

SAR TEST REPORT

FCC ID..... :	2AQRM-A1	
Test Report No..... :	TCT241128E026	
Date of issue..... :	Dec. 31, 2024	
Testing laboratory	SHENZHEN TONGCE TESTING LAB	
Testing location/ address:	2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China	
Applicant's name..... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
Manufacturer's name ... :	FOXX Development Inc.	
Address..... :	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA	
Product Name..... :	Smart Phone	
Trade Mark	MIRO, FOXXD, FOXX	
Model/Type reference..... :	A1	
SAR Max. Values.....:	0.72 W/Kg (1g) for head; 1.07W/Kg (1g) for Body-worn; 0.99 W/Kg (1g) for Hotspot	
Simultaneous Reported SAR.....:	0.93 W/Kg (1g) for head; 1.35W/Kg (1g) for Body-worn; 1.21 W/Kg (1g) for Hotspot	
Date of receipt of test item	Nov. 28, 2024	
Date (s) of performance of test..... :	Nov. 28, 2024 - Dec. 31, 2024	
Tested by (+signature) ... :	Karl WANG	
Check by (+signature)..... :	Beryl Zhao	
Approved by (+signature):	Tomsin	

General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

TABLE OF CONTENTS

1. General Product Information	4
1.1. EUT description	4
1.2. Model(s) list	4
2. Test standard	5
3. Facilities and Accreditations	5
3.1. Facilities	5
3.2. Location	5
3.3. Environment Condition:	5
4. Test Result Summary	6
5. RF Exposure Limit	8
6. SAR Measurement System Configuration	9
6.1. SAR Measurement Set-up	9
6.2. E-field Probe	10
6.3. Phantom	10
6.4. Device Holder	11
6.5. Data Storage and Evaluation	12
6.6. Position of the wireless device in relation to the phantom	13
6.7. Tissue Dielectric Parameters	16
6.8. Tissue-equivalent Liquid Properties	17
6.9. System Check	18
7. Measurement Procedure	19
8. Conducted Output Power	22
9. Exposure Position Consideration	50
9.1. EUT Antenna Location	50
9.2. Test Position Consideration	50
10. SAR Test Results Summary	51
10.1. Head 1g SAR Data	51
10.2. Body-Worn 1g SAR Data	55
10.3. Hotspot 1g SAR Data	58
10.4. Simultaneous Transmission Conclusion	62
10.5. SAR Simultaneous Transmission Analysis	63
10.6. Measurement Uncertainty (150MHz-6GHz)	73
10.7. Test Equipment List	75
11. System Check Results	76

12. SAR Test Data	88
Appendix A: EUT Photos	198
Appendix B: Test Setup Photos	201
Appendix C: Probe Calibration Certificate.....	204
Appendix D: Dipole Calibration Report.....	222
Appendix E: SAR SYSTEM VALIDATION	288

1. General Product Information

1.1. EUT description

Product Name.....:	Smart Phone
Model/Type reference.....:	A1
SampleNumber.....:	TCT241128E026-0101/01
Rating(s).....:	Rechargeable Li-ion Battery DC 3.8V
2G	
Operation Band.....:	GSM850, GSM1900
Supported type.....:	GSM/GPRS/EGPRS
Power Class.....:	GSM850:Power Class 4; GSM1900:Power Class 1
Modulation Type.....:	GMSK for GSM/GPRS ; 8PSK for EGPRS
GSM Release Version.....:	R99
GPRS Multislot Class.....:	12
EGPRS Multislot Class.....:	12
3G	
Operation Band.....:	FDD Band II & FDD Band IV & FDD Band V
Power Class.....:	Power Class 3
Modulation Type.....:	QPSK for WCDMA/HSDPA/HSUPA
WCDMA Release Version.....:	r9
HSDPA Release Version.....:	Release 5
HSUPA Release Version.....:	Release 6
DC-HSUPA Release Version.....:	Yes
LTE	
Operation Band.....:	LTE Band 2 & LTE Band 4 & LTE Band 5 & LTE Band 7 & LTE Band 12 & LTE Band 13 & LTE Band 17 & LTE Band 25 & LTE Band 41 & LTE Band 66 & LTE Band 71
Power Class.....:	Power Class 3
Modulation Type.....:	QPSK & 16-QAM for LTE
Wi-Fi 2.4G	
Supported type.....:	802.11b/802.11g/802.11n
Modulation Type.....:	802.11b: DSSS 802.11g/802.11n: OFDM
Operation Frequency.....:	802.11b/802.11g/802.11n(HT20):2412MHz~2462MHz
Channel number.....:	802.11b/802.11g/802.11n(HT20):11
Channel separation.....:	5MHz
Bluetooth	
Bluetooth Version.....:	Supported 5.0
Modulation.....:	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8-DPSK(3Mbps)
Operation Frequency.....:	2402MHz~2480MHz
Channel number.....:	79/40
Channel separation.....:	1MHz/2MHz

1.2. Model(s) list

None.

2. Test standard

The tests were performed according to following standards:

FCC 47 CFR §2.1093

IEEE1528-2013:Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques

KDB447498 D01:General RF Exposure Guidance v06

KDB865664 D01:SAR measurement 100MHz to 6GHz v01r04

KDB865664 D02:RF Exposure Reporting v01r02.

KDB941225 D01:3G SAR Procedures v03r01

KDB248227 D01:802.11 wi-fi SAR v02r02

KDB941225 D05:SAR for LTE devices v02r05

KDB941225 D06:Hotspot Mode v02r01

KDB648474 D04 Handset SAR v01r03

KDB690783 D01:SAR Listings on Grant v01r03

3. Facilities and Accreditations

3.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098

SHENZHEN TONGCE TESTING LAB

Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A

SHENZHEN TONGCE TESTING LAB

CAB identifier: CN0031

The testing lab has been registered by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

3.3. Environment Condition:

Temperature:	18°C ~25°C
Humidity:	35%~75% RH
Atmospheric Pressure:	1011 mbar

4. Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows:
<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Head 1-g SAR	GSM 850	0.55	PCE	0.72
	GSM 1900	0.26		
	WCDMA Band II	0.15		
	WCDMA Band IV	0.29		
	WCDMA Band V	0.40		
	LTE Band 2	0.66		
	LTE Band 4	0.66		
	LTE Band 5	0.64		
	LTE Band 7	0.71		
	LTE Band 12	0.44		
	LTE Band 13	0.27		
	LTE Band 17	0.26		
	LTE Band 25	0.56		
	LTE Band 41	0.31		
	LTE Band 66	0.72		
	LTE Band 71	0.23		
	WLAN 2.4 GHz	0.21	DTS	
	BT	0.08	DSS	
Body-worn 1-g SAR (10 mm Gap)	GSM 850	0.58	PCE	1.07
	GSM 1900	0.65		
	WCDMA Band II	1.05		
	WCDMA Band IV	0.83		
	WCDMA Band V	0.36		
	LTE Band 2	0.98		
	LTE Band 4	0.89		
	LTE Band 5	0.46		
	LTE Band 7	1.01		
	LTE Band 12	0.38		
	LTE Band 13	0.28		
	LTE Band 17	0.33		
	LTE Band 25	0.95		
	LTE Band 41	0.47		
	LTE Band 66	1.07		
	LTE Band 71	0.40		
	WLAN 2.4 GHz	0.28	DTS	
	BT	0.02	DSS	

Hotspot 1-g SAR (10 mm Gap)	GSM 850	0.48	PCE	0.99
	GSM 1900	0.53		
	WCDMA Band II	0.98		
	WCDMA Band IV	0.44		
	WCDMA Band V	0.34		
	LTE Band 2	0.74		
	LTE Band 4	0.63		
	LTE Band 5	0.38		
	LTE Band 7	0.63		
	LTE Band 12	0.34		
	LTE Band 13	0.25		
	LTE Band 17	0.30		
	LTE Band 25	0.51		
	LTE Band 41	0.34		
	LTE Band 66	0.99		
	LTE Band 71	0.32		
	WLAN 2.4 GHz	0.22	DTS	

<Highest Reported simultaneous SAR Summary>

Exposure Position	Frequency Band	Highest Reported Simultaneous Transmission SAR (W/kg)
Head 1-g SAR	LTE Band 66 + WIFI 2.4G	0.93
Body 1-g SAR (10 mm Gap)	LTE Band 66 + WIFI 2.4G	1.35
Hotspot 1-g SAR (10 mm Gap)	LTE Band 66 + WIFI 2.4G	1.21

Note:

1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r03, and scalar SAR summation of all possible simultaneous transmission scenarios are < 1.6W/kg.
2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.
3. This EUT owns four cards, after we perform the pretest for these two SIM card; we found the SIM 1 is the worst case, so its result is recorded in this report.

5. RF Exposure Limit

Type Exposure	SAR (W/kg)
	Uncontrolled Exposure Limit
Spatial Peak SAR (averaged over any 1 g of tissue)	1.60
Spatial Peak SAR (hands/wrists/feet/ankles averaged over 10g)	4.00
Spatial Peak SAR (averaged over the whole body)	0.08

Note:

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

6. SAR Measurement System Configuration

6.1. SAR Measurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System (VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch; it sends an “Emergency signal” to the robot controller that to stop robot’s moves A computer operating Windows XP.

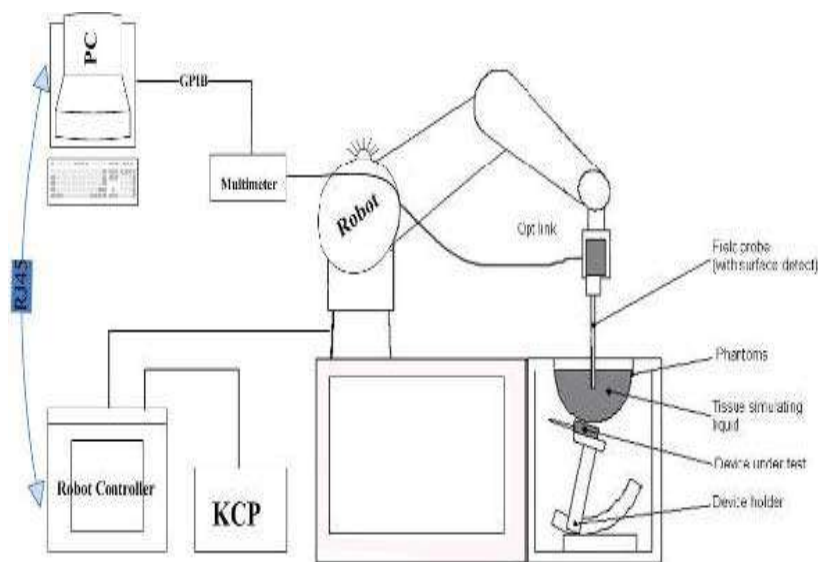
OPENSAR software Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes.

System validation dipoles to validate the proper functioning of the system.



KUKA SAR Test Sysstem Configuration

6.2. E-field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by MVG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

Probe Specification

Construction Symmetrical design with triangular core
Interleaved sensors
Built-in shielding against static charges
PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration ISO/IEC 17025 calibration service available.

Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	SN 25/22 EPGO375
Frequency Range of Probe	0.15 GHz- 6GHz
Resistance of Three Dipoles at Connector	Dipole 1:R1=0.197MΩ Dipole 2:R3=0.230MΩ Dipole 3:R3=0.208MΩ

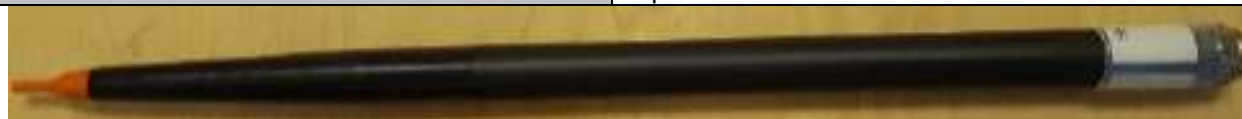


Photo of E-Field Probe

6.3. Phantom

The SAM Phantom SAM120 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and IEEE1528-2013.

The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region.

A cover prevents the evaporation of the liquid.

Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections.

Body SAR testing also used the flat section between the head profiles.

Name: COMOSAR IEEE SAM PHANTOM
S/N: SN 19/15 SAM 120
Manufacture: MVG



SAM Twin Phantom

6.4. Device Holder

In combination with the Generic Twin Phantom SAM120, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC and CENELEC specifications.

The device holder can be locked at different phantom locations (left head, right head, flat phantom).

COMOSAR Mobile
phone positioning
system

6.5. Data Storage and Evaluation

Data Storage

The OPENSAR software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The OPENSAR software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters:	- Sensitivity	Normi, ai0, ai1, ai2
	- Conversion factor	ConvFi
	- Diode compression point	Dcpi
Device parameters:	- Frequency	f
	- Crest factor	cf
Media parameters:	- Conductivity	σ
	- Density	ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the OPENSAR components. In the direct measuring mode of the millimeter option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

$$V_i = U_i + U_i^2 \cdot c \cdot f / d \cdot c \cdot p_i$$

With	V_i	= compensated signal of channel i	(i = x, y, z)
	U_i	= input signal of channel i	(i = x, y, z)
	cf	= crest factor of exciting field	(MVG parameter)
	dcpi	= diode compression point	(MVG parameter)

From the compensated input signals the primary field data for each channel can be evaluated:

$$\text{E-field probes: } E_i = (V_i / \text{Normi} \cdot \text{ConvF})^{1/2}$$

$$\text{H-field probes: } H_i = (V_i)^{1/2} \cdot (ai0 + ai1 \cdot f + ai2 \cdot f^2) / f$$

With	V_i	= compensated signal of channel i	(i = x, y, z)
	Normi	= sensor sensitivity of channel i	(i = x, y, z)
		[mV/(V/m)²] for E-field Probes	
	ConvF	= sensitivity enhancement in solution	
	aij	= sensor sensitivity factors for H-field probes	
	f	= carrier frequency [GHz]	
	E_i	= electric field strength of channel i in V/m	
	H_i	= magnetic field strength of channel i in A/m	

The RSS value of the field components gives the total field strength (Hermitian magnitude):

$$E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$$

The primary field data are used to calculate the derived field units.

$$SAR = (E_{tot})^2 \cdot \sigma / (\rho \cdot 1000)$$

with SAR = local specific absorption rate in mW/g
 E_{tot} = total field strength in V/m
 σ = conductivity in [mho/m] or [Siemens/m]
 ρ = equivalent tissue density in g/cm³

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

6.6. Position of the wireless device in relation to the phantom

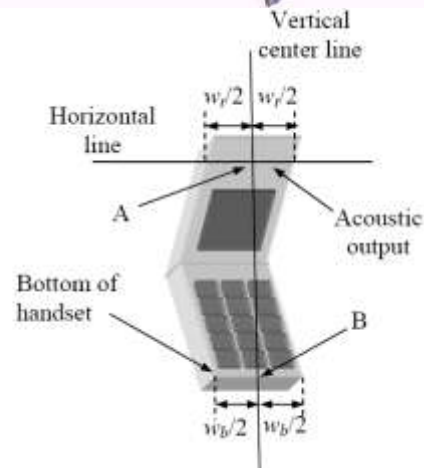
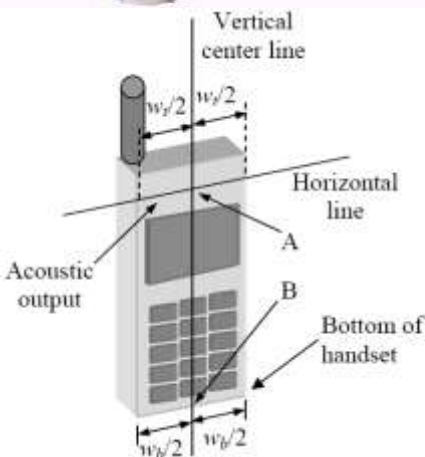
Handset Reference Points

$$P_{pwe} = E_{tot}^2 / 3770 \text{ or } P_{pwe} = H_{tot}^2 \cdot 37.7$$

With P_{pwe} = equivalent power density of a plane wave in mW/cm²

E_{tot} = total electric field strength in V/m

H_{tot} = total magnetic field strength in A/m



W_t Width of the handset at the level of the acoustic
 W_b Width of the bottom of the handset
A Midpoint of the width w_t of the handset at the level of the acoustic output
B Midpoint of the width w_b of the bottom of the handset

Positioning for Cheek / Touch



Positioning for Ear / 15° Tilt



Body Worn Accessory Configurations

To position the device parallel to the phantom surface with either keypad up or down.

To adjust the device parallel to the flat phantom.

To adjust the distance between the device surface and the flat phantom to 15mm or holster surface and the flat phantom to 0 mm.

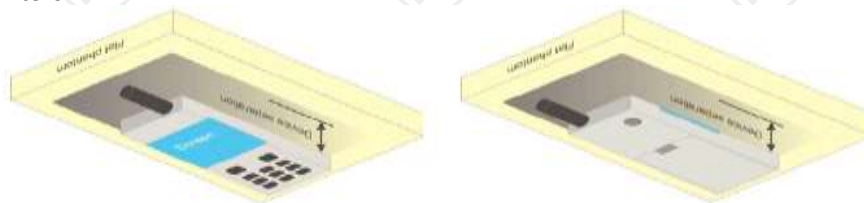


Illustration for Body Worn Position

Wireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥

9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.

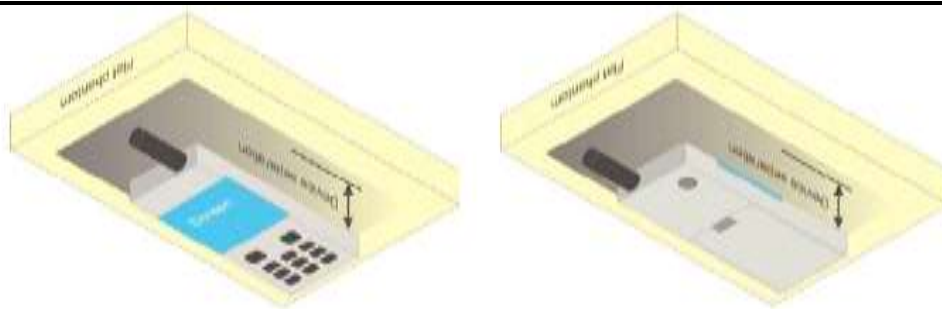
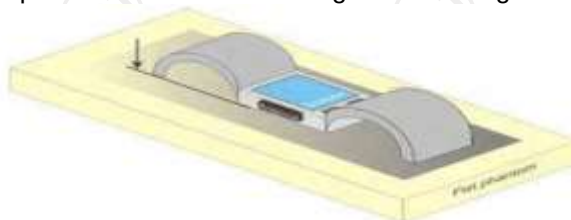


Illustration for Hotspot Position

Limb-worn device

A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device. Therefore, the test positions of 6.1.4.4 also apply. The strap shall be opened so that it is divided into two parts as shown in Figure 9. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom.

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.



Test position for limb-worn devices

6.7. Tissue Dielectric Parameters

The liquid used for the frequency range of 100MHz-6G consisted of water, sugar, salt and Cellulose. The liquid has been previously proven to be suited for worst-case. The following Table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values. The following materials are used for producing the tissue-equivalent materials

Targets for tissue simulating liquid

Frequency (MHz)	Liquid Type	Liquid Type (σ)	$\pm 5\%$ Range	Permittivity (ϵ)	$\pm 5\%$ Range
300	Head	0.87	0.83~0.91	45.3	43.04~47.57
450	Head	0.87	0.83~0.91	43.5	41.33~45.68
835	Head	0.90	0.86~0.95	41.5	39.43~43.58
900	Head	0.97	0.92~1.02	41.5	39.43~43.58
1800-2000	Head	1.40	1.33~1.47	40.0	38.00~42.00
2450	Head	1.80	1.71~1.89	39.2	37.24~41.16
2600	Head	1.96	1.86~2.06	39.0	37.05~40.95
3000	Head	2.40	2.28~2.52	38.5	36.58~40.43
5800	Head	5.27	5.01~5.53	35.3	33.54~37.07

(ϵ_r = relative permittivity, σ = conductivity and $\rho = 1000 \text{ kg/m}^3$)

6.8. Tissue-equivalent Liquid Properties

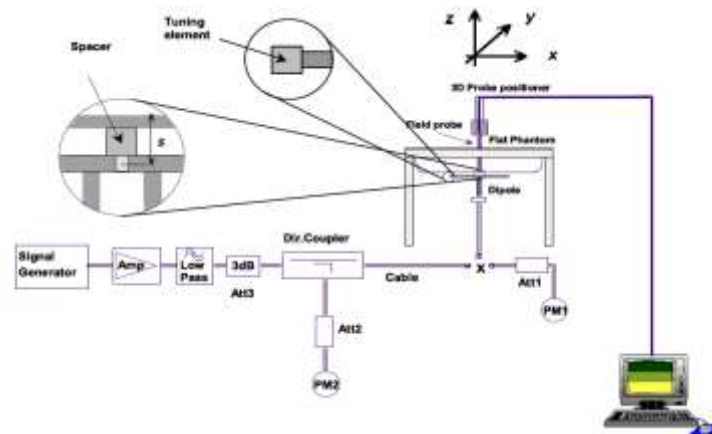
Test Date dd/mm/yy	Temp ℃	Tissue Type	Measured Frequency (MHz)	ϵ_r	σ (s/m)	Dev ϵ_r (%)	Dev σ (%)
12/05/2024	21.8℃	750H	683	42.82	0.89	2.20	0.00
			704	42.58	0.90	1.62	1.12
			709	42.53	0.90	1.50	1.12
			750	42.07	0.90	0.41	1.12
			782	41.71	0.91	-0.45	2.25
12/10/2024	21.8℃	835H	824	41.24	0.91	-0.63	1.11
			829	41.49	0.91	-0.02	1.11
			835	41.12	0.91	-0.92	1.11
			836	41.12	0.91	-0.92	1.11
12/13/2024	21.8℃	1800H	1712	40.43	1.35	1.08	-3.57
			1720	40.42	1.35	1.05	-3.57
			1732	40.41	1.36	1.02	-2.86
			1800	40.36	1.39	0.90	-0.71
12/18/2024	21.8℃	1900H	1852	40.13	1.40	0.33	0.00
			1860	40.10	1.40	0.25	0.00
			1880	40.01	1.41	0.02	0.71
			1900	39.92	1.41	-0.20	0.71
12/23/2024	21.8℃	2450H	2450	39.02	1.79	-0.46	-0.56
			2462	39.00	1.80	-0.51	0.00
			2480	38.97	1.84	-0.59	2.22
12/25/2024	21.8℃	2600H	2510	38.93	1.84	-0.18	-6.12
			2600	38.78	1.90	-0.56	-3.06
			2680	38.70	1.99	-0.77	1.53

6.9. System Check

The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system ($\pm 10\%$).

System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Frequency (MHz)	Liquid Type	Measured Value in 100mW (W/kg)		Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
		1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average
750	Head	0.54	0.88	5.40	8.83	8.31	5.71	-5.37	6.22
835	Head	0.60	0.93	5.96	9.34	9.53	6.12	-2.60	-1.97
1800	Head	2.09	4.10	20.95	41.02	37.67	20.23	3.54	8.90
1900	Head	1.90	3.86	19.03	38.63	39.26	20.49	-7.11	-1.62
2450	Head	2.50	5.01	24.96	50.14	53.26	24.15	3.35	-5.85
2600	Head	2.63	5.53	26.32	55.33	54.31	24.14	9.05	1.87

Comparing to the original SAR value provided by MVG, the verification data should be within its specification of 10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Section 10 of this report.

7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

Read the WWAN RF power level from the base station simulator.

For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.

Connect EUT RF port through RF cable to the power meter or spectrum analyser, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.

Place the EUT in positions as Appendix B demonstrates.

Set scan area, grid size and other setting on the MVG software.

Measure SAR results for the highest power channel on each testing position.

Find out the largest SAR result on these testing positions of each band.

Measure SAR results for other channels in worst SAR testing position if the Reported SAR or 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:

Power reference measurement

Area scan

Zoom scan

Power drift measurement

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 MVG 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 10 g 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 (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values from the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties

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 is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

			$\leq 3\text{ GHz}$	$> 3\text{ GHz}$
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			$5\text{ mm} \pm 1\text{ mm}$	$\frac{1}{2} \cdot \delta \cdot \ln(2)\text{ mm} \pm 0.5\text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location			$30^{\circ} \pm 1^{\circ}$	$20^{\circ} \pm 1^{\circ}$
Maximum area scan spatial resolution: Δx_{Area} , Δy_{Area}			$\leq 2\text{ GHz: } \leq 15\text{ mm}$ $2 - 3\text{ GHz: } \leq 12\text{ mm}$	$3 - 4\text{ GHz: } \leq 12\text{ mm}$ $4 - 6\text{ GHz: } \leq 10\text{ mm}$
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom} , Δy_{Zoom}			$\leq 2\text{ GHz: } \leq 8\text{ mm}$ $2 - 3\text{ GHz: } \leq 5\text{ mm}^*$	$3 - 4\text{ GHz: } \leq 5\text{ mm}^*$ $4 - 6\text{ GHz: } \leq 4\text{ mm}^*$
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		$\leq 5\text{ mm}$	$3 - 4\text{ GHz: } \leq 4\text{ mm}$ $4 - 5\text{ GHz: } \leq 3\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$
	graded grid	$\Delta z_{Zoom}(1)$: between 1 st two points closest to phantom surface	$\leq 4\text{ mm}$	$3 - 4\text{ GHz: } \leq 3\text{ mm}$ $4 - 5\text{ GHz: } \leq 2.5\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$
		$\Delta z_{Zoom}(n>1)$: between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)\text{ mm}$	
Minimum zoom scan volume	x, y, z		$\geq 30\text{ mm}$	$3 - 4\text{ GHz: } \geq 28\text{ mm}$ $4 - 5\text{ GHz: } \geq 25\text{ mm}$ $5 - 6\text{ GHz: } \geq 22\text{ mm}$
Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.				
* When zoom scan is required and the <u>reported</u> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB Publication 447498 is $\leq 1.4\text{ W/kg}$, $\leq 8\text{ mm}$, $\leq 7\text{ mm}$ and $\leq 5\text{ mm}$ zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

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. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

Power Drift Monitoring

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

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.

8. Conducted Output Power

Band: GSM 850	Measured Power (dBm)			Calculation (dB)	Averaged Power (dBm)		
Channel	128	190	251		128	190	251
Frequency	824.2	836.6	848.8		824.2	836.6	848.8
GSM (GMSK, Voice)	32.24	32.10	32.05	-9.03	23.21	23.07	23.02
GPRS (GMSK, 1-slot)	32.26	32.06	32.02	-9.03	23.23	23.03	22.99
GPRS (GMSK, 2-slot)	30.13	30.08	30.05	-6.02	24.11	24.06	24.03
GPRS (GMSK, 3-slot)	28.61	28.60	28.59	-4.26	24.35	24.34	24.33
GPRS (GMSK, 4-slot)	26.56	26.59	26.61	-3.01	23.55	23.58	23.60
EGPRS (1-slot)	25.97	25.68	25.47	-9.03	16.94	16.65	16.44
EGPRS (2-slot)	24.94	24.82	24.53	-6.02	18.92	18.80	18.51
EGPRS (3-slot)	22.17	22.15	22.02	-4.26	17.91	17.89	17.76
EGPRS (4-slot)	19.63	19.62	19.42	-3.01	16.62	16.61	16.41

Note:

- Division Factors
To average the power, the division factor is as follows:
1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB
2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB
4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB
- According to the conducted power as above, the body measurements are performed with 1Tx slots for 850MHz for GPRS.
- The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

Band: GSM 1900	Measured Power (dBm)			Calculation (dB)	Averaged Power (dBm)		
Channel	512	661	810		512	661	810
Frequency	1850.2	1880.0	1909.8		1850.2	1880.0	1909.8
GSM (GMSK, Voice)	29.16	29.38	29.27	-9.03	20.13	20.35	20.24
GPRS (GMSK, 1-slot)	29.17	29.36	29.35	-9.03	20.14	20.33	20.32
GPRS (GMSK, 2-slot)	27.31	27.37	27.15	-6.02	21.29	21.35	21.13
GPRS (GMSK, 3-slot)	25.81	25.88	25.67	-4.26	21.55	21.62	21.41
GPRS (GMSK, 4-slot)	23.83	23.89	23.68	-3.01	20.82	20.88	20.67
EGPRS (1-slot)	25.82	25.69	25.00	-9.03	16.79	16.66	15.97
EGPRS (2-slot)	24.22	24.13	23.26	-6.02	18.20	18.11	17.24
EGPRS (3-slot)	21.14	21.56	20.90	-4.26	16.88	17.30	16.64
EGPRS (4-slot)	18.17	18.50	17.49	-3.01	15.16	15.49	14.48

Note:

- Division Factors
To average the power, the division factor is as follows:
1TX-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB
2TX-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB
3TX-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB
4TX-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB
- According to the conducted power as above, the body measurements are performed with 1Tx slots for 1900MHz for GPRS.
- The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

Band	WCDMA Band II			WCDMA Band V		
Channel	9262	9400	9538	4132	4183	4233
Frequency	1852.40	1880.00	1907.60	826.40	836.60	846.60
RMC 12.2Kbps	23.01	22.82	22.72	23.02	23.07	23.05
HSDPA Subtest-1	21.78	21.62	21.75	22.61	22.48	22.83
HSDPA Subtest-2	21.79	21.63	21.70	22.58	22.51	22.84
HSDPA Subtest-3	21.79	21.63	21.68	22.59	22.52	22.84
HSDPA Subtest-4	21.74	21.58	21.63	22.54	22.47	22.80
HSUPA Subtest-1	19.37	19.40	19.14	20.46	20.33	20.50
HSUPA Subtest-2	19.37	18.91	19.45	20.40	20.03	20.72
HSUPA Subtest-3	19.81	18.91	18.96	20.08	19.87	20.24
HSUPA Subtest-4	19.61	19.38	19.14	20.12	20.31	20.47
HSUPA Subtest-5	19.31	19.07	19.42	20.40	20.02	20.70
Band	WCDMA Band IV					
Channel	1312	1413	1513			
Frequency	1712.4	1732.6	1752.6			
RMC 12.2Kbps	22.69	22.67	22.63			
HSDPA Subtest-1	21.80	21.84	21.83			
HSDPA Subtest-2	21.83	21.85	21.83			
HSDPA Subtest-3	21.84	21.87	21.83			
HSDPA Subtest-4	21.79	21.82	21.78			
HSUPA Subtest-1	19.24	19.09	19.22			
HSUPA Subtest-2	19.17	19.25	19.51			
HSUPA Subtest-3	19.30	19.55	19.05			
HSUPA Subtest-4	19.61	19.06	19.20			
HSUPA Subtest-5	19.30	19.23	19.50			

Note:

1. According to the power listed above, the HSDPA and HSUPA were not determined for SAR testing.
2. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2kbps RMC(reference measurement channel) configuration in test loop mode
3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

WLAN 2.4G						
Mode	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency	2412	2437	2462	2412	2437	2462
Average Power (dBm)	16.92	15.91	17.89	15.27	14.42	16.48
Mode	802.11n(HT20)					
Channel	1	6	11			
Frequency	2412	2437	2462			
Average Power (dBm)	15.40	15.16	16.56			

Note

1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were prescan , just the worst case (the lowest data rate) of all mode were shown in report

Bluetooth						
Mode	GFSK			Pi/4DQPSK		
Channel	0	39	78	0	39	78
Frequency	2402	2441	2480	2402	2441	2480
Average Power (dBm)	-0.09	2.26	3.04	1.78	4.14	4.91
Mode	8DPSK			BLE(1M)		
Channel	0	39	78	0	20	39
Frequency	2402	2441	2480	2402	2440	2480
Average Power (dBm)	2.11	4.47	5.31	-0.47	1.83	2.75

Note

1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

LTE Band 2

Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18607	18900	19193
1.4MHz	QPSK	1	0.00	24.08	23.68	23.53
			3.00	24.11	23.64	23.74
			5.00	24.13	23.73	23.79
		3	0.00	23.96	23.82	23.63
			2.00	24.06	23.80	23.68
			3.00	23.96	23.79	23.73
		6	0.00	23.00	22.69	22.64
	16QAM	1	0.00	22.71	21.91	22.42
			3.00	22.71	21.94	22.41
			5.00	22.76	21.97	22.42
		3	0.00	23.21	22.59	22.96
			2.00	23.23	22.59	22.86
			3.00	23.27	22.62	22.94
		6	0.00	22.22	21.73	21.95
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18615	18900	19185
3MHz	QPSK	1	0.00	23.87	23.75	23.59
			7.00	23.91	23.74	23.66
			14.00	23.84	23.67	23.62
		8	0.00	23.05	22.74	22.67
			4.00	22.92	22.76	22.75
			7.00	22.83	22.80	22.63
		15	0.00	22.99	22.84	22.73
	16QAM	1	0.00	22.75	21.94	22.97
			7.00	22.72	21.93	23.09
			14.00	22.63	21.93	23.02
		8	0.00	22.30	22.07	21.83
			4.00	22.33	22.06	21.88
			7.00	22.25	22.09	21.88
		15	0.00	22.07	21.90	21.78

Conducted Power of LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18625	18900	19175
5MHz	QPSK	1	0.00	23.81	23.83	23.76
			12.00	23.80	23.79	23.64
			24.00	23.81	23.85	23.66
		12	0.00	22.95	22.82	22.72
			6.00	22.92	22.86	22.76
			13.00	22.97	22.84	22.67
		25	0.00	23.01	22.82	22.67
	16QAM	1	0.00	22.61	22.51	21.42
			12.00	22.54	22.55	21.36
			24.00	22.53	22.49	21.39
		12	0.00	22.07	21.94	21.81
			6.00	22.01	21.99	21.73
			13.00	21.96	21.97	21.76
		25	0.00	22.14	21.92	21.83
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18650	18900	19150
10MHz	QPSK	1	0.00	23.92	23.88	23.59
			24.00	23.87	23.92	23.60
			49.00	23.81	23.98	23.59
		25	0.00	22.83	22.91	22.67
			12.00	22.95	22.80	22.72
			25.00	22.95	22.83	22.67
		50	0.00	22.90	22.81	22.78
	16QAM	1	0.00	22.33	22.54	22.51
			24.00	22.14	22.57	22.46
			49.00	22.15	23.07	22.49
		25	0.00	22.22	21.97	21.78
			24.00	22.16	21.99	21.83
			49.00	22.07	21.95	21.82
		50	0.00	22.02	21.95	21.90

Conducted Power of LTE Band 2

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18675	18900	19125
15MHz	QPSK	1	0.00	23.79	23.82	23.61
			37.00	23.67	23.90	23.59
			74.00	23.73	23.90	23.66
		37	0.00	22.86	22.89	22.82
			18.00	22.95	22.79	22.73
			38.00	22.91	22.77	22.68
		75	0.00	22.84	22.86	22.65
	16QAM	1	0.00	22.70	22.45	22.53
			38.00	22.58	22.52	22.45
			74.00	22.57	22.47	22.78
		38	0.00	22.05	21.99	21.83
			18.00	22.03	22.08	21.83
			37.00	22.02	22.02	21.80
		75	0.00	22.00	21.95	21.86
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				18700	18900	19100
20MHz	QPSK	1	0.00	24.01	23.88	23.85
			50.00	23.91	24.02	23.80
			99.00	23.90	23.97	23.86
		50	0.00	22.83	22.85	22.69
			25.00	22.91	22.73	22.84
			50.00	22.90	22.83	22.79
		100	0.00	22.82	22.74	22.73
	16QAM	1	0.00	23.34	22.32	22.35
			50.00	23.20	22.25	22.31
			99.00	23.20	22.27	22.20
		50	0.00	21.93	21.93	21.94
			25.00	22.01	21.93	21.94
			50.00	21.96	21.95	21.87
		100	0.00	22.08	21.88	21.86

LTE Band 4

Conducted Power of LTE Band 4							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				19957	20175	20393	
1.4MHz	QPSK	1	0.00	23.75	23.65	23.72	
			3.00	23.81	23.86	23.67	
			5.00	23.84	23.87	23.67	
		3	0.00	23.72	23.78	23.63	
			2.00	23.77	23.82	23.63	
			3.00	23.71	23.76	23.56	
		6	0.00	22.79	22.77	22.64	
	16QAM	1	0.00	21.77	22.46	21.82	
			2.00	21.75	22.45	21.80	
			5.00	21.80	22.49	21.85	
		3	0.00	22.71	22.93	22.40	
			1.00	22.64	23.01	22.35	
			3.00	22.68	22.96	22.38	
		6	0.00	21.87	22.01	21.77	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					19965	20175	20385
3MHz	QPSK	1	0.00	23.78	23.58	23.46	
			7.00	23.80	23.63	23.43	
			14.00	23.71	23.65	23.47	
		8	0.00	22.66	22.66	22.50	
			4.00	22.70	22.72	22.50	
			7.00	22.79	22.68	22.63	
		15	0.00	22.77	22.69	22.59	
	16QAM	1	0.00	22.05	23.03	22.19	
			7.00	22.14	22.99	22.18	
			14.00	22.11	23.01	22.17	
		8	0.00	21.98	21.85	21.85	
			4.00	22.04	21.85	21.85	
			7.00	22.10	21.81	21.80	
		15	0.00	21.87	21.79	21.64	

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				19975	20175	20375
5MHz	QPSK	1	0.00	23.59	23.72	23.57
			12.00	23.61	23.67	23.53
			24.00	23.56	23.71	23.47
		12	0.00	22.73	22.74	22.58
			6.00	22.68	22.64	22.57
			13.00	22.73	22.62	22.56
		25	0.00	22.75	22.61	22.43
	16QAM	1	0.00	22.36	22.35	21.17
			12.00	22.34	22.37	21.17
			24.00	22.35	22.34	21.25
		12	0.00	21.80	21.73	21.58
			6.00	21.84	21.79	21.62
			13.00	21.86	21.78	21.57
		25	0.00	21.95	21.72	21.66
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20000	20175	20350
10MHz	QPSK	1	0.00	23.72	23.75	23.59
			24.00	23.70	23.77	23.61
			49.00	23.73	23.73	23.53
		25	0.00	22.77	22.57	22.59
			12.00	22.74	22.76	22.58
			25.00	22.65	22.60	22.49
		50	0.00	22.79	22.77	22.60
	16QAM	1	0.00	21.70	22.38	22.40
			24.00	21.72	22.41	22.48
			49.00	21.73	22.38	22.32
		25	0.00	21.98	21.93	21.66
			12.00	21.95	21.92	21.78
			25.00	21.93	21.82	21.69
		50	0.00	21.77	21.79	21.85

Conducted Power of LTE Band 4

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20025	20175	20325
15MHz	QPSK	1	0.00	23.58	23.77	23.50
			37.00	23.56	23.79	23.49
			74.00	23.53	23.75	23.46
		37	0.00	22.73	22.63	22.56
			18.00	22.64	22.72	22.56
			38.00	22.65	22.62	22.45
		75	0.00	22.61	22.73	22.59
	16QAM	1	0.00	22.45	22.44	22.37
			37.00	22.44	22.40	22.31
			74.00	22.47	22.37	22.25
		37	0.00	21.85	21.84	21.70
			18.00	21.89	21.85	21.73
			38.00	21.91	21.84	21.61
		75	0.00	21.75	21.87	21.75
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20050	20175	20300
20MHz	QPSK	1	0.00	23.74	23.60	23.90
			50.00	23.71	23.91	23.90
			99.00	23.71	23.78	23.84
		50	0.00	22.79	22.74	22.48
			25.00	22.72	22.62	22.49
			50.00	22.63	22.73	22.71
		100	0.00	22.76	22.77	22.59
	16QAM	1	0.00	23.03	22.35	21.59
			50.00	23.06	22.34	21.49
			99.00	23.07	22.27	21.43
		50	0.00	21.80	21.79	21.75
			25.00	21.83	21.72	21.72
			50.00	21.81	21.73	21.86
		100	0.00	21.89	21.75	21.63

LTE Band 5

Conducted Power of LTE Band 5							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				20407	20525	20643	
1.4MHz	QPSK	1	0.00	24.05	24.05	23.93	
			3.00	24.04	23.95	23.90	
			5.00	23.96	24.00	23.96	
		3	0.00	24.06	23.92	24.00	
			2.00	23.99	23.94	23.94	
			3.00	23.96	24.00	24.01	
		6	0.00	23.01	22.91	23.01	
	16QAM	1	0.00	22.54	22.47	23.58	
			2.00	22.56	22.41	23.60	
			5.00	22.49	22.48	23.64	
		3	0.00	22.78	22.71	22.87	
			1.00	22.80	22.68	22.90	
			3.00	22.78	22.72	22.98	
		6	0.00	22.03	22.09	22.19	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					20415	20525	20635
3MHz	QPSK	1	0.00	23.99	23.85	23.95	
			7.00	23.91	23.85	23.91	
			14.00	23.95	23.84	23.88	
		8	0.00	23.06	22.89	22.95	
			4.00	23.05	22.89	22.96	
			7.00	23.06	22.96	23.04	
		15	0.00	22.96	23.02	22.93	
	16QAM	1	0.00	22.67	23.65	23.19	
			8.00	22.66	23.66	23.18	
			14.00	22.70	23.63	23.29	
		8	0.00	22.11	22.01	22.26	
			4.00	22.14	22.12	22.29	
			7.00	22.16	22.16	22.22	
		15	0.00	21.93	22.08	22.06	

Conducted Power of LTE Band 5

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20425	20525	20625
5MHz	QPSK	1	0.00	23.98	24.04	23.82
			12.00	23.82	24.02	23.80
			24.00	23.80	24.08	23.74
		12	0.00	23.02	23.00	23.00
			6.00	23.12	22.89	22.84
			13.00	23.06	22.97	22.82
		25	0.00	23.12	22.89	22.84
	16QAM	1	0.00	23.03	23.05	22.14
			12.00	23.09	23.04	22.09
			24.00	23.00	23.06	22.12
		12	0.00	21.96	21.99	22.03
			6.00	21.92	22.08	21.96
			13.00	21.94	22.05	21.90
		25	0.00	22.03	22.08	22.06
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20450	20525	20600
10MHz	QPSK	1	0.00	24.02	23.80	23.98
			25.00	23.96	23.89	23.93
			49.00	23.94	23.86	23.86
		25	0.00	22.96	22.85	23.03
			12.00	22.87	22.87	22.85
			25.00	22.89	23.02	22.94
		50	0.00	22.83	22.88	22.90
	16QAM	1	0.00	22.43	23.71	23.08
			25.00	22.38	23.59	23.08
			49.00	22.42	23.54	23.15
		25	0.00	22.01	21.94	21.92
			12.00	22.18	22.13	22.01
			25.00	22.10	22.04	21.98
		50	0.00	21.98	22.12	22.03

LTE Band 7

Conducted Power of LTE Band 7						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0.00	23.59	23.30	22.97
			12.00	23.65	23.25	22.81
			24.00	23.64	23.23	22.85
		12	0.00	22.67	22.37	22.10
			6.00	22.56	22.23	22.07
			13.00	22.64	22.37	22.03
		25	0.00	22.65	22.33	22.10
	16QAM	1	0.00	22.20	21.03	21.79
			12.00	21.97	20.99	21.69
			24.00	22.15	20.93	21.63
		12	0.00	21.72	21.38	21.09
			6.00	21.74	21.38	21.07
			13.00	21.72	21.48	21.11
		25	0.00	21.70	21.45	21.29
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0.00	23.60	23.30	23.02
			24.00	23.57	23.28	23.05
			49.00	23.48	23.29	22.97
		25	0.00	22.62	22.34	22.08
			12.00	22.58	22.19	22.13
			25.00	22.48	22.22	22.08
		50	0.00	22.70	22.22	22.14
	16QAM	1	0.00	21.91	21.96	22.22
			24.00	21.92	21.91	22.08
			49.00	21.88	21.93	22.12
		25	0.00	21.88	21.52	21.24
			12.00	21.93	21.51	21.26
			25.00	21.86	21.54	21.22
		50	0.00	21.80	21.53	21.34

Conducted Power of LTE Band 7

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20825	21100	21375
15MHz	QPSK	1	0.00	23.59	23.28	23.08
			37.00	23.52	23.24	23.04
			74.00	23.41	23.26	22.92
		37	0.00	22.62	22.28	22.16
			18.00	22.59	22.30	22.18
			38.00	22.42	22.17	22.09
		75	0.00	22.52	22.32	22.15
	16QAM	1	0.00	22.52	22.13	21.83
			38.00	22.55	22.07	21.88
			74.00	22.46	22.06	21.80
		36	0.00	21.74	21.46	21.33
			18.00	21.68	21.45	21.43
			37.00	21.67	21.49	21.29
		75	0.00	21.63	21.48	21.34
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20850	21100	21350
20MHz	QPSK	1	0.00	23.59	23.25	23.23
			50.00	23.52	23.24	23.09
			99.00	23.42	23.22	23.13
		50	0.00	22.66	22.38	22.18
			25.00	22.43	22.32	22.12
			50.00	22.51	22.35	22.14
		100	0.00	22.49	22.36	22.16
	16QAM	1	0.00	22.92	22.12	21.37
			50.00	22.85	21.97	21.37
			99.00	22.69	21.93	21.28
		50	0.00	21.66	21.52	21.35
			25.00	21.61	21.46	21.33
			50.00	21.63	21.49	21.44
		100	0.00	21.71	21.35	21.33

LTE Band 12

Conducted Power of LTE Band 12							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				23017	23095	23173	
1.4MHz	QPSK	1	0.00	24.29	23.98	23.97	
			3.00	24.18	24.02	23.96	
			5.00	24.23	24.04	24.00	
		3	0.00	24.14	23.99	23.80	
			2.00	24.07	24.00	23.81	
			3.00	24.14	23.93	23.71	
		6	0.00	23.03	23.03	22.99	
	16QAM	1	0.00	22.64	22.51	22.42	
			2.00	22.59	22.68	22.50	
			5.00	22.71	22.56	22.46	
		3	0.00	22.86	22.87	22.57	
			2.00	22.86	22.80	22.64	
			3.00	22.86	22.80	22.66	
		6	0.00	22.08	21.96	21.85	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					23025	23095	23165
3MHz	QPSK	1	0.00	24.18	23.90	23.89	
			7.00	24.15	23.91	23.90	
			14.00	24.20	23.94	23.75	
		8	0.00	23.07	22.90	22.78	
			4.00	23.12	22.92	22.80	
			7.00	23.10	22.97	22.94	
		15	0.00	23.05	23.05	22.74	
	16QAM	1	0.00	22.86	23.75	23.06	
			7.00	22.74	23.91	23.03	
			14.00	22.84	23.81	23.16	
		8	0.00	22.19	21.98	22.03	
			4.00	22.19	21.94	22.08	
			7.00	22.19	21.88	21.92	
		15	0.00	22.01	21.93	21.89	

