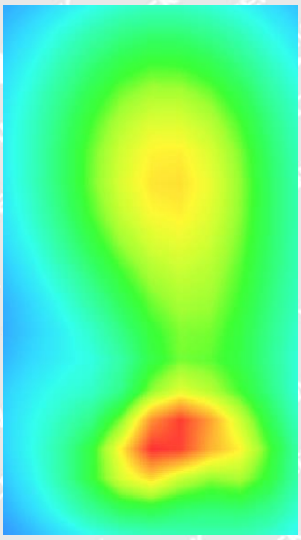
Maximum location: X=5.00, Y=-46.00

SAR Peak: 1.00 W/kg

SAR 10g (W/Kg)	0.253574
SAR 1g (W/Kg)	0.523431

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9842	0.5753	0.3308	0.1958	0.1248



3D screen shot	Hot spot position
	

MEASUREMENT 35

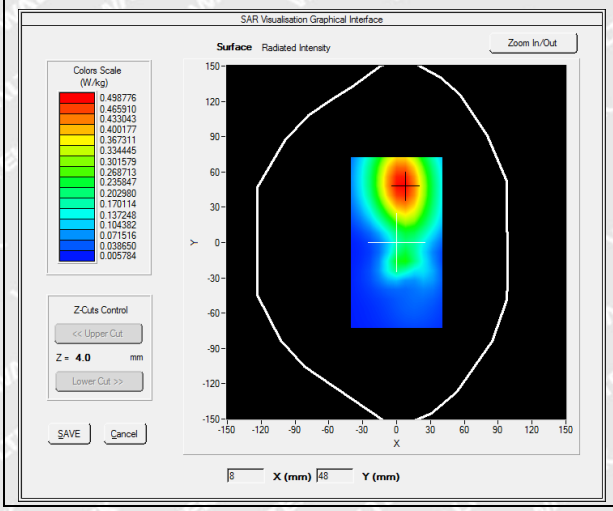
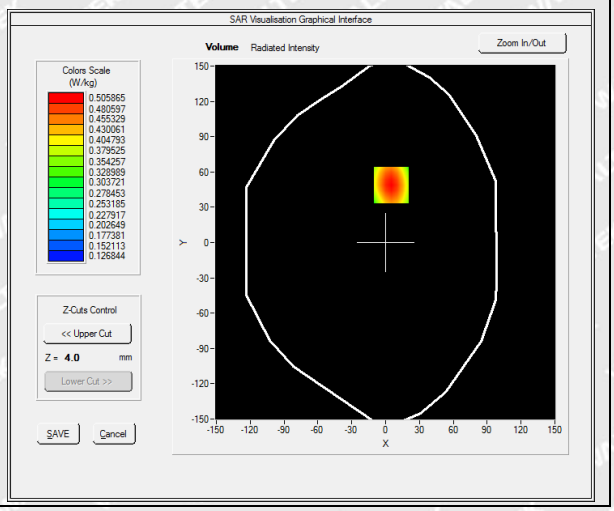
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 20_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	852.000000
Relative Permittivity (real part)	41.372381
Conductivity (S/m)	0.892914
Power Variation (%)	1.328500
Ambient Temperature	22.2
Liquid Temperature	22.2