Conducted Power of LTE Band 12

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23035	23095	23155
5MHz	QPSK	1	0.00	24.06	23.80	23.63
			12.00	23.95	23.87	23.77
			24.00	23.86	23.95	23.69
		12	0.00	22.94	22.90	22.73
			6.00	23.09	22.94	22.81
			13.00	23.03	22.99	22.92
		25	0.00	23.09	22.97	22.83
	16QAM	1	0.00	23.00	22.67	21.94
			12.00	23.08	22.63	22.02
			24.00	23.05	22.58	22.05
		12	0.00	21.98	21.84	21.74
			6.00	21.95	21.74	21.91
			13.00	21.94	21.70	21.78
		25	0.00	22.02	21.74	21.99
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23060	23095	23130
10MHz	QPSK	1	0.00	24.00	23.85	23.77
			25.00	24.07	23.84	23.87
			49.00	23.87	23.75	23.68
		25	0.00	23.03	22.94	23.03
			12.00	22.96	23.01	22.85
			25.00	22.92	22.85	22.95
		50	0.00	23.02	22.97	22.97
	16QAM	1	0.00	22.72	23.63	23.29
			25.00	22.71	23.81	23.35
			49.00	22.64	23.64	23.28
		25	0.00	22.15	22.04	21.82
			12.00	22.08	21.83	21.92
			25.00	22.09	21.99	21.91
		50	0.00	21.92	21.90	21.90

LTE Band 13

Conducted Power of LTE Band 13						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23205	23230	23255
5MHz	QPSK	1	0.00	23.92	23.69	23.88
			12.00	23.86	23.67	23.71
			24.00	23.99	23.73	23.69
		12	0.00	22.68	22.65	22.83
			6.00	22.74	22.89	22.76
			13.00	22.78	22.83	22.87
		25	0.00	22.73	22.75	22.86
	16QAM	1	0.00	22.73	21.84	22.84
			12.00	22.73	21.90	22.89
			24.00	22.76	21.89	22.87
		12	0.00	21.66	21.87	21.73
			6.00	21.71	21.85	21.79
			13.00	21.66	21.87	21.82
		25	0.00	21.76	21.86	21.82
Bandwidth	Modulation	RB size	RB offset	Channel		
				23230		
10MHz	QPSK	1	0.00	23.71		
			25.00	23.85		
			49.00	23.82		
		25	0.00	22.60		
			12.00	22.92		
			25.00	22.81		
		50	0.00	22.81		
	16QAM	1	0.00	22.22		
			25.00	22.29		
			49.00	22.30		
		25	0.00	21.91		
			12.00	21.96		
			25.00	21.96		
		50	0.00	21.80		

LTE Band 17

Conducted Power of LTE Band 17						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23755	23790	23825
5MHz	QPSK	1	0.00	23.99	23.94	23.74
			12.00	23.84	23.92	23.71
			24.00	23.78	23.76	23.53
		12	0.00	22.94	22.97	22.80
			6.00	22.82	22.87	22.78
			13.00	22.90	22.86	22.84
		25	0.00	22.87	22.91	22.77
	16QAM	1	0.00	22.79	22.05	22.69
			12.00	22.79	22.06	22.78
			24.00	22.93	21.87	22.90
		12	0.00	21.94	21.69	21.73
			6.00	21.94	21.92	21.88
			13.00	21.88	21.69	21.84
		25	0.00	21.94	21.90	21.92
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				23780	23790	23800
10MHz	QPSK	1	0.00	23.93	23.86	23.73
			25.00	23.82	23.87	23.78
			49.00	23.86	23.84	23.67
		25	0.00	22.95	22.88	22.90
			12.00	22.89	22.85	22.89
			25.00	22.76	22.69	22.80
		50	0.00	22.84	22.87	22.85
	16QAM	1	0.00	22.47	22.93	23.21
			25.00	22.54	23.00	23.26
			49.00	22.49	22.85	23.27
		25	0.00	21.97	21.82	21.74
			12.00	21.91	21.95	21.86
			25.00	21.93	21.78	21.88
		50	0.00	21.78	21.90	21.80

LTE Band 25

Conducted Power of LTE Band 25							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				26047	26365	26683	
1.4MHz	QPSK	1	0.00	23.92	23.51	23.49	
			3.00	23.97	23.67	23.66	
			5.00	23.95	23.68	23.62	
		3	0.00	23.91	23.71	23.61	
			2.00	23.93	23.71	23.73	
			3.00	23.87	23.74	23.63	
		6	0.00	22.93	22.71	22.62	
	16QAM	1	0.00	21.91	22.49	22.14	
			2.00	21.95	22.50	22.23	
			5.00	21.89	22.51	22.23	
		3	0.00	22.78	22.89	22.45	
			2.00	22.80	22.92	22.57	
			3.00	22.76	22.91	22.53	
		6	0.00	22.01	21.78	21.75	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					26055	26365	26675
3MHz	QPSK	1	0.00	23.93	23.67	23.57	
			7.00	23.99	23.59	23.46	
			14.00	23.91	23.59	23.58	
		8	0.00	22.94	22.77	22.58	
			4.00	22.91	22.76	22.58	
			7.00	22.83	22.66	22.62	
		15	0.00	22.87	22.71	22.45	
	16QAM	1	0.00	21.92	22.52	22.27	
			7.00	21.90	22.71	22.29	
			14.00	21.89	22.68	22.34	
		8	0.00	22.25	21.88	21.88	
			4.00	22.24	21.87	21.89	
			7.00	22.26	21.79	22.01	
		15	0.00	22.07	21.82	21.65	

Conducted Power of LTE Band 25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26065	26365	26665
5MHz	QPSK	1	0.00	23.81	23.79	23.67
			12.00	23.79	23.79	23.62
			24.00	23.83	23.79	23.69
		12	0.00	22.98	22.84	22.56
			6.00	22.95	22.82	22.62
			13.00	22.85	22.84	22.58
		25	0.00	22.91	22.78	22.69
	16QAM	1	0.00	22.50	22.42	21.37
			12.00	22.46	22.42	21.29
			24.00	22.51	22.43	21.41
		12	0.00	22.05	21.86	21.72
			6.00	21.94	21.93	21.72
			13.00	21.96	21.92	21.72
		25	0.00	22.06	21.87	21.86
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26090	26365	26640
10MHz	QPSK	1	0.00	23.88	23.84	23.55
			24.00	23.84	23.85	23.57
			49.00	23.85	23.78	23.63
		25	0.00	22.94	22.78	22.60
			12.00	22.96	22.71	22.70
			25.00	22.86	22.77	22.59
		50	0.00	22.91	22.78	22.72
	16QAM	1	0.00	21.90	22.49	22.38
			24.00	21.91	22.42	22.43
			49.00	21.90	22.43	22.46
		25	0.00	22.14	21.97	21.75
			12.00	22.13	21.95	21.71
			25.00	22.12	21.91	21.73
		50	0.00	21.97	21.90	21.82

Conducted Power of LTE Band 25

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26115	26365	26615
15MHz	QPSK	1	0.00	23.79	23.79	23.55
			37.00	23.66	23.80	23.55
			74.00	23.64	23.84	23.65
		37	0.00	22.88	22.70	22.68
			18.00	22.84	22.75	22.57
			38.00	22.84	22.70	22.60
		75	0.00	22.90	22.87	22.56
	16QAM	1	0.00	22.63	23.13	22.42
			38.00	22.60	23.22	22.43
			74.00	22.60	23.12	22.52
		36	0.00	21.98	21.91	21.92
			18.00	21.98	21.93	21.89
			37.00	21.92	21.90	21.88
		75	0.00	22.01	21.84	21.88
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				26140	26365	26590
20MHz	QPSK	1	0.00	24.01	23.76	23.74
			50.00	23.97	23.79	23.74
			99.00	23.93	23.76	23.75
		50	0.00	22.82	22.72	22.71
			50.00	22.92	22.69	22.58
			50.00	22.83	22.72	22.68
		100	0.00	22.92	22.75	22.62
	16QAM	1	0.00	23.15	22.27	22.18
			49.00	23.15	22.30	22.24
			99.00	23.10	22.22	22.09
		50	0.00	21.93	21.93	21.81
			25.00	21.94	21.88	21.78
			50.00	21.85	21.82	21.76
		100	0.00	21.93	21.85	21.86

LTE Band 41

Conducted Power of LTE Band 41						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39675	40620	41565
5MHz	QPSK	1	0.00	23.12	22.63	22.98
			12.00	23.07	22.62	23.00
			24.00	23.23	22.59	22.92
		12	0.00	22.26	21.69	22.03
			6.00	22.26	21.72	22.09
			13.00	22.23	21.70	22.02
		25	0.00	22.17	21.74	22.09
	16QAM	1	0.00	21.80	22.50	22.02
			12.00	22.03	22.46	22.08
			24.00	21.75	22.86	22.08
		12	0.00	21.21	20.66	21.13
			6.00	21.35	20.70	21.15
			13.00	21.28	20.68	21.02
		25	0.00	21.31	20.86	21.24
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39700	40620	41540
10MHz	QPSK	1	0.00	23.22	22.80	23.29
			24.00	23.16	22.71	23.02
			49.00	23.09	22.86	22.86
		25	0.00	22.21	21.62	22.18
			12.00	22.10	21.61	22.16
			25.00	22.09	21.63	22.19
		50	0.00	22.18	21.64	22.22
	16QAM	1	0.00	23.19	21.74	22.74
			24.00	23.14	21.57	22.39
			49.00	23.04	21.82	22.29
		25	0.00	21.37	20.71	21.60
			12.00	21.41	20.71	21.45
			25.00	21.34	20.75	21.47
		50	0.00	21.36	20.85	21.23

Conducted Power of LTE Band 41

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39725	40620	41515
15MHz	QPSK	1	0.00	23.05	22.75	23.34
			37.00	23.00	22.62	23.16
			74.00	23.09	22.81	23.17
		37	0.00	22.17	21.69	22.17
			18.00	22.12	21.51	22.24
			38.00	22.10	21.67	22.09
		75	0.00	22.18	21.69	22.24
	16QAM	1	0.00	22.34	22.69	22.47
			37.00	22.61	22.66	22.03
			74.00	22.20	22.70	21.70
		37	0.00	21.30	20.68	21.31
			18.00	21.32	20.77	21.36
			38.00	21.31	20.79	21.23
		75	0.00	21.23	20.85	21.32
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				39750	40620	41490
20MHz	QPSK	1	0.00	23.10	22.56	23.48
			50.00	22.97	22.50	23.30
			99.00	22.92	22.58	23.20
		50	0.00	22.12	21.60	22.22
			25.00	22.03	21.57	22.15
			50.00	22.07	21.62	22.07
		100	0.00	22.10	21.63	22.15
	16QAM	1	0.00	22.31	22.44	23.09
			50.00	21.97	22.48	23.03
			99.00	22.11	22.51	23.18
		50	0.00	21.41	20.81	21.48
			25.00	21.28	20.92	21.46
			50.00	21.25	20.87	21.43
		100	0.00	21.26	20.73	21.41

LTE Band 66

Conducted Power of LTE Band 66							
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel	
				131979	132322	132665	
1.4MHz	QPSK	1	0.00	23.78	23.41	23.65	
			2.00	23.82	23.51	23.70	
			5.00	23.77	23.50	23.68	
		3	0.00	23.72	23.52	23.59	
			1.00	23.71	23.55	23.64	
			3.00	23.70	23.47	23.61	
		6	0.00	22.64	22.52	22.52	
	16QAM	1	0.00	21.65	22.33	22.07	
			2.00	21.82	22.28	22.09	
			5.00	21.58	22.31	22.11	
		3	0.00	22.57	22.50	22.44	
			1.00	22.62	22.50	22.46	
			3.00	22.59	22.47	22.46	
		6	0.00	21.87	21.63	21.67	
	Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
					131987	132322	132657
3MHz	QPSK	1	0.00	23.79	23.37	23.63	
			8.00	23.77	23.36	23.65	
			14.00	23.77	23.37	23.55	
		8	0.00	22.73	22.56	22.66	
			4.00	22.67	22.56	22.55	
			7.00	22.72	22.50	22.61	
		15	0.00	22.72	22.53	22.64	
	16QAM	1	0.00	21.94	22.55	22.17	
			8.00	21.97	22.55	22.09	
			14.00	21.88	22.53	22.09	
		8	0.00	21.90	21.75	21.82	
			4.00	21.95	21.69	21.85	
			7.00	21.93	21.70	21.84	
		15	0.00	21.79	21.65	21.70	

Conducted Power of LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				131997	132322	132647
5MHz	QPSK	1	0.00	23.44	23.55	23.45
			12.00	23.51	23.50	23.51
			24.00	23.45	23.64	23.52
		12	0.00	22.68	22.51	22.51
			6.00	22.69	22.61	22.59
			13.00	22.71	22.56	22.49
		25	0.00	22.64	22.47	22.44
	16QAM	1	0.00	22.42	21.88	21.53
			12.00	22.44	21.86	21.58
			24.00	22.37	21.91	21.51
		12	0.00	21.85	21.48	21.59
			6.00	21.85	21.43	21.61
			13.00	21.84	21.38	21.60
		25	0.00	21.83	21.58	21.71
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132022	132322	132622
10MHz	QPSK	1	0.00	23.79	23.55	23.40
			24.00	23.75	23.53	23.47
			49.00	23.72	23.58	23.46
		25	0.00	22.81	22.51	22.42
			12.00	22.70	22.52	22.42
			25.00	22.67	22.43	22.41
		50	0.00	22.74	22.43	22.53
	16QAM	1	0.00	21.94	22.90	21.84
			24.00	21.94	22.83	21.85
			49.00	21.85	22.94	21.89
		25	0.00	21.84	21.62	21.51
			12.00	21.87	21.63	21.60
			25.00	21.84	21.57	21.59
		50	0.00	21.77	21.63	21.55

Conducted Power of LTE Band 66

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132047	132322	132597
15MHz	QPSK	1	0.00	23.56	23.56	23.39
			38.00	23.59	23.51	23.44
			74.00	23.54	23.46	23.52
		38	0.00	22.73	22.59	22.53
			18.00	22.67	22.47	22.41
			37.00	22.64	22.64	22.51
		75	0.00	22.59	22.52	22.52
	16QAM	1	0.00	22.23	22.63	21.85
			38.00	22.25	22.88	21.84
			74.00	22.20	22.82	21.87
		38	0.00	21.87	21.53	21.74
			18.00	21.86	21.55	21.71
			37.00	21.82	21.66	21.66
		75	0.00	21.78	21.57	21.70
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				132072	132322	132572
20MHz	QPSK	1	0.00	23.85	23.61	23.56
			50.00	23.86	23.51	23.57
			99.00	23.83	23.50	23.59
		50	0.00	22.64	22.66	22.54
			25.00	22.76	22.54	22.50
			50.00	22.73	22.65	22.52
		100	0.00	22.59	22.53	22.53
	16QAM	1	0.00	22.23	22.10	22.15
			50.00	22.23	22.11	22.12
			99.00	22.26	21.52	22.10
		50	0.00	21.79	21.67	21.67
			25.00	21.78	21.53	21.66
			50.00	21.79	21.69	21.63
		100	0.00	21.78	21.58	21.60

LTE Band 71

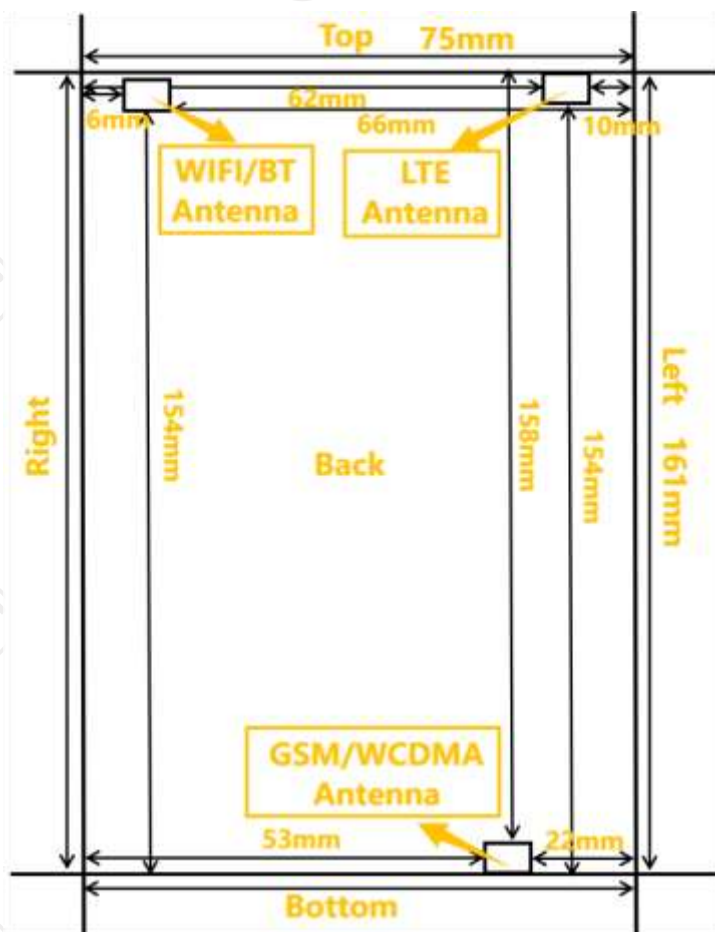
Conducted Power of LTE Band 71						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133147	133297	133447
5MHz	QPSK	1	0.00	24.45	24.21	24.06
			12.00	24.41	24.24	23.90
			24.00	24.45	24.12	23.74
		12	0.00	23.35	23.24	23.10
			6.00	23.48	23.20	23.15
			13.00	23.53	23.13	23.17
		25	0.00	23.44	23.36	23.16
	16QAM	1	0.00	23.05	22.89	23.25
			12.00	23.11	22.77	23.27
			24.00	23.04	22.64	23.06
		12	0.00	22.14	22.32	22.24
			6.00	22.26	22.30	22.12
			13.00	22.21	22.61	22.12
		25	0.00	22.62	22.41	22.13
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133172	133297	133422
10MHz	QPSK	1	0.00	24.40	24.15	24.18
			24.00	24.42	24.32	24.33
			49.00	24.54	24.26	23.99
		25	0.00	23.39	23.26	23.27
			12.00	23.22	23.27	23.18
			25.00	23.30	23.08	23.26
		50	0.00	23.43	23.28	23.16
	16QAM	1	0.00	22.66	24.01	22.93
			24.00	22.72	23.94	22.94
			49.00	22.69	23.94	22.79
		25	0.00	22.47	22.38	22.16
			12.00	22.44	22.35	22.17
			25.00	22.45	22.64	22.11
		50	0.00	22.34	22.33	22.11

Conducted Power of LTE Band 71

Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133197	133297	133397
15MHz	QPSK	1	0.00	24.41	24.28	24.26
			37.00	24.41	24.32	24.21
			74.00	24.41	24.24	24.08
		37	0.00	23.36	23.41	23.23
			18.00	23.35	23.18	23.22
			38.00	23.30	23.31	23.12
		75	0.00	23.40	23.32	23.31
	16QAM	1	0.00	23.31	23.43	23.19
			37.00	23.43	23.37	23.22
			74.00	23.43	23.32	23.03
		37	0.00	22.40	22.42	22.26
			18.00	22.40	22.41	22.12
			38.00	22.44	22.41	22.25
		75	0.00	22.32	22.25	22.18
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				133222	133322	133372
20MHz	QPSK	1	0.00	24.50	24.51	24.11
			50.00	24.47	24.49	24.05
			99.00	24.47	24.40	23.95
		50	0.00	23.31	23.37	23.34
			25.00	23.33	23.04	23.24
			50.00	23.31	23.26	23.07
		100	0.00	23.35	23.24	23.28
	16QAM	1	0.00	23.26	23.21	23.20
			50.00	23.28	23.09	23.10
			99.00	23.26	23.17	23.07
		50	0.00	22.36	22.29	22.40
			25.00	22.35	22.57	22.33
			50.00	22.41	22.27	22.25
		100	0.00	22.36	22.65	22.26

9. Exposure Position Consideration

9.1. EUT Antenna Location



9.2. Test Position Consideration

Test Positions						
Mode	Back Side	Front Side	Top Side	Bottom Side	Right Side	Left Side
GSM/WCDMA	Yes	Yes	No	Yes	No	Yes
LTE	Yes	Yes	Yes	No	No	Yes
WIFI/BT	Yes	Yes	Yes	No	Yes	No

Note:

1. KDB941225 D06, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 25mm.
2. The product only supports public address and no earpiece, so only the front and bottom need to be tested.
3. WWAN diversity antenna is RX only.

10. SAR Test Results Summary

10.1. Head 1g SAR Data

Band	Mode	Test Position	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
GSM850	voice	Left Cheek	128	824.2	32.24	32.50	-1.38	0.52	1.062	0.55	1.60
		Left Tilt	128	824.2	32.24	32.50	-0.18	0.26	1.062	0.28	
		Right Cheek	128	824.2	32.24	32.50	2.42	0.50	1.062	0.53	
		Right Tilt	128	824.2	32.24	32.50	-2.94	0.24	1.062	0.25	
GSM1900	voice	Left Cheek	661	1880.0	29.38	29.50	2.07	0.25	1.028	0.26	
		Left Tilt	661	1880.0	29.38	29.50	3.75	0.13	1.028	0.13	
		Right Cheek	661	1880.0	29.38	29.50	-1.50	0.23	1.028	0.24	
		Right Tilt	661	1880.0	29.38	29.50	3.98	0.11	1.028	0.11	
WCDMA Band II	RMC	Left Cheek	9262	1852.4	23.01	23.50	-2.17	0.13	1.119	0.15	
		Left Tilt	9262	1852.4	23.01	23.50	-1.15	0.07	1.119	0.08	
		Right Cheek	9262	1852.4	23.01	23.50	1.91	0.11	1.119	0.12	
		Right Tilt	9262	1852.4	23.01	23.50	0.62	0.06	1.119	0.07	
WCDMA Band IV	RMC	Left Cheek	1312	1712.4	22.69	23.00	2.36	0.27	1.074	0.29	
		Left Tilt	1312	1712.4	22.69	23.00	-0.49	0.14	1.074	0.15	
		Right Cheek	1312	1712.4	22.69	23.00	1.63	0.25	1.074	0.27	
		Right Tilt	1312	1712.4	22.69	23.00	0.43	0.12	1.074	0.13	
WCDMA Band V	RMC	Left Cheek	4183	836.6	23.07	23.50	-3.09	0.36	1.104	0.40	
		Left Tilt	4183	836.6	23.07	23.50	-0.84	0.19	1.104	0.21	
		Right Cheek	4183	836.6	23.07	23.50	2.05	0.34	1.104	0.38	
		Right Tilt	4183	836.6	23.07	23.50	0.06	0.17	1.104	0.19	
2.4G	802.11b	Left Cheek	11	2462	17.89	18.00	1.81	0.20	1.026	0.21	
		Left Tilt	11	2462	17.89	18.00	-1.03	0.11	1.026	0.11	
		Right Cheek	11	2462	17.89	18.00	2.16	0.18	1.026	0.18	
		Right Tilt	11	2462	17.89	18.00	-0.29	0.09	1.026	0.09	
BT	EDR	Left Cheek	78	2480	5.31	5.50	-1.09	0.08	1.045	0.08	
		Left Tilt	78	2480	5.31	5.50	-1.38	0.04	1.045	0.04	
		Right Cheek	78	2480	5.31	5.50	2.82	0.07	1.045	0.07	
		Right Tilt	78	2480	5.31	5.50	-0.57	0.03	1.045	0.03	

Band	Mode	Test Position	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Right Cheek	18900	1880	1	50	24.02	24.50	1.07	0.57	1.117	0.64
					50	0	22.85	23.00	-1.39	0.51	1.035	0.53
		Right Tilt	18900	1880	1	50	24.02	24.50	0.42	0.28	1.117	0.31
					50	0	22.85	23.00	-1.32	0.24	1.035	0.25
		Left Cheek	18900	1880	1	50	24.02	24.50	0.09	0.59	1.117	0.66
					50	0	22.85	23.00	-0.55	0.53	1.035	0.55
		Left Tilt	18900	1880	1	50	24.02	24.50	1.77	0.30	1.117	0.34
					50	0	22.85	23.00	-3.55	0.26	1.035	0.27
LTE Band 4	QPSK (20MHz)	Right Cheek	20175	1732.5	1	50	23.91	24.00	2.60	0.60	1.021	0.61
					50	0	22.74	23.00	3.67	0.28	1.062	0.30
		Right Tilt	20175	1732.5	1	50	23.91	24.00	-1.22	0.57	1.021	0.58
					50	0	22.74	23.00	3.87	0.25	1.062	0.27
		Left Cheek	20175	1732.5	1	50	23.91	24.00	-3.40	0.65	1.021	0.66
					50	0	22.74	23.00	0.39	0.32	1.062	0.34
		Left Tilt	20175	1732.5	1	50	23.91	24.00	2.43	0.61	1.021	0.62
					50	0	22.74	23.00	-3.83	0.30	1.062	0.32
LTE Band 5	QPSK (10MHz)	Right Cheek	20450	829	1	0	24.02	24.50	2.41	0.51	1.117	0.57
					25	0	22.96	23.00	3.78	0.26	1.009	0.26
		Right Tilt	20450	829	1	0	24.02	24.50	-1.57	0.48	1.117	0.54
					25	0	22.96	23.00	4.27	0.23	1.009	0.23
		Left Cheek	20450	829	1	0	24.02	24.50	-2.39	0.57	1.117	0.64
					25	0	22.96	23.00	0.03	0.31	1.009	0.31
		Left Tilt	20450	829	1	0	24.02	24.50	2.18	0.54	1.117	0.60
					25	0	22.96	23.00	-3.69	0.28	1.009	0.28
LTE Band 7	QPSK (20MHz)	Right Cheek	20850	2510	1	0	23.59	24.00	2.26	0.64	1.099	0.70
					50	0	22.66	23.00	3.46	0.60	1.081	0.65
		Right Tilt	20850	2510	1	0	23.59	24.00	-1.68	0.31	1.099	0.34
					50	0	22.66	23.00	3.92	0.27	1.081	0.29
		Left Cheek	20850	2510	1	0	23.59	24.00	1.23	0.65	1.099	0.71
					50	0	22.66	23.00	1.59	0.63	1.081	0.68
		Left Tilt	20850	2510	1	0	23.59	24.00	2.23	0.35	1.099	0.38
					50	0	22.66	23.00	-0.44	0.32	1.081	0.35
LTE Band 12	QPSK (10MHz)	Right Cheek	23060	704	1	25	24.07	24.50	2.61	0.37	1.104	0.41
					25	0	23.03	23.50	2.48	0.19	1.114	0.21
		Right Tilt	23060	704	1	25	24.07	24.50	-0.58	0.33	1.104	0.36
					25	0	23.03	23.50	2.76	0.16	1.114	0.18
		Left Cheek	23060	704	1	25	24.07	24.50	-2.29	0.40	1.104	0.44
					25	0	23.03	23.50	-0.47	0.21	1.114	0.23
		Left Tilt	23060	704	1	25	24.07	24.50	2.97	0.36	1.104	0.40
					25	0	23.03	23.50	-1.90	0.18	1.114	0.20

LTE Band 13	QPSK (10MHz)	Right Cheek	23230	782	1	25	23.85	24.00	-2.54	0.23	1.035	0.24
					25	13	22.92	23.00	-0.33	0.10	1.019	0.10
		Right Tilt	23230	782	1	25	23.85	24.00	2.82	0.19	1.035	0.20
					25	13	22.92	23.00	-2.22	0.08	1.019	0.08
		Left Cheek	23230	782	1	25	23.85	24.00	1.58	0.26	1.035	0.27
					25	13	22.92	23.00	1.40	0.14	1.019	0.14
LTE Band 17	QPSK (10MHz)	Right Cheek	23780	709	1	0	23.93	24.00	3.03	0.23	1.016	0.23
					25	0	22.95	23.00	2.59	0.11	1.012	0.11
		Right Tilt	23780	709	1	0	23.93	24.00	-0.93	0.20	1.016	0.20
					25	0	22.95	23.00	3.18	0.08	1.012	0.08
		Left Cheek	23780	709	1	0	23.93	24.00	-3.33	0.26	1.016	0.26
					25	0	22.95	23.00	-0.72	0.14	1.012	0.14
LTE Band 25	QPSK (20MHz)	Right Cheek	26140	1860	1	0	24.01	24.50	1.24	0.46	1.119	0.51
					50	25	22.92	23.00	1.62	0.22	1.019	0.22
		Right Tilt	26140	1860	1	0	24.01	24.50	-1.65	0.42	1.119	0.47
					50	25	22.92	23.00	3.21	0.20	1.019	0.20
		Left Cheek	26140	1860	1	0	24.01	24.50	-1.00	0.50	1.119	0.56
					50	25	22.92	23.00	-0.06	0.26	1.019	0.26
LTE Band 41 (HPUE)	QPSK (20MHz)	Right Cheek	41490	2680	1	0	23.48	23.50	0.81	0.28	1.005	0.28
					50	0	22.22	22.50	2.82	0.14	1.067	0.15
		Right Tilt	41490	2680	1	0	23.48	23.50	-0.71	0.25	1.005	0.25
					50	0	22.22	22.50	2.61	0.12	1.067	0.13
		Left Cheek	41490	2680	1	0	23.48	23.50	-1.08	0.31	1.005	0.31
					50	0	22.22	22.50	-1.04	0.17	1.067	0.18
LTE Band 66	QPSK (20MHz)	Right Cheek	132072	1720	1	50	23.86	24.00	0.62	0.63	1.033	0.65
					50	25	22.76	23.00	2.93	0.31	1.057	0.33
		Right Tilt	132072	1720	1	50	23.86	24.00	-1.06	0.59	1.033	0.61
					50	25	22.76	23.00	3.03	0.27	1.057	0.29
		Left Cheek	132072	1720	1	50	23.86	24.00	-1.22	0.70	1.033	0.72
					50	25	22.76	23.00	-1.33	0.35	1.057	0.37
		Left Tilt	132072	1720	1	50	23.86	24.00	1.44	0.64	1.033	0.66
					50	25	22.76	23.00	-2.33	0.32	1.057	0.34

LTE Band 71	QPSK (20MHz)	Right Cheek	133322	683	1	0	24.51	25.00	1.04	0.17	1.119	0.19
					50	0	23.37	23.50	2.56	0.09	1.030	0.09
		Right Tilt	133322	683	1	0	24.51	25.00	-1.73	0.15	1.119	0.17
					50	0	23.37	23.50	2.42	0.07	1.030	0.07
		Left Cheek	133322	683	1	0	24.51	25.00	-1.31	0.21	1.119	0.23
					50	0	23.37	23.50	0.68	0.12	1.030	0.12
		Left Tilt	133322	683	1	0	24.51	25.00	-1.28	0.19	1.119	0.21
					50	0	23.37	23.50	3.02	0.10	1.030	0.10

10.2. Body-Worn 1g SAR Data

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	96Limit (W/Kg)
GSM850	voice	Front	128	824.2	32.24	32.50	2.47	0.36	1.062	0.38	1.60
		Back	128	824.2	32.24	32.50	-0.75	0.43	1.062	0.46	
	GPRS 3 slots	Front	128	824.2	28.61	29.00	2.64	0.47	1.094	0.51	
		Back	128	824.2	28.61	29.00	-2.26	0.53	1.094	0.58	
GSM1900	voice	Front	661	1880.0	29.38	29.50	-0.51	0.16	1.028	0.16	
		Back	661	1880.0	29.38	29.50	-1.90	0.21	1.028	0.22	
	GPRS 3 slots	Front	661	1880.0	25.88	26.00	-0.97	0.57	1.028	0.59	
		Back	661	1880.0	25.88	26.00	-2.01	0.63	1.028	0.65	
WCDMA Band II	RMC	Front	9262	1852.4	23.01	23.50	1.69	0.88	1.119	0.98	
		Back	9262	1852.4	23.01	23.50	-4.00	0.94	1.119	1.05	
		Back	9400	1880	22.82	23.00	2.13	0.88	1.042	0.92	
		Back	9538	1907.6	22.72	23.00	-1.57	0.83	1.067	0.89	
WCDMA Band IV	RMC	Front	1312	1712.4	22.69	23.00	2.97	0.71	1.074	0.76	
		Back	1312	1712.4	22.69	23.00	0.67	0.77	1.074	0.83	
		Back	1413	1732.6	22.67	23.00	-3.14	0.72	1.079	0.78	
		Back	1513	1752.6	22.63	23.00	2.87	0.68	1.089	0.74	
WCDMA Band V	RMC	Front	4183	836.6	23.07	23.50	1.41	0.26	1.104	0.29	
		Back	4183	836.6	23.07	23.50	-2.29	0.33	1.104	0.36	
2.4G	802.11b	Front	11	2462	17.89	18.00	0.32	0.20	1.026	0.21	
		Back	11	2462	17.89	18.00	-1.97	0.27	1.026	0.28	
BT	EDR	Front	78	2480	5.31	5.50	1.30	0.01	1.045	0.01	
		Back	78	2480	5.31	5.50	-3.30	0.02	1.045	0.02	

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Front	18900	1880	1	50	24.02	24.50	2.06	0.88	1.117	0.98
					50	0	22.85	23.00	1.12	0.81	1.035	0.84
			18700	1860	1	50	23.91	24.00	3.98	0.82	1.021	0.84
					1	50	23.80	24.00	-0.78	0.79	1.047	0.83
		Back	18900	1880	1	50	24.02	24.50	-1.43	0.79	1.117	0.88
					50	0	22.85	23.00	1.06	0.72	1.035	0.75
LTE Band 4	QPSK (20MHz)	Front	20175	1732.5	1	50	23.91	24.00	0.77	0.87	1.021	0.89
					50	0	22.74	23.00	2.77	0.78	1.062	0.83
			20050	1720	1	50	23.71	24.00	1.14	0.81	1.069	0.87
					1	50	23.90	24.00	2.58	0.76	1.023	0.78
		Back	20175	1732.5	1	50	23.91	24.00	-1.86	0.79	1.021	0.81
					50	0	22.74	23.00	3.09	0.71	1.062	0.75
LTE Band 5	QPSK (10MHz)	Front	20450	829	1	0	24.02	24.50	4.48	0.36	1.117	0.40
					25	0	22.96	23.00	-2.78	0.31	1.009	0.31
		Back	20450	829	1	0	24.02	24.50	-2.22	0.41	1.117	0.46
					25	0	22.96	23.00	1.08	0.34	1.009	0.34
LTE Band 7	QPSK (10MHz)	Front	20850	2510	1	0	23.59	24.00	0.69	0.86	1.099	0.95
					50	0	22.66	23.00	-1.68	0.81	1.081	0.88
		Back	20850	2510	1	0	23.59	24.00	1.97	0.92	1.099	1.01
					50	0	22.66	23.00	3.65	0.85	1.081	0.92
			21100	2535	1	0	23.25	23.50	2.68	0.83	1.059	0.88
					1	0	23.23	23.50	1.45	0.78	1.064	0.83
LTE Band 12	QPSK (10MHz)	Front	23060	704	1	25	24.07	24.50	3.14	0.30	1.104	0.33
					25	0	23.03	23.50	-2.64	0.25	1.114	0.28
		Back	23060	704	1	25	24.07	24.50	-3.43	0.34	1.104	0.38
					25	0	23.03	23.50	1.97	0.30	1.114	0.33
LTE Band 13	QPSK (10MHz)	Front	23230	782	1	25	23.85	24.00	3.29	0.23	1.035	0.24
					25	13	22.92	23.00	2.89	0.19	1.019	0.19
		Back	23230	782	1	25	23.85	24.00	-1.82	0.27	1.035	0.28
					25	13	22.92	23.00	-4.11	0.21	1.019	0.21

LTE Band 17	QPSK (10MHz)	Front	23780	709	1	0	23.93	24.00	2.64	0.27	1.016	0.27
					25	0	22.95	23.00	4.82	0.23	1.012	0.23
		Back	23780	709	1	0	23.93	24.00	-4.37	0.32	1.016	0.33
					25	0	22.95	23.00	3.36	0.28	1.012	0.28
LTE Band 25	QPSK (20MHz)	Front	26140	1860	1	0	24.01	24.50	-2.11	0.78	1.119	0.87
					50	25	22.92	23.00	1.03	0.73	1.019	0.74
		Back	26140	1860	1	0	24.01	24.50	-1.03	0.85	1.119	0.95
					50	25	22.92	23.00	3.00	0.80	1.019	0.82
			26365	1882.5	1	0	23.76	24.00	1.89	0.78	1.057	0.82
			26590	1905	1	0	23.74	24.00	-2.13	0.75	1.062	0.80
		Front	41490	2680	1	0	23.48	23.50	-2.36	0.42	1.005	0.42
					50	0	22.22	22.50	1.17	0.36	1.067	0.38
LTE Band 41 (HPUE)	QPSK (20MHz)	Back	41490	2680	1	0	23.48	23.50	2.23	0.47	1.005	0.47
					50	0	22.22	22.50	0.12	0.41	1.067	0.44
LTE Band 66	QPSK (20MHz)	Front	132072	1720	1	50	23.86	24.00	1.77	0.96	1.033	0.99
					50	25	22.76	23.00	-3.46	0.91	1.057	0.96
		Back	132072	1720	1	50	23.86	24.00	-3.52	1.04	1.033	1.07
					50	25	22.76	23.00	0.26	0.95	1.057	1.00
			132322	1745	1	50	23.51	24.00	1.57	0.88	1.119	0.98
			132572	1770	1	50	23.57	24.00	-2.44	0.92	1.104	1.02
LTE Band 71	QPSK (20MHz)	Front	133322	683	1	0	24.51	25.00	1.62	0.31	1.119	0.35
					50	0	23.37	23.50	-3.78	0.26	1.030	0.27
		Back	133322	683	1	0	24.51	25.00	-2.88	0.36	1.119	0.40
					50	0	23.37	23.50	1.51	0.32	1.030	0.33

Note:

1. Per KDB447498 D04, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8\text{W/kg}$, other channels SAR testing is not necessary.
2. Per KDB447498 D04, body-worn use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
3. Per KDB447498 D04, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor = $10^{\frac{\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)}}{10}}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg) = Measured SAR (W/kg) * Scaling Factor.
4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is $\geq 1.45\text{W/kg}$.
5. Perform a second measurement only if the original, first and second repeated measurement is $\geq 1.5\text{W/kg}$ and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20 .

10.3. Hotspot 1g SAR Data

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
GSM850	GPRS 3 slots	Front	128	824.2	28.61	29.00	1.15	0.40	1.094	0.44	1.60
		Back	128	824.2	28.61	29.00	-2.29	0.44	1.094	0.48	
		Left	128	824.2	28.61	29.00	-4.12	0.26	1.094	0.28	
		Bottom	128	824.2	28.61	29.00	0.27	0.35	1.094	0.38	
GSM1900	GPRS 3 slots	Front	661	1880.0	25.88	26.00	0.73	0.47	1.028	0.48	
		Back	661	1880.0	25.88	26.00	-2.24	0.52	1.028	0.53	
		Left	661	1880.0	25.88	26.00	-4.12	0.37	1.028	0.38	
		Bottom	661	1880.0	25.88	26.00	-0.47	0.42	1.028	0.43	
WCDMA Band II	RMC	Front	9262	1852.4	23.01	23.50	1.47	0.81	1.119	0.91	
		Back	9262	1852.4	23.01	23.50	-1.84	0.88	1.119	0.98	
		Back	9400	1880	22.82	23.00	2.66	0.81	1.042	0.84	
		Back	9538	1907.6	22.72	23.00	-3.08	0.75	1.067	0.80	
		Left	9262	1852.4	23.01	23.50	-2.59	0.72	1.119	0.81	
		Bottom	9262	1852.4	23.01	23.50	-0.45	0.76	1.119	0.85	
WCDMA Band IV	RMC	Front	1312	1712.4	22.69	23.00	0.53	0.36	1.074	0.39	
		Back	1312	1712.4	22.69	23.00	-1.72	0.41	1.074	0.44	
		Left	1312	1712.4	22.69	23.00	-2.04	0.26	1.074	0.28	
		Bottom	1312	1712.4	22.69	23.00	-1.12	0.31	1.074	0.33	
WCDMA Band V	RMC	Front	4183	836.6	23.07	23.50	0.63	0.27	1.104	0.30	
		Back	4183	836.6	23.07	23.50	-2.15	0.31	1.104	0.34	
		Left	4183	836.6	23.07	23.50	-2.20	0.19	1.104	0.21	
		Bottom	4183	836.6	23.07	23.50	3.84	0.23	1.104	0.25	
2.4G	802.11b	Front	11	2462	17.89	18.00	-0.23	0.18	1.026	0.18	
		Back	11	2462	17.89	18.00	-2.54	0.21	1.026	0.22	
		Right	11	2462	17.89	18.00	3.98	0.11	1.026	0.11	
		Top	11	2462	17.89	18.00	3.33	0.15	1.026	0.15	

Band	Mode	Test Position with 10mm	CH.	Freq. (MHz)	RB allocation	RB offset	Ave. Power (dBm)	Tune-Up Limit (dBm)	Power Drift (%)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)
LTE Band 2	QPSK (20MHz)	Front	18900	1880	1	50	24.02	24.50	2.19	0.62	1.117	0.69
					50	0	22.85	23.00	3.10	0.58	1.035	0.60
		Back	18900	1880	1	50	24.02	24.50	-1.48	0.66	1.117	0.74
					50	0	22.85	23.00	-1.38	0.63	1.035	0.65
		Left	18900	1880	1	50	24.02	24.50	-1.40	0.55	1.117	0.61
					50	0	22.85	23.00	0.51	0.50	1.035	0.52
		Top	18900	1880	1	50	24.02	24.50	-2.99	0.57	1.117	0.64
					50	0	22.85	23.00	-2.73	0.53	1.035	0.55
LTE Band 4	QPSK (20MHz)	Front	20175	1732.5	1	50	23.91	24.00	-1.21	0.58	1.021	0.59
					50	0	22.74	23.00	-0.84	0.55	1.062	0.58
		Back	20175	1732.5	1	50	23.91	24.00	2.36	0.62	1.021	0.63
					50	0	22.74	23.00	-1.27	0.59	1.062	0.63
		Left	20175	1732.5	1	50	23.91	24.00	-1.76	0.53	1.021	0.54
					50	0	22.74	23.00	0.93	0.49	1.062	0.52
		Top	20175	1732.5	1	50	23.91	24.00	-3.36	0.56	1.021	0.57
					50	0	22.74	23.00	-3.38	0.52	1.062	0.55
LTE Band 5	QPSK (10MHz)	Front	20450	829	1	0	24.02	24.50	-1.82	0.31	1.117	0.35
					25	0	22.96	23.00	-0.46	0.29	1.009	0.29
		Back	20450	829	1	0	24.02	24.50	-1.99	0.34	1.117	0.38
					25	0	22.96	23.00	-1.14	0.31	1.009	0.31
		Left	20450	829	1	0	24.02	24.50	-1.39	0.25	1.117	0.28
					25	0	22.96	23.00	0.44	0.21	1.009	0.21
		Top	20450	829	1	0	24.02	24.50	-2.79	0.27	1.117	0.30
					25	0	22.96	23.00	-1.43	0.24	1.009	0.24
LTE Band 7	QPSK (20MHz)	Front	20850	2510	1	0	23.59	24.00	3.11	0.52	1.099	0.57
					50	0	22.66	23.00	-2.61	0.49	1.081	0.53
		Back	20850	2510	1	0	23.59	24.00	0.94	0.57	1.099	0.63
					50	0	22.66	23.00	-1.50	0.53	1.081	0.57
		Left	20850	2510	1	0	23.59	24.00	-1.64	0.46	1.099	0.51
					50	0	22.66	23.00	0.58	0.42	1.081	0.45
		Top	20850	2510	1	0	23.59	24.00	-2.94	0.50	1.099	0.55
					50	0	22.66	23.00	-1.75	0.46	1.081	0.50

LTE Band 12	QPSK (10MHz)	Front	23060	704	1	25	24.07	24.50	3.00	0.28	1.104	0.31
					25	0	23.03	23.50	-2.96	0.24	1.114	0.27
		Back	23060	704	1	25	24.07	24.50	-3.13	0.31	1.104	0.34
					25	0	23.03	23.50	-0.84	0.27	1.114	0.30
		Left	23060	704	1	25	24.07	24.50	-1.92	0.20	1.104	0.22
					25	0	23.03	23.50	0.39	0.17	1.114	0.19
		Top	23060	704	1	25	24.07	24.50	-2.83	0.22	1.104	0.24
					25	0	23.03	23.50	-4.10	0.19	1.114	0.21
LTE Band 13	QPSK (10MHz)	Front	23230	782	1	25	23.85	24.00	1.21	0.21	1.035	0.22
					25	13	22.92	23.00	2.65	0.18	1.019	0.18
		Back	23230	782	1	25	23.85	24.00	0.99	0.24	1.035	0.25
					25	13	22.92	23.00	-2.30	0.20	1.019	0.20
		Left	23230	782	1	25	23.85	24.00	1.84	0.15	1.035	0.16
					25	13	22.92	23.00	-3.99	0.12	1.019	0.12
		Top	23230	782	1	25	23.85	24.00	-0.52	0.17	1.035	0.18
					25	13	22.92	23.00	-2.34	0.14	1.019	0.14
LTE Band 17	QPSK (10MHz)	Front	23780	709	1	0	23.93	24.00	-1.94	0.27	1.016	0.27
					25	0	22.95	23.00	2.09	0.23	1.012	0.23
		Back	23780	709	1	0	23.93	24.00	-4.13	0.30	1.016	0.30
					25	0	22.95	23.00	-0.73	0.26	1.012	0.26
		Left	23780	709	1	0	23.93	24.00	-2.27	0.20	1.016	0.20
					25	0	22.95	23.00	1.81	0.17	1.012	0.17
		Top	23780	709	1	0	23.93	24.00	-3.20	0.24	1.016	0.24
					25	0	22.95	23.00	-4.75	0.21	1.012	0.21
LTE Band 25	QPSK (20MHz)	Front	26140	1860	1	0	24.01	24.50	-2.66	0.42	1.119	0.47
					50	25	22.92	23.00	-1.06	0.39	1.019	0.40
		Back	26140	1860	1	0	24.01	24.50	1.20	0.46	1.119	0.51
					50	25	22.92	23.00	-1.38	0.43	1.019	0.44
		Left	26140	1860	1	0	24.01	24.50	-2.88	0.36	1.119	0.40
					50	25	22.92	23.00	1.19	0.31	1.019	0.32
		Top	26140	1860	1	0	24.01	24.50	-3.32	0.39	1.119	0.44
					50	25	22.92	23.00	-1.61	0.35	1.019	0.36

LTE Band 41	QPSK (20MHz)	Front	41490	2680	1	0	23.48	23.50	-1.50	0.30	1.005	0.30
					50	0	22.22	22.50	-1.08	0.26	1.067	0.28
		Back	41490	2680	1	0	23.48	23.50	-3.01	0.34	1.005	0.34
					50	0	22.22	22.50	-1.42	0.31	1.067	0.33
		Left	41490	2680	1	0	23.48	23.50	-2.08	0.24	1.005	0.24
					50	0	22.22	22.50	0.35	0.21	1.067	0.22
		Top	41490	2680	1	0	23.48	23.50	-4.08	0.27	1.005	0.27
					50	0	22.22	22.50	-1.49	0.23	1.067	0.25
		Front	132072	1720	1	50	23.86	24.00	-1.74	0.85	1.033	0.88
					50	25	22.76	23.00	-0.31	0.80	1.057	0.85
LTE Band 66	QPSK (20MHz)	Back	132072	1720	1	50	23.86	24.00	-0.24	0.96	1.033	0.99
					50	25	22.76	23.00	-1.70	0.91	1.057	0.96
			132322	1745	1	50	23.51	24.00	3.26	0.83	1.119	0.93
					1	50	23.57	24.00	1.81	0.85	1.104	0.94
		Left	132072	1720	1	50	23.86	24.00	-2.27	0.77	1.033	0.80
					50	25	22.76	23.00	0.46	0.82	1.057	0.87
		Top	132072	1720	1	50	23.86	24.00	-4.40	0.81	1.033	0.84
					50	25	22.76	23.00	-2.07	0.76	1.057	0.80
		Front	133322	683	1	0	24.51	25.00	-2.22	0.27	1.119	0.30
					50	0	23.37	23.50	-1.31	0.24	1.030	0.25
LTE Band 71	QPSK (20MHz)	Back	133322	683	1	0	24.51	25.00	-3.14	0.29	1.119	0.32
					50	0	23.37	23.50	-1.48	0.27	1.030	0.28
		Left	133322	683	1	0	24.51	25.00	-2.23	0.22	1.119	0.25
					50	0	23.37	23.50	0.59	0.19	1.030	0.20
		Top	133322	683	1	0	24.51	25.00	-3.94	0.24	1.119	0.27
					50	0	23.37	23.50	-2.60	0.21	1.030	0.22

Note:

- Per KDB447498 D04, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8W/kg$, other channels SAR testing is not necessary.
- Per KDB447498 D04, body-worn with hotspot use is evaluated with the device positioned at 10 mm from a flat phantom filled with head tissue-equivalent medium.
- Per KDB447498 D04, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor = $10^{[(\text{tune-up limit power(dBm)} - \text{Ave. power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg) = Measured SAR (W/kg) * Scaling Factor.
- Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is $\geq 1.45W/kg$.
- Perform a second measurement only if the original, first and second repeated measurement is $\geq 1.5W/kg$ and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20 .