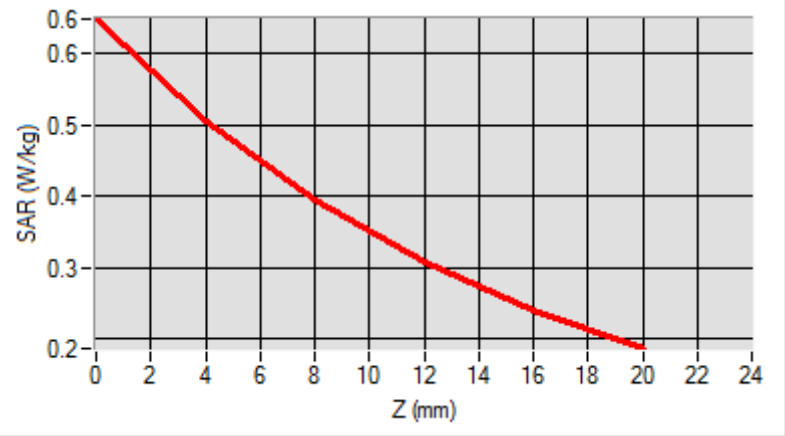
SURFACE SAR	VOLUME SAR
	

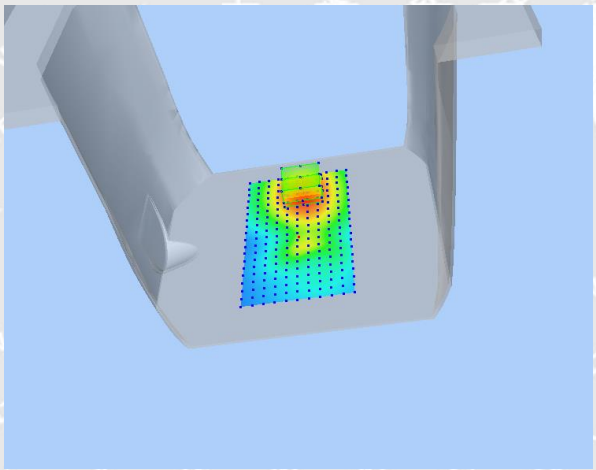
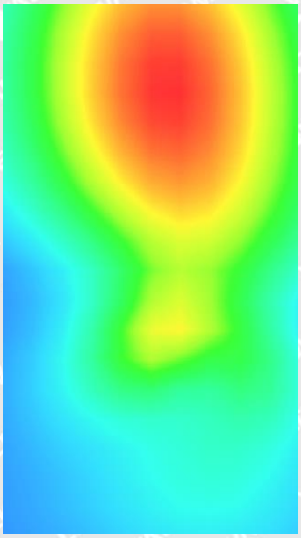
Maximum location: X=5.00, Y=49.00

SAR Peak: 0.65 W/kg

SAR 10g (W/Kg)	0.335311
SAR 1g (W/Kg)	0.480975

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6479	0.5059	0.3942	0.3082	0.2415



3D screen shot	Hot spot position
	

MEASUREMENT 36

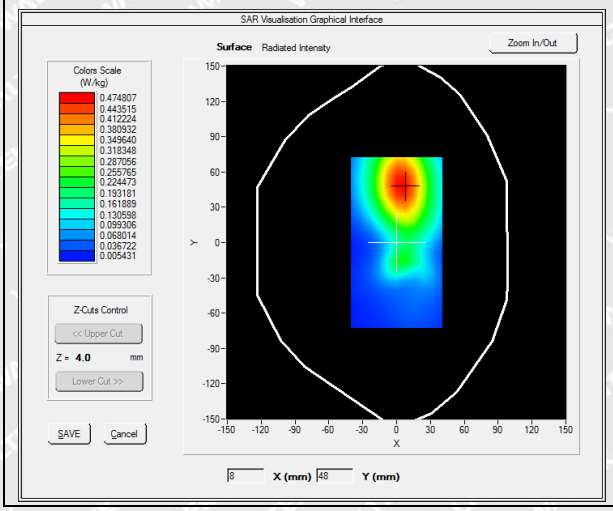
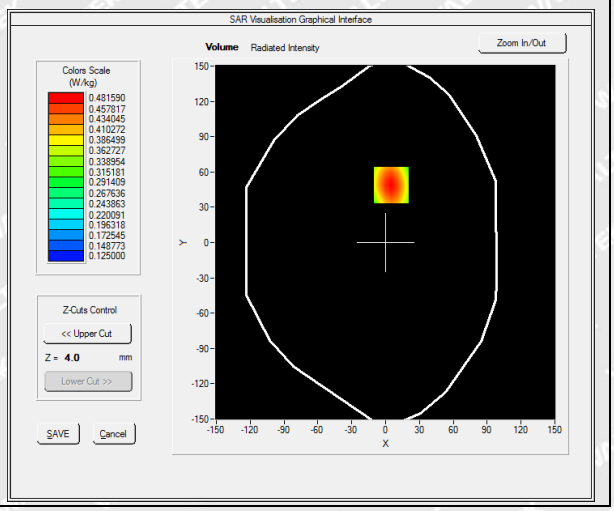
Type: Phone measurement (Complete)
Date of measurement: 2023-06-23
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	FDD-LTE Band 28_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	738.000000
Relative Permittivity (real part)	41.462381
Conductivity (S/m)	0.872579
Power Variation (%)	2.548900
Ambient Temperature	22.2
Liquid Temperature	22.2