10.4. Simultaneous Transmission Conclusion

Multi-Band Simultaneous Transmission Considerations

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be transmitting simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds. Possible transmission paths for the EUT are shown in below Figure and are color-coded to indicate communication modes which share the same path. Modes which share the same transmission path cannot transmit simultaneously with one another.



Simultaneous Transmission Possibilities

The Simultaneous Transmission Possibilities of this device are as below:

NO.	Configuration	Head	Body-Worn	Hotspot
1	GSM850/1900(Voice)+WIFI(2.4G)	YES	YES	NO
2	GPRS 850/1900(DATA)+WIFI(2.4)	NO	YES	YES
3	WCDMA+ WIFI(2.4)	YES	YES	YES
4	LTE+WIFI(2.4)	YES	YES	YES
5	GSM850/1900(Voice)+BT	YES	YES	NO
6	GPRS/EDGE 850/1900(DATA)+BT	YES	YES	NO
7	WCDMA+ BT	YES	YES	NO
8	LTE+BT	YES	YES	NO

10.5. SAR Simultaneous Transmission Analysis

Band	Test Position	Scaled SAR			Σ SAR (W/kg)	SPLSR	Remark
		Head	WIFI2.4G	BT			
GSM850 (voice)	Left Cheek	0.55	0.21	0.08	0.76	N/A	N/A
	Left Tilt	0.28	0.11	0.04	0.39	N/A	N/A
	Right Cheek	0.53	0.18	0.07	0.71	N/A	N/A
	Right Tilt	0.25	0.09	0.03	0.34	N/A	N/A
GSM1900 (voice)	Left Cheek	0.26	0.21	0.08	0.47	N/A	N/A
	Left Tilt	0.13	0.11	0.04	0.24	N/A	N/A
	Right Cheek	0.24	0.18	0.07	0.42	N/A	N/A
	Right Tilt	0.11	0.09	0.03	0.20	N/A	N/A
WCDMA Band II	Left Cheek	0.15	0.21	0.08	0.36	N/A	N/A
	Left Tilt	0.08	0.11	0.04	0.19	N/A	N/A
	Right Cheek	0.12	0.18	0.07	0.30	N/A	N/A
	Right Tilt	0.07	0.09	0.03	0.16	N/A	N/A
WCDMA Band IV	Left Cheek	0.29	0.21	0.08	0.50	N/A	N/A
	Left Tilt	0.15	0.11	0.04	0.26	N/A	N/A
	Right Cheek	0.27	0.18	0.07	0.45	N/A	N/A
	Right Tilt	0.13	0.09	0.03	0.22	N/A	N/A
WCDMA Band V	Left Cheek	0.40	0.21	0.08	0.61	N/A	N/A
	Left Tilt	0.21	0.11	0.04	0.32	N/A	N/A
	Right Cheek	0.38	0.18	0.07	0.56	N/A	N/A
	Right Tilt	0.19	0.09	0.03	0.28	N/A	N/A

Band	Test Position	RB allocation	Scaled			Σ SAR (W/kg)	SPLSR	Remark
			Head	WIFI 2.4G	Bluetooth			
LTE Band 2 QPSK (20MHz)	Right Cheek	1	0.64	0.18	0.07	0.82	N/A	N/A
		50	0.53	0.18	0.07	0.71	N/A	N/A
	Right Tilt	1	0.31	0.09	0.03	0.40	N/A	N/A
		50	0.25	0.09	0.03	0.34	N/A	N/A
	Left Cheek	1	0.66	0.21	0.08	0.87	N/A	N/A
		50	0.55	0.21	0.08	0.76	N/A	N/A
	Left Tilt	1	0.34	0.11	0.04	0.45	N/A	N/A
		50	0.27	0.11	0.04	0.38	N/A	N/A
LTE Band 4 QPSK (20MHz)	Right Cheek	1	0.61	0.18	0.07	0.79	N/A	N/A
		50	0.30	0.18	0.07	0.48	N/A	N/A
	Right Tilt	1	0.58	0.09	0.03	0.67	N/A	N/A
		50	0.27	0.09	0.03	0.36	N/A	N/A
	Left Cheek	1	0.66	0.21	0.08	0.87	N/A	N/A
		50	0.34	0.21	0.08	0.55	N/A	N/A
	Left Tilt	1	0.62	0.11	0.04	0.73	N/A	N/A
		50	0.32	0.11	0.04	0.43	N/A	N/A

LTE Band 5 QPSK (10MHz)	Right Cheek	1	0.57	0.18	0.07	0.75	N/A	N/A
		25	0.26	0.18	0.07	0.44	N/A	N/A
	Right Tilt	1	0.54	0.09	0.03	0.63	N/A	N/A
		25	0.23	0.09	0.03	0.32	N/A	N/A
	Left Cheek	1	0.64	0.21	0.08	0.85	N/A	N/A
		25	0.31	0.21	0.08	0.52	N/A	N/A
	Left Tilt	1	0.60	0.11	0.04	0.71	N/A	N/A
		25	0.28	0.11	0.04	0.39	N/A	N/A
LTE Band 7 QPSK (20MHz)	Right Cheek	1	0.70	0.18	0.07	0.88	N/A	N/A
		50	0.65	0.18	0.07	0.83	N/A	N/A
	Right Tilt	1	0.34	0.09	0.03	0.43	N/A	N/A
		50	0.29	0.09	0.03	0.38	N/A	N/A
	Left Cheek	1	0.71	0.21	0.08	0.92	N/A	N/A
		50	0.68	0.21	0.08	0.89	N/A	N/A
	Left Tilt	1	0.38	0.11	0.04	0.49	N/A	N/A
		50	0.35	0.11	0.04	0.46	N/A	N/A
LTE Band 12 QPSK (10MHz)	Right Cheek	1	0.41	0.18	0.07	0.59	N/A	N/A
		25	0.21	0.18	0.07	0.39	N/A	N/A
	Right Tilt	1	0.36	0.09	0.03	0.45	N/A	N/A
		25	0.18	0.09	0.03	0.27	N/A	N/A
	Left Cheek	1	0.44	0.21	0.08	0.65	N/A	N/A
		25	0.23	0.21	0.08	0.44	N/A	N/A
	Left Tilt	1	0.40	0.11	0.04	0.51	N/A	N/A
		25	0.20	0.11	0.04	0.31	N/A	N/A
LTE Band 13 QPSK (15MHz)	Right Cheek	1	0.24	0.18	0.07	0.42	N/A	N/A
		25	0.10	0.18	0.07	0.28	N/A	N/A
	Right Tilt	1	0.20	0.09	0.03	0.29	N/A	N/A
		25	0.08	0.09	0.03	0.17	N/A	N/A
	Left Cheek	1	0.27	0.21	0.08	0.48	N/A	N/A
		25	0.14	0.21	0.08	0.35	N/A	N/A
	Left Tilt	1	0.23	0.11	0.04	0.34	N/A	N/A
		25	0.11	0.11	0.04	0.22	N/A	N/A
LTE Band 17 QPSK (10MHz)	Right Cheek	1	0.23	0.18	0.07	0.41	N/A	N/A
		25	0.11	0.18	0.07	0.29	N/A	N/A
	Right Tilt	1	0.20	0.09	0.03	0.29	N/A	N/A
		25	0.08	0.09	0.03	0.17	N/A	N/A
	Left Cheek	1	0.26	0.21	0.08	0.47	N/A	N/A
		25	0.14	0.21	0.08	0.35	N/A	N/A
	Left Tilt	1	0.23	0.11	0.04	0.34	N/A	N/A
		25	0.11	0.11	0.04	0.22	N/A	N/A

LTE Band 25 QPSK (20MHz)	Right Cheek	1	0.51	0.18	0.07	0.69	N/A	N/A
		37	0.22	0.18	0.07	0.40	N/A	N/A
	Right Tilt	1	0.47	0.09	0.03	0.56	N/A	N/A
		37	0.20	0.09	0.03	0.29	N/A	N/A
	Left Cheek	1	0.56	0.21	0.08	0.77	N/A	N/A
		37	0.26	0.21	0.08	0.47	N/A	N/A
	Left Tilt	1	0.53	0.11	0.04	0.64	N/A	N/A
		37	0.24	0.11	0.04	0.35	N/A	N/A
LTE Band 41(HPUE) QPSK (20MHz)	Right Cheek	1	0.28	0.18	0.07	0.46	N/A	N/A
		50	0.15	0.18	0.07	0.33	N/A	N/A
	Right Tilt	1	0.25	0.09	0.03	0.34	N/A	N/A
		50	0.13	0.09	0.03	0.22	N/A	N/A
	Left Cheek	1	0.31	0.21	0.08	0.52	N/A	N/A
		50	0.18	0.21	0.08	0.39	N/A	N/A
	Left Tilt	1	0.28	0.11	0.04	0.39	N/A	N/A
		50	0.16	0.11	0.04	0.27	N/A	N/A
LTE Band 66 QPSK (20MHz)	Right Cheek	1	0.65	0.18	0.07	0.83	N/A	N/A
		50	0.33	0.18	0.07	0.51	N/A	N/A
	Right Tilt	1	0.61	0.09	0.03	0.70	N/A	N/A
		50	0.29	0.09	0.03	0.38	N/A	N/A
	Left Cheek	1	0.72	0.21	0.08	0.93	N/A	N/A
		50	0.37	0.21	0.08	0.58	N/A	N/A
	Left Tilt	1	0.66	0.11	0.04	0.77	N/A	N/A
		50	0.34	0.11	0.04	0.45	N/A	N/A
LTE Band 71 QPSK (20MHz)	Right Cheek	1	0.19	0.18	0.07	0.37	N/A	N/A
		50	0.09	0.18	0.07	0.27	N/A	N/A
	Right Tilt	1	0.17	0.09	0.03	0.26	N/A	N/A
		50	0.07	0.09	0.03	0.16	N/A	N/A
	Left Cheek	1	0.23	0.21	0.08	0.44	N/A	N/A
		50	0.12	0.21	0.08	0.33	N/A	N/A
	Left Tilt	1	0.21	0.11	0.04	0.32	N/A	N/A
		50	0.10	0.11	0.04	0.21	N/A	N/A

Band	Test Position	Scaled SAR			Σ SAR (W/kg)	SPLSR	Remark
		Body-Worn	WIFI2.4G	BT			
GSM850 (voice)	Front	0.38	0.21	0.01	0.59	N/A	N/A
	Back	0.46	0.28	0.02	0.74	N/A	N/A
GSM850 (GPRS 2slot)	Front	0.51	0.21	0.01	0.72	N/A	N/A
	Back	0.58	0.28	0.02	0.86	N/A	N/A
GSM1900 (voice)	Front	0.16	0.21	0.01	0.37	N/A	N/A
	Back	0.22	0.28	0.02	0.50	N/A	N/A
GSM1900 (GPRS 3slot)	Front	0.59	0.21	0.01	0.80	N/A	N/A
	Back	0.65	0.28	0.02	0.93	N/A	N/A
WCDMA Band II	Front	0.98	0.21	0.01	1.19	N/A	N/A
	Back	1.05	0.28	0.02	1.33	N/A	N/A
WCDMA Band IV	Front	0.76	0.21	0.01	0.97	N/A	N/A
	Back	0.83	0.28	0.02	1.11	N/A	N/A
WCDMA Band V	Front	0.29	0.21	0.01	0.50	N/A	N/A
	Back	0.36	0.28	0.02	0.64	N/A	N/A

Band	Test Position	RB allocation	Scaled			Σ SAR (W/kg)	SPLSR	Remark
			Body-Worn	WIFI2.4G	Bluetooth			
LTE Band 2 QPSK (20MHz)	Front	1	0.98	0.21	0.01	1.19	N/A	N/A
		50	0.84	0.21	0.01	1.05	N/A	N/A
	Back	1	0.88	0.28	0.02	1.16	N/A	N/A
		50	0.75	0.28	0.02	1.03	N/A	N/A
LTE Band 4 QPSK (20MHz)	Front	1	0.89	0.21	0.01	1.10	N/A	N/A
		50	0.83	0.21	0.01	1.04	N/A	N/A
	Back	1	0.81	0.28	0.02	1.09	N/A	N/A
		50	0.75	0.28	0.02	1.03	N/A	N/A
LTE Band 5 QPSK (10MHz)	Front	1	0.40	0.21	0.01	0.61	N/A	N/A
		25	0.31	0.21	0.01	0.52	N/A	N/A
	Back	1	0.46	0.28	0.02	0.74	N/A	N/A
		25	0.34	0.28	0.02	0.62	N/A	N/A
LTE Band 7 QPSK (10MHz)	Front	1	0.95	0.21	0.01	1.16	N/A	N/A
		50	0.88	0.21	0.01	1.09	N/A	N/A
	Back	1	1.01	0.28	0.02	1.29	N/A	N/A
		50	0.92	0.28	0.02	1.20	N/A	N/A
LTE Band 12 QPSK (10MHz)	Front	1	0.33	0.21	0.01	0.54	N/A	N/A
		25	0.28	0.21	0.01	0.49	N/A	N/A
	Back	1	0.38	0.28	0.02	0.66	N/A	N/A
		25	0.33	0.28	0.02	0.61	N/A	N/A

LTE Band 13 QPSK (15MHz)	Front	1	0.24	0.21	0.01	0.45	N/A	N/A
		25	0.19	0.21	0.01	0.40	N/A	N/A
	Back	1	0.28	0.28	0.02	0.56	N/A	N/A
		25	0.21	0.28	0.02	0.49	N/A	N/A
LTE Band 17 QPSK (10MHz)	Front	1	0.27	0.21	0.01	0.48	N/A	N/A
		25	0.23	0.21	0.01	0.44	N/A	N/A
	Back	1	0.33	0.28	0.02	0.61	N/A	N/A
		25	0.28	0.28	0.02	0.56	N/A	N/A
LTE Band 25 QPSK (20MHz)	Front	1	0.87	0.21	0.01	1.08	N/A	N/A
		37	0.74	0.21	0.01	0.95	N/A	N/A
	Back	1	0.95	0.28	0.02	1.23	N/A	N/A
		37	0.82	0.28	0.02	1.10	N/A	N/A
LTE Band 41(HPUE) QPSK (20MHz)	Front	1	0.42	0.21	0.01	0.63	N/A	N/A
		50	0.38	0.21	0.01	0.59	N/A	N/A
	Back	1	0.47	0.28	0.02	0.75	N/A	N/A
		50	0.44	0.28	0.02	0.72	N/A	N/A
LTE Band 66 QPSK (20MHz)	Front	1	0.99	0.21	0.01	1.20	N/A	N/A
		50	0.96	0.21	0.01	1.17	N/A	N/A
	Back	1	1.07	0.28	0.02	1.35	N/A	N/A
		50	1.00	0.28	0.02	1.28	N/A	N/A
LTE Band 71 QPSK (20MHz)	Front	1	0.35	0.21	0.01	0.56	N/A	N/A
		50	0.27	0.21	0.01	0.48	N/A	N/A
	Back	1	0.40	0.28	0.02	0.68	N/A	N/A
		50	0.33	0.28	0.02	0.61	N/A	N/A

Band	Test Position	Scaled SAR		Σ SAR (W/kg)	SPLSR	Remark
		Hotspot	WIFI 2.4G			
GSM850 (GPRS)	Front	0.44	0.18	0.62	N/A	N/A
	Back	0.48	0.22	0.70	N/A	N/A
	Left	0.28	/	0.28	N/A	N/A
	Right	/	0.11	0.11	N/A	N/A
	Top	/	0.15	0.15	N/A	N/A
	Bottom	0.38	/	0.38	N/A	N/A
GSM1900 (GPRS)	Front	0.48	0.18	0.66	N/A	N/A
	Back	0.53	0.22	0.75	N/A	N/A
	Left	0.38	/	0.38	N/A	N/A
	Right	/	0.11	0.11	N/A	N/A
	Top	/	0.15	0.15	N/A	N/A
	Bottom	0.43	/	0.43	N/A	N/A
WCDMA Band II	Front	0.91	0.18	1.09	N/A	N/A
	Back	0.98	0.22	1.20	N/A	N/A
	Left	0.81	/	0.81	N/A	N/A
	Right	/	0.11	0.11	N/A	N/A
	Top	/	0.15	0.15	N/A	N/A
	Bottom	0.85	/	0.85	N/A	N/A
WCDMA Band IV	Front	0.39	0.18	0.57	N/A	N/A
	Back	0.44	0.22	0.66	N/A	N/A
	Left	0.28	/	0.28	N/A	N/A
	Right	/	0.11	0.11	N/A	N/A
	Top	/	0.15	0.15	N/A	N/A
	Bottom	0.33	/	0.33	N/A	N/A
WCDMA Band V	Front	0.30	0.18	0.48	N/A	N/A
	Back	0.34	0.22	0.56	N/A	N/A
	Left	0.21	/	0.21	N/A	N/A
	Right	/	0.11	0.11	N/A	N/A
	Top	/	0.15	0.15	N/A	N/A
	Bottom	0.25	/	0.25	N/A	N/A

Band	Test Position	RB allocation	Scaled		Σ SAR (W/kg)	SPLSR	Remark
			Hotspot	WIFI2.4G			
LTE Band 2 QPSK (20MHz)	Front	1	0.69	0.18	0.87	N/A	N/A
		50	0.60	0.18	0.78	N/A	N/A
	Back	1	0.74	0.22	0.96	N/A	N/A
		50	0.65	0.22	0.87	N/A	N/A
	Left	1	0.61	/	0.61	N/A	N/A
		50	0.52	/	0.52	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		50	/	0.11	0.11	N/A	N/A
	Top	1	0.64	0.15	0.79	N/A	N/A
		50	0.55	0.15	0.70	N/A	N/A
LTE Band 4 QPSK (20MHz)	Front	1	0.59	0.18	0.77	N/A	N/A
		50	0.58	0.18	0.76	N/A	N/A
	Back	1	0.63	0.22	0.85	N/A	N/A
		50	0.63	0.22	0.85	N/A	N/A
	Left	1	0.54	/	0.54	N/A	N/A
		50	0.52	/	0.52	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		50	/	0.11	0.11	N/A	N/A
	Top	1	0.57	0.15	0.72	N/A	N/A
		50	0.55	0.15	0.70	N/A	N/A
LTE Band 5 QPSK (10MHz)	Front	1	0.35	0.18	0.53	N/A	N/A
		25	0.29	0.18	0.47	N/A	N/A
	Back	1	0.38	0.22	0.60	N/A	N/A
		25	0.31	0.22	0.53	N/A	N/A
	Left	1	0.28	/	0.28	N/A	N/A
		25	0.21	/	0.21	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		25	/	0.11	0.11	N/A	N/A
	Top	1	0.30	0.15	0.45	N/A	N/A
		25	0.24	0.15	0.39	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		25	/	/	/	N/A	N/A

LTE Band 7 QPSK (20MHz)	Front	1	0.57	0.18	0.57	N/A	N/A
		50	0.53	0.18	0.71	N/A	N/A
	Back	1	0.63	0.22	0.85	N/A	N/A
		50	0.57	0.22	0.79	N/A	N/A
	Left	1	0.51	/	0.51	N/A	N/A
		50	0.45	/	0.45	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		50	/	0.11	0.11	N/A	N/A
	Top	1	0.55	0.15	0.70	N/A	N/A
		50	0.50	0.15	0.65	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		50	/	/	/	N/A	N/A
LTE Band 12 QPSK (10MHz)	Front	1	0.31	0.18	0.49	N/A	N/A
		25	0.27	0.18	0.45	N/A	N/A
	Back	1	0.34	0.22	0.56	N/A	N/A
		25	0.30	0.22	0.52	N/A	N/A
	Left	1	0.22	/	0.22	N/A	N/A
		25	0.19	/	0.19	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		25	/	0.11	0.11	N/A	N/A
	Top	1	0.24	0.15	0.39	N/A	N/A
		25	0.21	0.15	0.36	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		25	/	/	/	N/A	N/A
LTE Band 13 QPSK (15MHz)	Front	1	0.22	0.18	0.40	N/A	N/A
		25	0.18	0.18	0.36	N/A	N/A
	Back	1	0.25	0.22	0.47	N/A	N/A
		25	0.20	0.22	0.42	N/A	N/A
	Left	1	0.16	/	0.16	N/A	N/A
		25	0.12	/	0.12	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		25	/	0.11	0.11	N/A	N/A
	Top	1	0.18	0.15	0.33	N/A	N/A
		25	0.14	0.15	0.29	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		25	/	/	/	N/A	N/A

LTE Band 17 QPSK (10MHz)	Front	1	0.27	0.18	0.45	N/A	N/A
		25	0.23	0.18	0.41	N/A	N/A
	Back	1	0.30	0.22	0.52	N/A	N/A
		25	0.26	0.22	0.48	N/A	N/A
	Left	1	0.20	/	0.20	N/A	N/A
		25	0.17	/	0.17	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		25	/	0.11	0.11	N/A	N/A
	Top	1	0.24	0.15	0.39	N/A	N/A
		25	0.21	0.15	0.36	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		25	/	/	/	N/A	N/A
LTE Band 25 QPSK (20MHz)	Front	1	0.47	0.18	0.65	N/A	N/A
		37	0.40	0.18	0.58	N/A	N/A
	Back	1	0.51	0.22	0.73	N/A	N/A
		37	0.44	0.22	0.66	N/A	N/A
	Left	1	0.40	/	0.40	N/A	N/A
		25	0.32	/	0.32	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		25	/	0.11	0.11	N/A	N/A
	Top	1	0.44	0.15	0.59	N/A	N/A
		25	0.36	0.15	0.51	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		37	/	/	/	N/A	N/A
LTE Band41 QPSK (20MHz)	Front	1	0.30	0.18	0.48	N/A	N/A
		50	0.28	0.18	0.46	N/A	N/A
	Back	1	0.34	0.22	0.56	N/A	N/A
		50	0.33	0.22	0.55	N/A	N/A
	Left	1	0.24	/	0.24	N/A	N/A
		50	0.22	/	0.22	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		38	/	0.11	0.11	N/A	N/A
	Top	1	0.27	0.15	0.42	N/A	N/A
		38	0.25	0.15	0.40	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		50	/	/	/	N/A	N/A

LTE Band66 QPSK (20MHz)	Front	1	0.88	0.18	1.06	N/A	N/A
		50	0.85	0.18	1.03	N/A	N/A
	Back	1	0.99	0.22	1.21	N/A	N/A
		50	0.96	0.22	1.18	N/A	N/A
	Left	1	0.80	/	0.80	N/A	N/A
		50	0.87	/	0.87	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		38	/	0.11	0.11	N/A	N/A
	Top	1	0.84	0.15	0.99	N/A	N/A
		38	0.80	0.15	0.95	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		50	/	/	/	N/A	N/A
LTE Band71 QPSK (20MHz)	Front	1	0.30	0.18	0.48	N/A	N/A
		50	0.25	0.18	0.43	N/A	N/A
	Back	1	0.32	0.22	0.54	N/A	N/A
		50	0.28	0.22	0.50	N/A	N/A
	Left	1	0.25	/	0.25	N/A	N/A
		50	0.20	/	0.20	N/A	N/A
	Right	1	/	0.11	0.11	N/A	N/A
		50	/	0.11	0.11	N/A	N/A
	Top	1	0.27	0.15	0.42	N/A	N/A
		50	0.22	0.15	0.37	N/A	N/A
	Bottom	1	/	/	/	N/A	N/A
		50	/	/	/	N/A	N/A

Simultaneous Transmission Conclusion

The above numerical summed SAR results for all the case simultaneous transmission conditions were below the SAR limit. Therefore, the above analysis is sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore measured volumetric simultaneous SAR summation is not required per FCC KDB Publication 447498 D01v06

10.6. Measurement Uncertainty (150MHz-6GHz)

Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	v
Measurement system									
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)1/2$	$(1-C_p)1/2$	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	3.00	3.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Test sample related									
Test sample positioning	7.2.2.4.4	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	7.2.2.4.2 7.2.2.4.3	3	N	1	1	1	3.00	3.00	∞
output power variation-SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
SAR scaling	7.2.5	2	R	$\sqrt{3}$	1	1	1.15	1.15	∞
Phantom and tissue parameters									
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	∞
Combined standard uncertainty			RSS				10.83	10.54	
Expanded uncertainty (95%CONFIDENCEINTERVAL)			k				21.26	21.08	

UNCERTAINTY FOR PERFORMANCE CHECK

Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	v
Measurement system									
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)1/2$	$(1-C_p)1/2$	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	∞
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Modulation Response	7.2.1.3	3	N	1	1	1	0.00	0.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Dipole									
Deviation of experimental source from numerical source		4	N	1	1	1	4.00	4.00	∞
Input power and SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance		2	R	$\sqrt{3}$	1	1			∞
Phantom and tissue parameters									
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	∞
Combined standard uncertainty			RSS				10.15	10.05	
Expanded uncertainty (95%CONFIDENCEINTE RVAL			k				20.29	20.10	

10.7. Test Equipment List

Test Equipment	Manufacturer	Model	Serial Number	Calibration	
				Calibration Date (D.M.Y)	Calibration Due (D.M.Y)
PC	Lenovo	H3050	N/A	N/A	N/A
Signal Generator	Angilent	N5182A	MY47070282	Jun. 27, 2024	Jun. 26, 2025
Multimeter	Keithley	Multimeter 2000	4078275	Jun. 27, 2024	Jun. 26, 2025
Network Analyzer	Agilent	8753E	US38432457	Jun. 27, 2024	Jun. 26, 2025
Wideband Radio Communication Tester	R&S	CMW500	114220	Jun. 27, 2024	Jun. 26, 2025
Power Meter	Agilent	E4418B	GB43312526	Jun. 27, 2024	Jun. 26, 2025
Power Meter	Agilent	E4416A	MY45101555	Jun. 27, 2024	Jun. 26, 2025
Power Meter	Agilent	N1912A	MY50001018	Jun. 27, 2024	Jun. 26, 2025
Power Sensor	Agilent	E9301A	MY41497725	Jun. 27, 2024	Jun. 26, 2025
Power Sensor	Agilent	E9327A	MY44421198	Jun. 27, 2024	Jun. 26, 2025
Power Sensor	Agilent	E9323A	MY53070005	Jun. 27, 2024	Jun. 26, 2025
Power Amplifier	PE	PE15A4019	112342	N/A	N/A
Directional Coupler	Agilent	722D	MY52180104	N/A	N/A
Attenuator	Chensheng	FF779	134251	N/A	N/A
E-Field PROBE	MVG	SSE2	SN 25/22 EPGO375	Jun. 29, 2024	Jun. 28, 2025
DIPOLE 750	MVG	SID750	SN 16/15 DIP 0G750-368	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 835	MVG	SID835	SN 16/15 DIP 0G835-369	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 1800	MVG	SID 1800	SN 16/15 DIP 1G800-371	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 1900	MVG	SID1900	SN 16/15 DIP 1G900-372	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 2450	MVG	SID 2450	SN 16/15 DIP 2G450-374	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 2600	MVG	SID 2600	SN 16/15 DIP 2G600-375	Jun. 05, 2024	Jun. 04, 2027
DIPOLE 5G	MVG	SID 5G	SN 13/14 WGA32	May. 15, 2024	May. 14, 2025
Limesar Dielectric Probe	MVG	SCLMP	SN 19/15 OCPG71	Jun. 05, 2024	Jun. 04, 2027
Communication Antenna	MVG	ANTA59	SN 39/14 ANTA59	N/A	N/A
Mobile Phone Position Device	MVG	MSH101	SN 19/15 MSH101	N/A	N/A
Dummy Probe	MVG	DP66	SN 13/15 DP66	N/A	N/A
SAM PHANTOM	MVG	SAM120	SN 19/15 SAM120	N/A	N/A
PHANTOM TABLE	MVG	TABP101	SN 19/15 TABP101	N/A	N/A
Robot TABLE	MVG	TABP61	SN 19/15 TABP61	N/A	N/A
6 AXIS ROBOT	KUKA	KR6-R900	501822	N/A	N/A

Note:1.N/A means this equipment no need to calibrate

2.Each Time means this device need to calibrate every use time

3. The dipole was not damaged properly repaired.

4. The measured SAR deviates from the calibrated SAR value by less than 10%

5. The most recent return-loss result meets the required 20 dB minimum return-loss requirement

6. The most recent measurement of the real or imaginary parts of the impedance deviates by less than 5 Ω from the previous measurement.

11. System Check Results

Date of measurement: 12/05/2024 Test mode: 750 (Head)

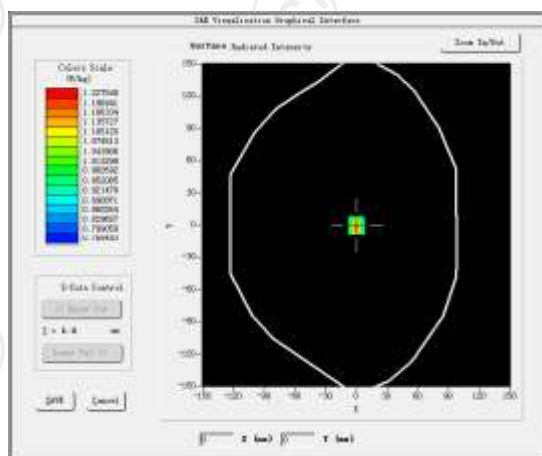
Product Description: Validation

Dipole Model: SID750

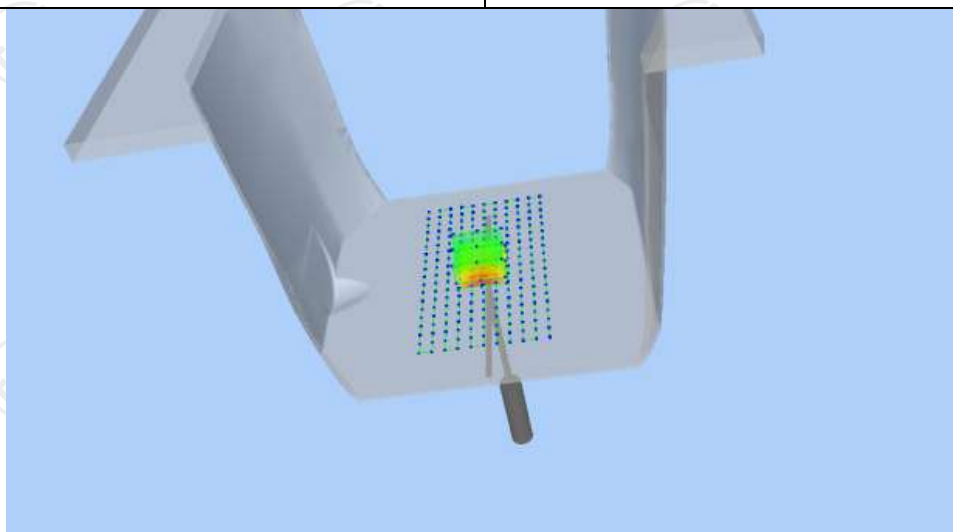
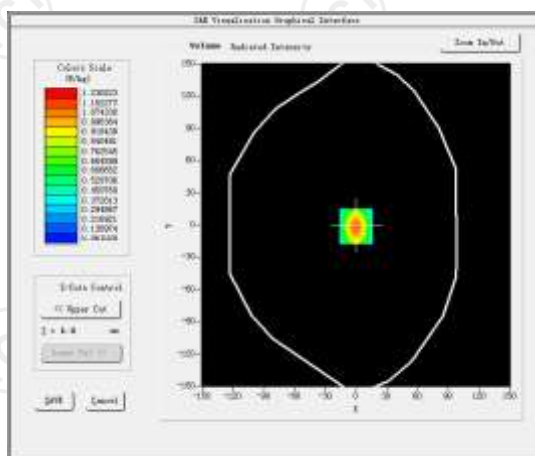
E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	1.71
Frequency (MHz)	750.000000
Relative permittivity (real part)	42.071129
Relative permittivity (imaginary part)	21.835926
Conductivity (S/m)	0.902358
Variation (%)	-1.200000
SAR 10g (W/Kg)	0.540325
SAR 1g (W/Kg)	0.882659

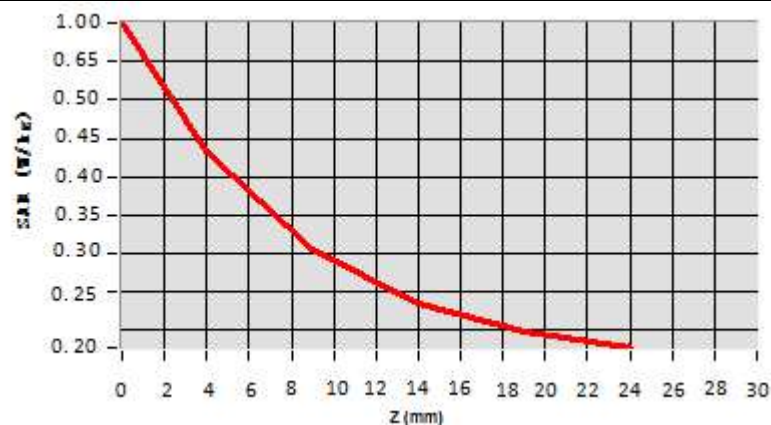
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.0019	0.4385	0.3028	0.2311	0.2213



Hot spot position



Date of measurement: 12/10/2024 Test mode: 835 (Head)

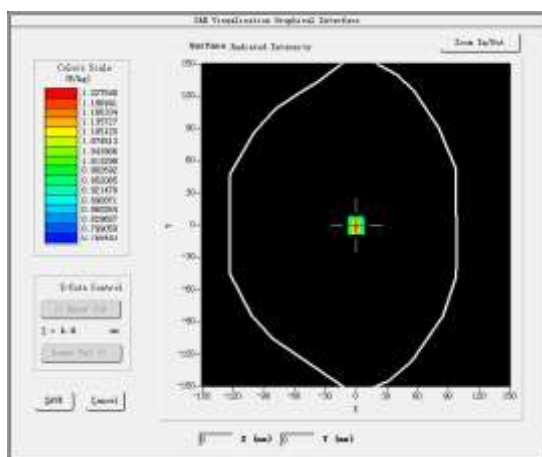
Product Description: Validation

Dipole Model: SID835

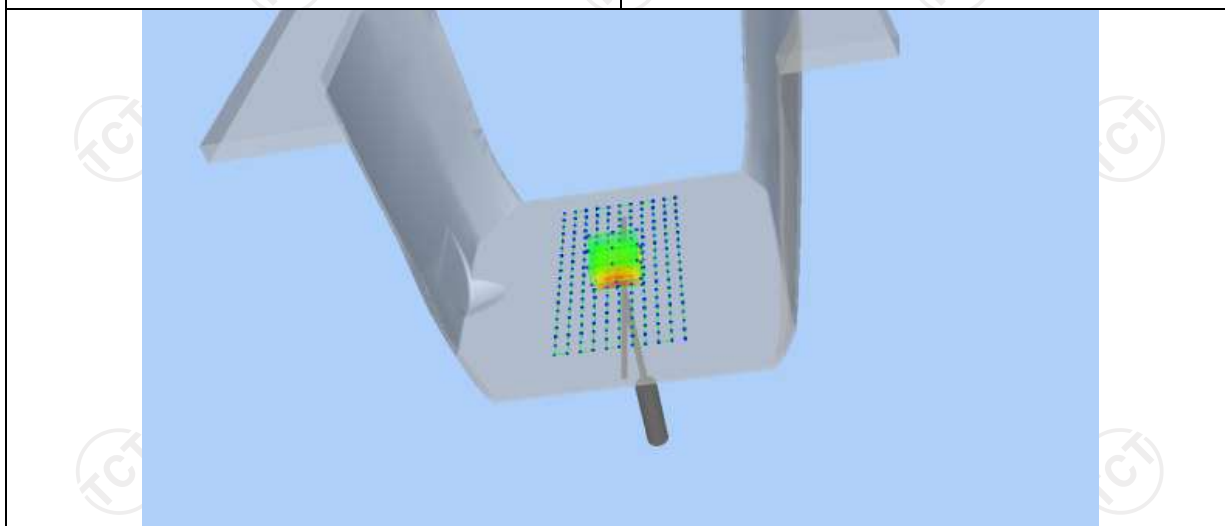
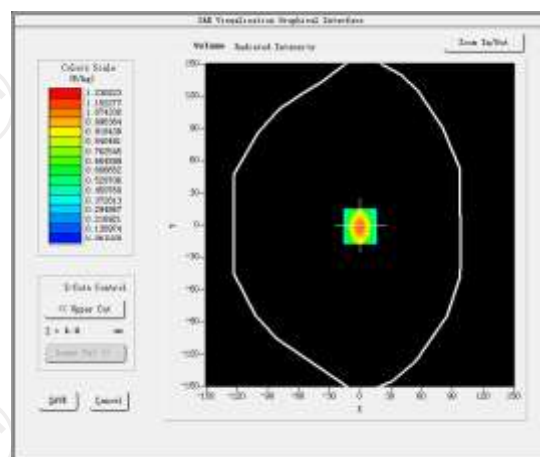
E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	1.80
Frequency (MHz)	835.000000
Relative permittivity (real part)	41.121866
Relative permittivity (imaginary part)	19.265403
Conductivity (S/m)	0.913204
Variation (%)	-0.230000
SAR 10g (W/Kg)	0.596105
SAR 1g (W/Kg)	0.934211

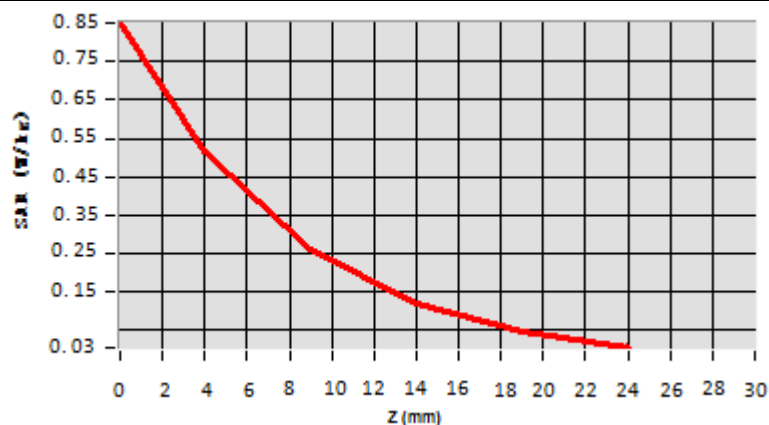
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8557	0.5379	0.2588	0.1289	0.1002



Hot spot position



Date of measurement: 12/13/2024 Test mode: 1800MHz (Head)

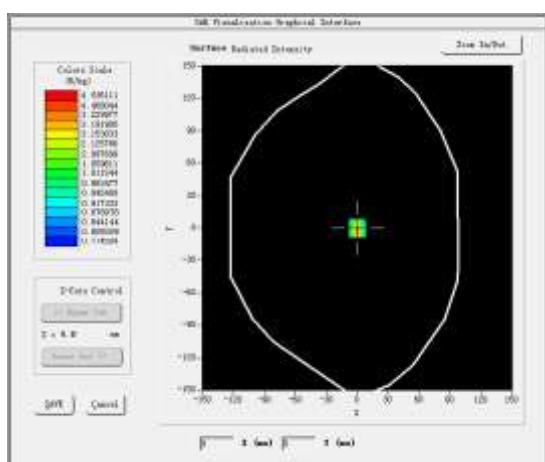
Product Description: Validation

Dipole Model: SID1800

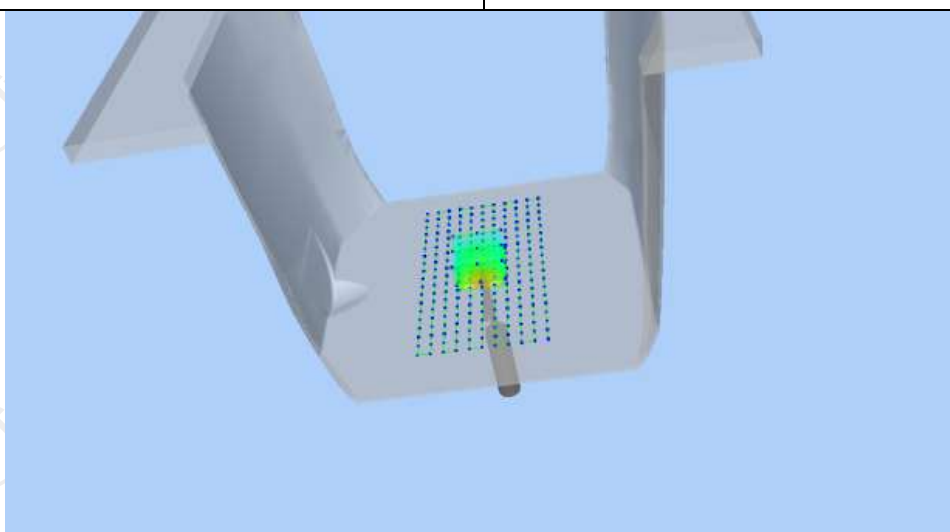
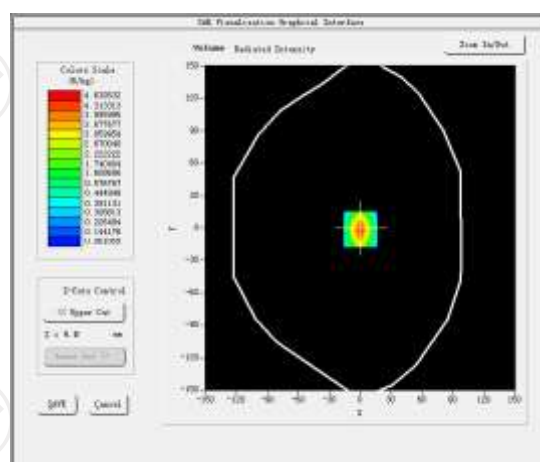
E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.08
Frequency (MHz)	1800.000000
Relative permittivity (real part)	40.361052
Relative permittivity (imaginary part)	14.137412
Conductivity (S/m)	1.392685
Variation (%)	-0.050000
SAR 10g (W/Kg)	2.094532
SAR 1g (W/Kg)	4.102362

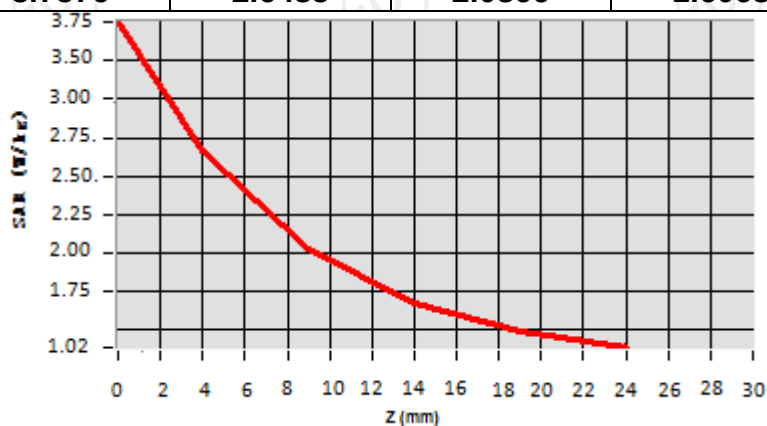
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	3.7576	2.6485	2.0366	1.6063	1.0203



Hot spot position



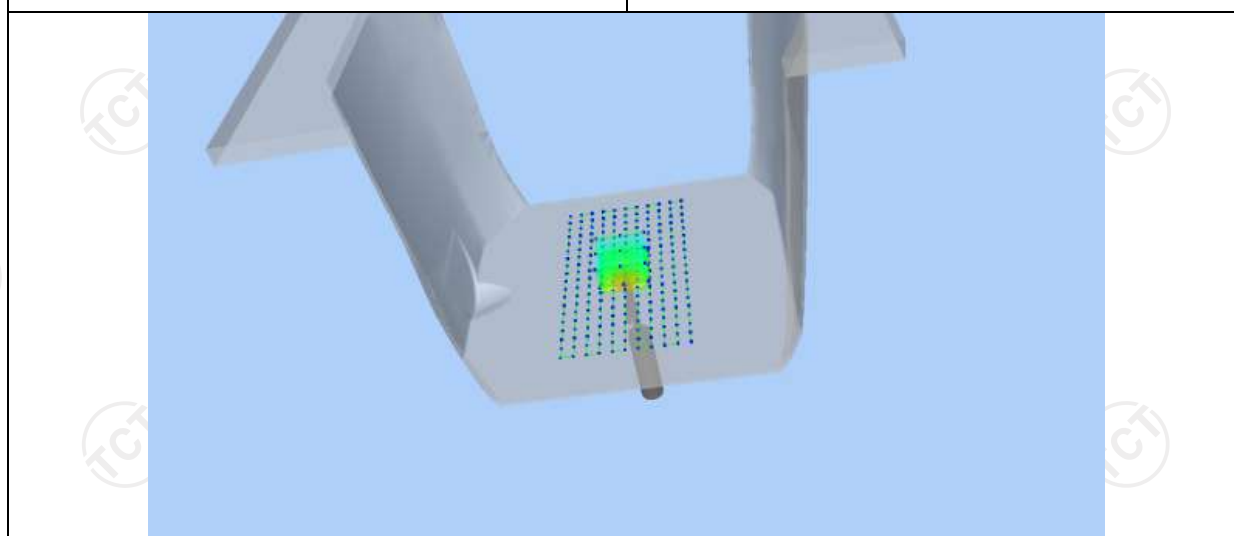
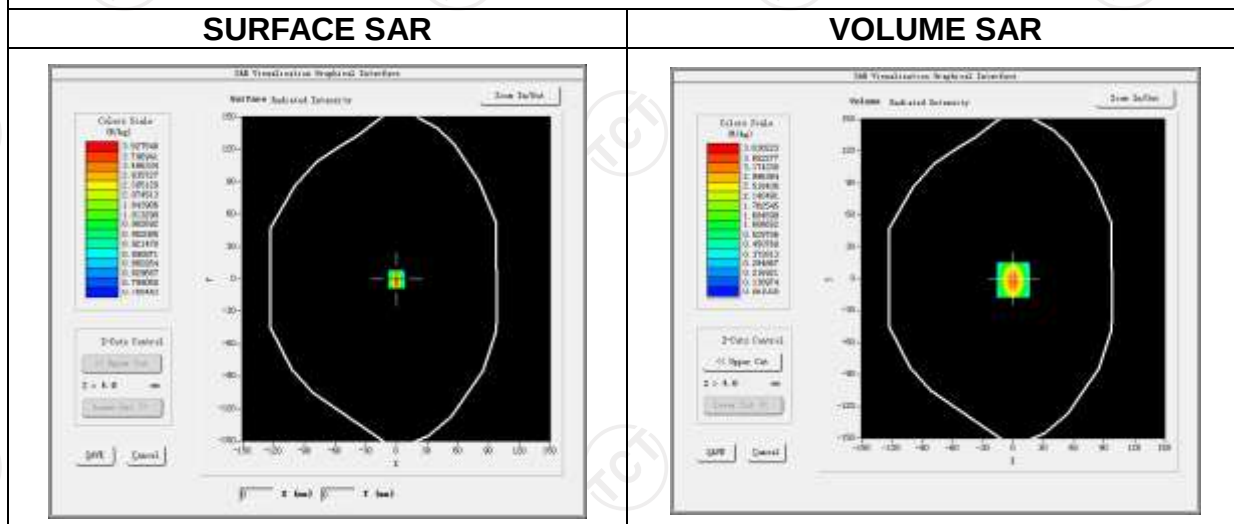
Date of measurement: 12/18/2024 Test mode: 1900MHz (Head)

Product Description: Validation

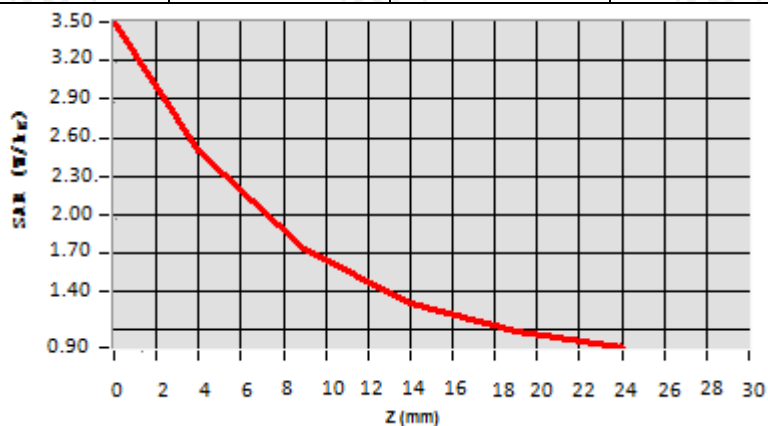
Dipole Model: SID1900

E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.23
Frequency (MHz)	1900.000000
Relative permittivity (real part)	39.923122
Relative permittivity (imaginary part)	13.391003
Conductivity (S/m)	1.408653
Variation (%)	2.130000
SAR 10g (W/Kg)	1.903262
SAR 1g (W/Kg)	3.862593



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	3.5286	2.5758	1.7105	1.3165	1.1356



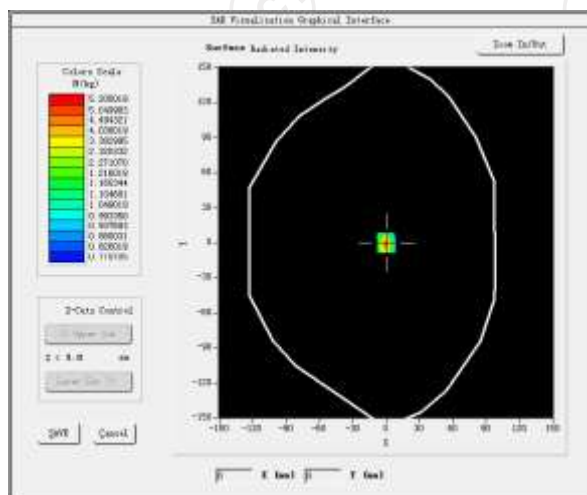
Hot spot position



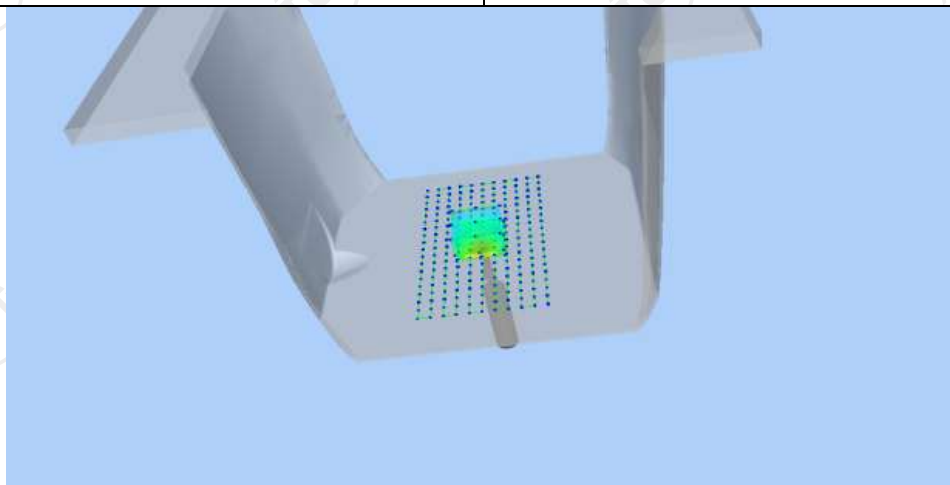
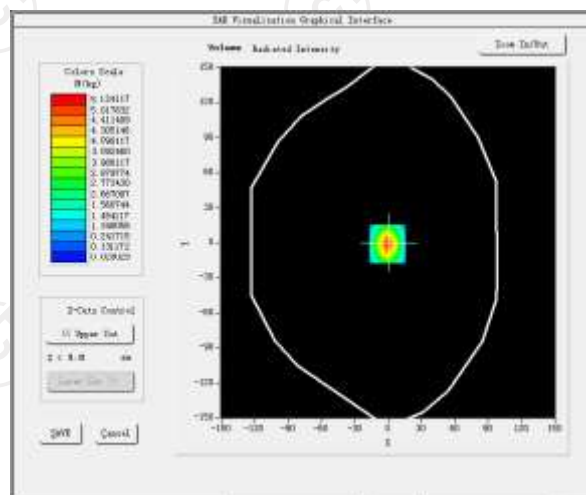
Date of measurement: 12/23/2024 Test mode: 2450MHz (Head)
 Product Description: Validation
 Dipole Model: SID2450
 E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	2.31
Frequency (MHz)	2450.000000
Relative permittivity (real part)	39.021365
Relative permittivity (imaginary part)	13.462135
Conductivity (S/m)	1.792554
Variation (%)	-3.320000
SAR 10g (W/Kg)	2.495826
SAR 1g (W/Kg)	5.014332

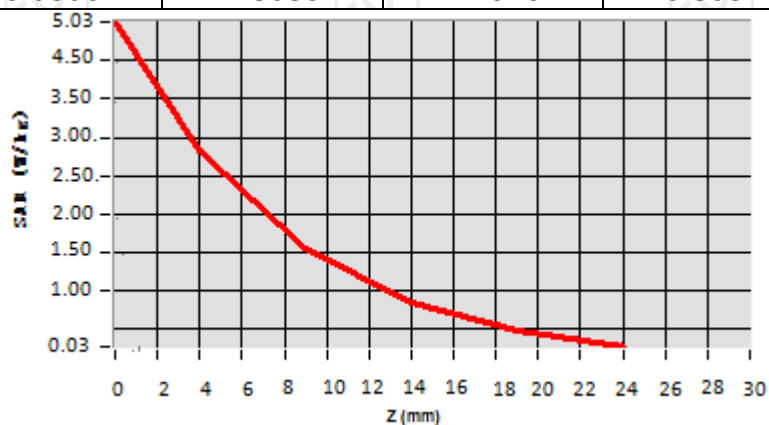
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.0306	2.8035	1.4926	0.8037	0.4226



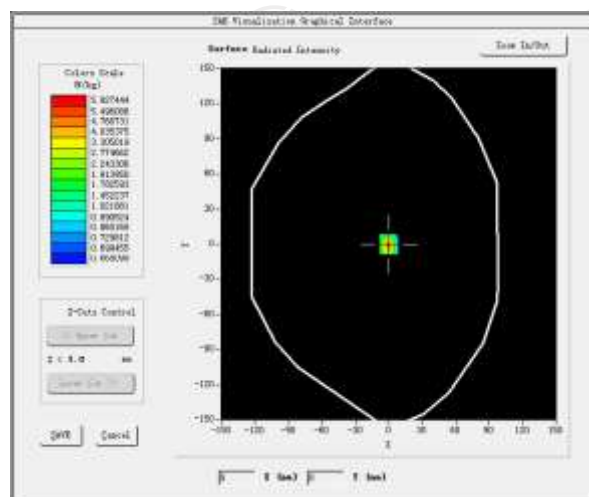
Hot spot position



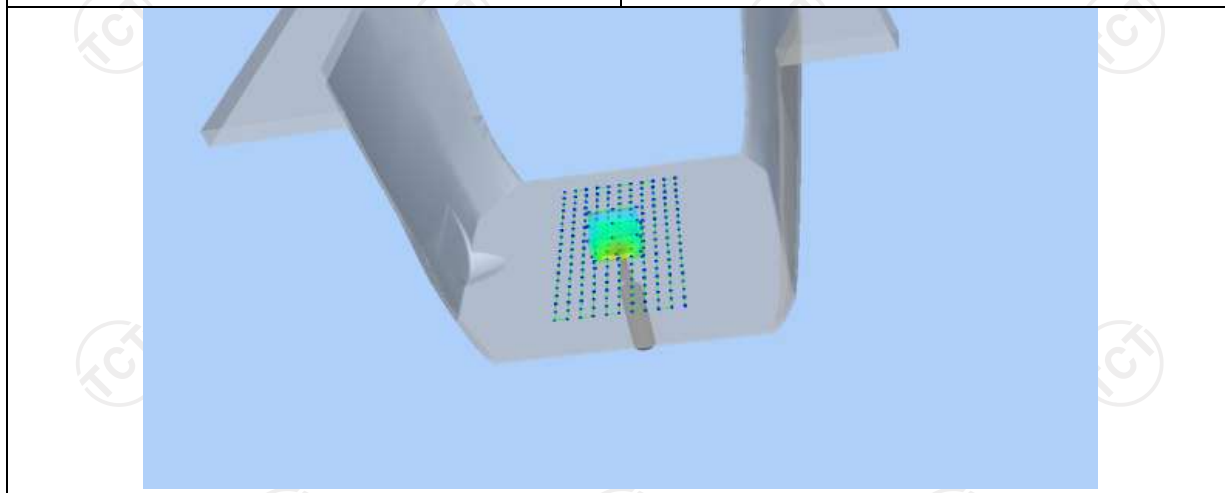
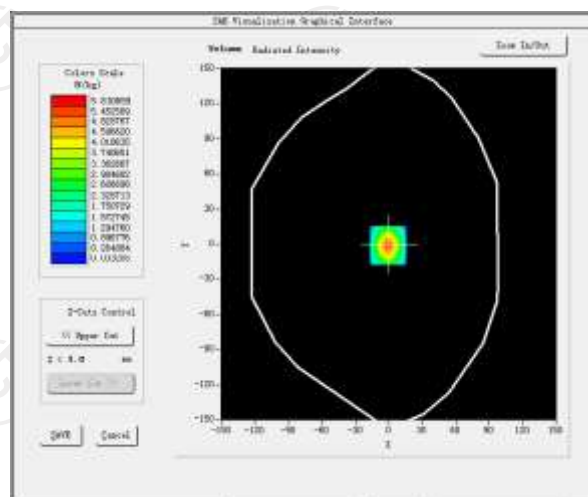
Date of measurement: 12/25/2024 Test mode: 2600MHz (Head)
 Product Description: Validation
 Dipole Model: SID2600
 E-Field Probe: SSE2 (SN 25/22 EPGO375)

Phantom	Validation plane
Input Power	100mW
Crest Factor	1.0
Probe Conversion factor	4.36
Frequency (MHz)	2600.000000
Relative permittivity (real part)	38.782231
Relative permittivity (imaginary part)	12.542985
Conductivity (S/m)	1.901224
Variation (%)	1.420000
SAR 10g (W/Kg)	2.632352
SAR 1g (W/Kg)	5.532589

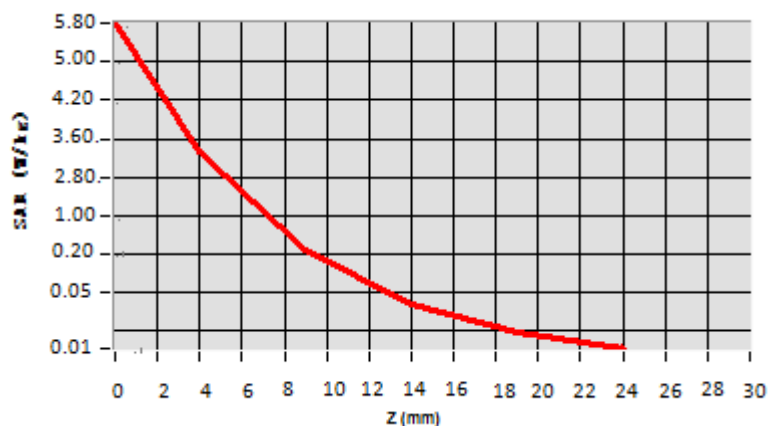
SURFACE SAR



VOLUME SAR



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	5.8015	3.3429	0.1995	0.0415	0.0264



Hot spot position



12. SAR Test Data

GSM850

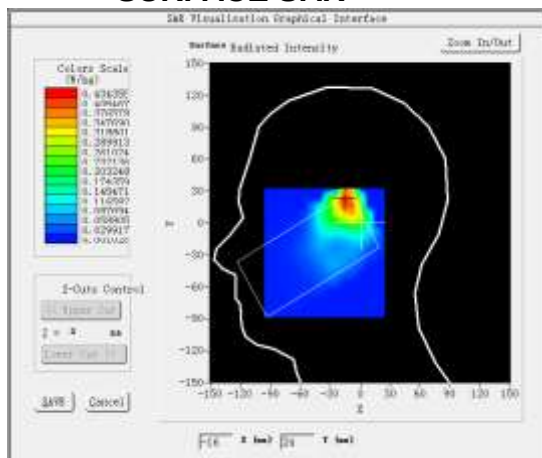
MEASUREMENT 1

Low Band SAR (Channel 128)

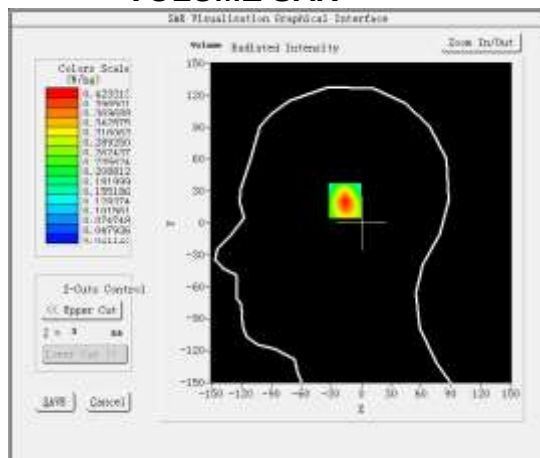
Date: 12/10/2024

Frequency (MHz)	824.200000
Relative permittivity (real part)	41.242478
Relative permittivity (imaginary part)	19.592011
Conductivity (S/m)	0.911826
Variation (%)	-1.380000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>GSM850(voice)</u>

SURFACE SAR



VOLUME SAR



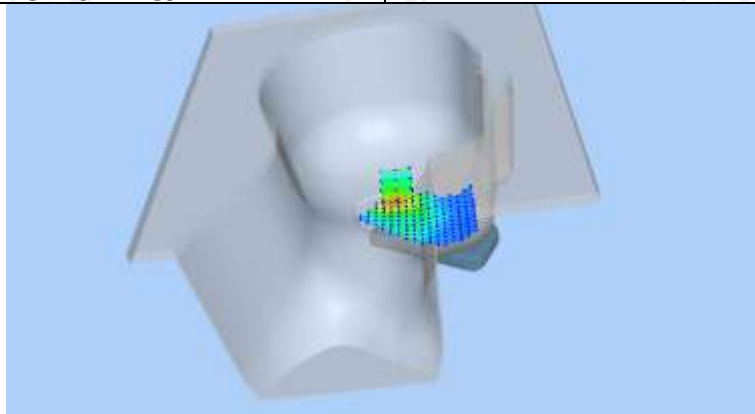
Maximum location: X=-15.00, Y=23.00 SAR Peak: 0.67 W/kg

SAR 10g (W/Kg)

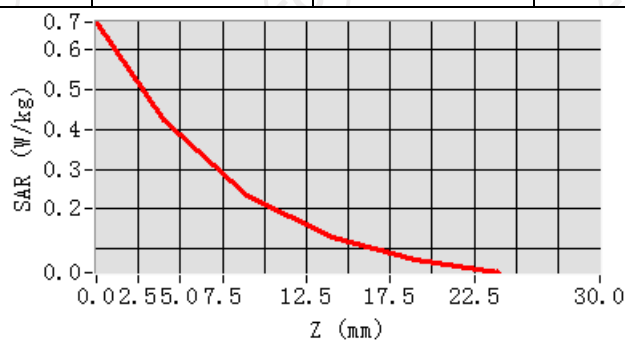
0.265751

SAR 1g (W/Kg)

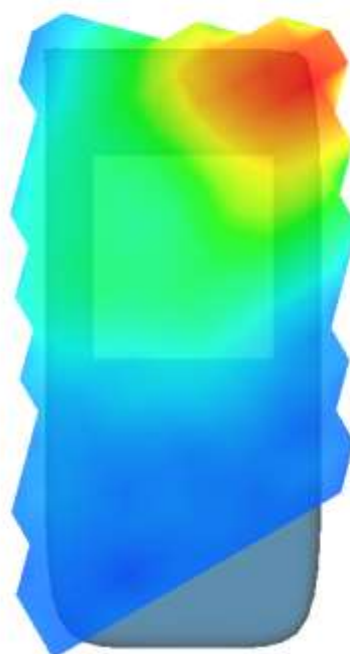
0.516096



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6663	0.4233	0.2334	0.1290	0.0743



Hot spot position



MEASUREMENT 2

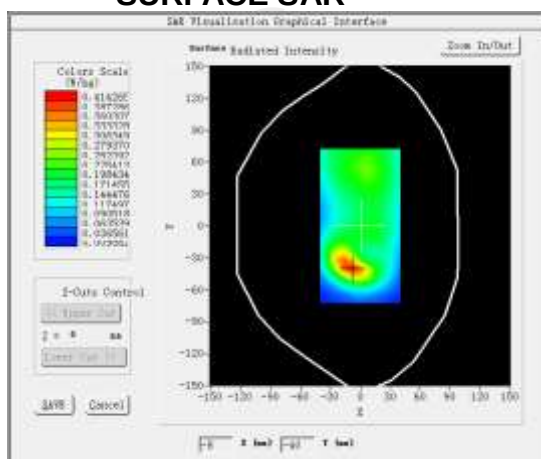
Low Band SAR (Channel 128)

Date: 12/10/2024

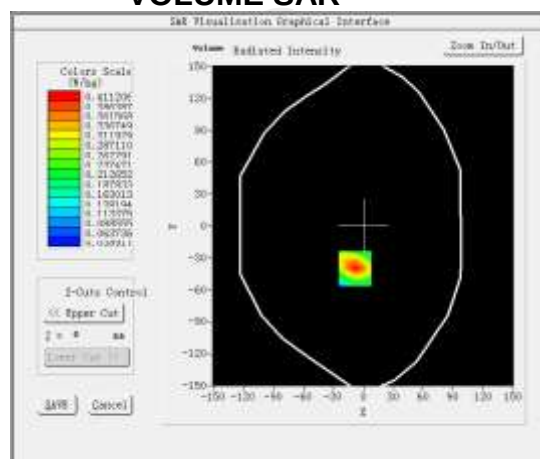
Frequency (MHz)	824.200000
Relative permittivity (real part)	41.242478
Relative permittivity (imaginary part)	19.592011
Conductivity (S/m)	0.911826
Variation (%)	-0.750000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM850(Voice)</u>

SURFACE SAR

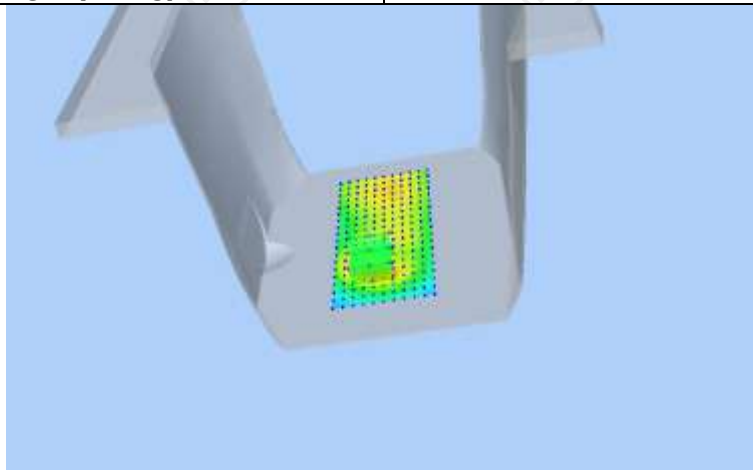


VOLUME SAR

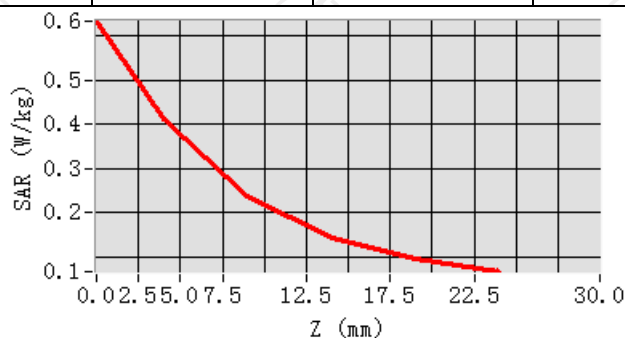


Maximum location: X=-8.00, Y=-40.00 SAR Peak: 0.64 W/kg

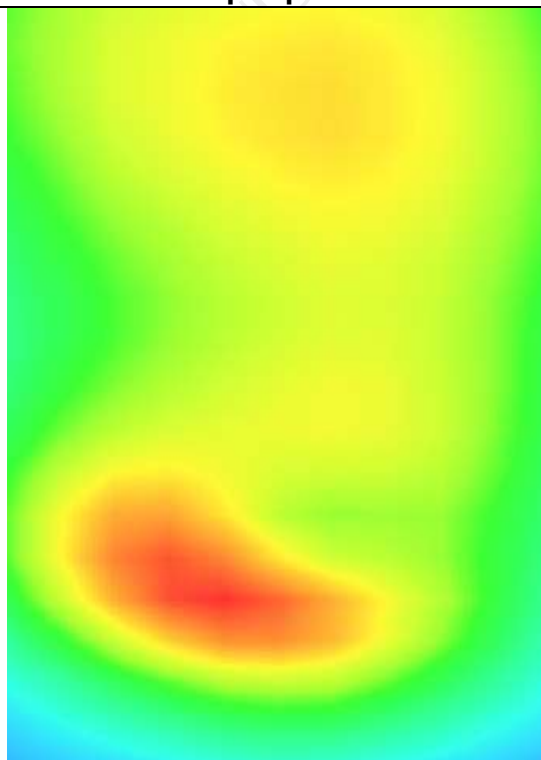
SAR 10g (W/Kg)	0.225419
SAR 1g (W/Kg)	0.434255



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6343	0.4112	0.2375	0.1433	0.0952



Hot spot position



MEASUREMENT 3

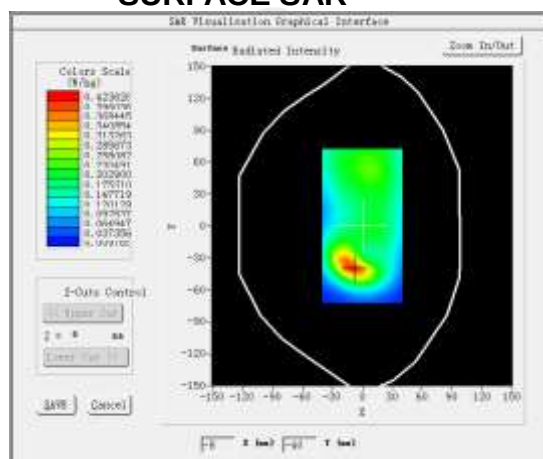
Low Band SAR (Channel 128)

Date: 12/10/2024

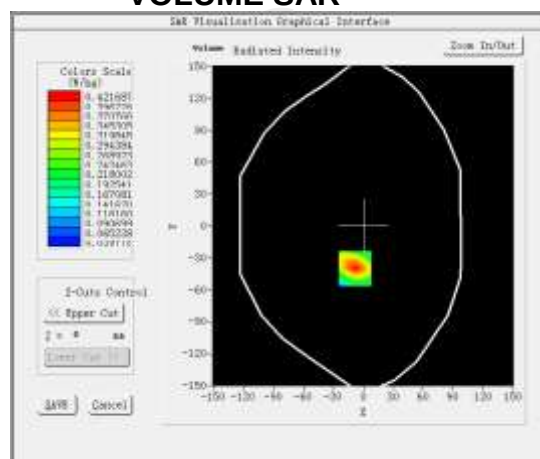
Frequency (MHz)	824.200000
Relative permittivity (real part)	41.242478
Relative permittivity (imaginary part)	19.592011
Conductivity (S/m)	0.911826
Variation (%)	-2.260000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM850(GPRS 3slot)</u>

SURFACE SAR

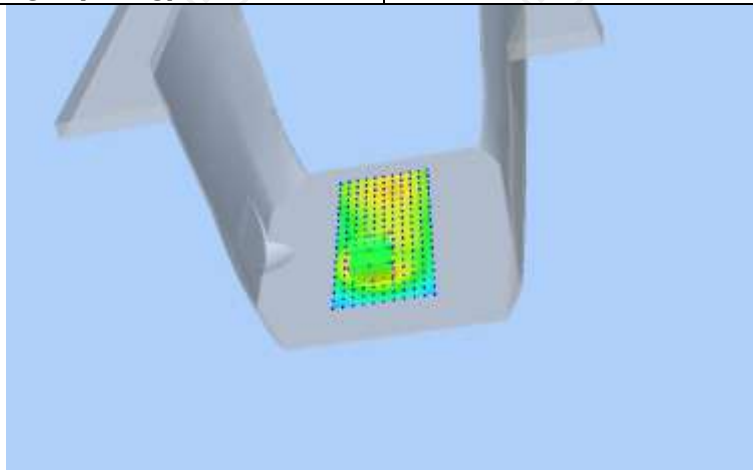


VOLUME SAR

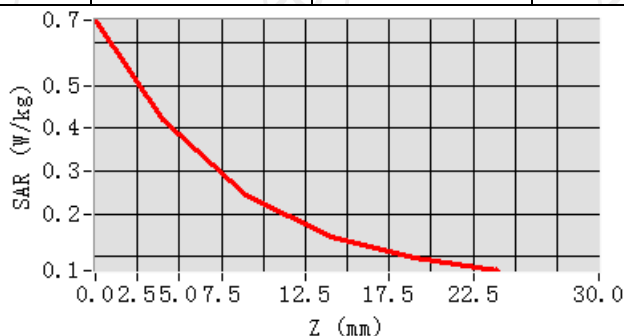


Maximum location: X=-8.00, Y=-40.00 SAR Peak: 0.66 W/kg

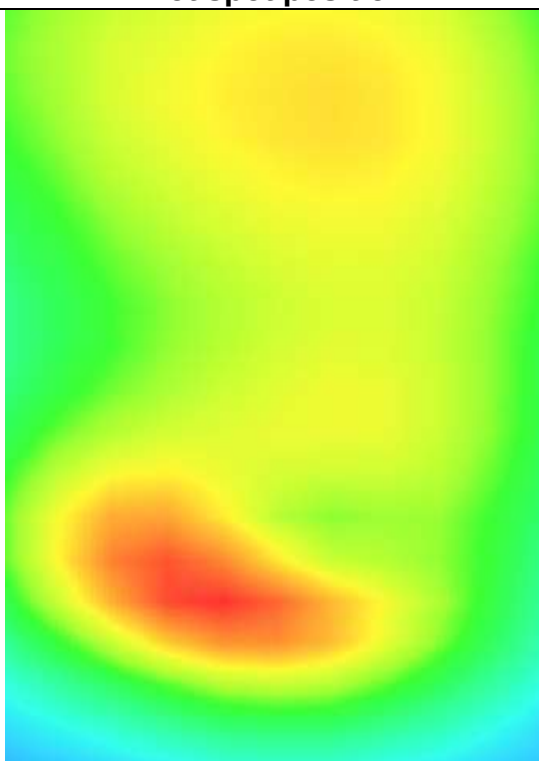
SAR 10g (W/Kg)	0.252465
SAR 1g (W/Kg)	0.531223



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6519	0.4298	0.2429	0.1463	0.0973



Hot spot position



MEASUREMENT 4

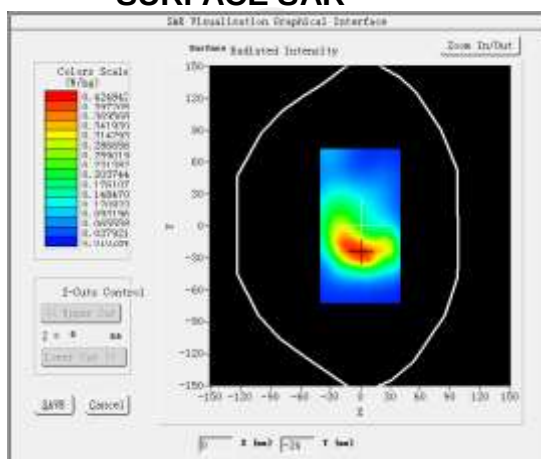
Low Band SAR (Channel 128)

Date: 12/10/2024

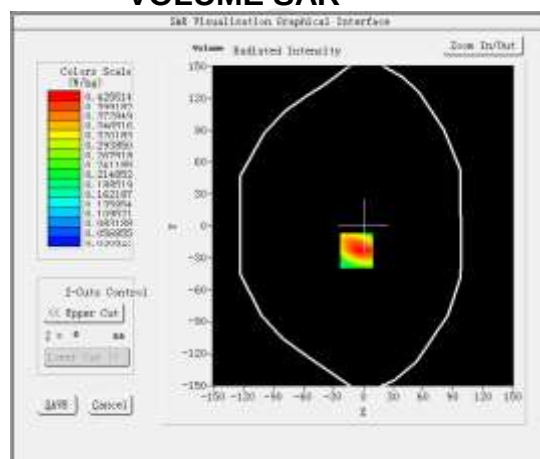
Frequency (MHz)	824.200000
Relative permittivity (real part)	41.242478
Relative permittivity (imaginary part)	19.592011
Conductivity (S/m)	0.911826
Variation (%)	-2.290000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	GSM850(GPRS 3slot hotspot)

SURFACE SAR



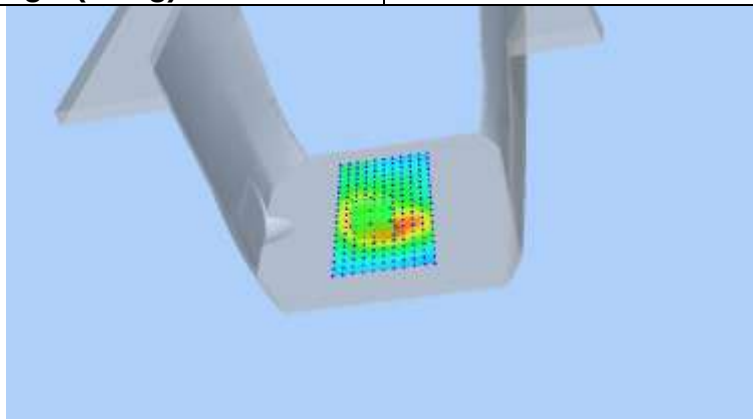
VOLUME SAR



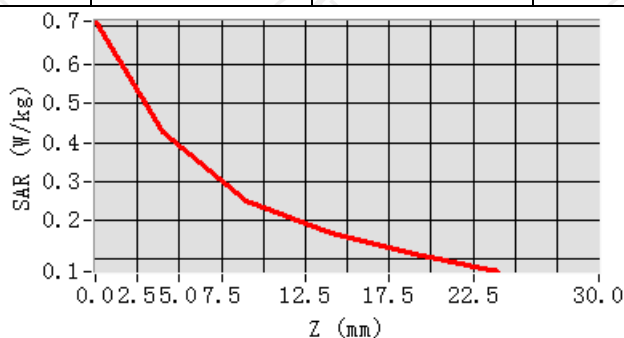
Maximum location: X=-7.00, Y=-23.00

SAR Peak: 0.62 W/kg

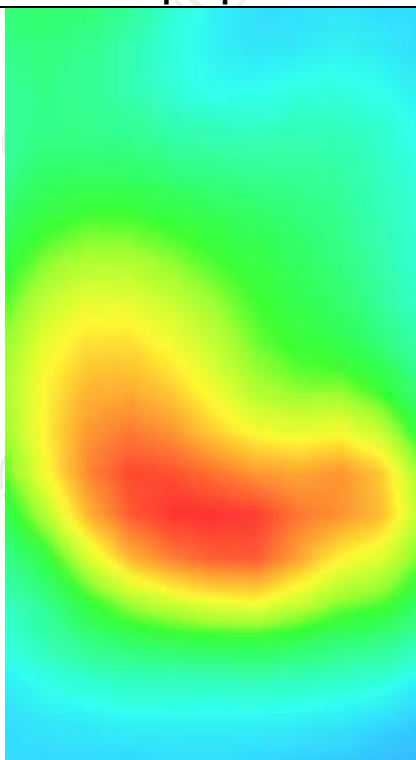
SAR 10g (W/Kg)	0.212574
SAR 1g (W/Kg)	0.436273



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7131	0.4255	0.2482	0.1661	0.1113



Hot spot position

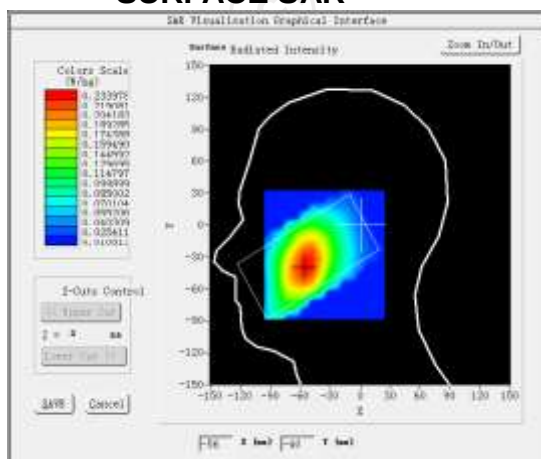


GSM1900

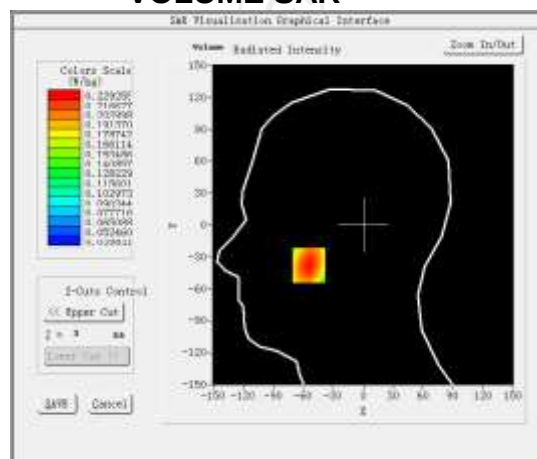
MEASUREMENT 1

Middle Band SAR (Channel 661):		Date: 12/18/2024
Frequency (MHz)	1880.000000	
Relative permittivity (real part)	40.010708	
Relative permittivity (imaginary part)	13.540285	
Conductivity (S/m)	1.405459	
Variation (%)	2.070000	
Crest Factor	1.0	
Probe Conversion factor	2.23	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	GSM1900(voice)	

SURFACE SAR



VOLUME SAR



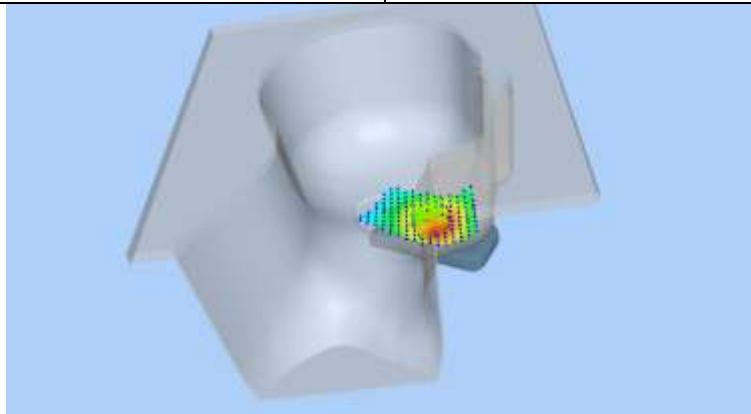
Maximum location: X=-54.00, Y=-38.00 SAR Peak: 0.24 W/kg

SAR 10g (W/Kg)

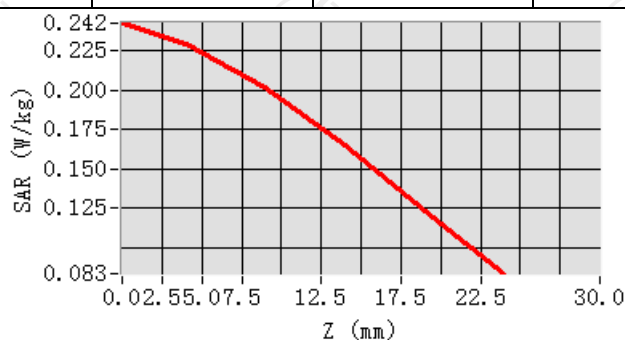
0.172335

SAR 1g (W/Kg)

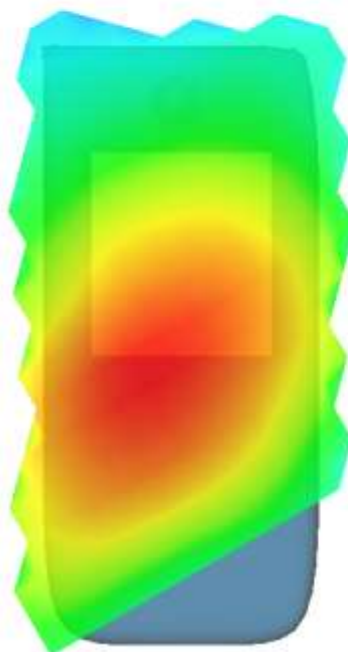
0.245201



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2423	0.2293	0.2018	0.1646	0.1227



Hot spot position



MEASUREMENT 2

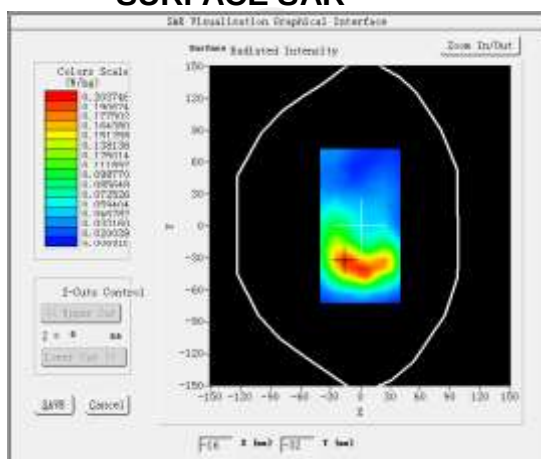
Middle Band SAR (Channel 661):

Date: 12/18/2024

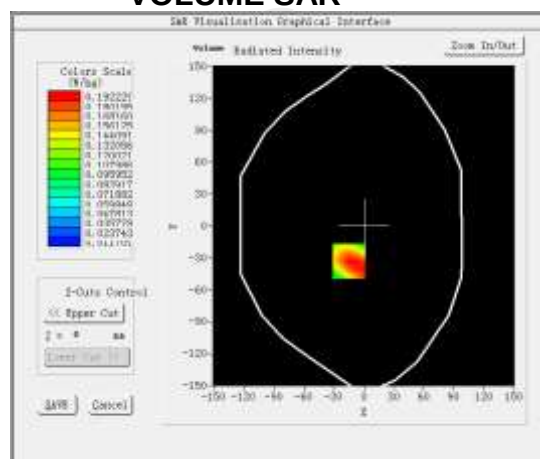
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.010708
Relative permittivity (imaginary part)	13.540285
Conductivity (S/m)	1.405459
Variation (%)	-1.900000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(voice)</u>

SURFACE SAR

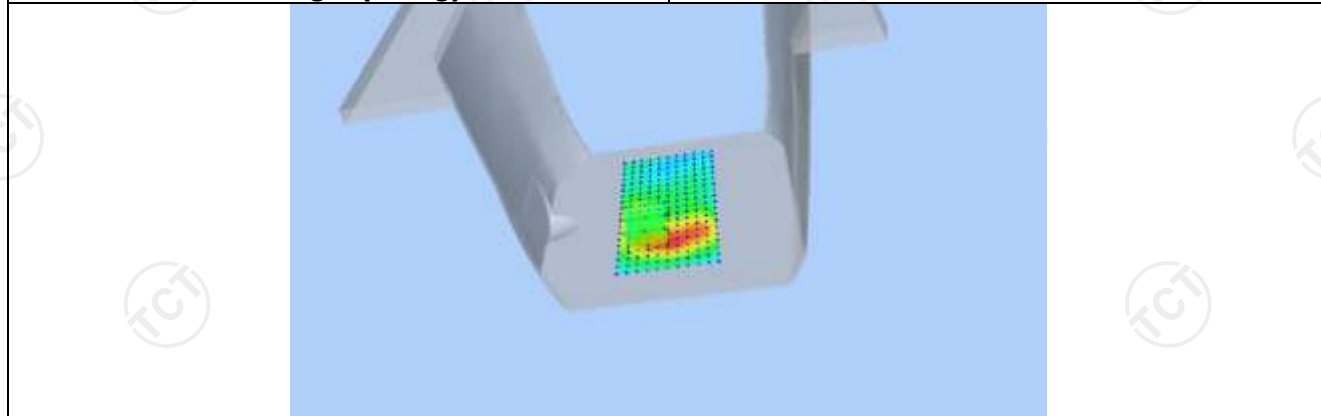


VOLUME SAR

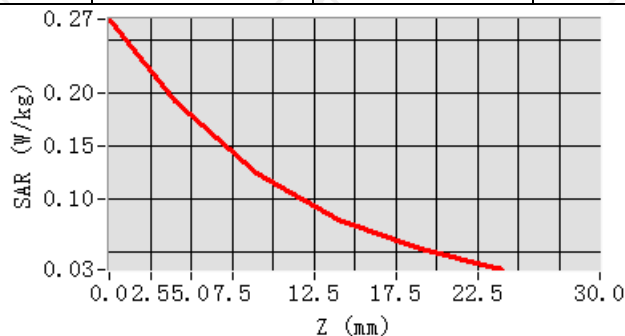


Maximum location: X=-15.00, Y=-33.00 SAR Peak: 0.27 W/kg

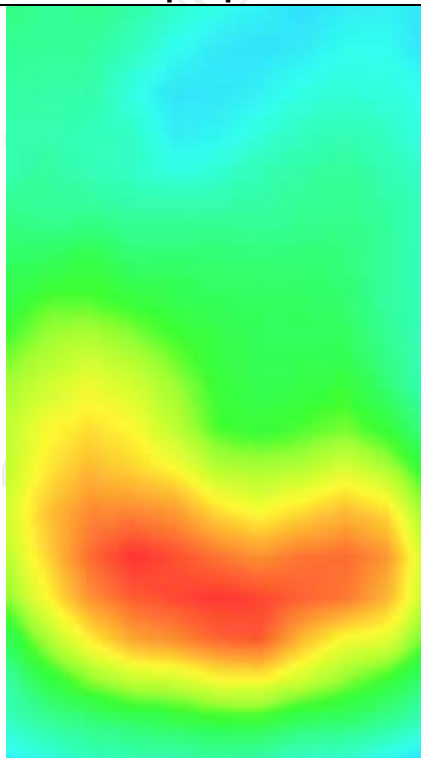
SAR 10g (W/Kg)	0.116177
SAR 1g (W/Kg)	0.205995



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2693	0.1922	0.1246	0.0807	0.0527



Hot spot position



MEASUREMENT 3

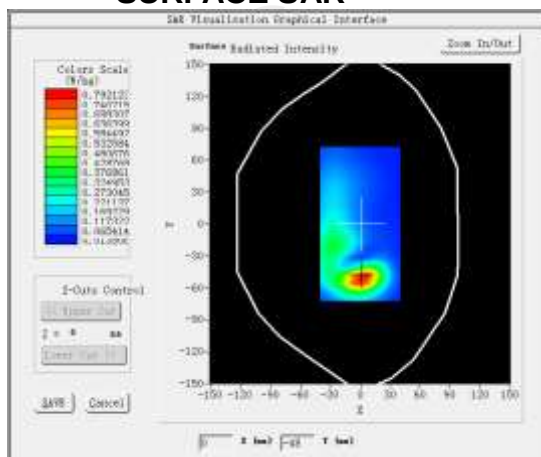
Middle Band SAR (Channel 661):