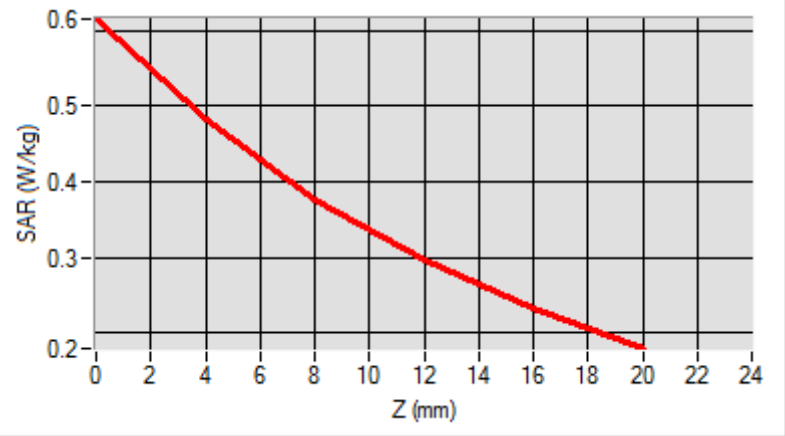
SURFACE SAR	VOLUME SAR
	

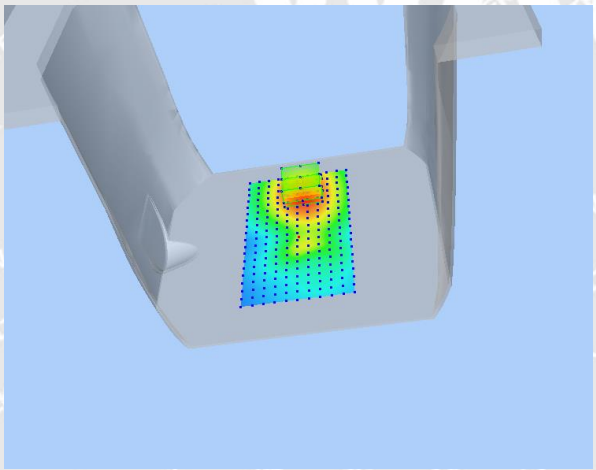
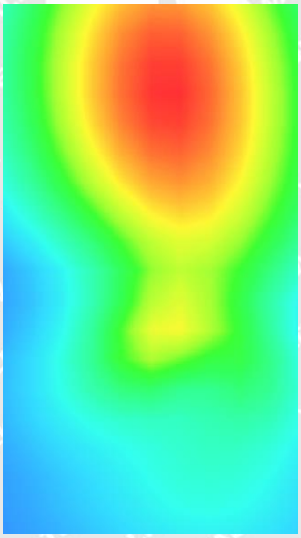
Maximum location: X=5.00, Y=49.00

SAR Peak: 0.61 W/kg

SAR 10g (W/Kg)	0.305575
SAR 1g (W/Kg)	0.457891

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.6147	0.4816	0.3765	0.2952	0.2319