Date: 12/18/2024

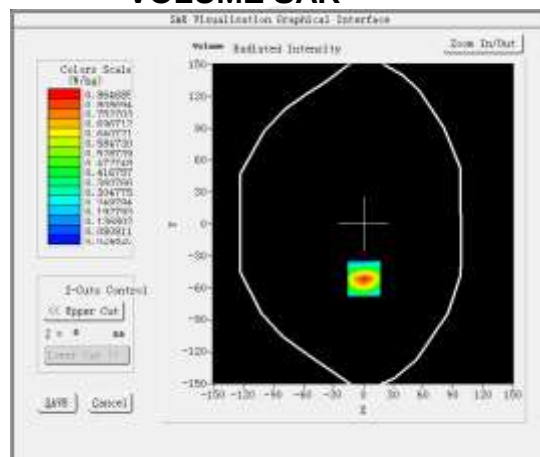
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.010708
Relative permittivity (imaginary part)	13.540285
Conductivity (S/m)	1.405459
Variation (%)	-2.010000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(GPRS 3slot)</u>

SURFACE SAR

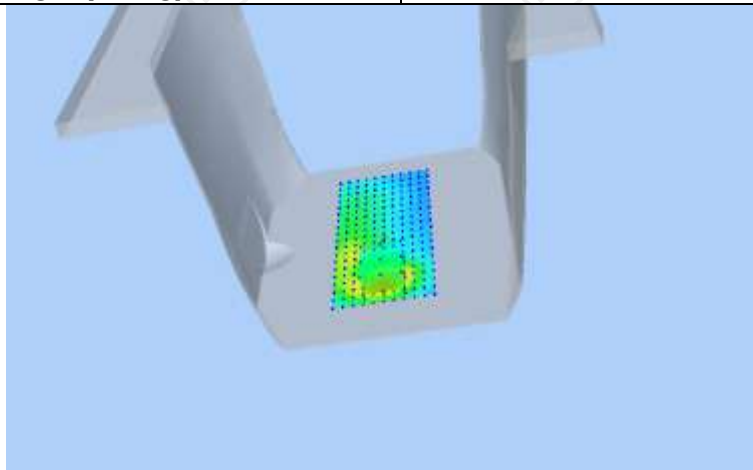


VOLUME SAR

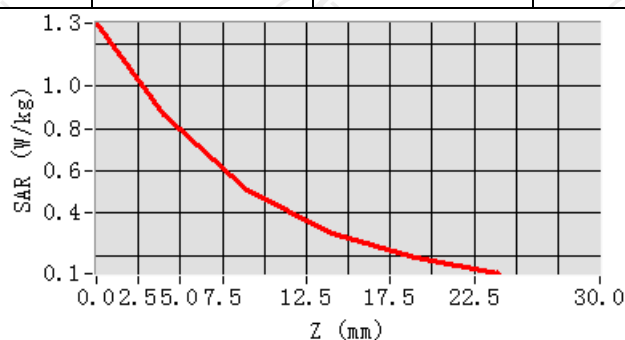


Maximum location: X=1.00, Y=-51.00 SAR Peak1.31 W/kg

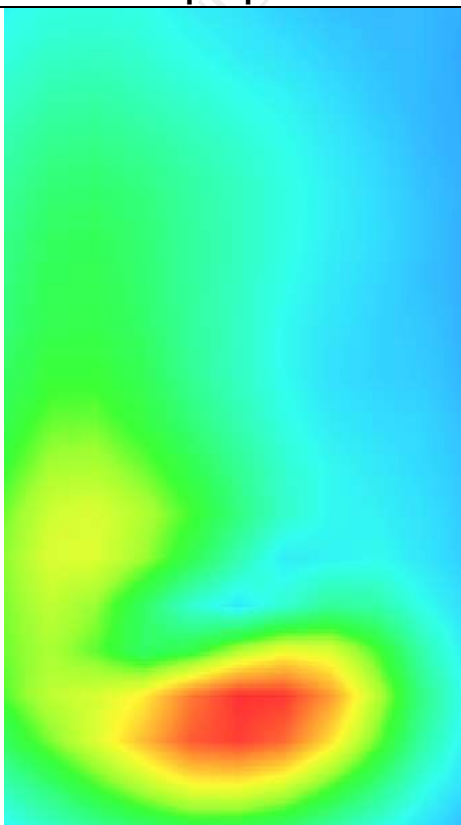
SAR 10g (W/Kg)	0.354341
SAR 1g (W/Kg)	0.627155



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2977	0.8647	0.5112	0.3044	0.1872



Hot spot position



MEASUREMENT 4

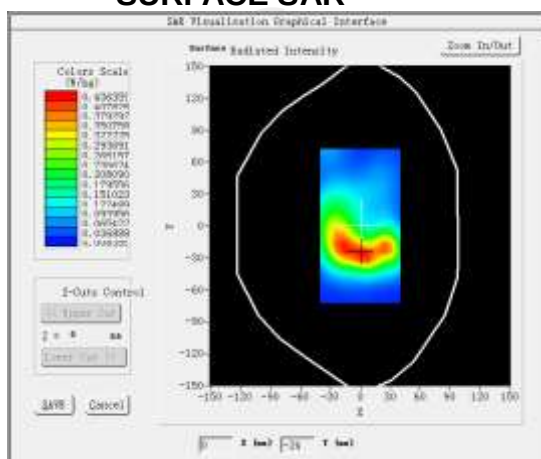
Middle Band SAR (Channel 661):

Date: 12/18/2024

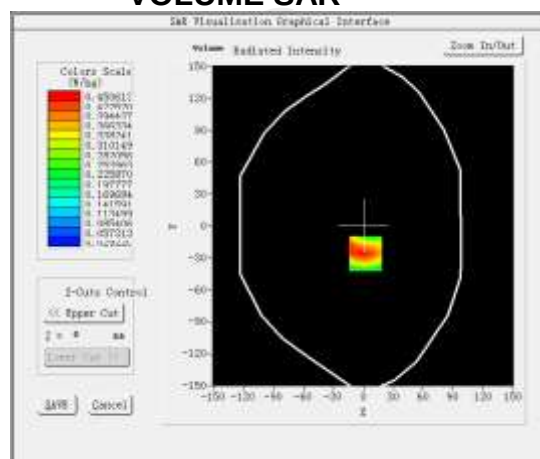
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.010708
Relative permittivity (imaginary part)	13.540285
Conductivity (S/m)	1.405459
Variation (%)	-2.240000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>GSM1900(GPRS 3slot hotspot)</u>

SURFACE SAR



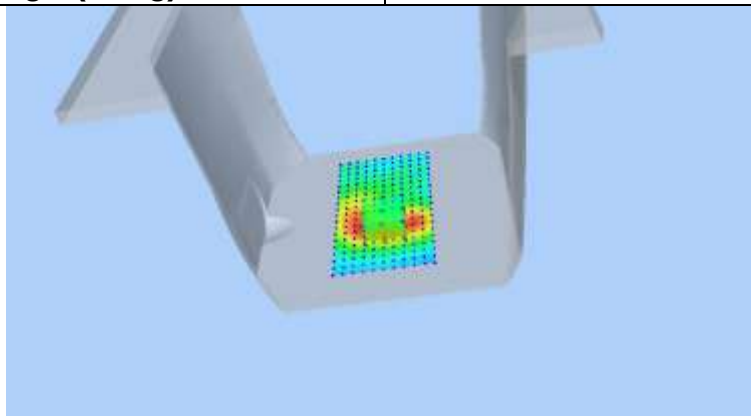
VOLUME SAR



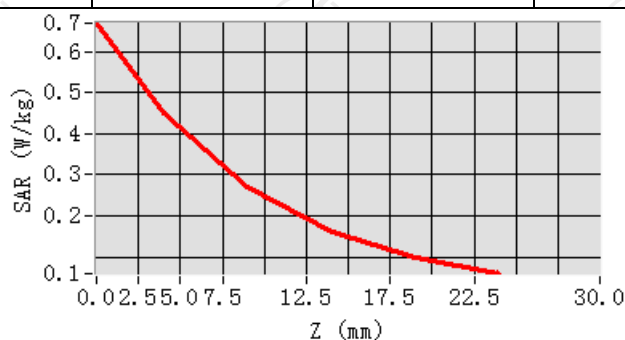
Maximum location: X=2.00, Y=-26.00

SAR Peak: 0.67 W/kg

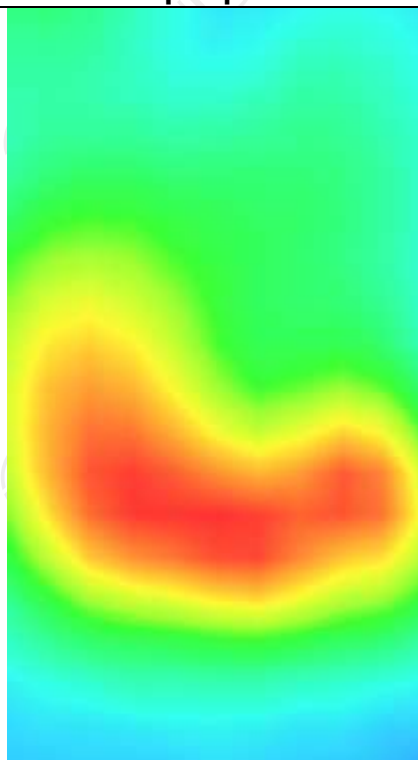
SAR 10g (W/Kg)	0.262451
SAR 1g (W/Kg)	0.515924



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6698	0.4506	0.2696	0.1618	0.0994



Hot spot position



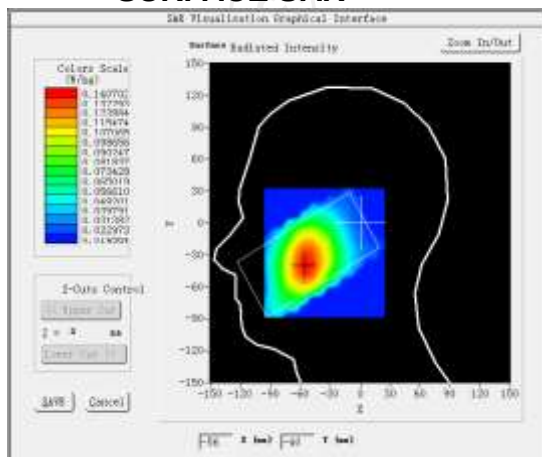
WCDMA Band II MEASUREMENT 1

Low Band SAR (Channel 9262):

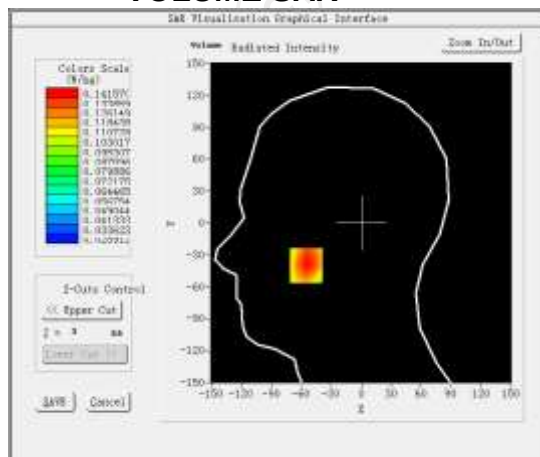
Date: 12/18/2024

Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.131577
Relative permittivity (imaginary part)	13.746294
Conductivity (S/m)	1.401052
Variation (%)	-2.170000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>BAND2 WCDMA1900</u>

SURFACE SAR



VOLUME SAR



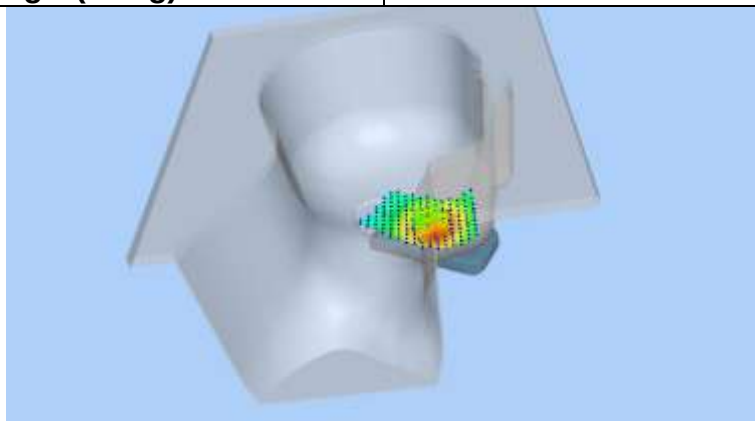
Maximum location: X=-55.00, Y=-40.00 SAR Peak: 0.16 W/kg

SAR 10g (W/Kg)

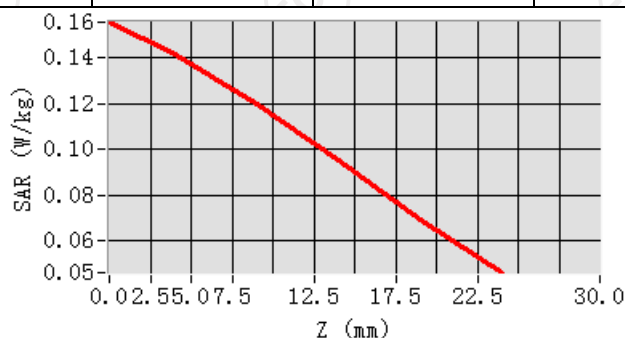
0.106097

SAR 1g (W/Kg)

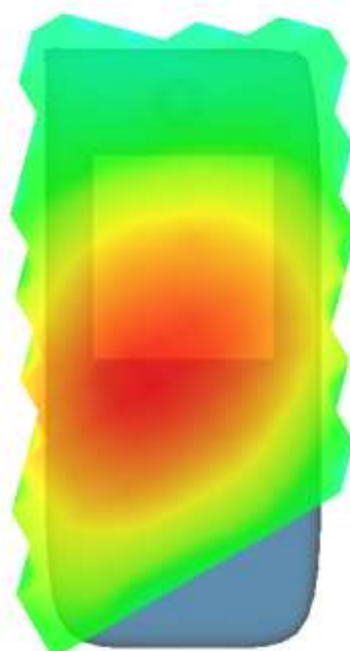
0.126402



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1554	0.1416	0.1200	0.0951	0.0694



Hot spot position



MEASUREMENT 2

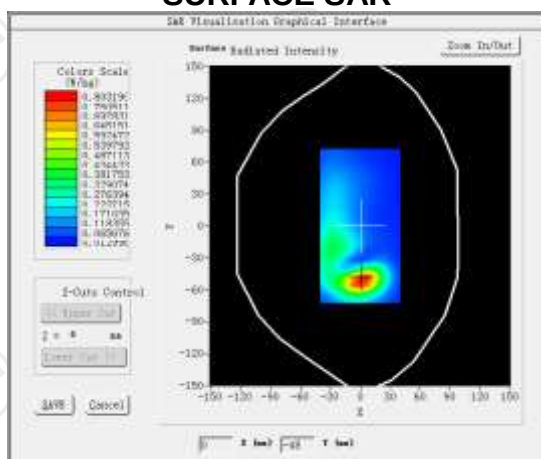
Low Band SAR (Channel 9262):

Date: 12/18/2024

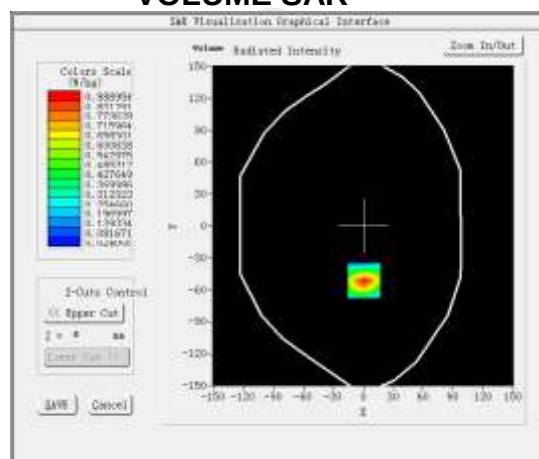
Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.131577
Relative permittivity (imaginary part)	13.746294
Conductivity (S/m)	1.401052
Variation (%)	-4.000000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPGO375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND2 WCDMA1900</u>

SURFACE SAR

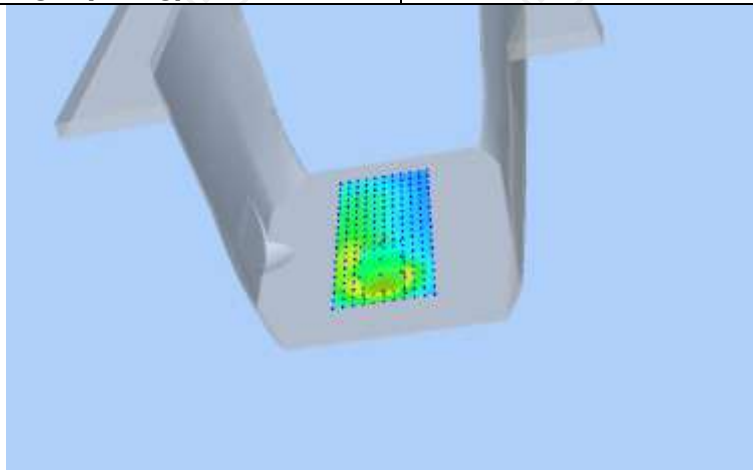


VOLUME SAR

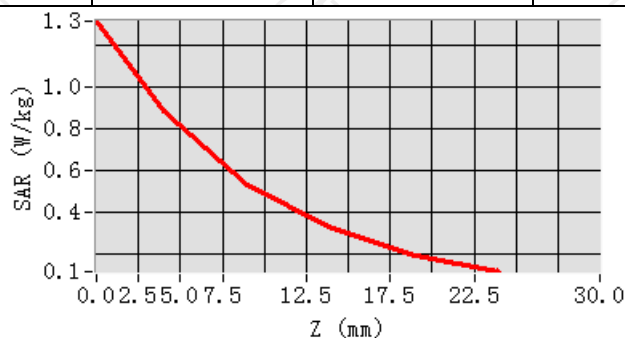


Maximum location: X=1.00, Y=-51.00 SAR Peak: 1.33 W/kg

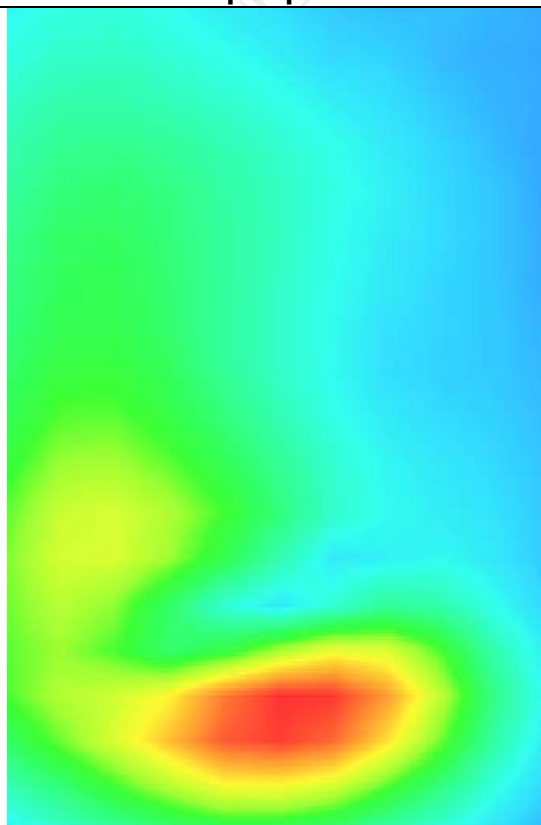
SAR 10g (W/Kg)	0.454415
SAR 1g (W/Kg)	0.938125



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3171	0.8910	0.5333	0.3197	0.1950



Hot spot position



MEASUREMENT 3

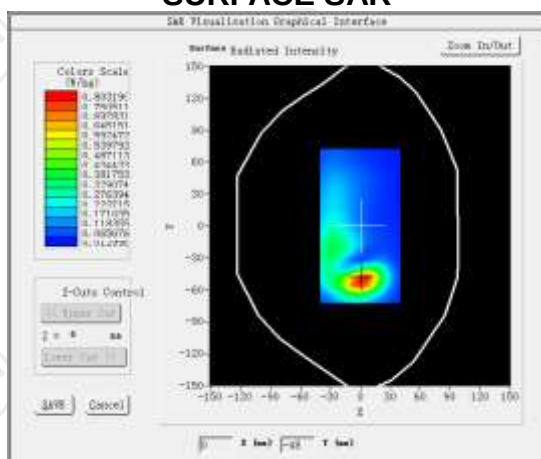
Low Band SAR (Channel 9262):

Date: 12/18/2024

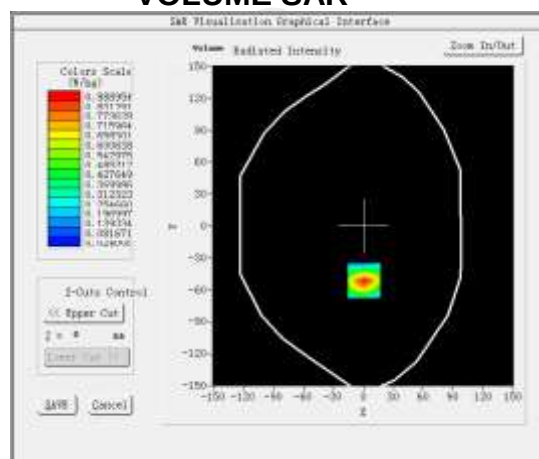
Frequency (MHz)	1852.400000
Relative permittivity (real part)	40.131577
Relative permittivity (imaginary part)	13.746294
Conductivity (S/m)	1.401052
Variation (%)	-1.840000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPGO375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND2 WCDMA1900(hotspot)</u>

SURFACE SAR

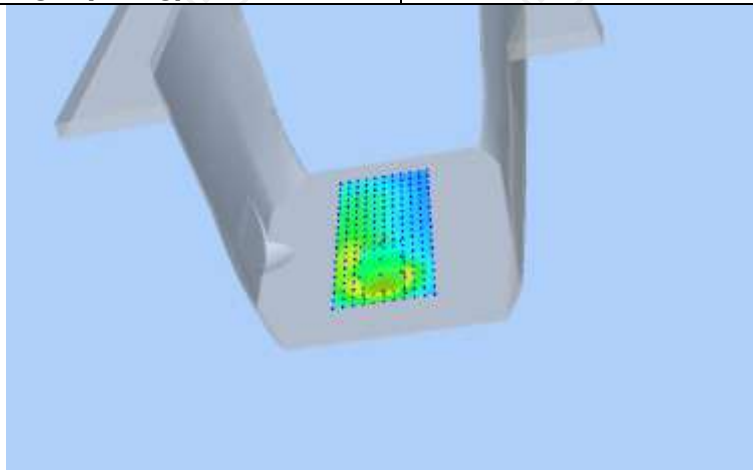


VOLUME SAR

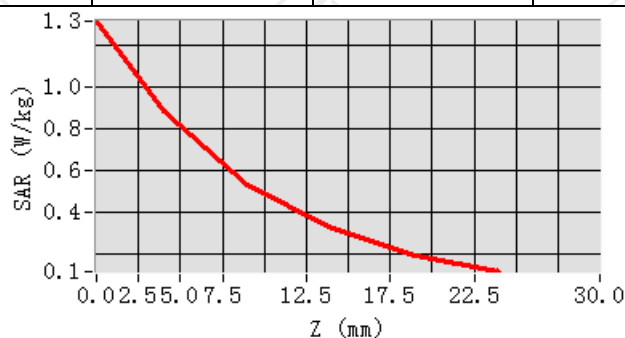


Maximum location: X=1.00, Y=-51.00 SAR Peak: 1.33 W/kg

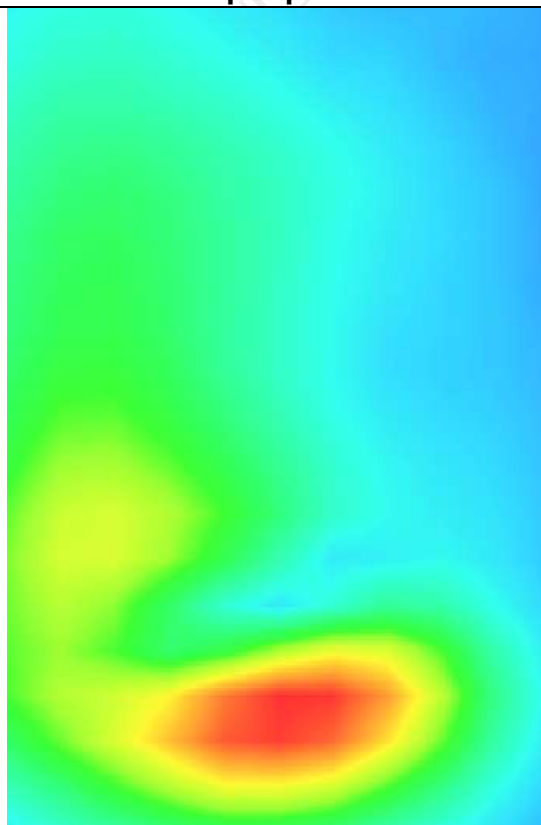
SAR 10g (W/Kg)	0.454915
SAR 1g (W/Kg)	0.881325



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3151	0.8890	0.5341	0.3195	0.1947

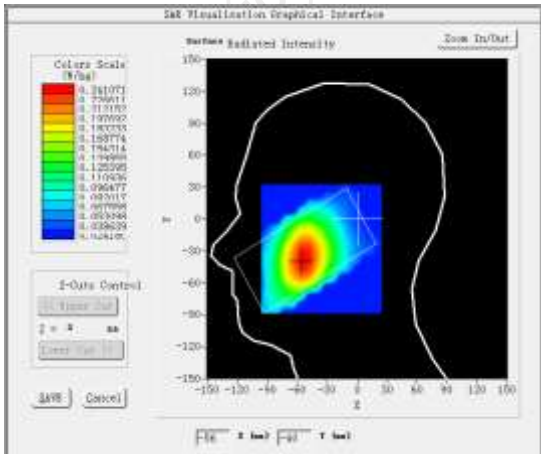
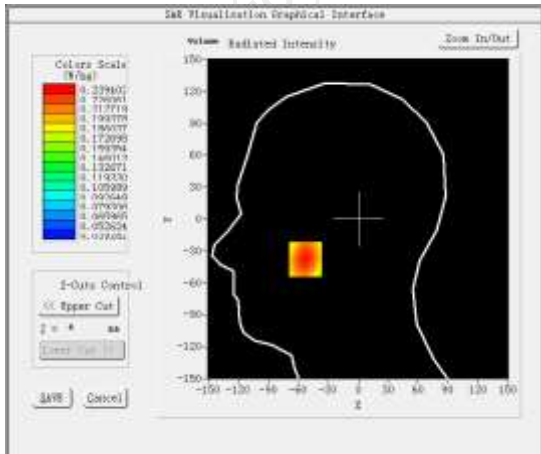


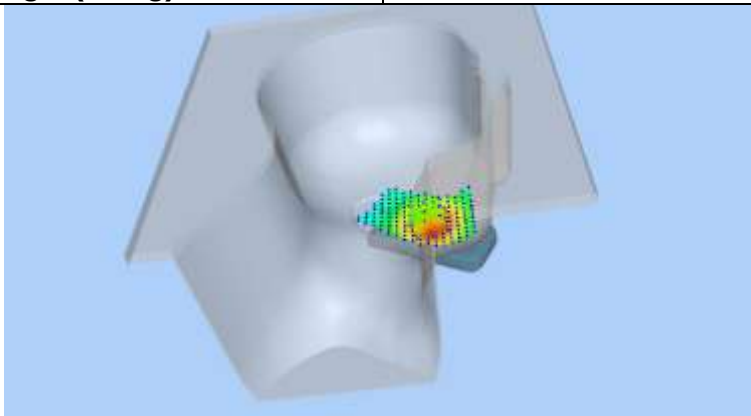
Hot spot position



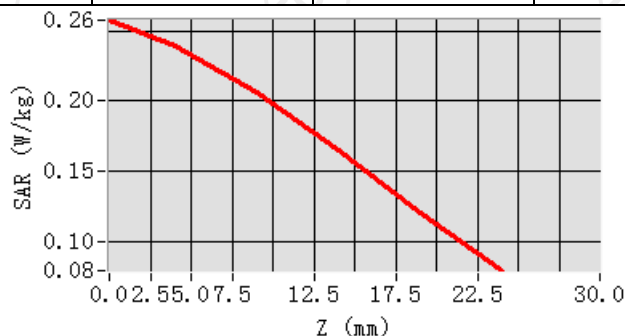
WCDMA Band IV

MEASUREMENT 1

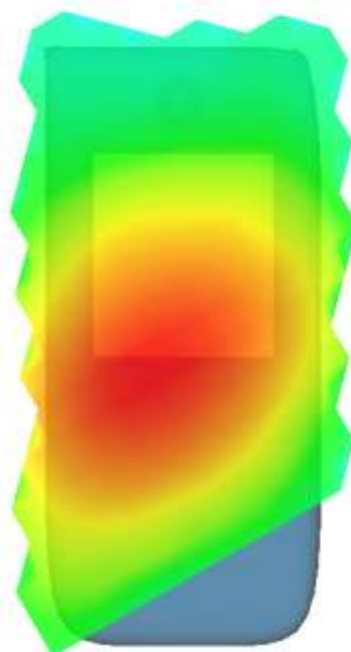
Low Band SAR (Channel 1312):		Date: 12/13/2024
Frequency (MHz)	1712.400000	
Relative permittivity (real part)	40.430117	
Relative permittivity (imaginary part)	14.602917	
Conductivity (S/m)	1.349159	
Variation (%)	2.360000	
Crest Factor	1.0	
Probe Conversion factor	2.08	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	BAND4 WCDMA1700	
SURFACE SAR	VOLUME SAR	
		
Maximum location: X=-53.00, Y=-38.00 SAR Peak: 0.26 W/kg		
SAR 10g (W/Kg)	0.145214	
SAR 1g (W/Kg)	0.269113	



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2576	0.2394	0.2065	0.1651	0.1204



Hot spot position



MEASUREMENT 2

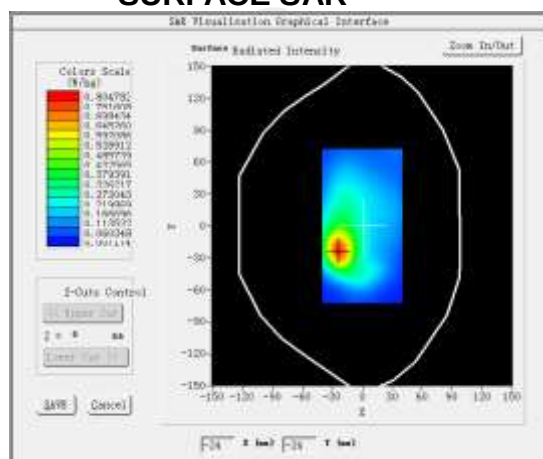
Low Band SAR (Channel 1312):

Date: 12/13/2024

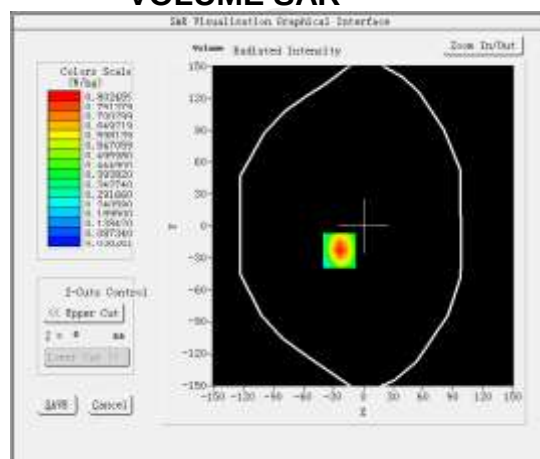
Frequency (MHz)	1712.400000
Relative permittivity (real part)	40.430117
Relative permittivity (imaginary part)	14.602917
Conductivity (S/m)	1.349159
Variation (%)	0.670000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body Front(10mm)</u>
Band	<u>BAND4 WCDMA1700</u>

SURFACE SAR

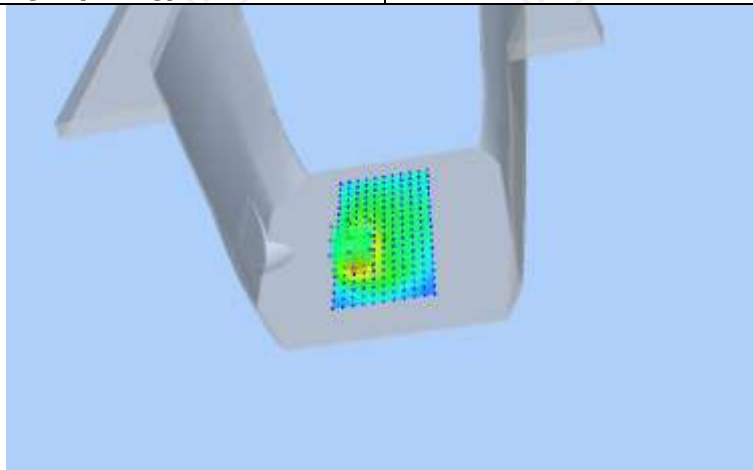


VOLUME SAR

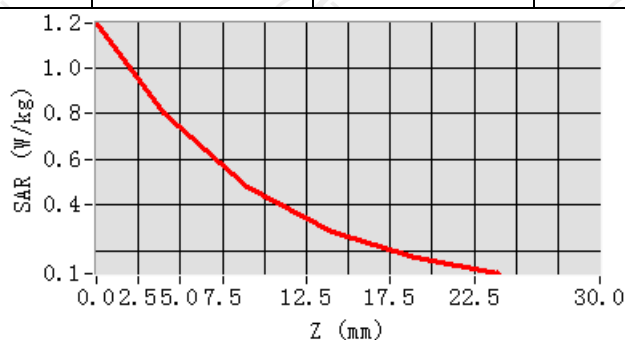


Maximum location: X=-24.00, Y=-23.00 SAR Peak: 1.20 W/kg

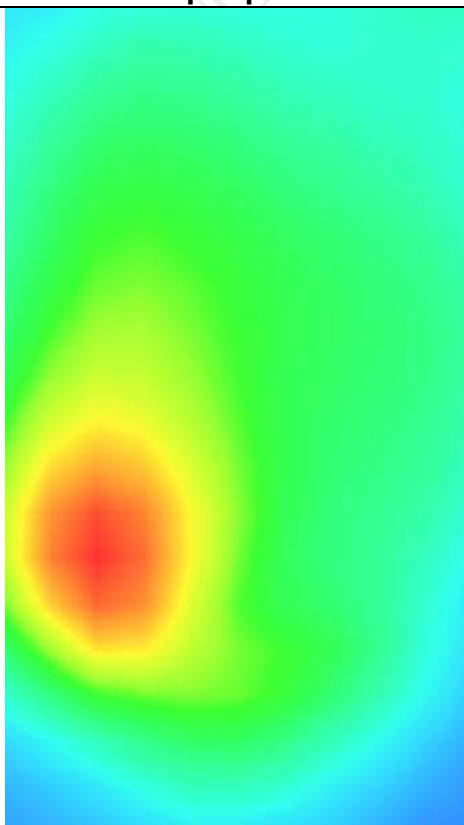
SAR 10g (W/Kg)	0.374120
SAR 1g (W/Kg)	0.772181



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1935	0.8025	0.4790	0.2860	0.1741



Hot spot position



MEASUREMENT 3

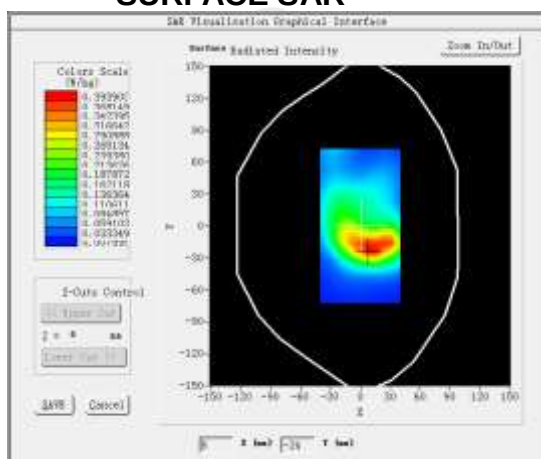
Low Band SAR (Channel 1312):

Date: 12/13/2024

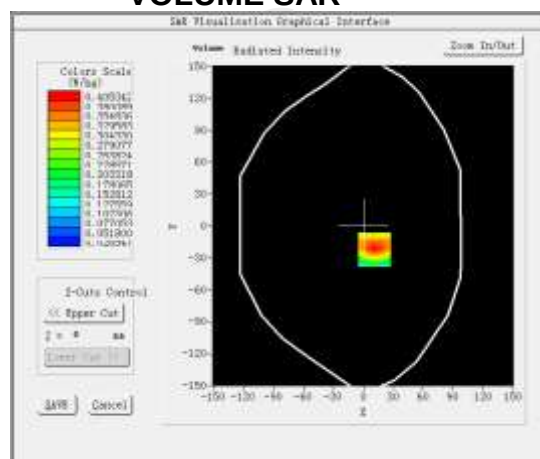
Frequency (MHz)	1712.400000
Relative permittivity (real part)	40.430117
Relative permittivity (imaginary part)	14.602917
Conductivity (S/m)	1.349159
Variation (%)	-1.720000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>BAND4 WCDMA1700</u>

SURFACE SAR



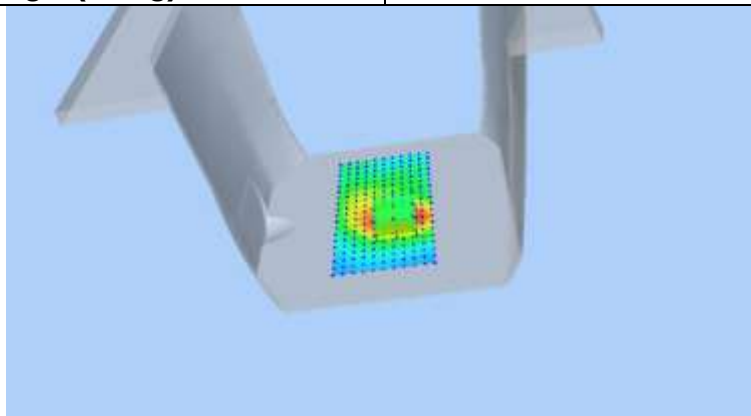
VOLUME SAR



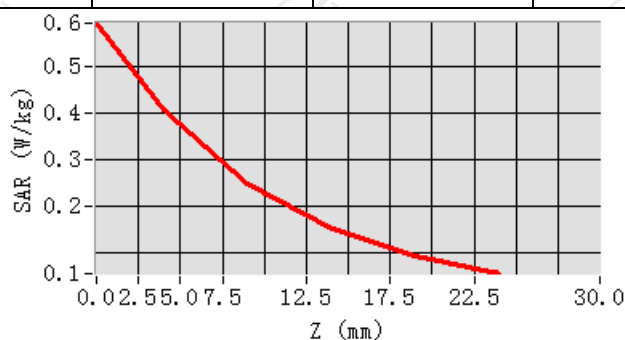
Maximum location: X=11.00, Y=-22

SAR Peak: 0.60W/kg

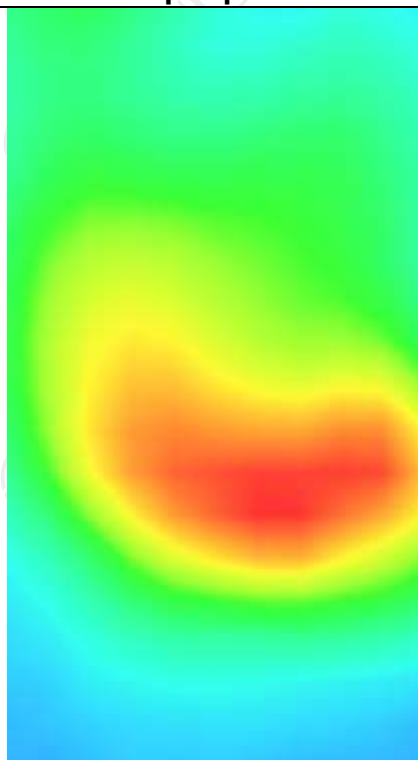
SAR 10g (W/Kg)	0.212338
SAR 1g (W/Kg)	0.405484



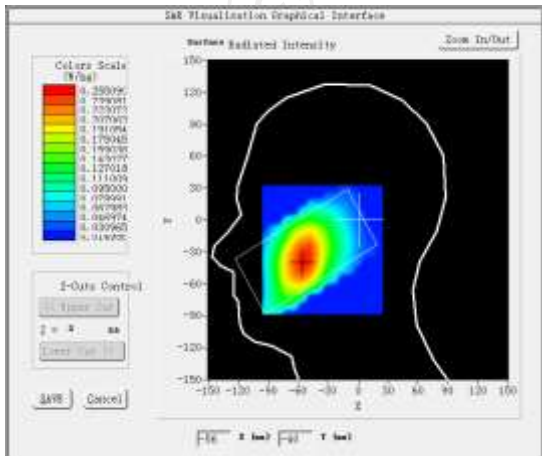
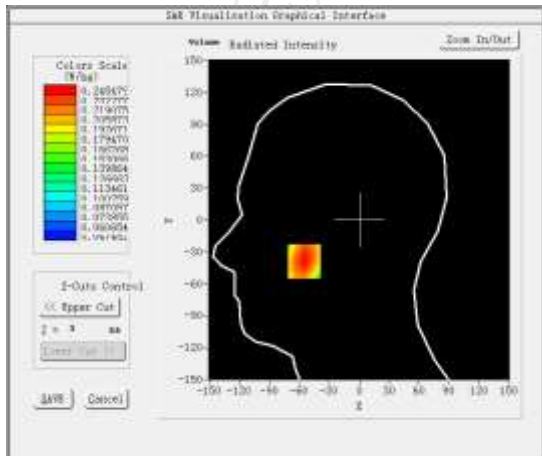
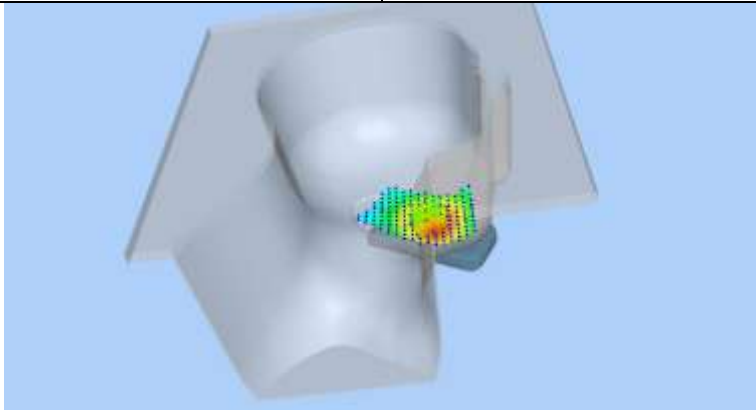
Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5909	0.4048	0.2479	0.1515	0.0938



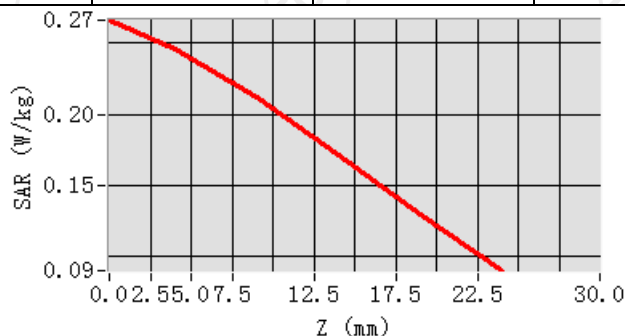
Hot spot position



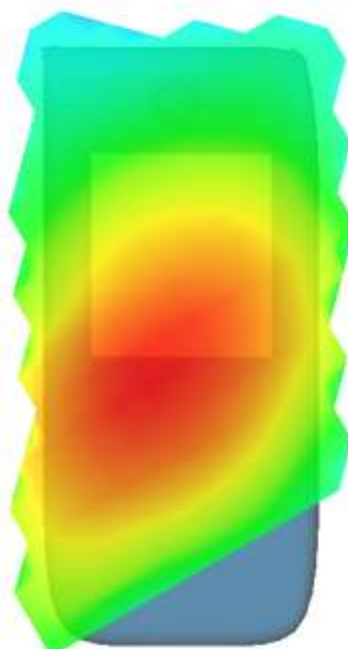
WCDMA Band V MEASUREMENT 1

Middle Band SAR (Channel 4183):		Date: 12/10/2024
Frequency (MHz)	836.600000	
Relative permittivity (real part)	41.120605	
Relative permittivity (imaginary part)	19.256901	
Conductivity (S/m)	0.913999	
Variation (%)	-3.090000	
Crest Factor:	1.0	
Probe Conversion factor	1.80	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	BAND5 WCDMA850	
SURFACE SAR	VOLUME SAR	
		
Maximum location: X=-55.00, Y=-39.00 SAR Peak: 0.27 W/kg		
SAR 10g (W/Kg)	0.177873	
SAR 1g (W/Kg)	0.358190	
		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2664	0.2455	0.2117	0.1716	0.1291



Hot spot position



MEASUREMENT 2

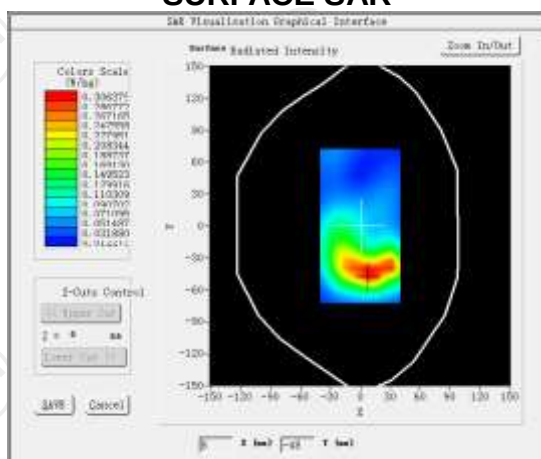
Middle Band SAR (Channel 4183):