3D screen shot	Hot spot position
	

MEASUREMENT 37

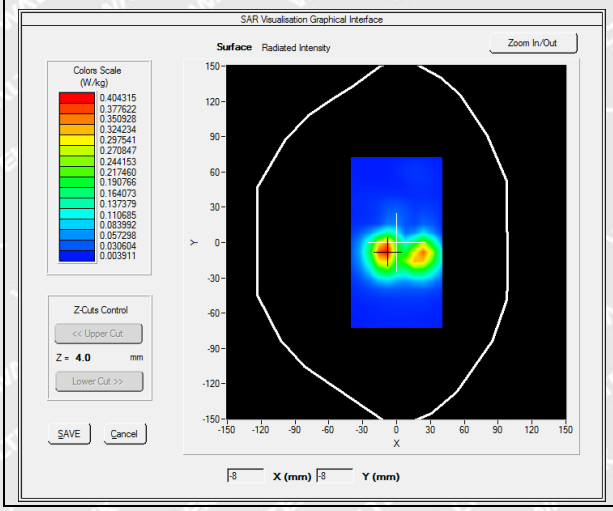
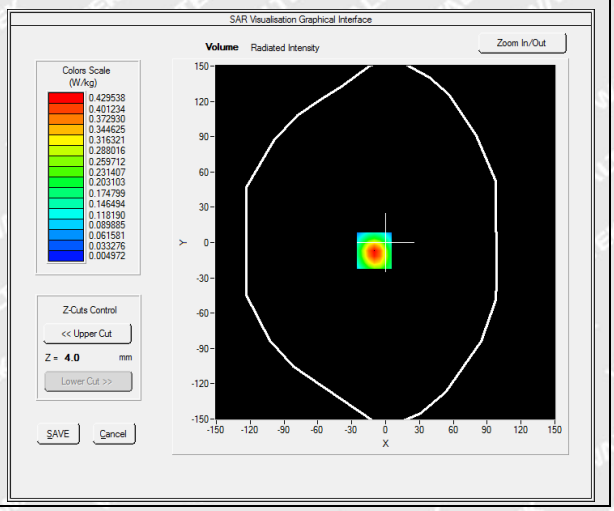
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	TDD-LTE Band 38_QPSK, 20MHz
Channels	High
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	2610.000000
Relative Permittivity (real part)	39.442643
Conductivity (S/m)	1.944365
Power Variation (%)	1.392400
Ambient Temperature	22.2
Liquid Temperature	22.2

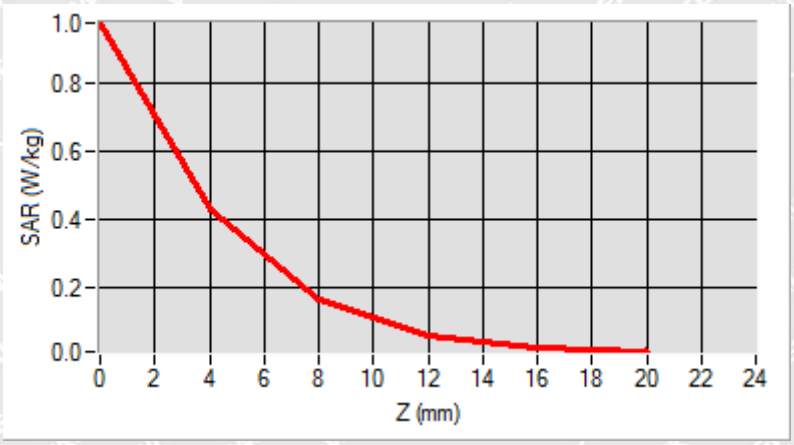
SURFACE SAR	VOLUME SAR
	

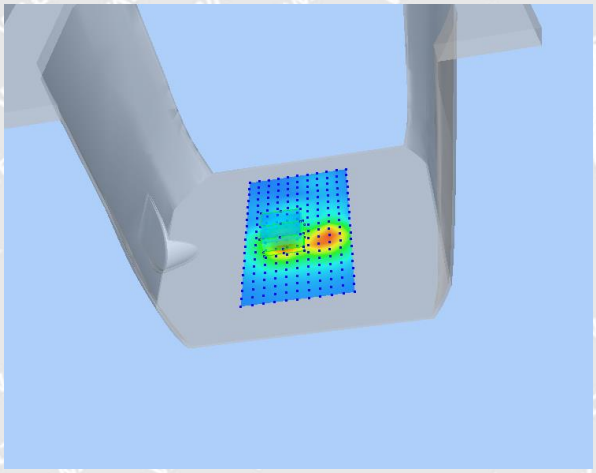
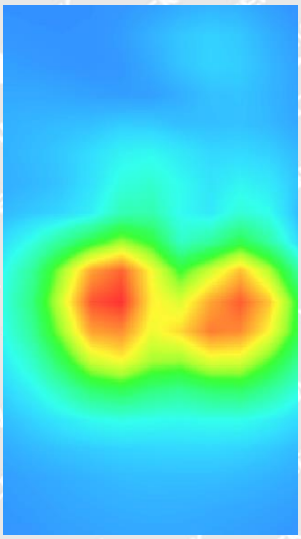
Maximum location: X=-10.00, Y=-7.00

SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)	0.168312
SAR 1g (W/Kg)	0.414746