Date: 12/10/2024

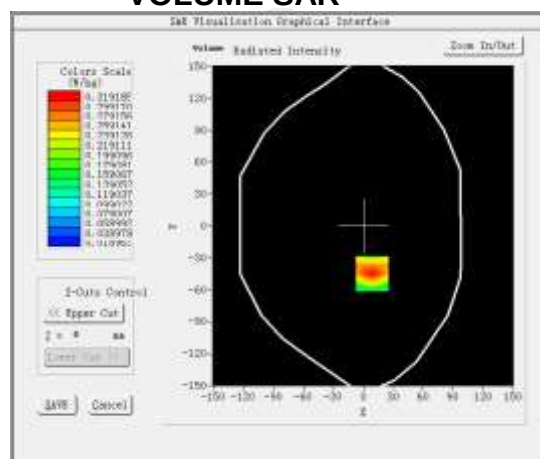
Frequency (MHz)	836.600000
Relative permittivity (real part)	41.120605
Relative permittivity (imaginary part)	19.256901
Conductivity (S/m)	0.913999
Variation (%)	-2.290000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>BAND5 WCDMA850</u>

SURFACE SAR



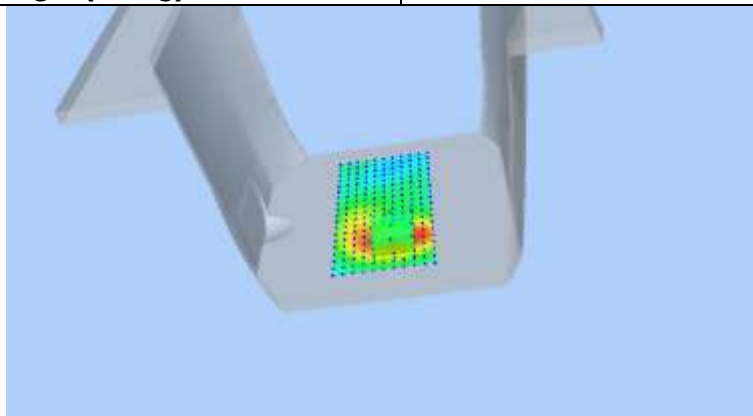
VOLUME SAR



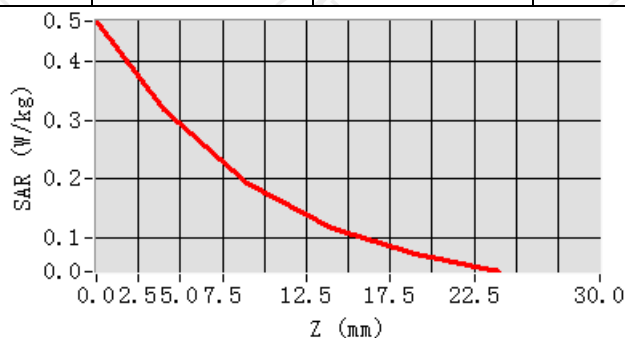
Maximum location: X=9.00, Y=-45.00

SAR Peak 0.47 W/kg

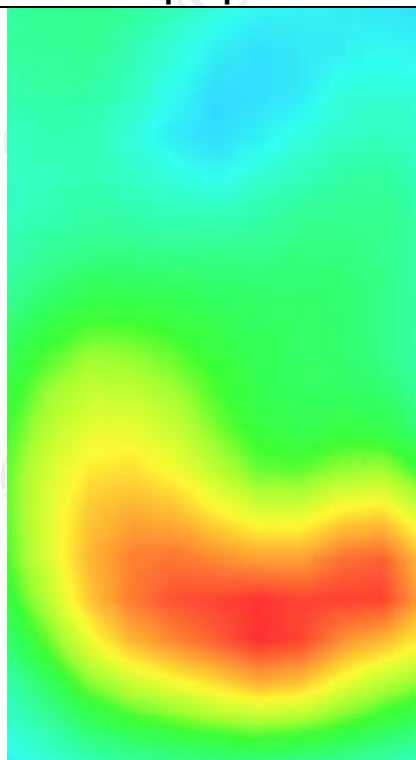
SAR 10g (W/Kg)	0.161101
SAR 1g (W/Kg)	0.330259



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4689	0.3202	0.1936	0.1172	0.0718



Hot spot position



MEASUREMENT 3

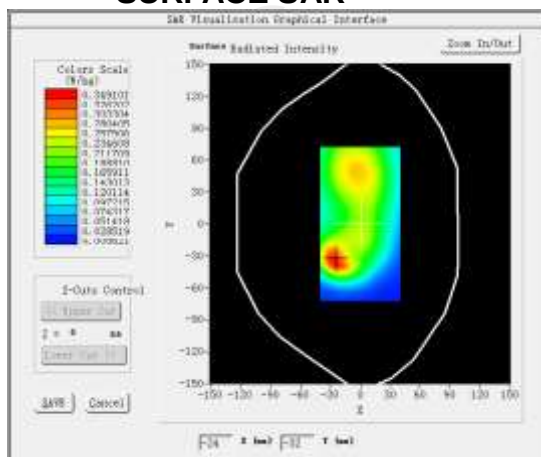
Middle Band SAR (Channel 4183):

Date: 12/10/2024

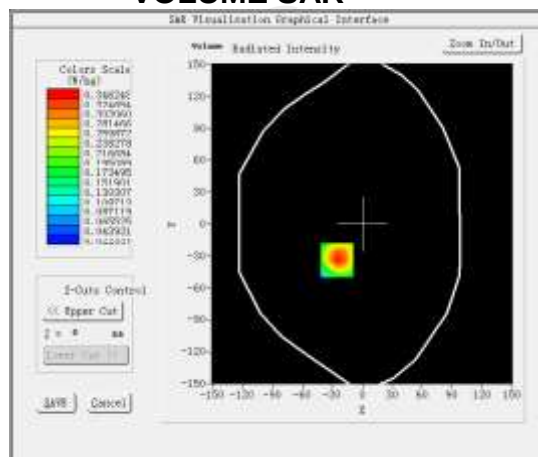
Frequency (MHz)	836.600000
Relative permittivity (real part)	41.120605
Relative permittivity (imaginary part)	19.256901
Conductivity (S/m)	0.913999
Variation (%)	-2.150000
Crest Factor:	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	BAND5 WCDMA850(hotspot)

SURFACE SAR



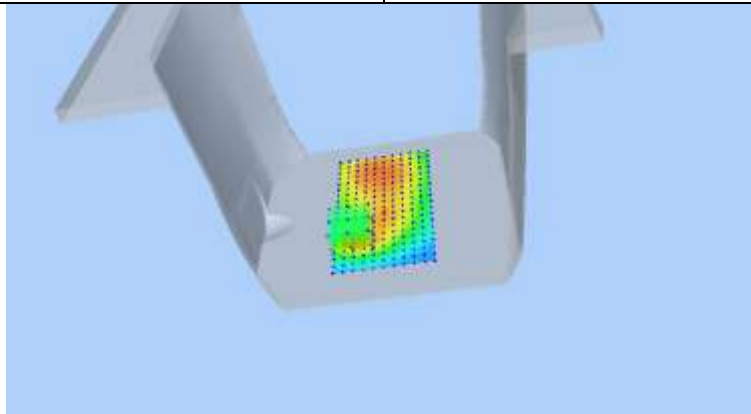
VOLUME SAR



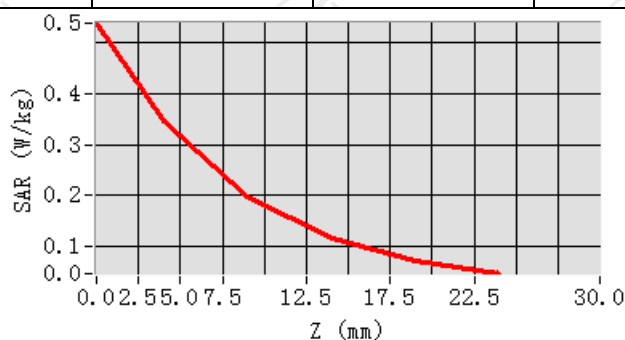
Maximum location: X=-25.00, Y=-34.00

SAR Peak: 0.54 W/kg

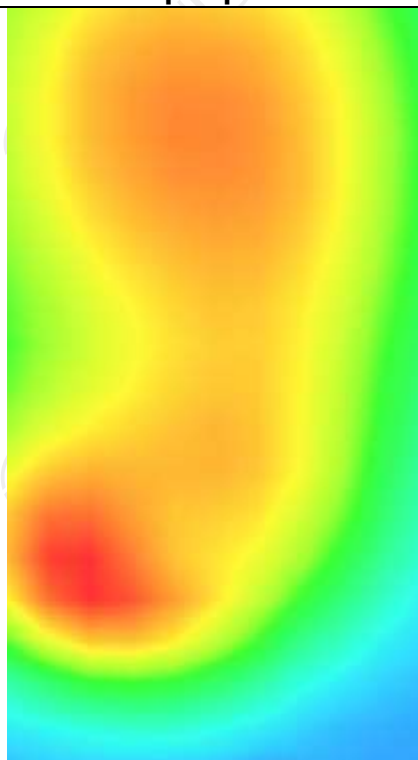
SAR 10g (W/Kg)	0.168422
SAR 1g (W/Kg)	0.311827



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5388	0.3392	0.1952	0.1132	0.0712



Hot spot position

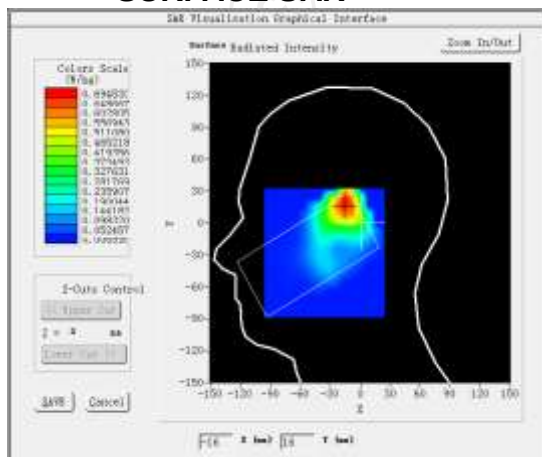


LTE Band 2

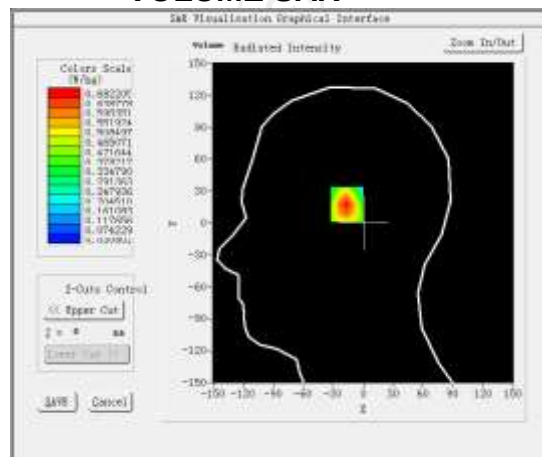
MEASUREMENT 1

Middle Band SAR (Channel 18900):		Date: 12/18/2024
Frequency (MHz)	1880.000000	
Relative permittivity (real part)	40.010708	
Relative permittivity (imaginary part)	13.540285	
Conductivity (S/m)	1.405459	
Variation (%)	0.090000	
Crest Factor	1.0	
Probe Conversion factor	2.23	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	LTE band 2 (1 RB#50)	

SURFACE SAR



VOLUME SAR



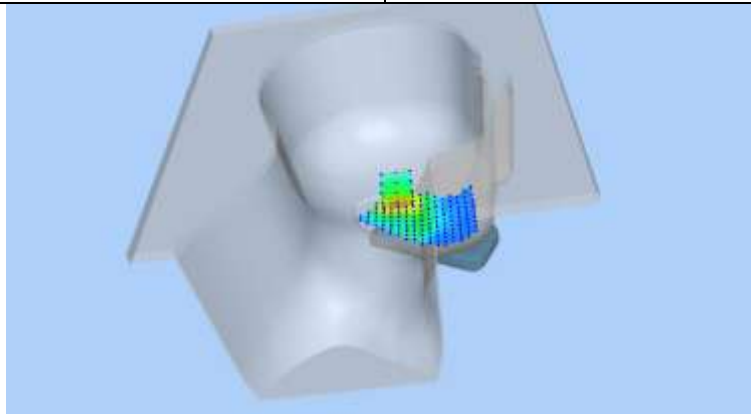
Maximum location: X=-15.00, Y=19.00 SAR Peak: 0.99 W/kg

SAR 10g (W/Kg)

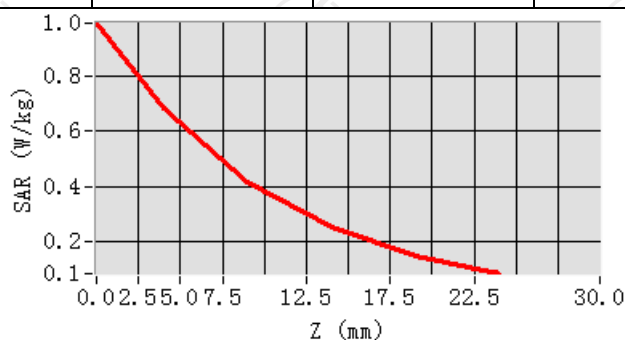
0.355235

SAR 1g (W/Kg)

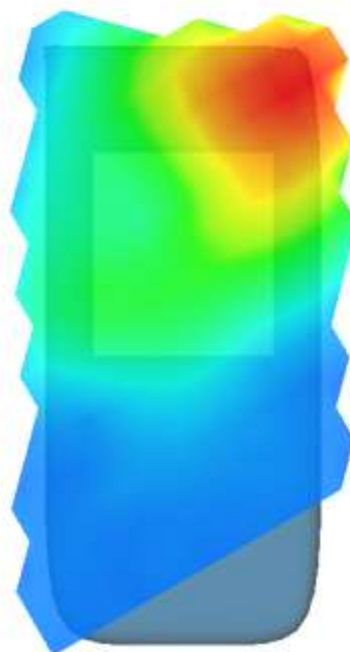
0.593140



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9930	0.6822	0.4168	0.2511	0.1500



Hot spot position



MEASUREMENT 2

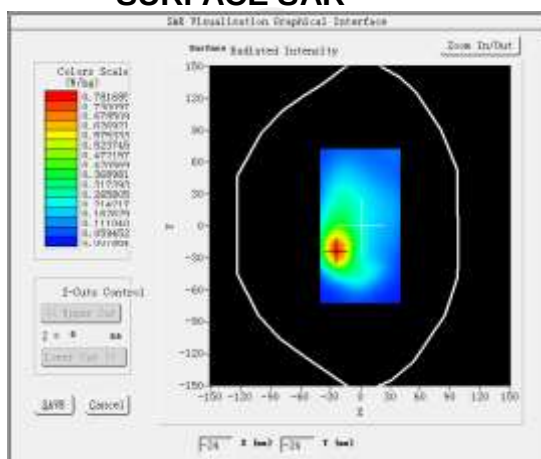
Middle Band SAR (Channel 18900):

Date: 12/18/2024

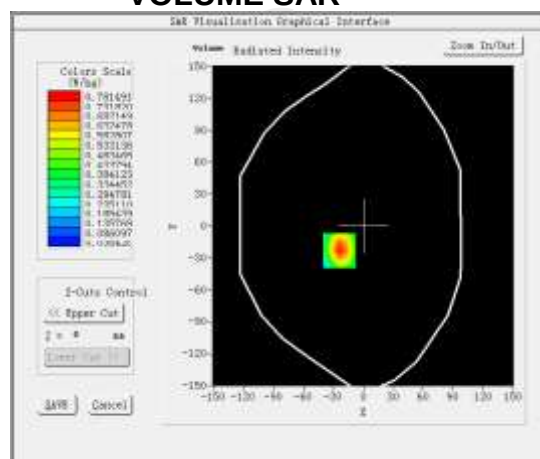
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.010708
Relative permittivity (imaginary part)	13.540285
Conductivity (S/m)	1.405459
Variation (%)	2.060000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body Front(10mm)
Band	LTE band 2 (1 RB#50)

SURFACE SAR

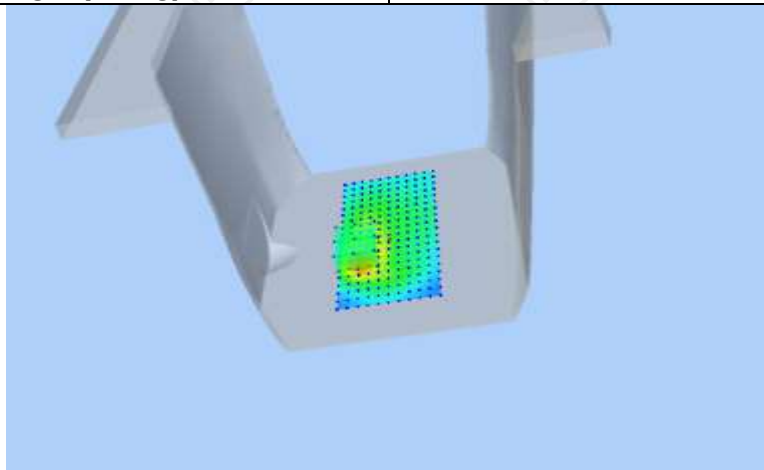


VOLUME SAR

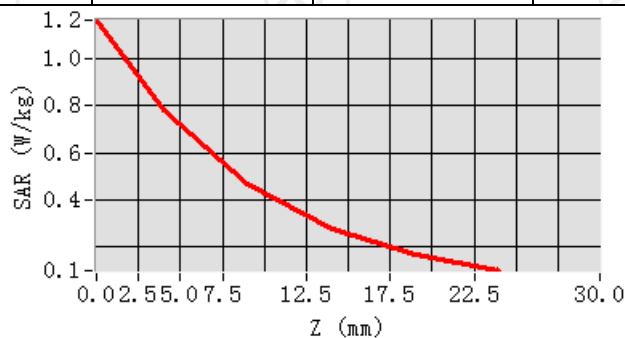


Maximum location: X=-24.00, Y=-23.00 SAR Peak: 1.17W/kg

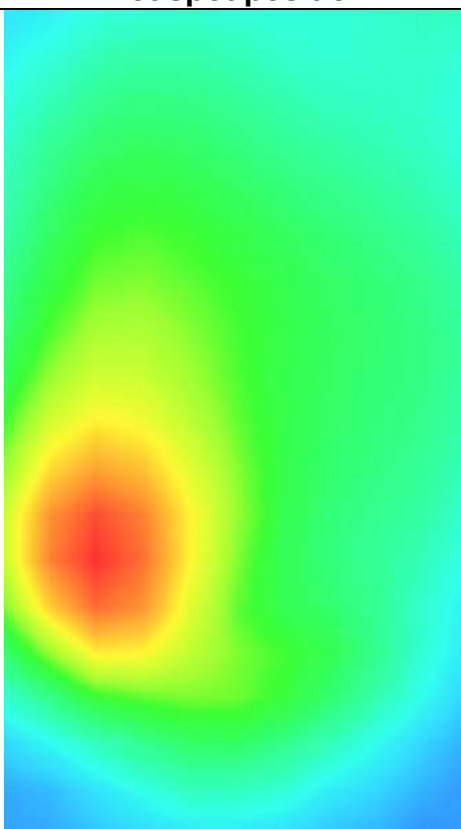
SAR 10g (W/Kg)	0.409799
SAR 1g (W/Kg)	0.880147



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.1626	0.7815	0.4664	0.2784	0.1694



Hot spot position



MEASUREMENT 3

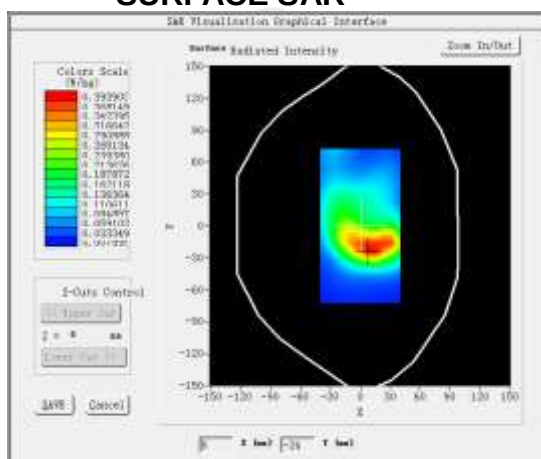
Middle Band SAR (Channel 18900):

Date: 12/18/2024

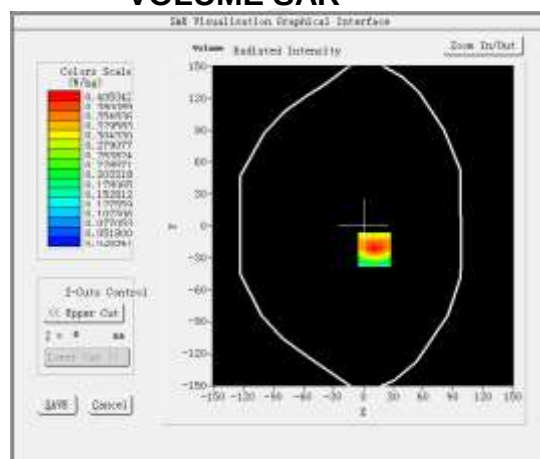
Frequency (MHz)	1880.000000
Relative permittivity (real part)	40.010708
Relative permittivity (imaginary part)	13.540285
Conductivity (S/m)	1.405459
Variation (%)	-1.480000
Crest Factor	1.0
Probe Conversion factor	2.23
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>LTE band 2 (1 RB#50)</u>

SURFACE SAR



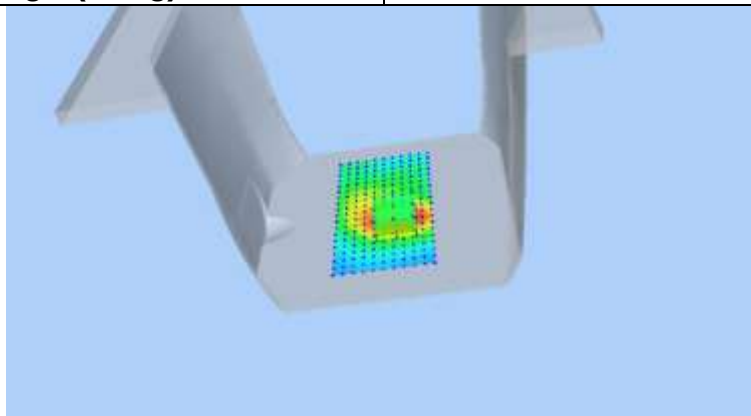
VOLUME SAR



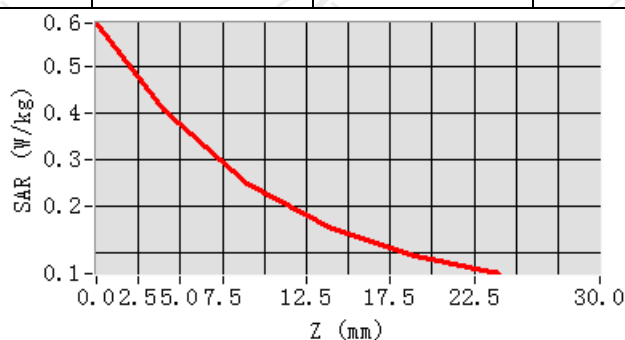
Maximum location: X=11.00, Y=-22

SAR Peak: 0.60W/kg

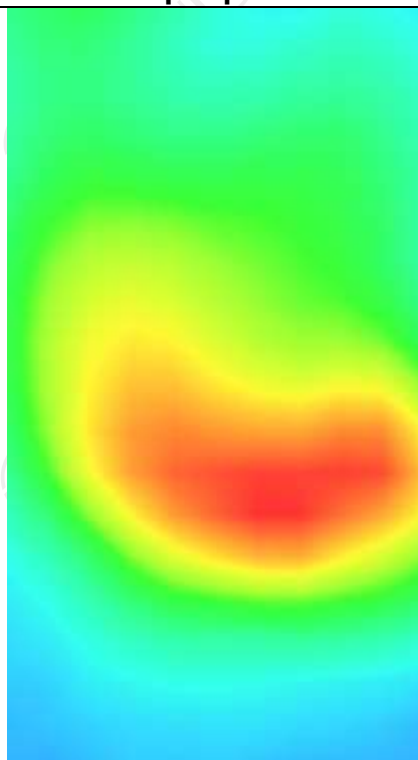
SAR 10g (W/Kg)	0.314538
SAR 1g (W/Kg)	0.655484



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6354	0.4053	0.2483	0.1519	0.0940



Hot spot position



LTE Band 4

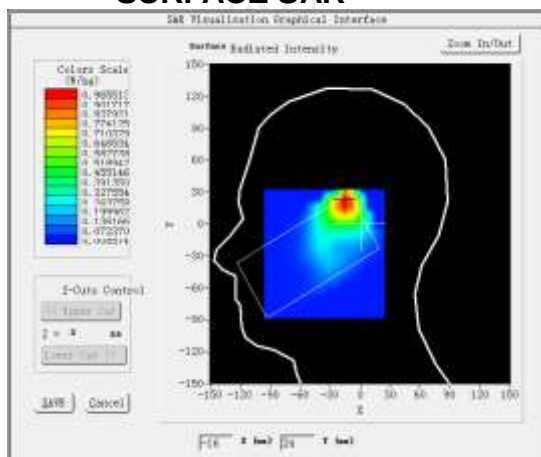
MEASUREMENT 1

Middle Band SAR (Channel 20175):

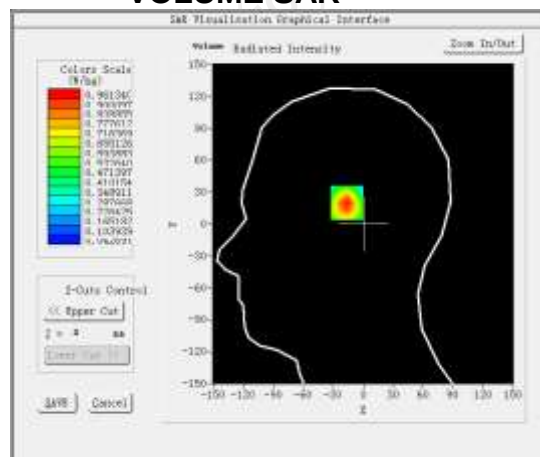
Date: 12/13/2024

Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.414270
Relative permittivity (imaginary part)	14.496106
Conductivity (S/m)	1.359146
Variation (%)	-3.400000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	dx=8mm dy=8mm, h= 5.00 mm
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm
Phantom	Left head
Device Position	Cheek
Band	LTE band 4(1 RB#50)

SURFACE SAR



VOLUME SAR



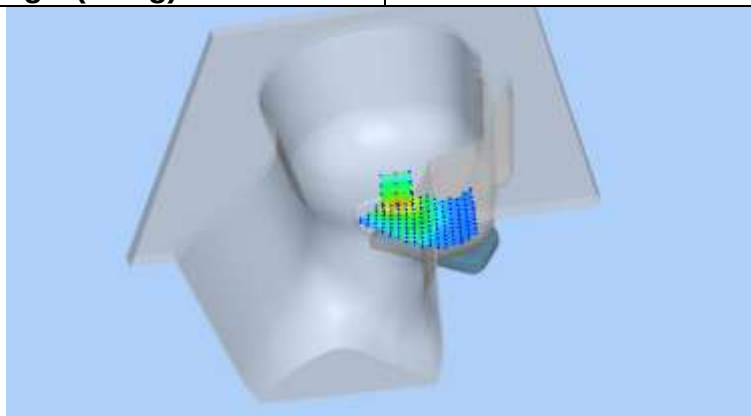
Maximum location: X=-15.00, Y=22.00 SAR Peak: 1.42 W/kg

SAR 10g (W/Kg)

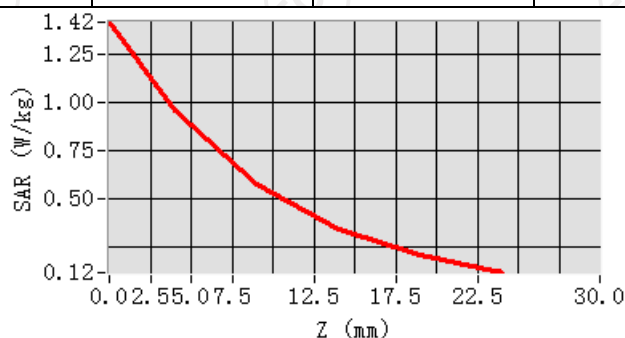
0.312212

SAR 1g (W/Kg)

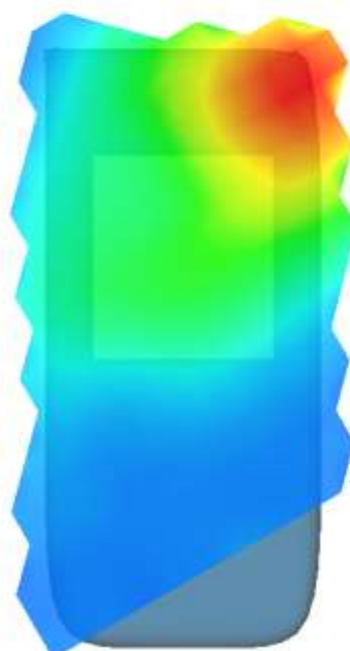
0.647353



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4183	0.9613	0.5782	0.3451	0.2068



Hot spot position



MEASUREMENT 2

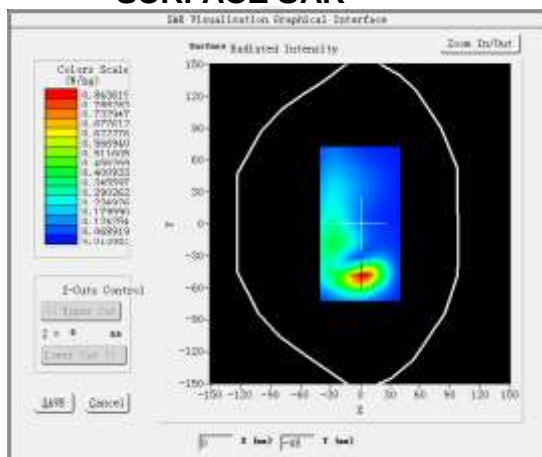
Middle Band SAR (Channel 20175):

Date: 12/13/2024

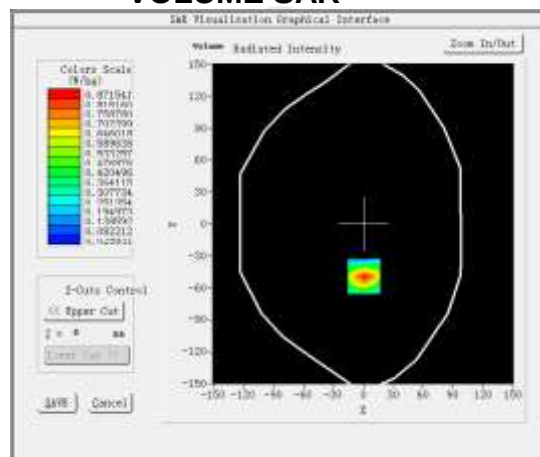
Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.414270
Relative permittivity (imaginary part)	14.496106
Conductivity (S/m)	1.359146
Variation (%)	0.770000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	LTE band 4(1 RB#50)

SURFACE SAR

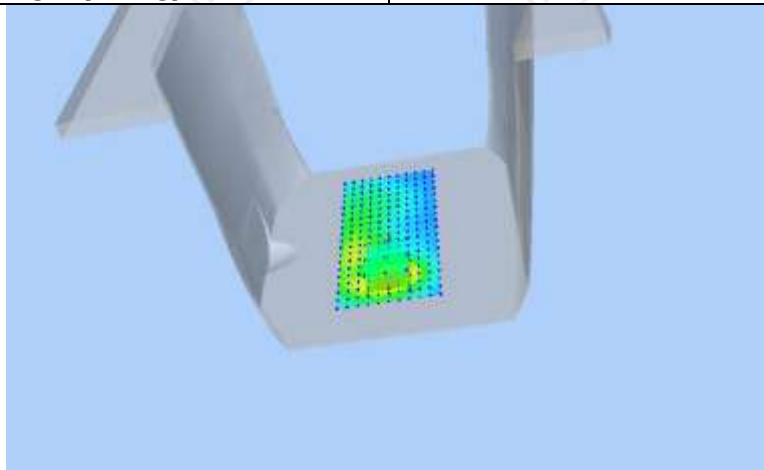


VOLUME SAR

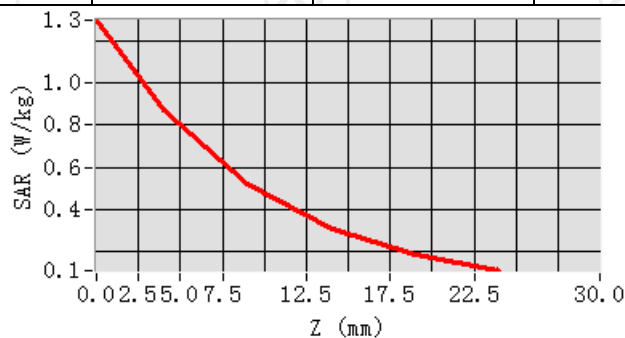


Maximum location: X=1.00, Y=-49.00 SAR Peak: 1.31 W/kg

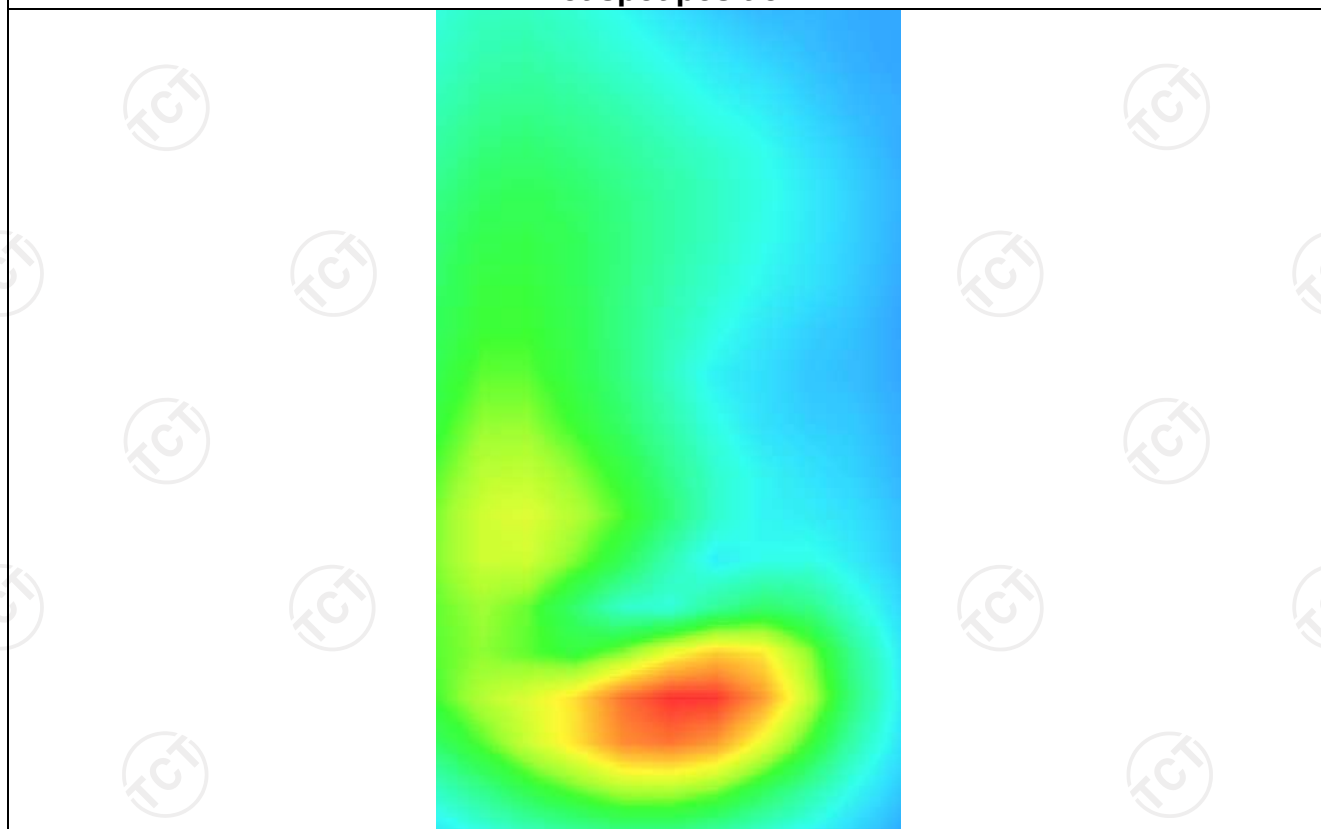
SAR 10g (W/Kg)	0.422460
SAR 1g (W/Kg)	0.874245



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2979	0.8715	0.5194	0.3097	0.1883



Hot spot position



MEASUREMENT 3

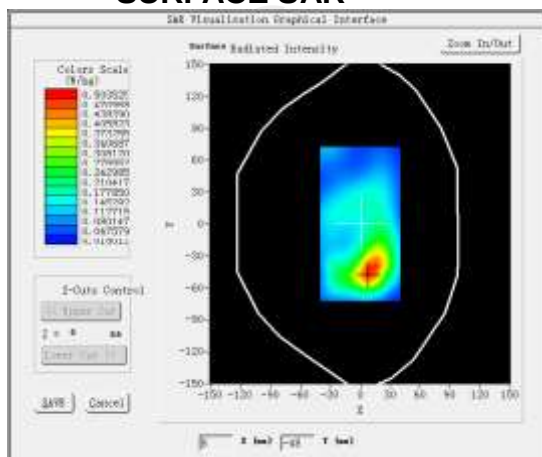
Middle Band SAR (Channel 20175):

Date: 12/13/2024

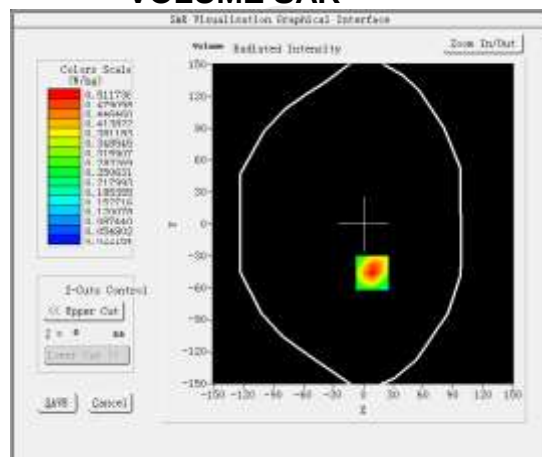
Frequency (MHz)	1732.500000
Relative permittivity (real part)	40.414270
Relative permittivity (imaginary part)	14.496106
Conductivity (S/m)	1.359146
Variation (%)	2.360000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>LTE band 4(1 RB#50)</u>

SURFACE SAR

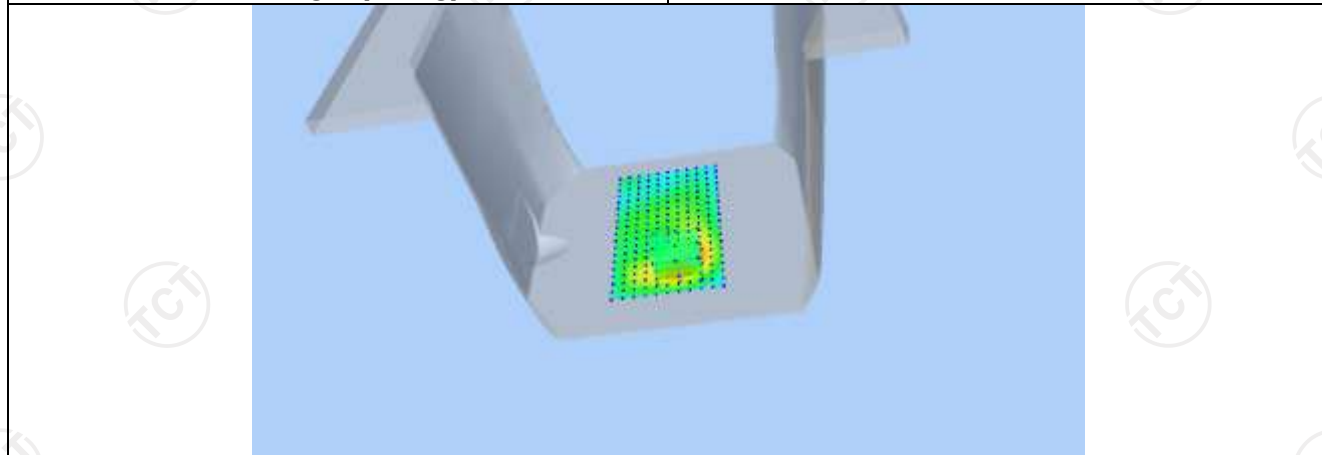


VOLUME SAR

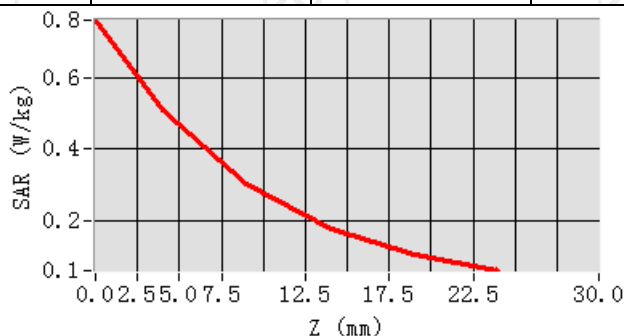


Maximum location: X=9.00, Y=-46.00 SAR Peak: 0.77 W/kg

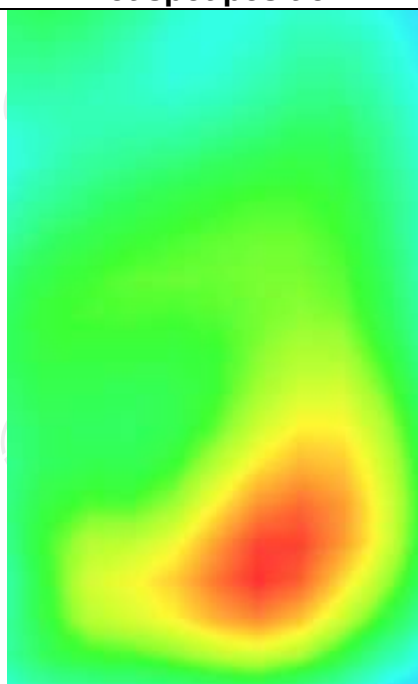
SAR 10g (W/Kg)	0.298098
SAR 1g (W/Kg)	0.615299



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7642	0.5117	0.3026	0.1774	0.1046



Hot spot position



LTE Band 5

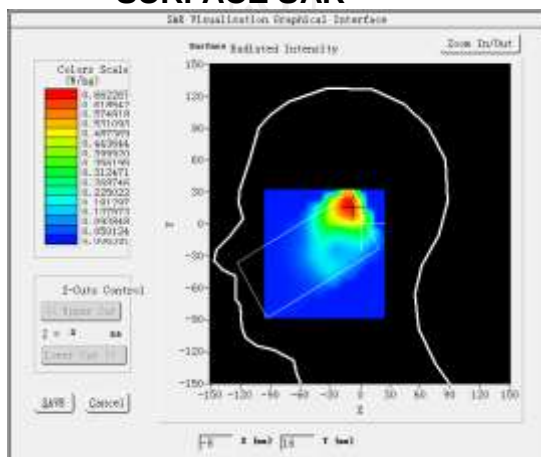
MEASUREMENT 1

Low Band SAR (Channel 20450):

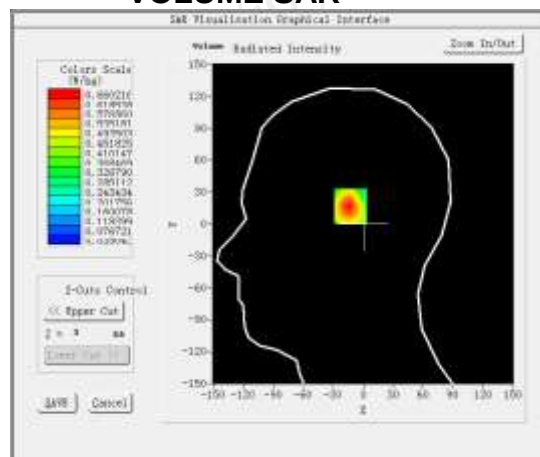
Date: 12/10/2024

Frequency (MHz)	829.000000
Relative permittivity (real part)	41.488873
Relative permittivity (imaginary part)	19.446852
Conductivity (S/m)	0.912438
Variation (%)	-2.390000
Crest Factor	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 5(1 RB#0)</u>

SURFACE SAR



VOLUME SAR



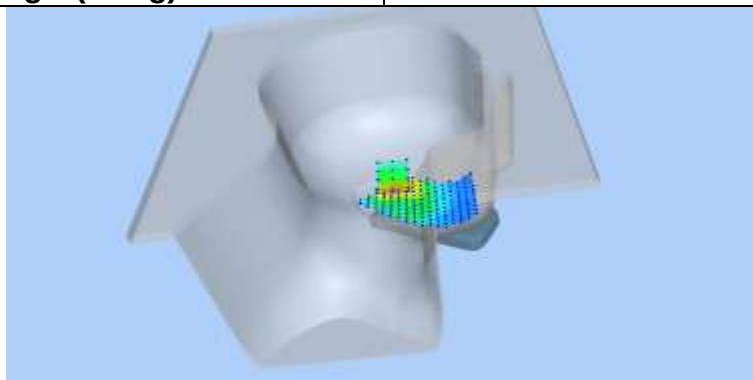
Maximum location: X=-11.00, Y=18.00 SAR Peak: 0.96 W/kg

SAR 10g (W/Kg)

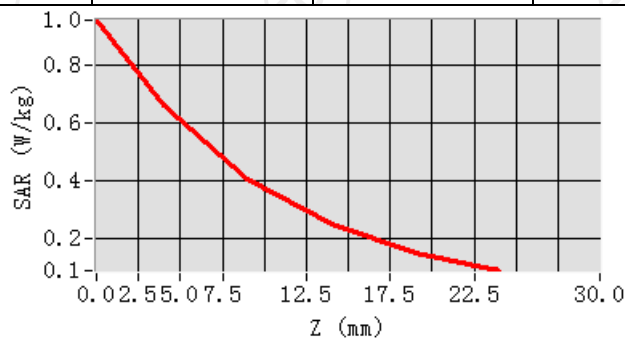
0.298190

SAR 1g (W/Kg)

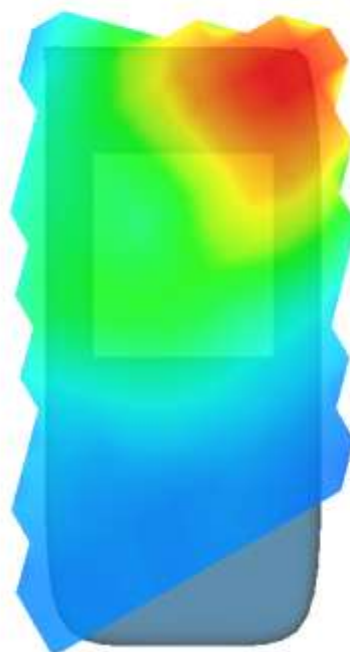
0.565329



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.9567	0.6602	0.4075	0.2501	0.1542