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.9793	0.4295	0.1653	0.0593	0.0236



3D screen shot	Hot spot position
	

MEASUREMENT 38

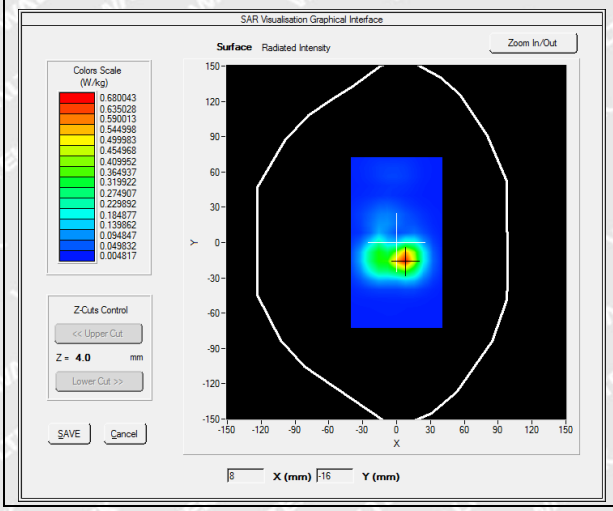
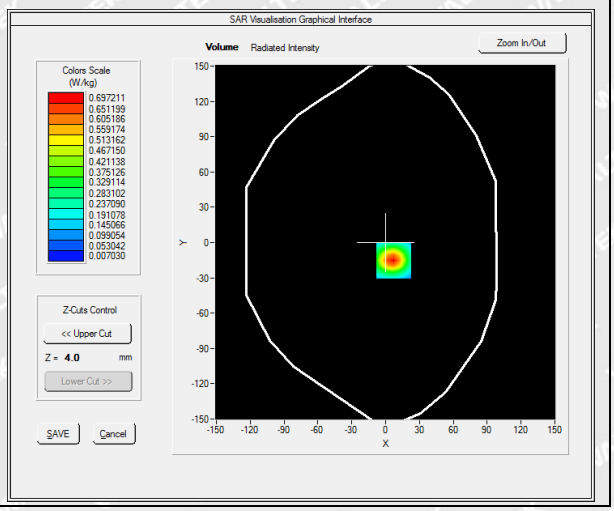
Type: Phone measurement (Complete)
Date of measurement: 2023-06-27
Measurement duration: 12 minutes 3 seconds

A. Experimental conditions

Area Scan	dx=8mm dy=8mm
Zoom Scan	dx=5mm dy=5mm dz=4mm
Phantom	Flat Plane
Device Position	Back
Band	TDD-LTE Band 40_QPSK, 20MHz
Channels	Low
Signal	Duty Cycle: 1:1.58

B. SAR Measurement Results

Frequency (MHz)	2310.000000
Relative Permittivity (real part)	39.163941
Conductivity (S/m)	1.684765
Power Variation (%)	-2.611700
Ambient Temperature	22.4
Liquid Temperature	22.4

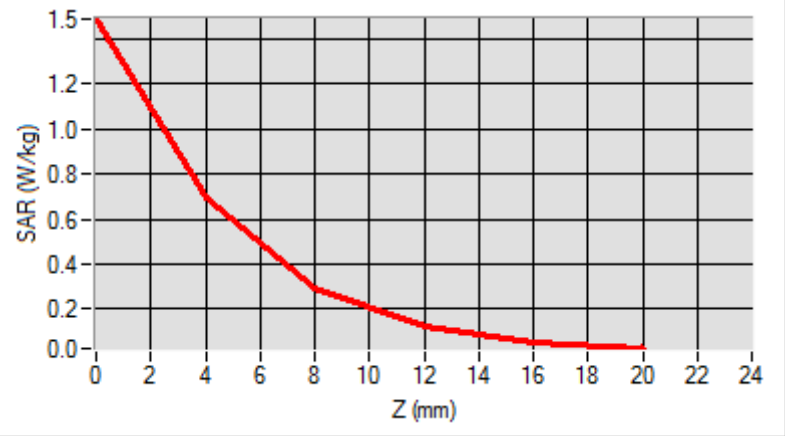
SURFACE SAR	VOLUME SAR
	

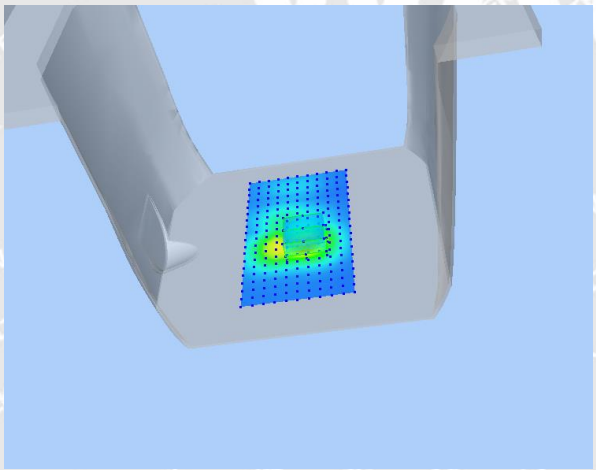
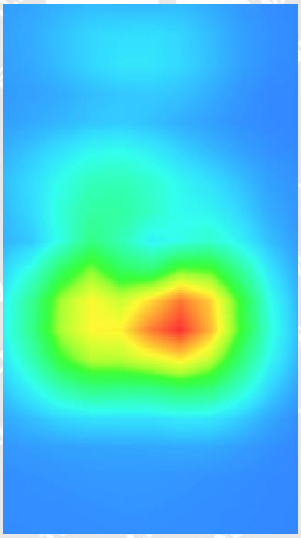
Maximum location: X=7.00, Y=-15.00

SAR Peak: 1.49 W/kg

SAR 10g (W/Kg)	0.269608
SAR 1g (W/Kg)	0.638492

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	1.4889	0.6972	0.2960	0.1206	0.0535



3D screen shot	Hot spot position
	

MEASUREMENT 39

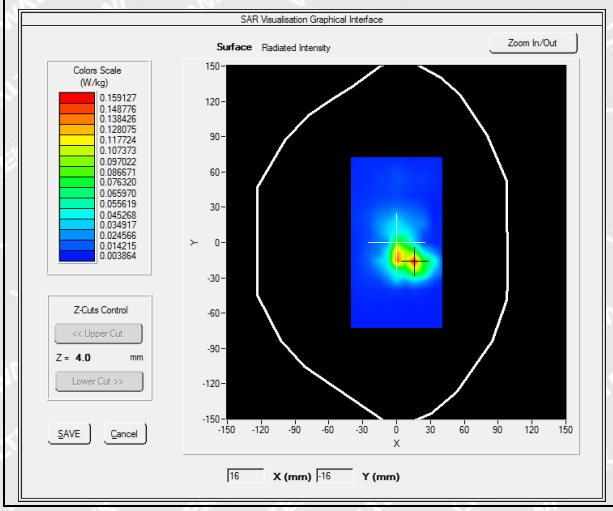
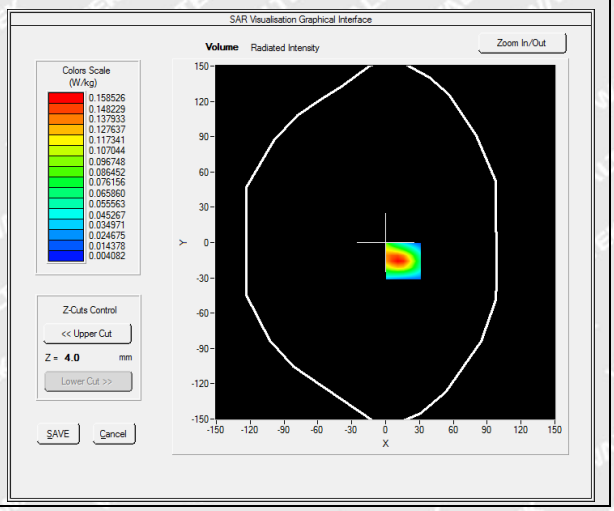
Type: Phone measurement (Complete)
Date of measurement: 2023-06-28
Measurement duration: 12 minutes 3 seconds

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	Low
Signal	Duty Cycle: 1:1

B. SAR Measurement Results

Frequency (MHz)	2412.000000
Relative Permittivity (real part)	38.571558
Conductivity (S/m)	1.783765
Power Variation (%)	2.561400
Ambient Temperature	22.4
Liquid Temperature	22.4