Hot spot position



MEASUREMENT 2

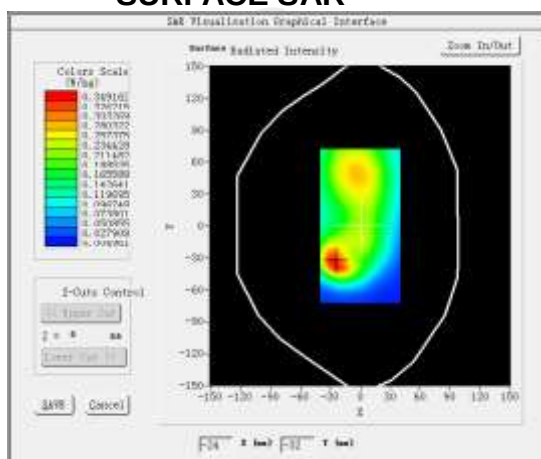
Low Band SAR (Channel 20450):

Date: 12/10/2024

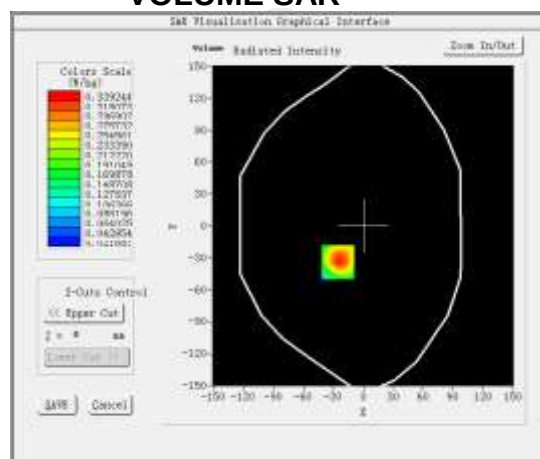
Frequency (MHz)	829.000000
Relative permittivity (real part)	41.488873
Relative permittivity (imaginary part)	19.446852
Conductivity (S/m)	0.912438
Variation (%)	-2.220000
Crest Factor	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	LTE band 5(1 RB#0)

SURFACE SAR



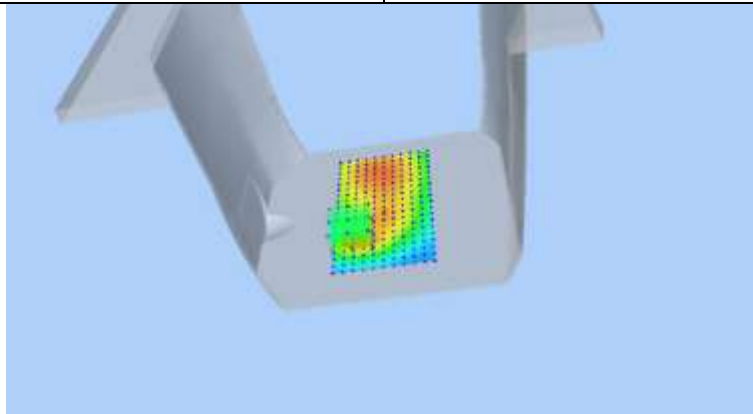
VOLUME SAR



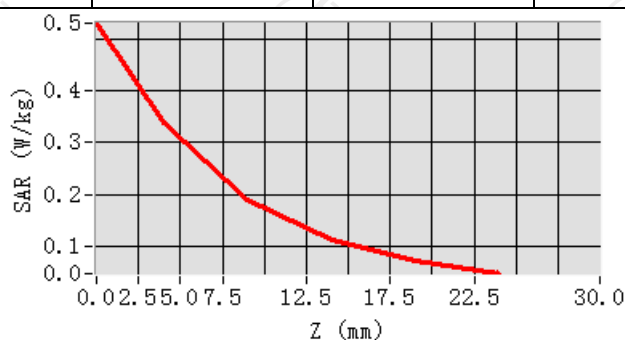
Maximum location: X=-25.00, Y=-34.00

SAR Peak: 0.54 W/kg

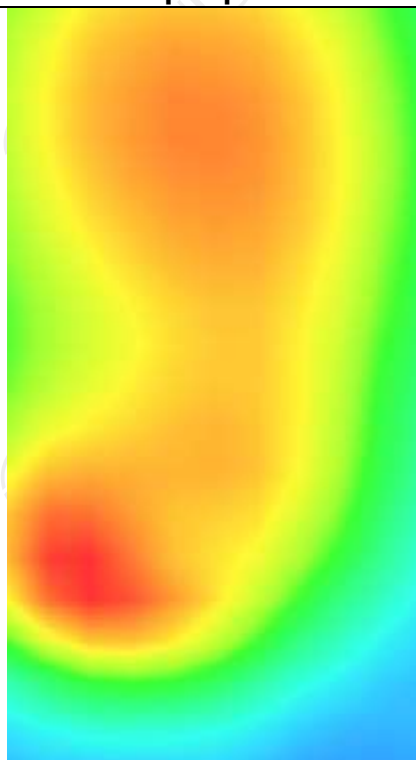
SAR 10g (W/Kg)	0.195168
SAR 1g (W/Kg)	0.412112



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5306	0.3392	0.1913	0.1117	0.0713



Hot spot position



MEASUREMENT 3

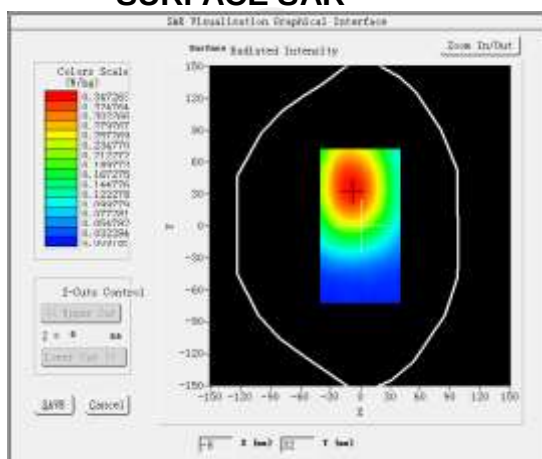
Low Band SAR (Channel 20450):

Date: 12/10/2024

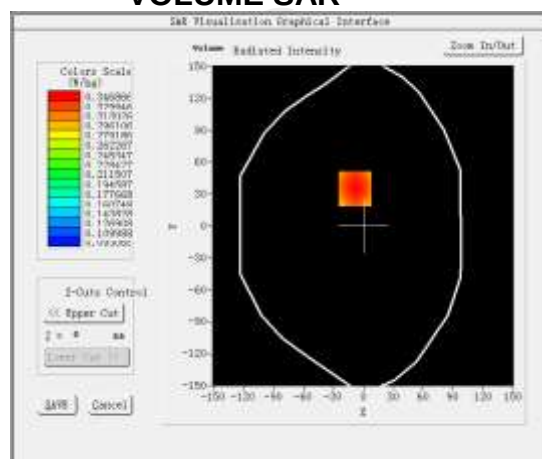
Frequency (MHz)	829.000000
Relative permittivity (real part)	41.488873
Relative permittivity (imaginary part)	19.446852
Conductivity (S/m)	0.912438
Variation (%)	-1.990000
Crest Factor	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back((hotspot 10mm)
Band	<u>LTE band 5(1 RB#0)</u>

SURFACE SAR



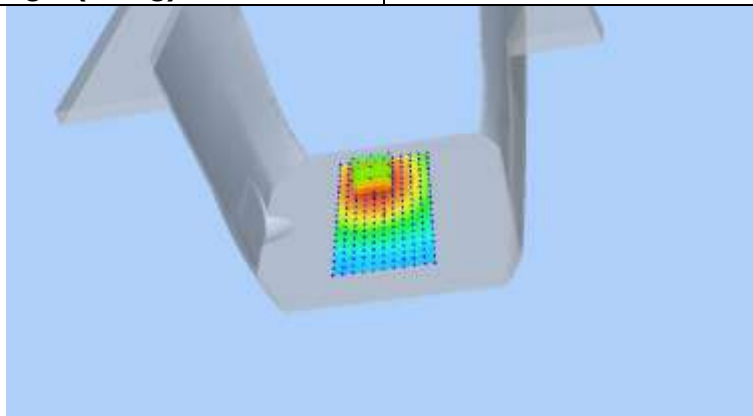
VOLUME SAR



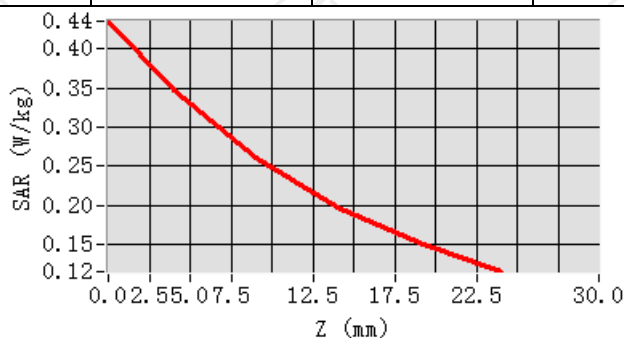
Maximum location: X=-8.00, Y=35.00

SAR Peak: 0.44 W/kg

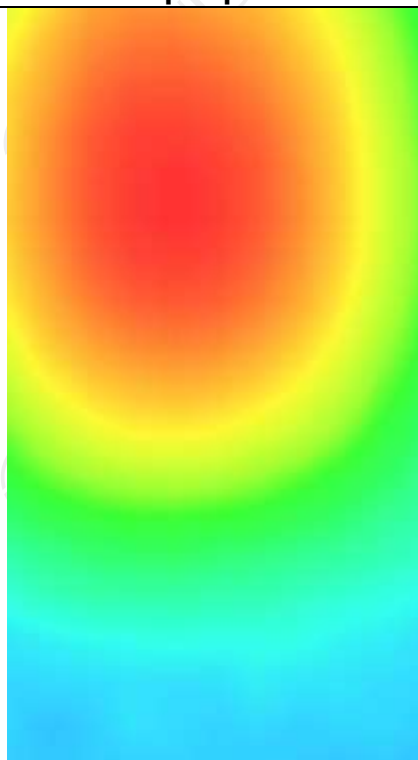
SAR 10g (W/Kg)	0.249737
SAR 1g (W/Kg)	0.342026



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4359	0.3469	0.2608	0.1978	0.1515



Hot spot position



LTE Band 7

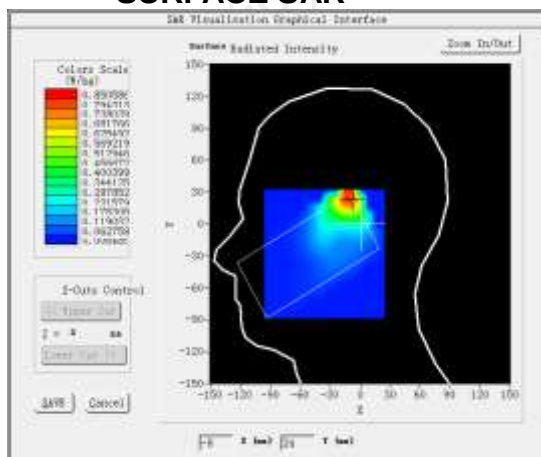
MEASUREMENT 1

Low Band SAR (Channel 20850):

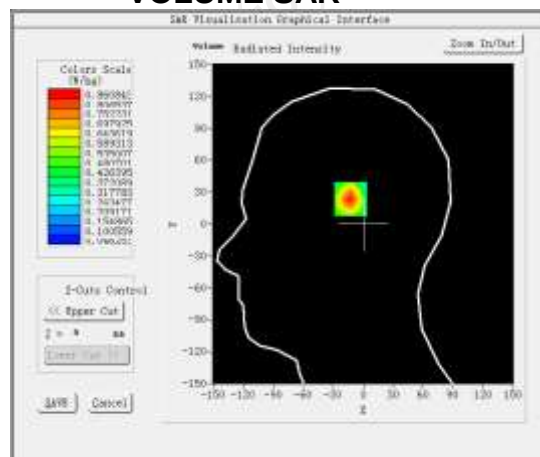
Date: 12/25/2024

Frequency (MHz)	2510.000000
Relative permittivity (real part)	38.925711
Relative permittivity (imaginary part)	13.094475
Conductivity (S/m)	1.836022
Variation (%)	1.230000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 7(1 RB#0)</u>

SURFACE SAR

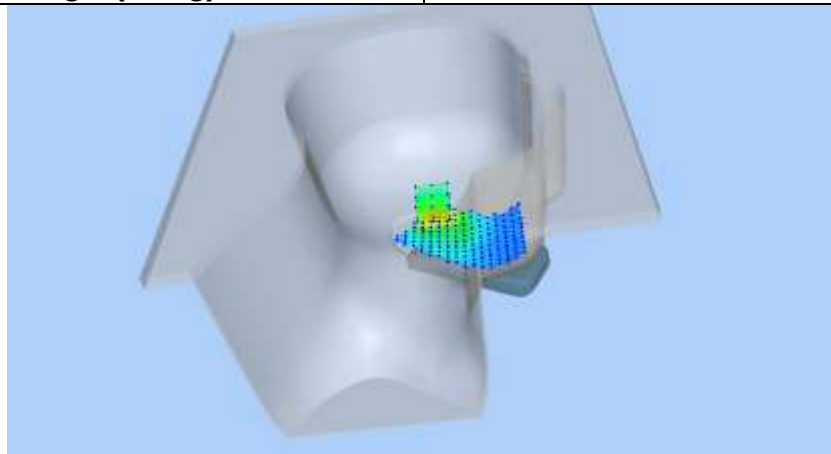


VOLUME SAR

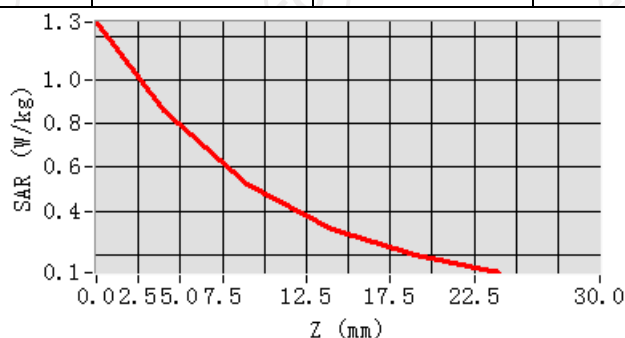


Maximum location: X=-11.00, Y=25.00 SAR Peak: 1.27 W/kg

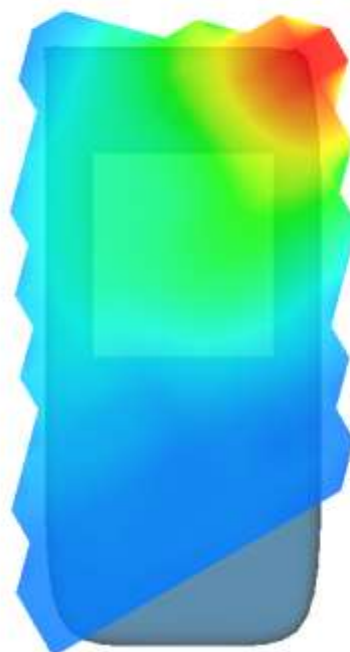
SAR 10g (W/Kg)	0.358712
SAR 1g (W/Kg)	0.654042



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.2654	0.8608	0.5225	0.3174	0.1963



Hot spot position



MEASUREMENT 2

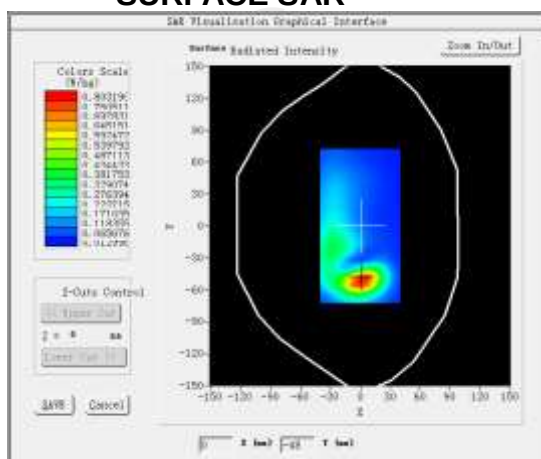
Low Band SAR (Channel 20850):

Date: 12/25/2024

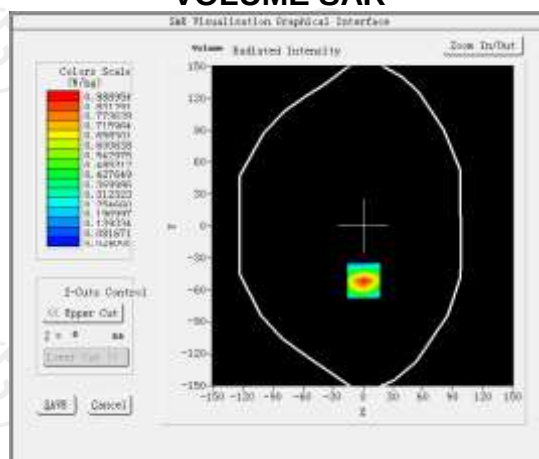
Frequency (MHz)	2510.000000
Relative permittivity (real part)	38.925711
Relative permittivity (imaginary part)	13.094475
Conductivity (S/m)	1.836022
Variation (%)	1.970000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>LTE band 7(1 RB#0)</u>

SURFACE SAR

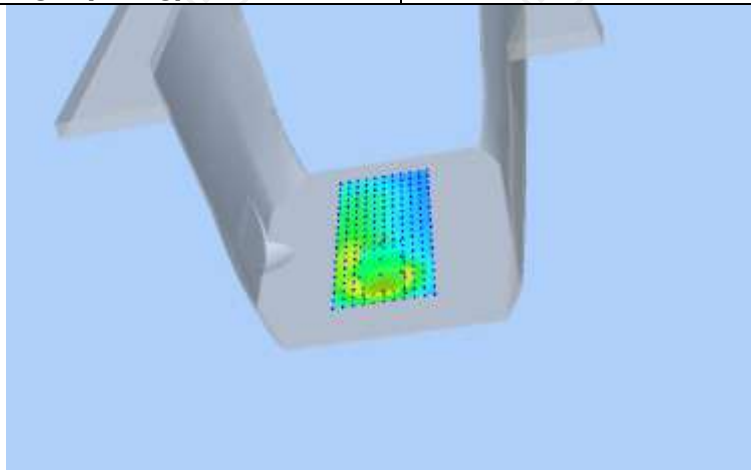


VOLUME SAR

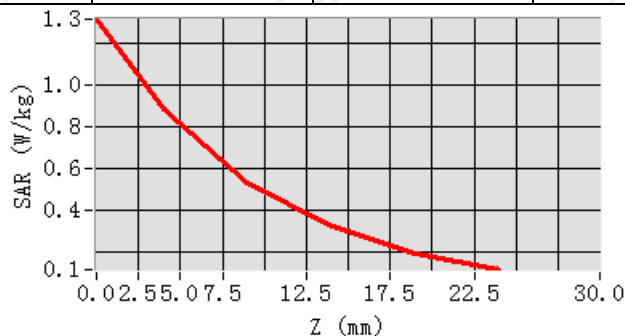


Maximum location: X=1.00, Y=-51.00 SAR Peak: 1.33 W/kg

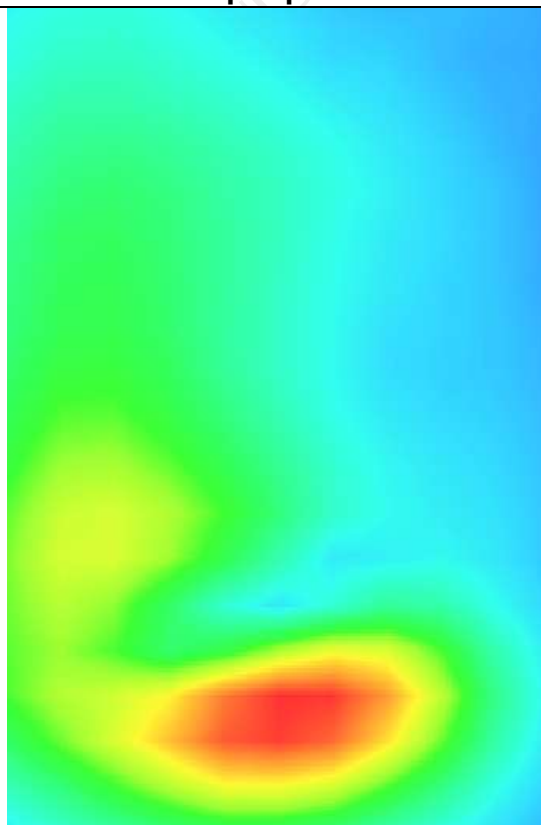
SAR 10g (W/Kg)	0.454115
SAR 1g (W/Kg)	0.917325



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3171	0.8920	0.5333	0.3197	0.1950



Hot spot position



MEASUREMENT 3

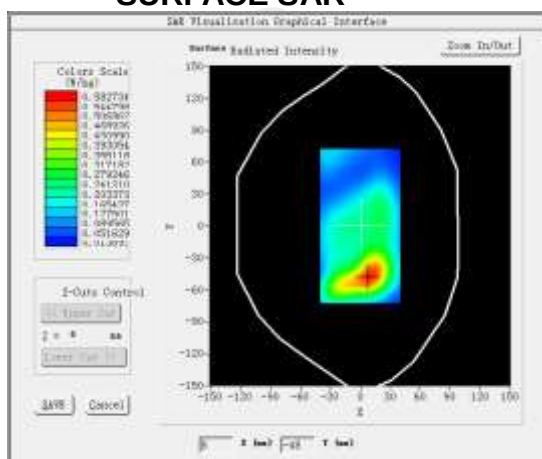
Low Band SAR (Channel 20850):

Date: 12/25/2024

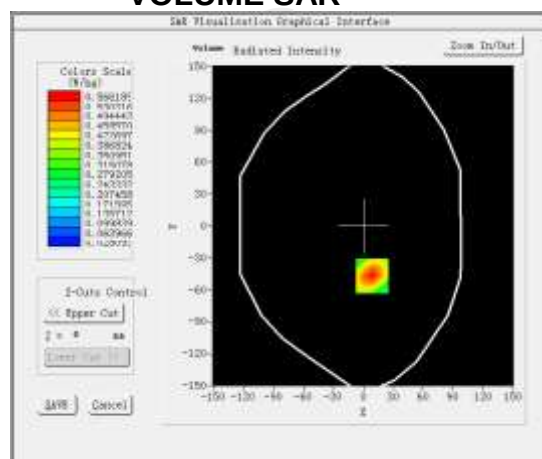
Frequency (MHz)	2510.000000
Relative permittivity (real part)	38.925711
Relative permittivity (imaginary part)	13.094475
Conductivity (S/m)	1.836022
Variation (%)	0.940000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>LTE band 7(1 RB#0)</u>

SURFACE SAR

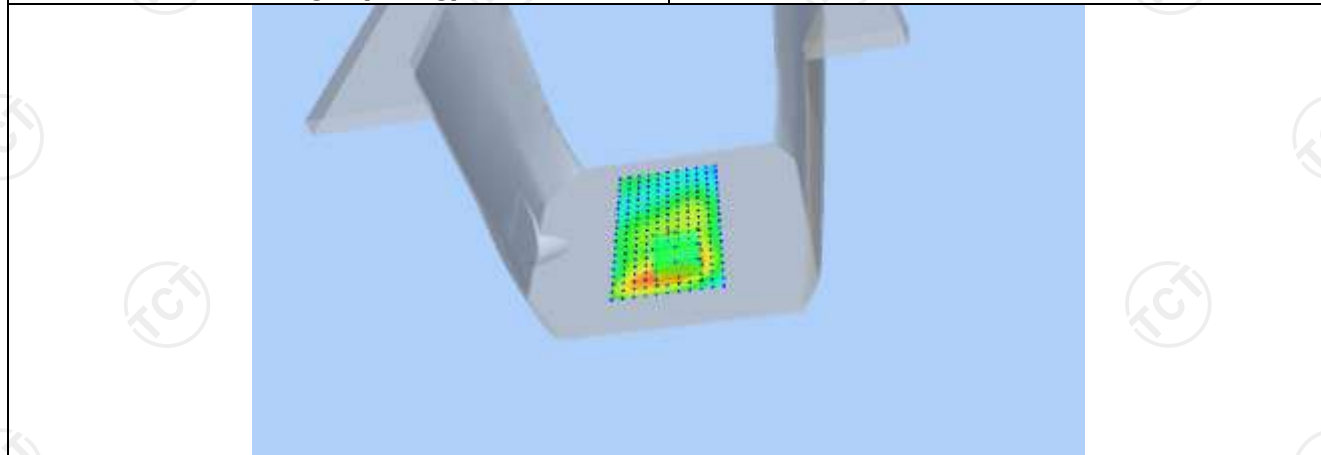


VOLUME SAR

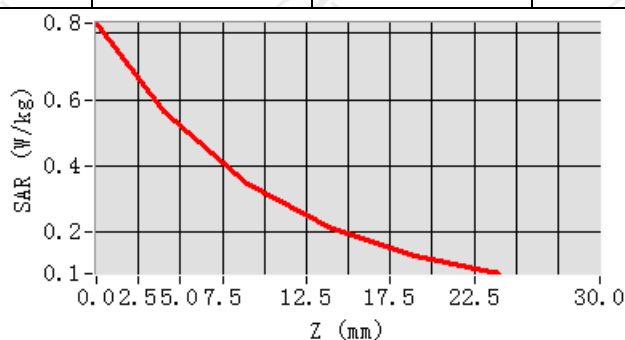


Maximum location: X=9.00, Y=-47.00 SAR Peak: 0.83 W/kg

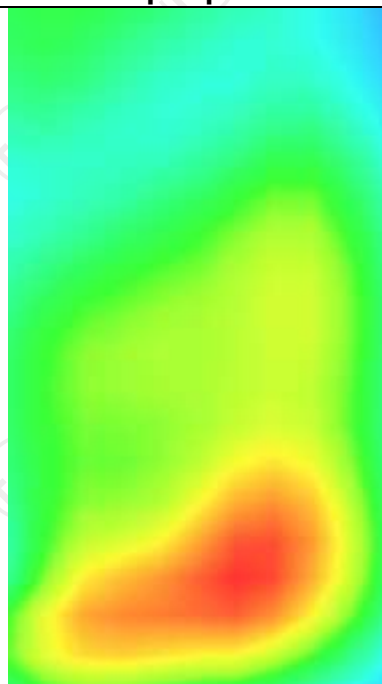
SAR 10g (W/Kg)	0.301498
SAR 1g (W/Kg)	0.566890



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8311	0.5662	0.3434	0.2073	0.1261

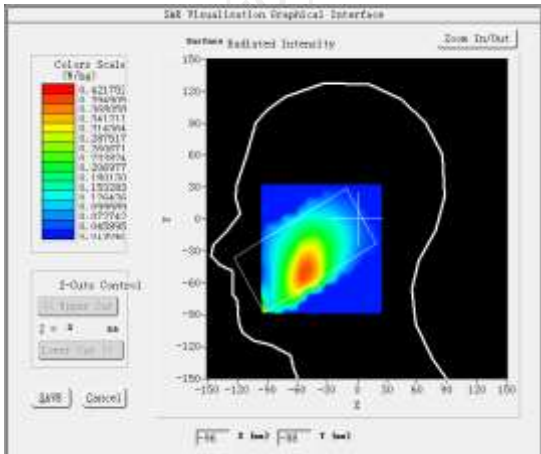
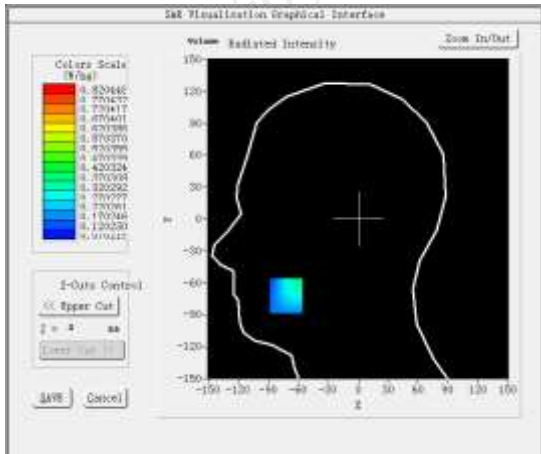


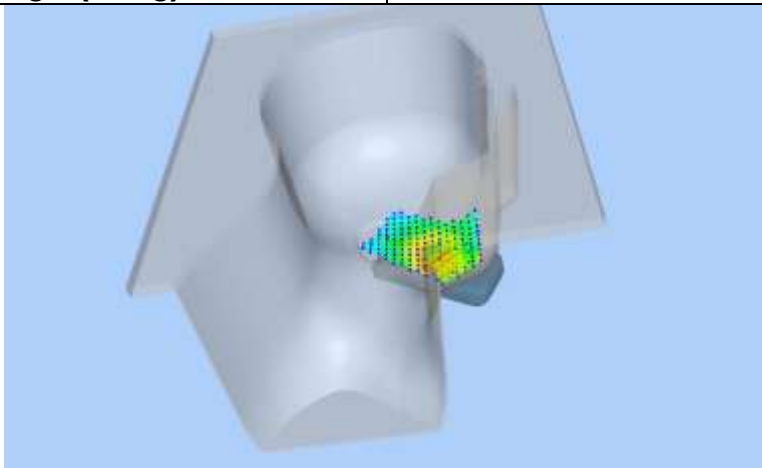
Hot spot position



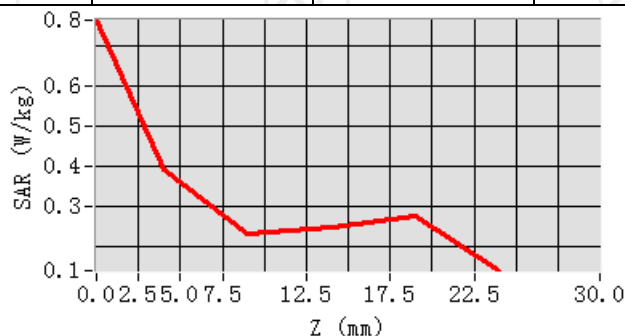
LTE Band 12

MEASUREMENT 1

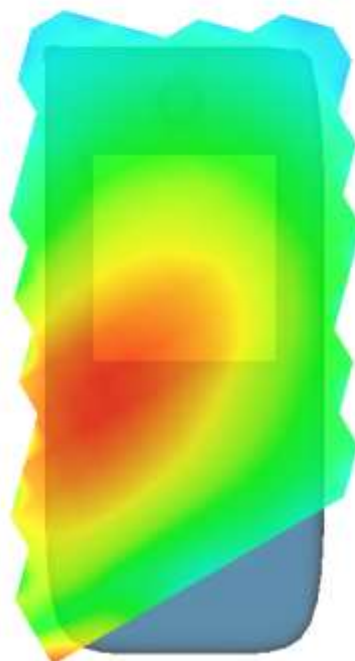
Low Band SAR (Channel 23060):		Date: 12/05/2024
Frequency (MHz)	704.000000	
Relative permittivity (real part)	42.584848	
Relative permittivity (imaginary) part)	23.227033	
Conductivity (S/m)	0.896488	
Variation (%)	-2.290000	
Crest Factor	1.0	
Probe Conversion factor	1.71	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	LTE band 12(1 RB#25)	
SURFACE SAR	VOLUME SAR	
		
Maximum location: X=-72.00, Y=-72.00 SAR Peak: 0.46 W/kg		
SAR 10g (W/Kg)	0.224279	
SAR 1g (W/Kg)	0.404354	



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.7660	0.3929	0.2317	0.2490	0.2745



Hot spot position



MEASUREMENT 2

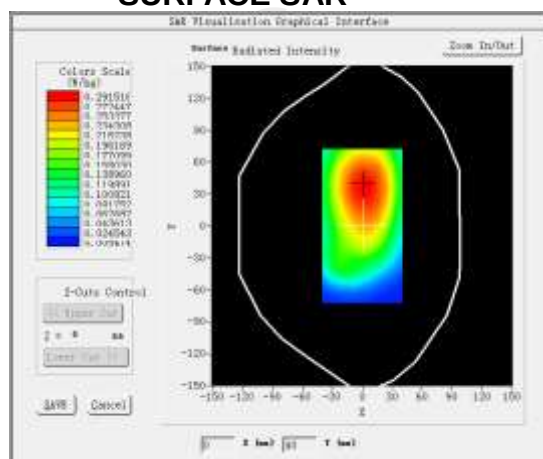
Low Band SAR (Channel 23060):

Date: 12/05/2024

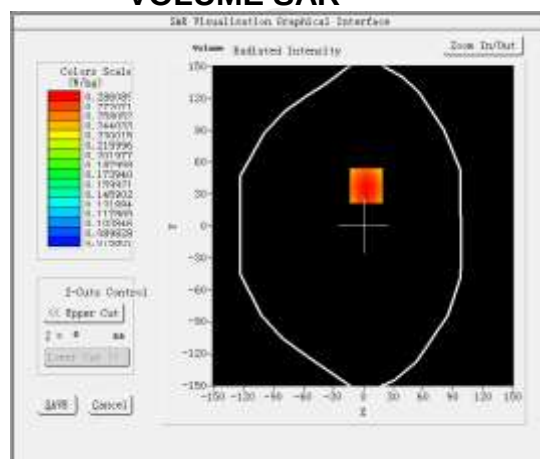
Frequency (MHz)	704.000000
Relative permittivity (real part)	42.584848
Relative permittivity (imaginary part)	23.227033
Conductivity (S/m)	0.896488
Variation (%)	-3.430000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>LTE band 12(1 RB#25)</u>

SURFACE SAR

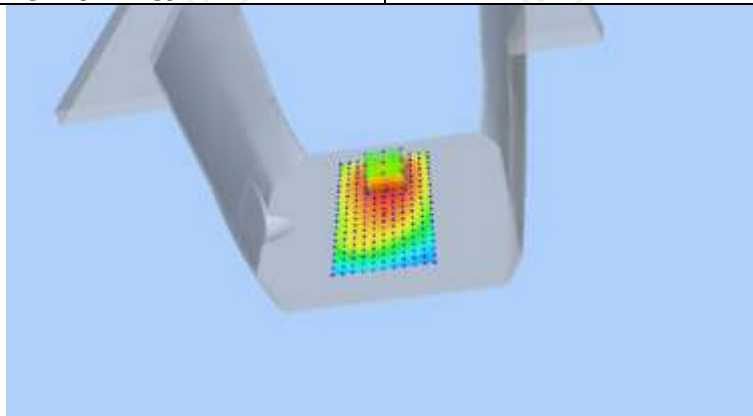


VOLUME SAR

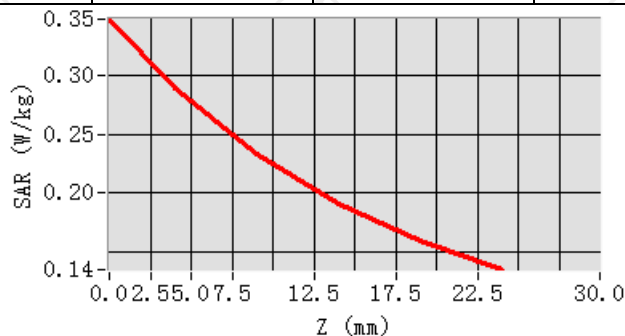


Maximum location: X=3.00, Y=38.00 SAR Peak: 0.35 W/kg

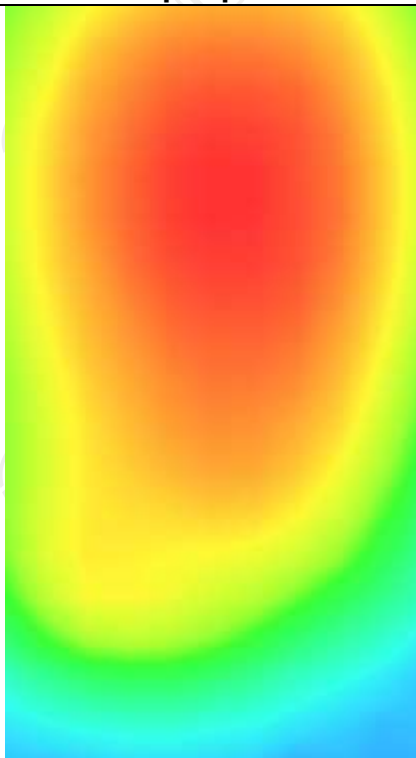
SAR 10g (W/Kg)	0.174417
SAR 1g (W/Kg)	0.338108



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3486	0.2931	0.2215	0.1698	0.1286



Hot spot position



MEASUREMENT 3

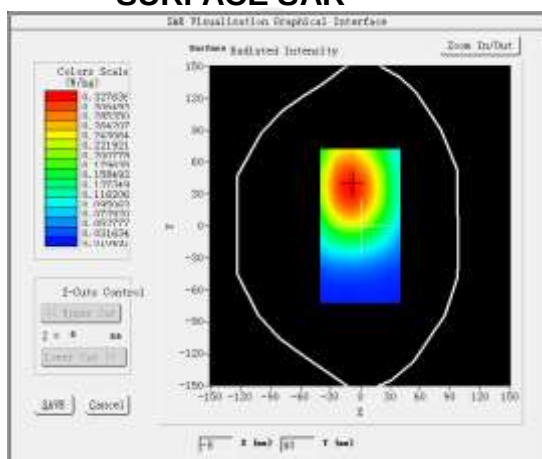
Low Band SAR (Channel 23060):

Date: 12/05/2024

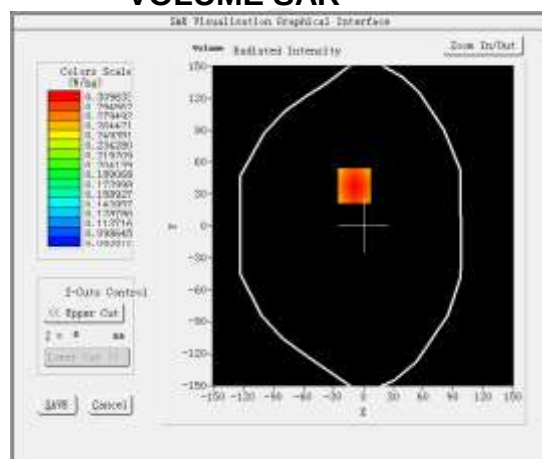
Frequency (MHz)	704.000000
Relative permittivity (real part)	42.584848
Relative permittivity (imaginary part)	23.227033
Conductivity (S/m)	0.896488
Variation (%)	-3.130000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>LTE band 12(1 RB#25)</u>

SURFACE SAR



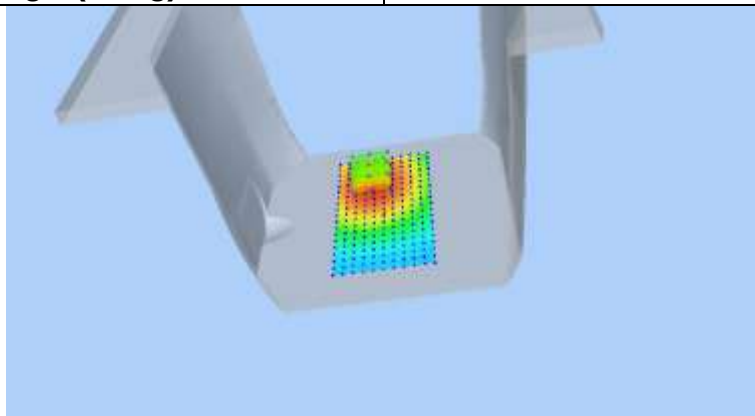
VOLUME SAR



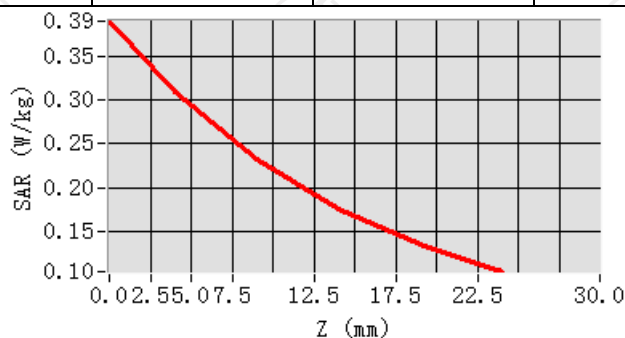
Maximum location: X=-9.00, Y=38.00

SAR Peak: 0.39 W/kg

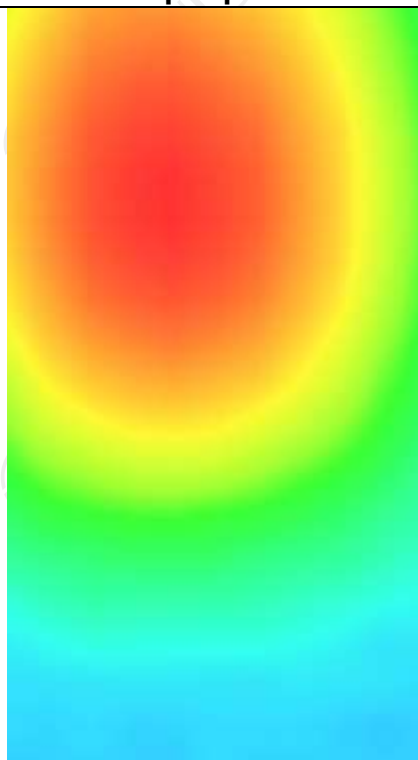
SAR 10g (W/Kg)	0.201212
SAR 1g (W/Kg)	0.309860



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3914	0.3096	0.2316	0.1753	0.1348



Hot spot position



LTE Band 13

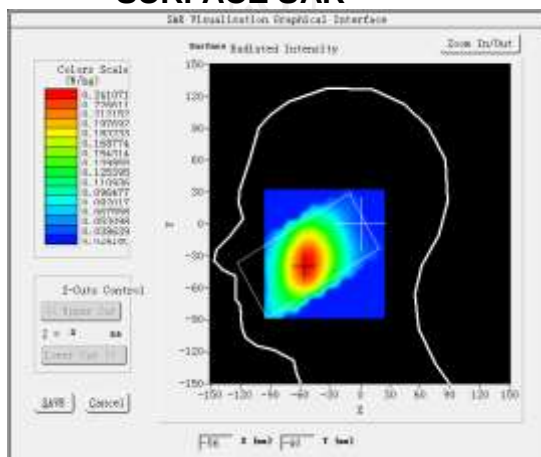
MEASUREMENT 1

Middle Band SAR (Channel 23230):

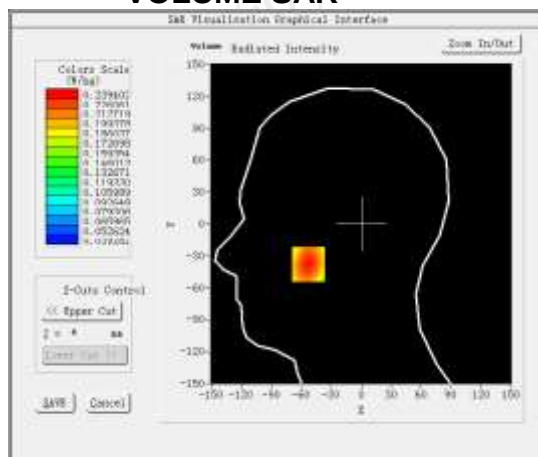
Date: 12/05/2024

Frequency (MHz)	782.000000
Relative permittivity (real part)	41.713759
Relative permittivity (imaginary part)	20.868200
Conductivity (S/m)	0.906441
Variation (%)	1.580000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 13(1 RB#25)</u>

SURFACE SAR



VOLUME SAR



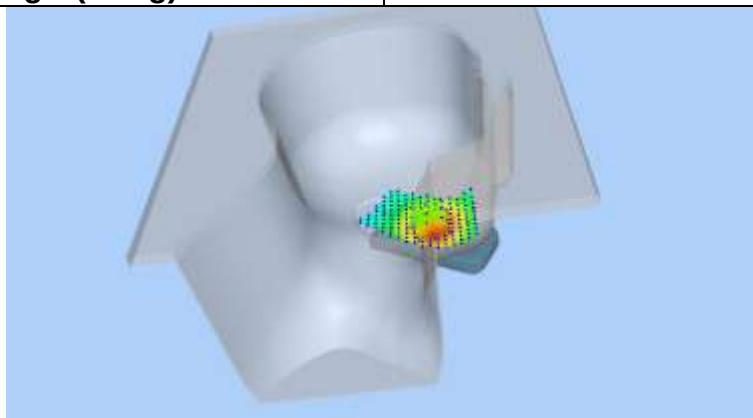
Maximum location: X=-53.00, Y=-38.00 SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)

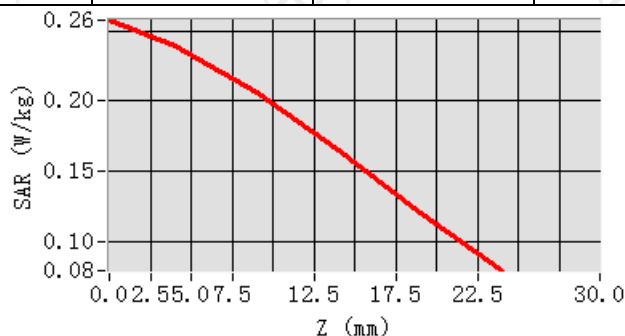
0.174314

SAR 1g (W/Kg)

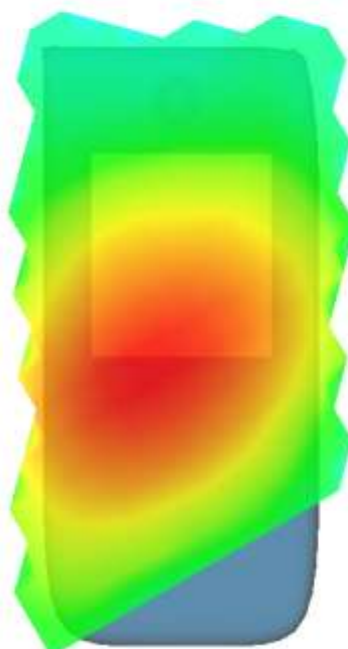
0.257313



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2576	0.2394	0.2065	0.1651	0.1204



Hot spot position



MEASUREMENT 2

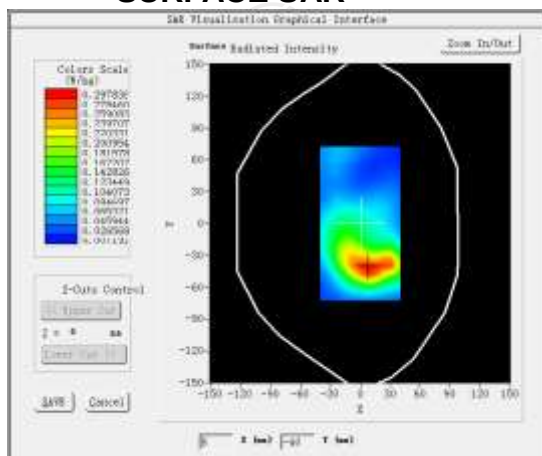
Middle Band SAR (Channel 23230):