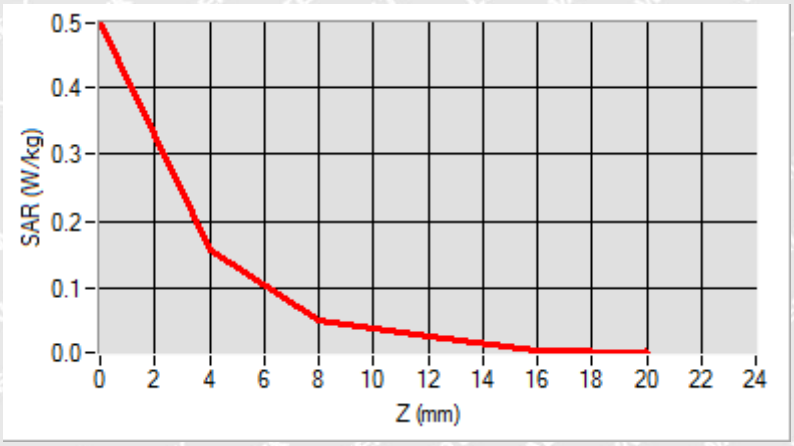
SURFACE SAR	VOLUME SAR
	

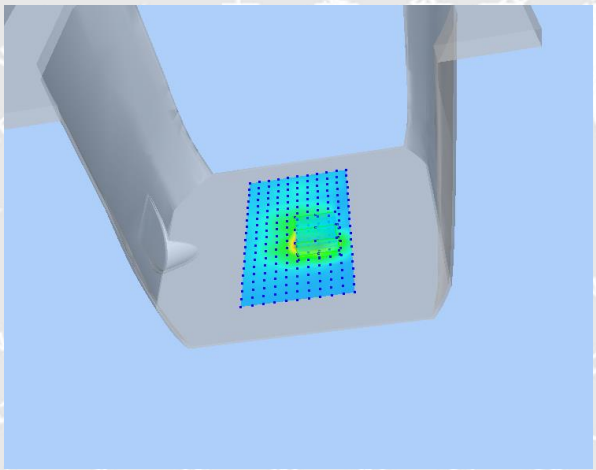
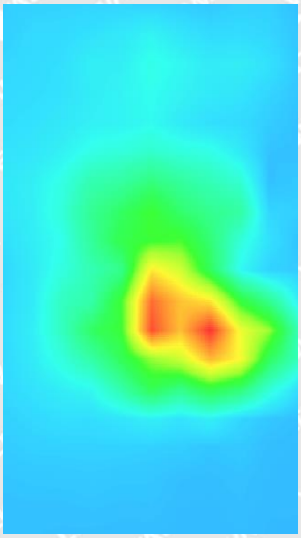
Maximum location: X=16.00, Y=-16.00

SAR Peak: 0.33 W/kg

SAR 10g (W/Kg)	0.062911
SAR 1g (W/Kg)	0.147843

Z (mm)	0.00	4.00	8.00	12.00	16.00
SAR (W/Kg)	0.4943	0.1585	0.0547	0.0295	0.0105



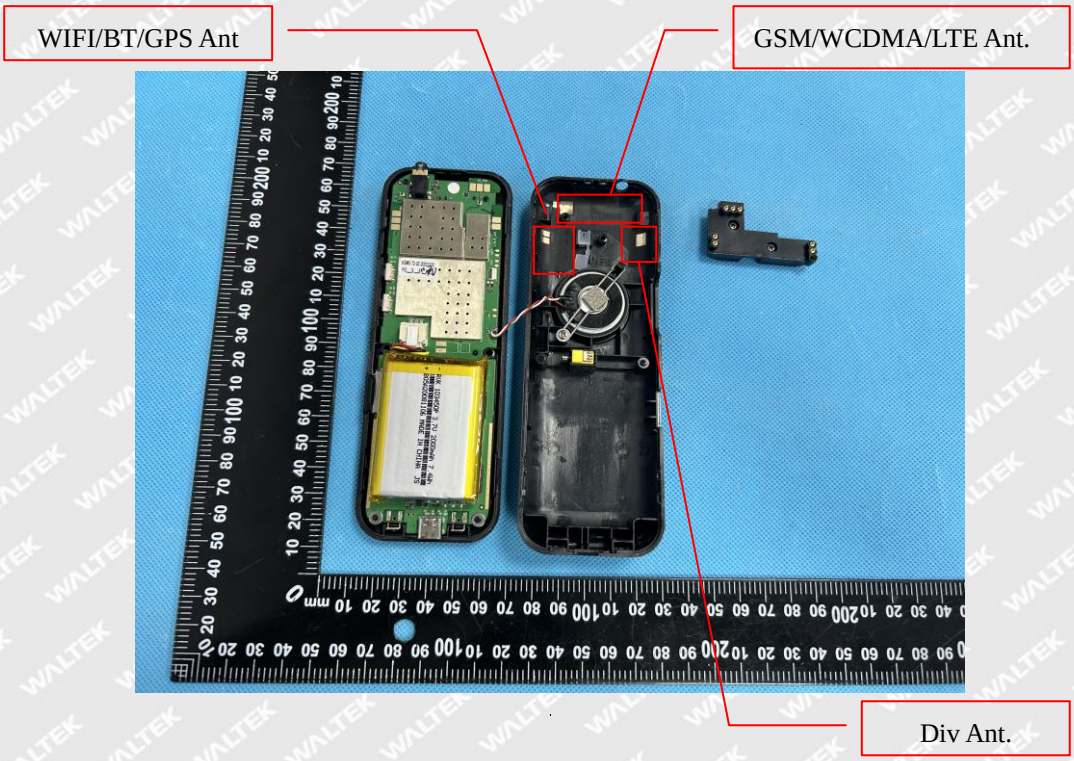
3D screen shot	Hot spot position
	

Annex C. EUT Photos

EUT View 1

EUT View 2

Antenna View



Annex D. Test Setup Photos

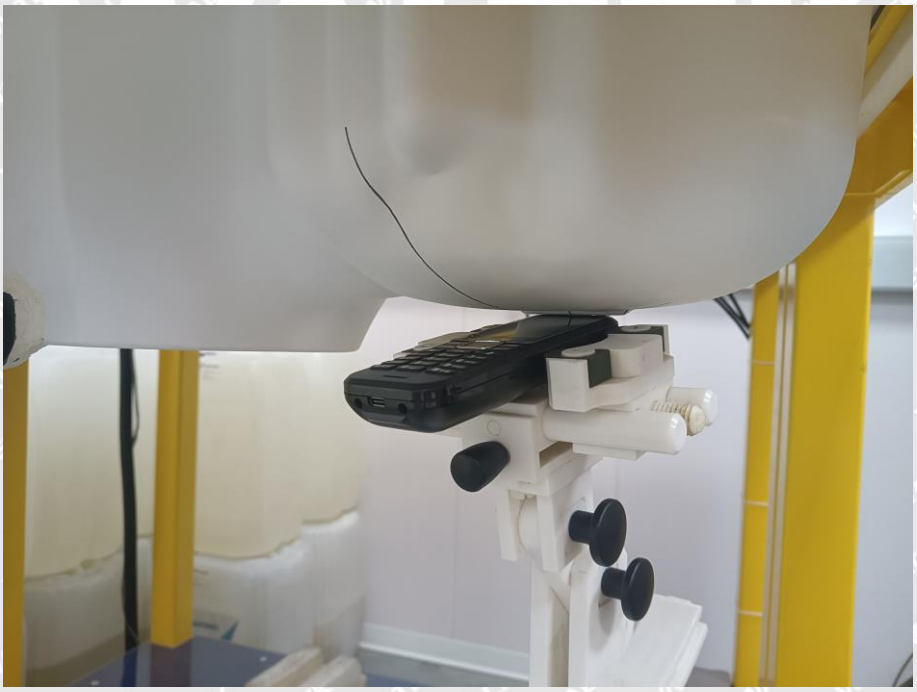
Head Exposure Conditions

Right Cheek

Tilt

Left Cheek

Tilt



Body mode Exposure Conditions
Test distance: 5mm

Body Front

Body Back

Body Left

Body Right

Body Top

Limb mode Exposure Conditions
Test distance: 0mm

Front

Back

Left

Right

Top

Annex E. Calibration Certificate

Please refer to the Exhibit for the Calibration Certificate

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