Date: 12/05/2024

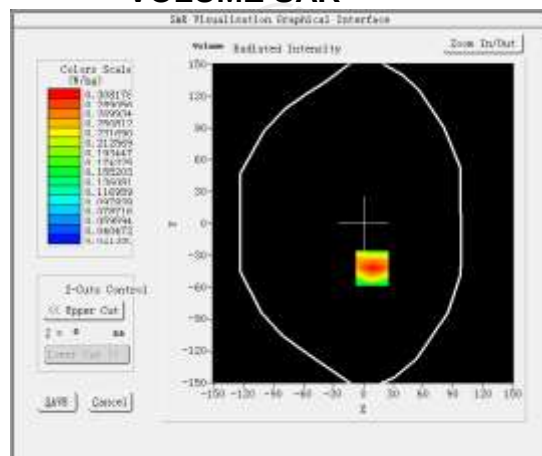
Frequency (MHz)	782.000000
Relative permittivity (real part)	41.713759
Relative permittivity (imaginary part)	20.868200
Conductivity (S/m)	0.906441
Variation (%)	-1.820000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	LTE band 13(1 RB#25)

SURFACE SAR



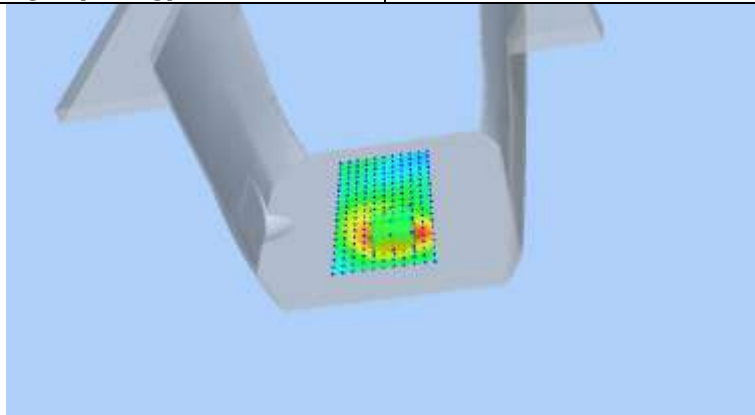
VOLUME SAR



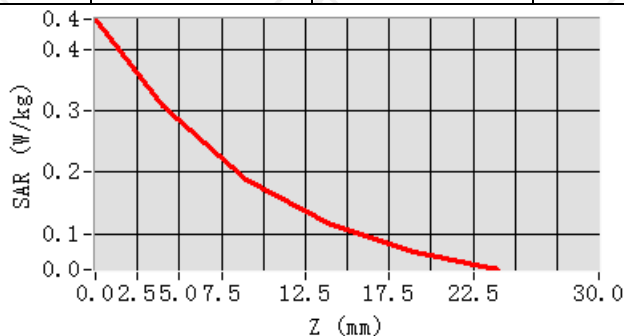
Maximum location: X=9.00, Y=-42.00

SAR Peak: 0.46 W/kg

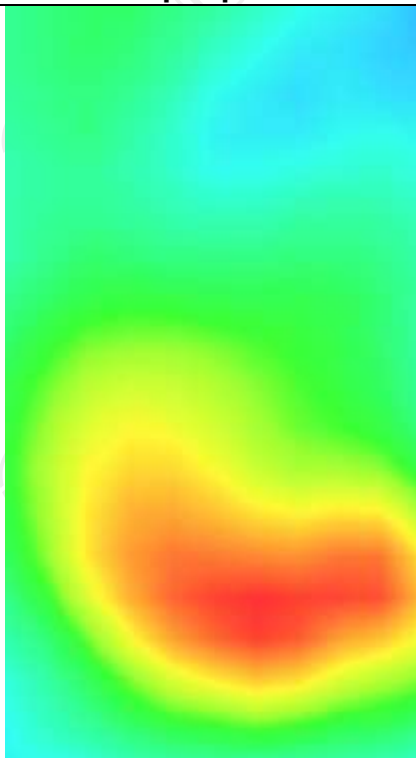
SAR 10g (W/Kg)	0.158027
SAR 1g (W/Kg)	0.266161



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4489	0.3082	0.1890	0.1155	0.0711



Hot spot position



MEASUREMENT 3

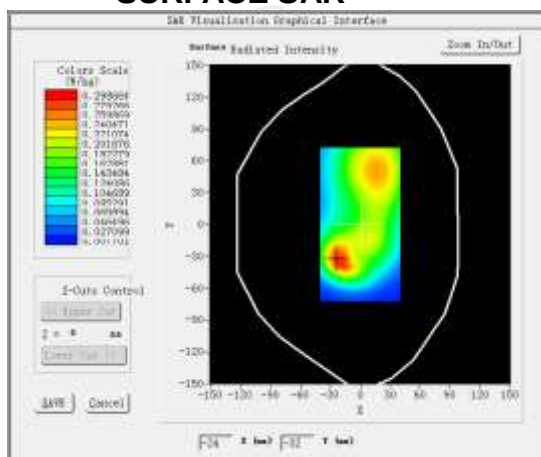
Middle Band SAR (Channel 23230):

Date: 12/05/2024

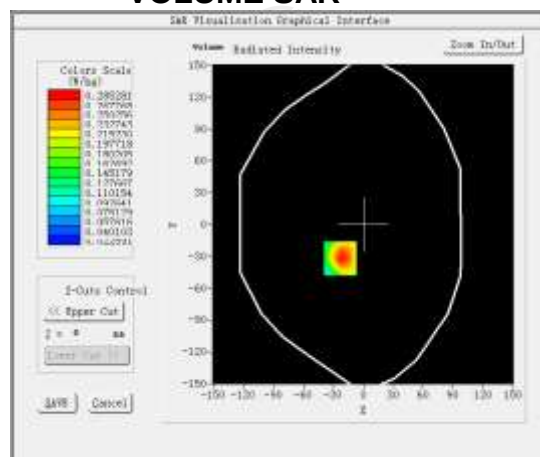
Frequency (MHz)	782.000000
Relative permittivity (real part)	41.713759
Relative permittivity (imaginary part)	20.868200
Conductivity (S/m)	0.906441
Variation (%)	0.990000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(hotspot 10mm)</u>
Band	<u>LTE band 13(1 RB#25)</u>

SURFACE SAR



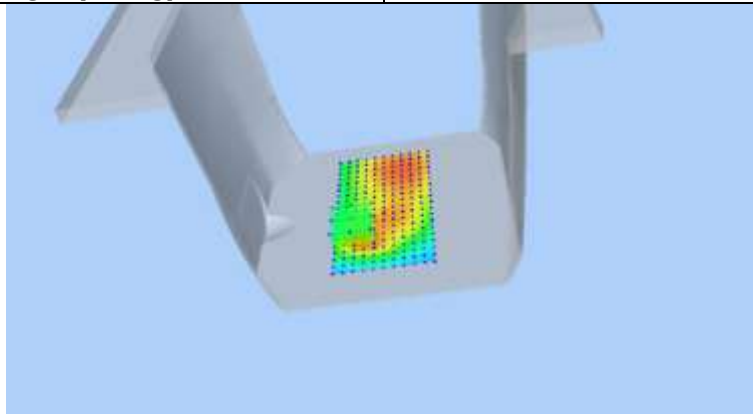
VOLUME SAR



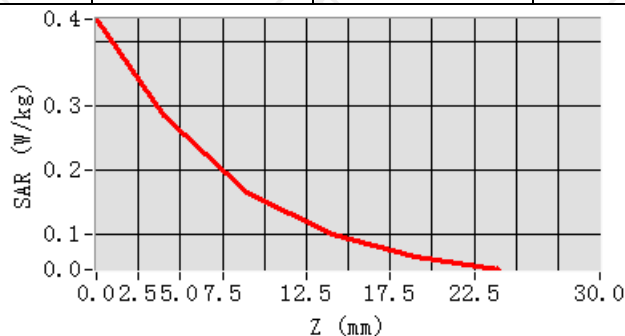
Maximum location: X=-23.00, Y=-32

SAR Peak: 0.44W/kg

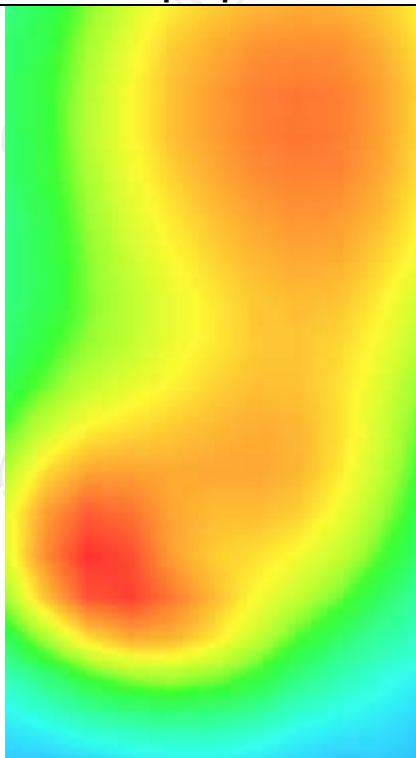
SAR 10g (W/Kg)	0.157810
SAR 1g (W/Kg)	0.241087



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4358	0.2853	0.1667	0.1011	0.0667



Hot spot position



LTE Band 17

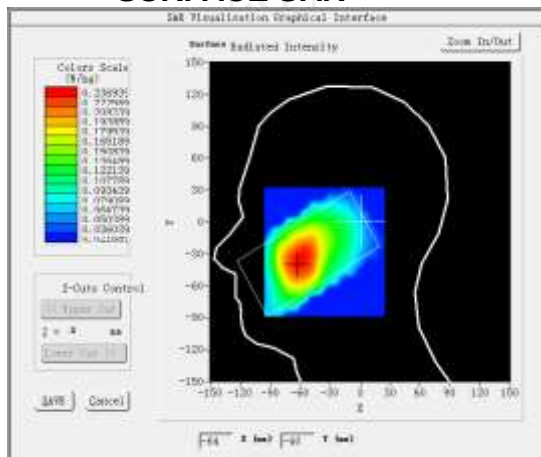
MEASUREMENT 1

Low Band SAR (Channel 23780):

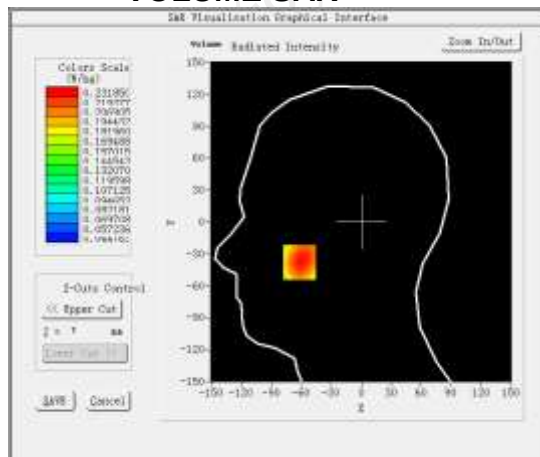
Date: 12/05/2024

Frequency (MHz)	709.000000
Relative permittivity (real part)	42.529009
Relative permittivity (imaginary part)	23.075825
Conductivity (S/m)	0.897126
Variation (%)	-3.330000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 17(1 RB#0)</u>

SURFACE SAR



VOLUME SAR



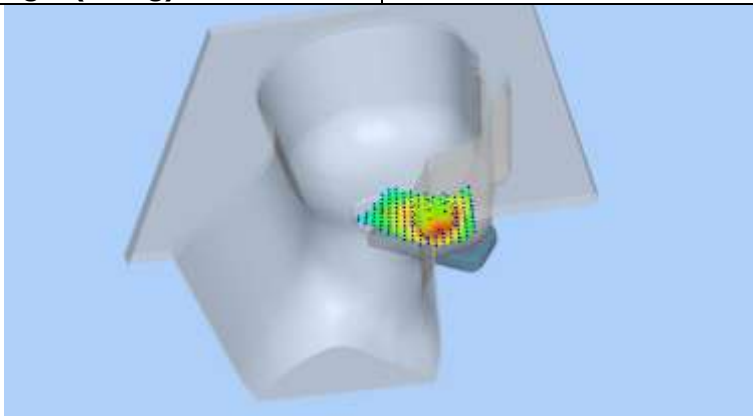
Maximum location: X=-62.00, Y=-38.00 SAR Peak: 0.26 W/kg

SAR 10g (W/Kg)

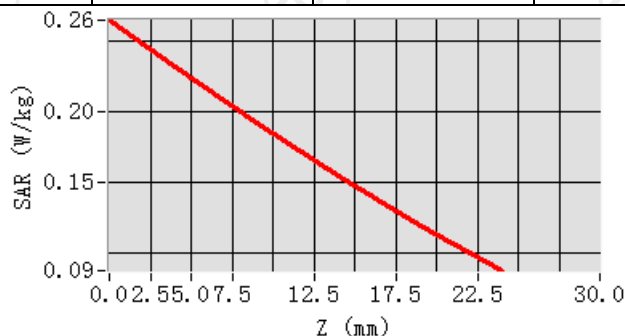
0.145210

SAR 1g (W/Kg)

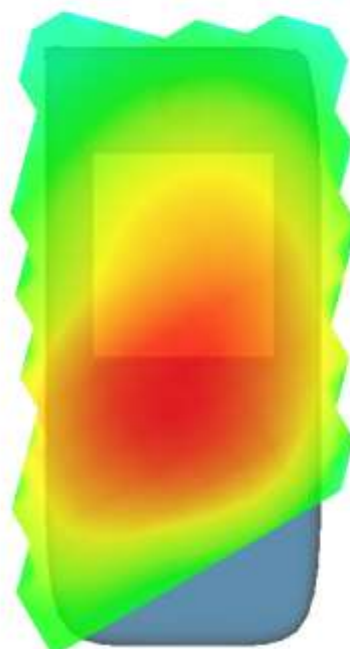
0.261356



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2645	0.2319	0.1921	0.1543	0.1191



Hot spot position



MEASUREMENT 2

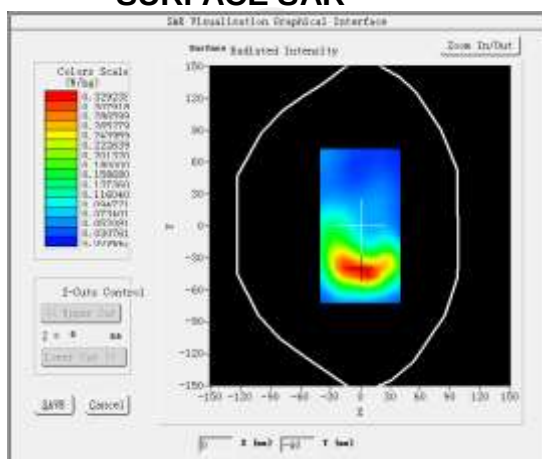
Low Band SAR (Channel 23780):

Date: 12/05/2024

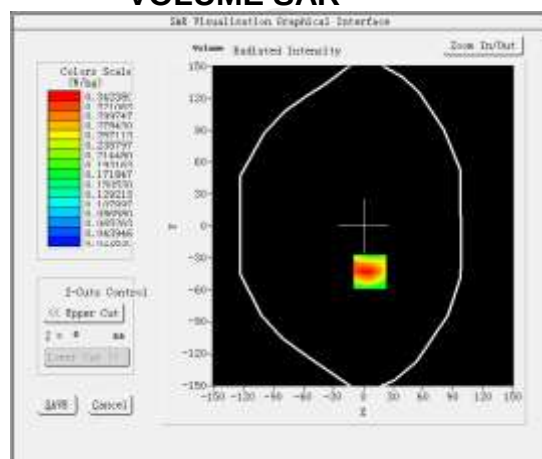
Frequency (MHz)	709.000000
Relative permittivity (real part)	42.529009
Relative permittivity (imaginary part)	23.075825
Conductivity (S/m)	0.897126
Variation (%)	-4.370000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	LTE band 17(1 RB#0)

SURFACE SAR



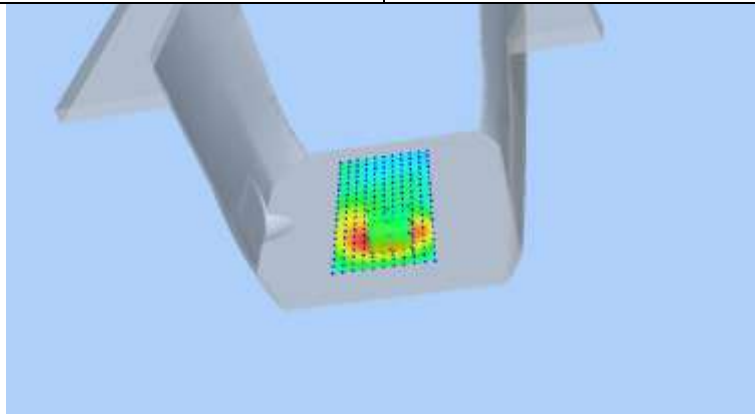
VOLUME SAR



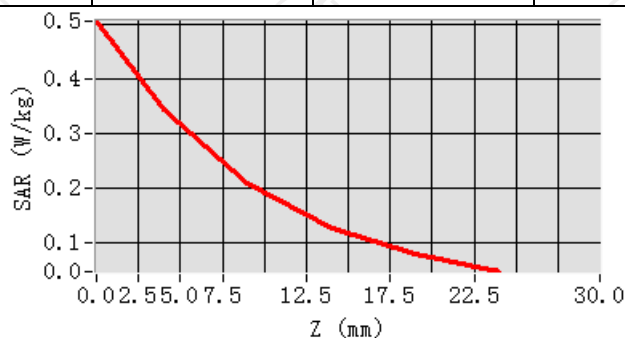
Maximum location: X=7.00, Y=-43.00

SAR Peak: 0.51 W/kg

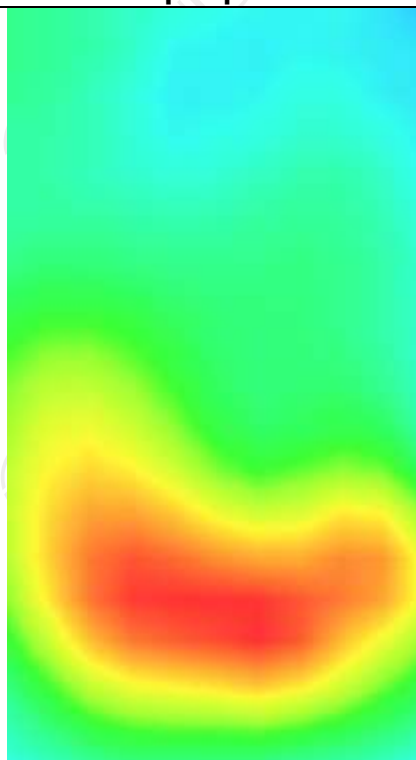
SAR 10g (W/Kg)	0.182411
SAR 1g (W/Kg)	0.322123



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5046	0.3424	0.2070	0.1252	0.0771



Hot spot position



MEASUREMENT 3

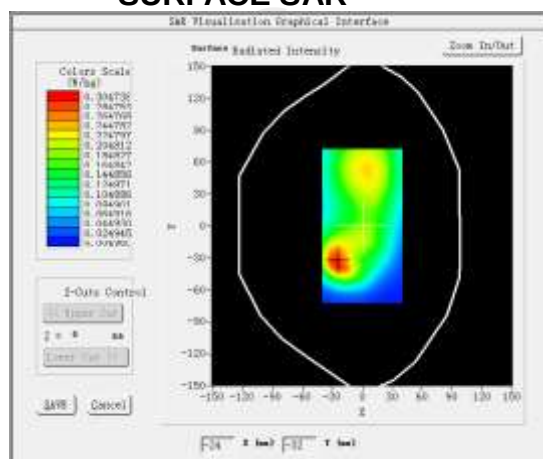
Low Band SAR (Channel 23780):

Date: 12/05/2024

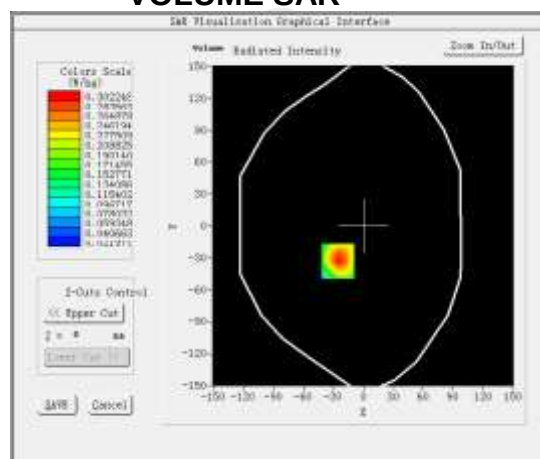
Frequency (MHz)	709.000000
Relative permittivity (real part)	42.529009
Relative permittivity (imaginary part)	23.075825
Conductivity (S/m)	0.897126
Variation (%)	-4.130000
Crest Factor	1.0
Probe Conversion factor	1.71
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(hotspot 10mm)
Band	LTE band 17(1 RB#0)

SURFACE SAR



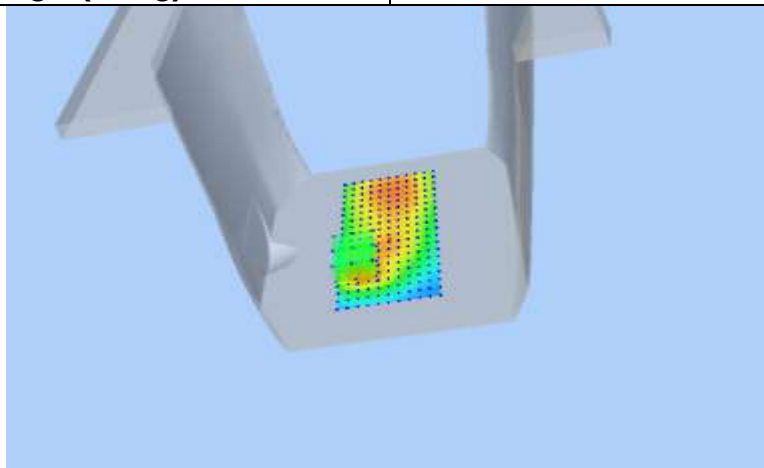
VOLUME SAR



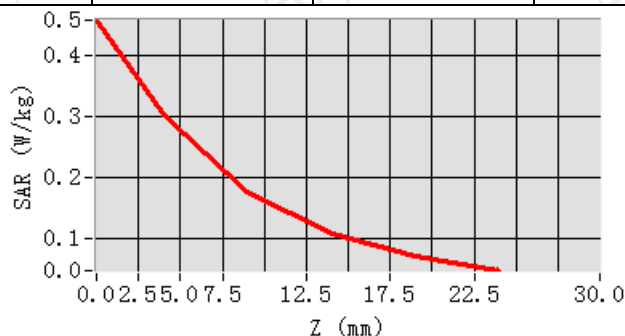
Maximum location: X=-25.00, Y=-33.00

SAR Peak: 0.46 W/kg

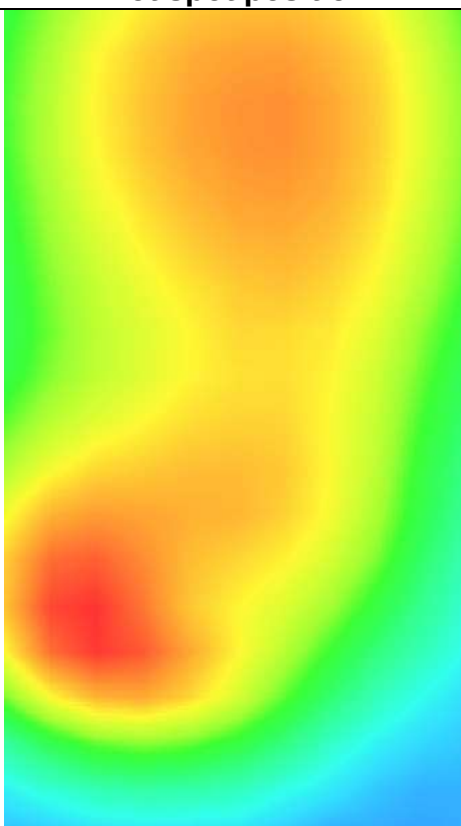
SAR 10g (W/Kg)	0.166642
SAR 1g (W/Kg)	0.302009



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4587	0.3022	0.1779	0.1081	0.0707



Hot spot position

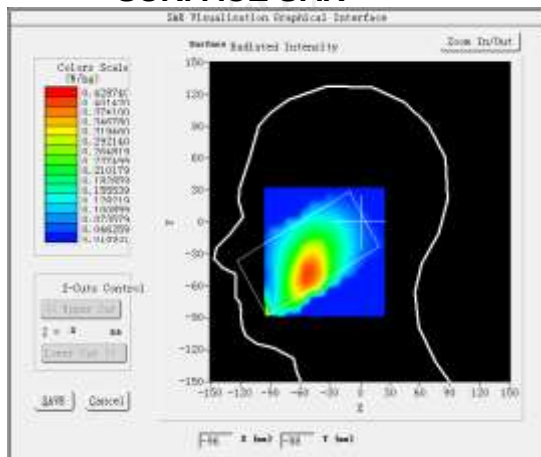


LTE Band 25

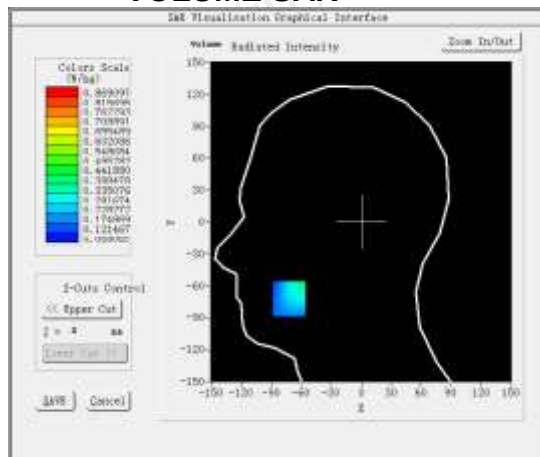
MEASUREMENT 1

Low Band SAR (Channel 26140):		Date: 12/18/2024
Frequency (MHz)	1860.000000	
Relative permittivity (real part)	40.098294	
Relative permittivity (imaginary part)	13.689567	
Conductivity (S/m)	1.402266	
Variation (%)	-1.000000	
Crest Factor	1.0	
Probe Conversion factor	1.80	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	LTE band 25(1 RB#0)	

SURFACE SAR



VOLUME SAR



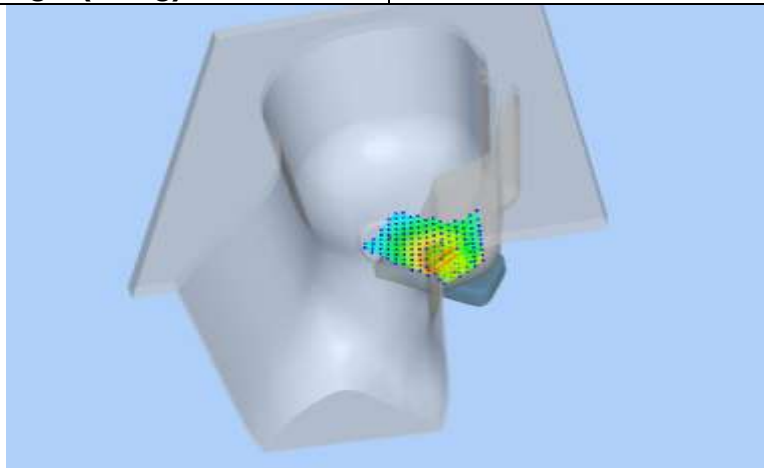
Maximum location: X=-72.00, Y=-72.00 SAR Peak: 0.46 W/kg

SAR 10g (W/Kg)

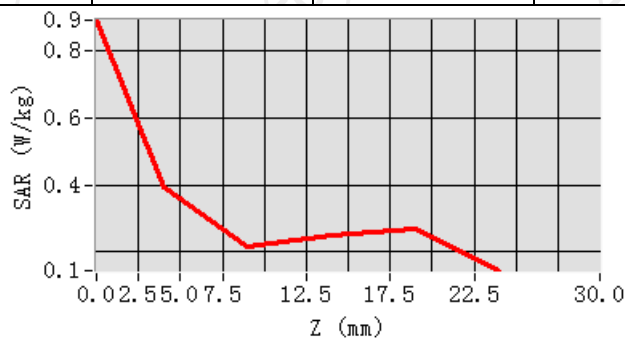
0.252930

SAR 1g (W/Kg)

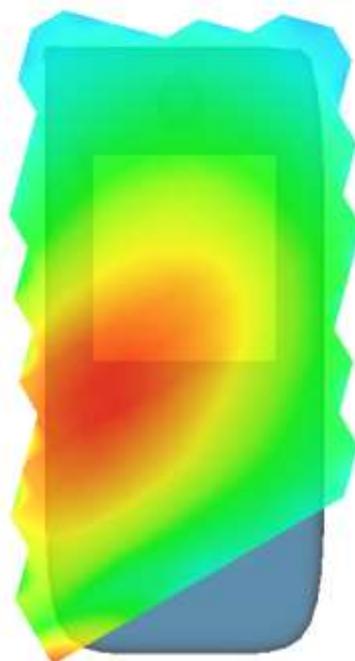
0.495255



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8904	0.3914	0.2181	0.2511	0.2681



Hot spot position



MEASUREMENT 2

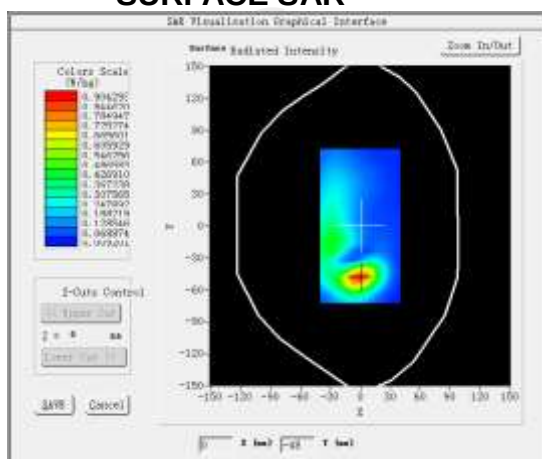
Low Band SAR (Channel 26140):

Date: 12/18/2024

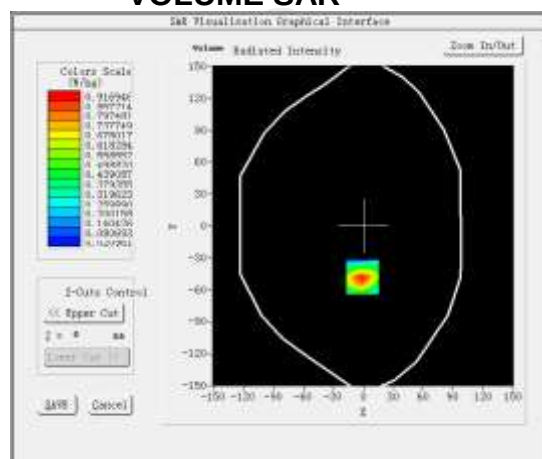
Frequency (MHz)	1860.000000
Relative permittivity (real part)	40.098294
Relative permittivity (imaginary part)	13.689567
Conductivity (S/m)	1.402266
Variation (%)	-1.030000
Crest Factor	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>LTE band 25(1 RB#0)</u>

SURFACE SAR



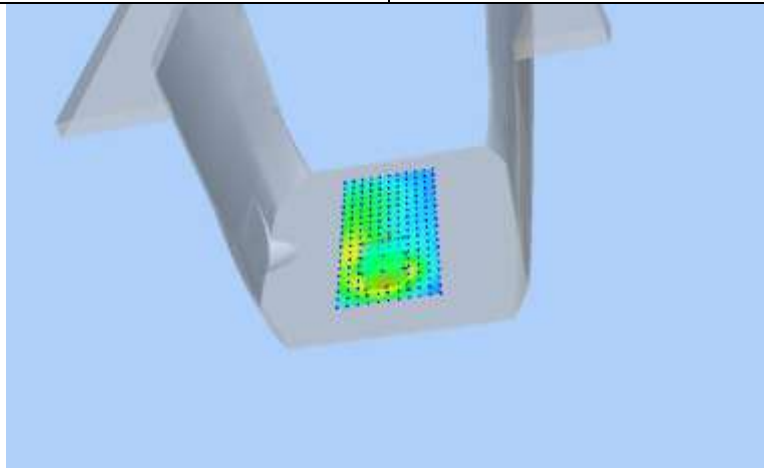
VOLUME SAR



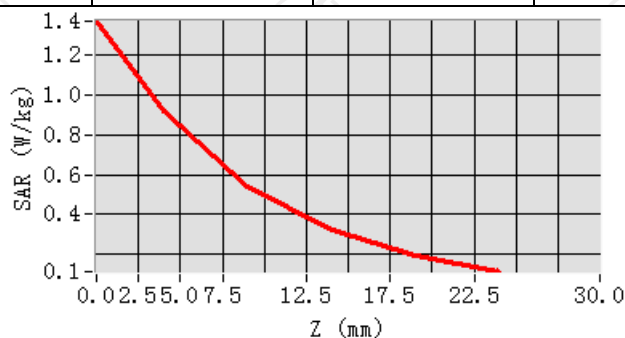
Maximum location: X=-1.00, Y=-48.00

SAR Peak: 1.39 W/kg

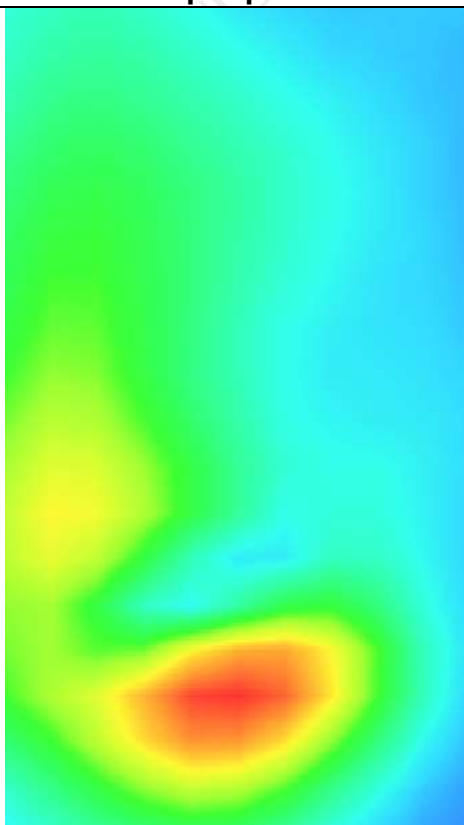
SAR 10g (W/Kg)	0.432230
SAR 1g (W/Kg)	0.850451



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3739	0.9169	0.5414	0.3194	0.1920



Hot spot position



MEASUREMENT 3

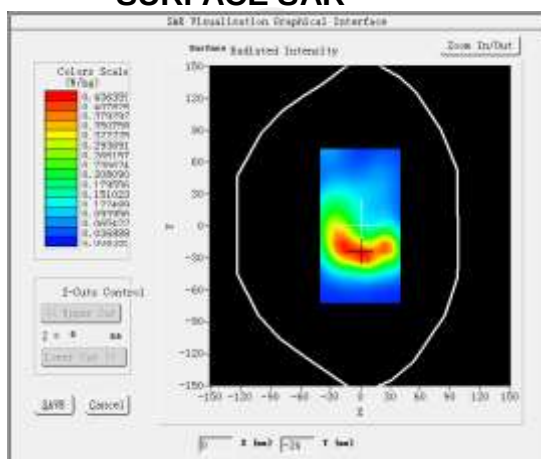
Low Band SAR (Channel 26140):

Date: 12/18/2024

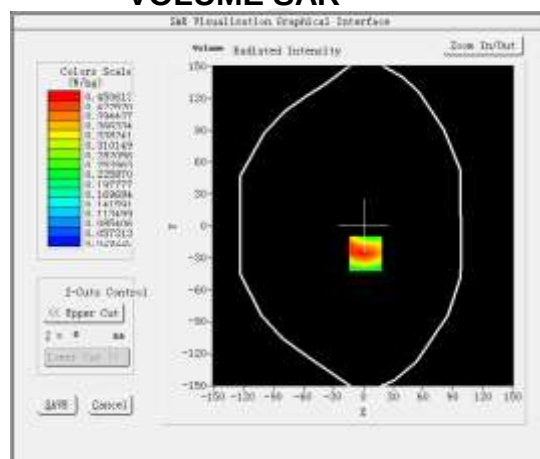
Frequency (MHz)	1860.000000
Relative permittivity (real part)	40.098294
Relative permittivity (imaginary part)	13.689567
Conductivity (S/m)	1.402266
Variation (%)	1.200000
Crest Factor	1.0
Probe Conversion factor	1.80
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back((hotspot 10mm)
Band	LTE band 25(1 RB#0)

SURFACE SAR



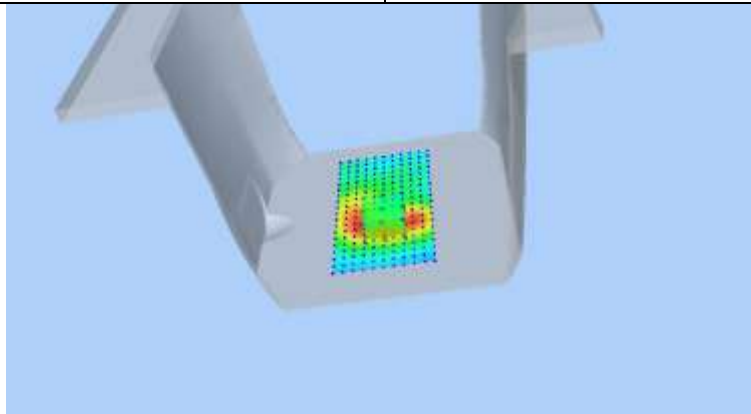
VOLUME SAR



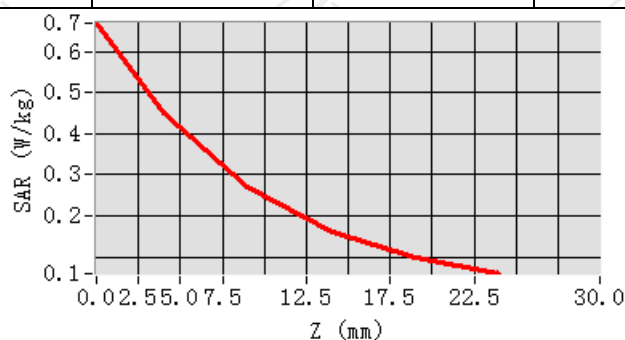
Maximum location: X=2.00, Y=-26.00

SAR Peak: 0.67 W/kg

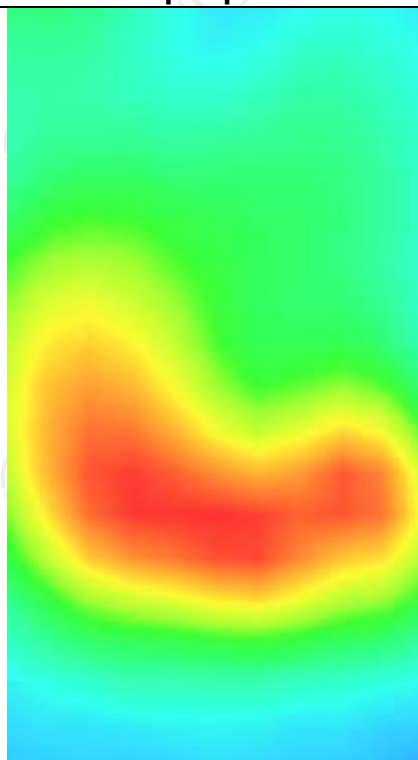
SAR 10g (W/Kg)	0.246551
SAR 1g (W/Kg)	0.456924



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.6698	0.4506	0.2696	0.1618	0.0994



Hot spot position



LTE Band 41

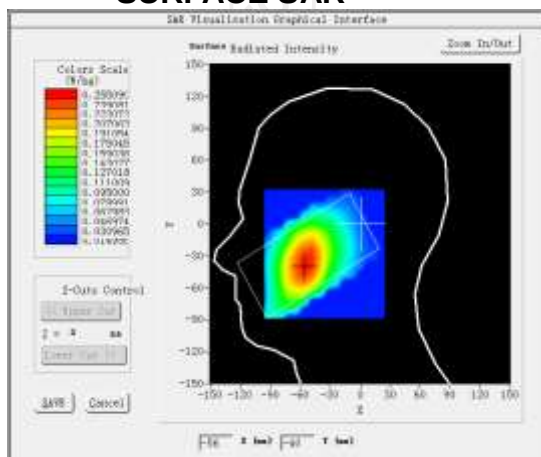
MEASUREMENT 1

High Band SAR (Channel 41490):

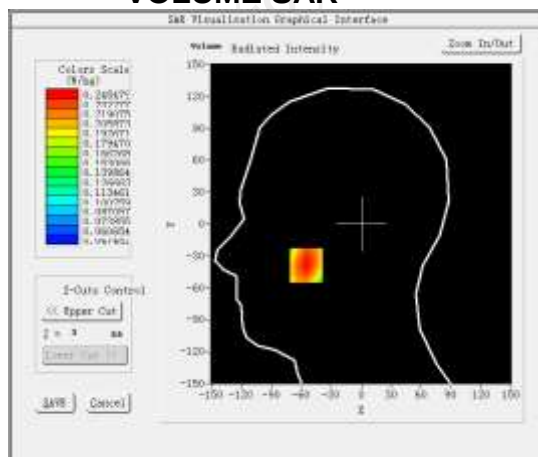
Date: 12/25/2024

Frequency (MHz)	2680.000000
Relative permittivity (real part)	38.699591
Relative permittivity (imaginary part)	12.576232
Conductivity (S/m)	1.988939
Variation (%)	-1.080000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 41(1 RB#0)</u>

SURFACE SAR



VOLUME SAR



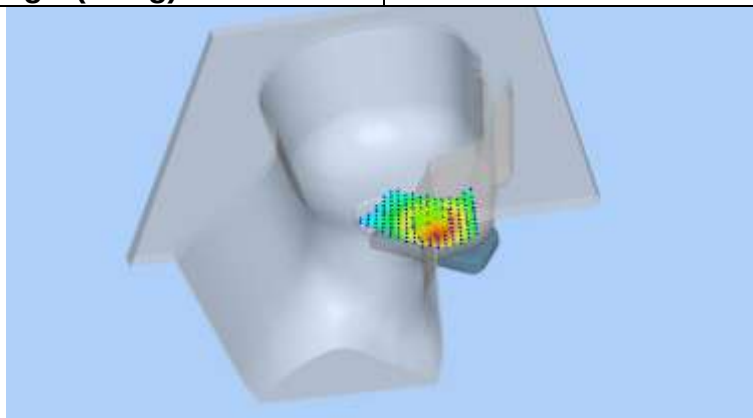
Maximum location: X=-55.00, Y=-39.00 SAR Peak: 0.27 W/kg

SAR 10g (W/Kg)

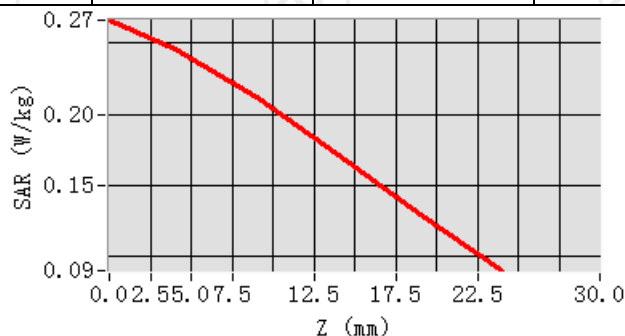
0.168473

SAR 1g (W/Kg)

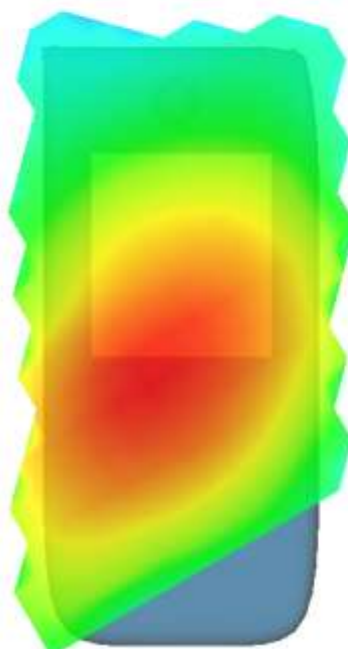
0.313290



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.2664	0.2455	0.2117	0.1716	0.1291



Hot spot position



MEASUREMENT 2

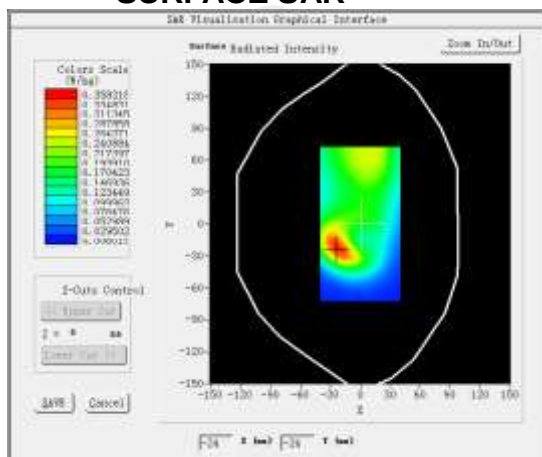
High Band SAR (Channel 41490):

Date: 12/25/2024

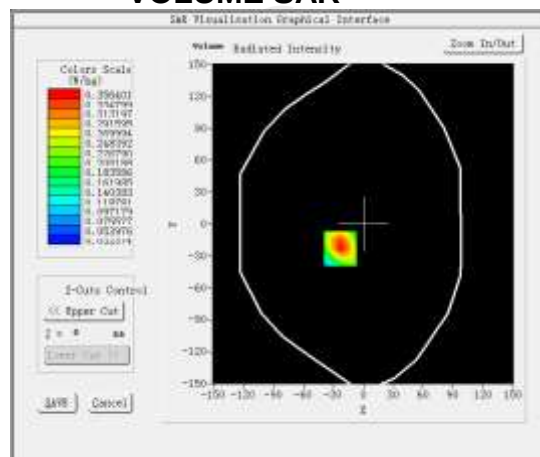
Frequency (MHz)	2680.000000
Relative permittivity (real part)	38.699591
Relative permittivity (imaginary part)	12.576232
Conductivity (S/m)	1.988939
Variation (%)	2.230000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back (10mm)
Band	LTE band 41(1 RB#0)

SURFACE SAR

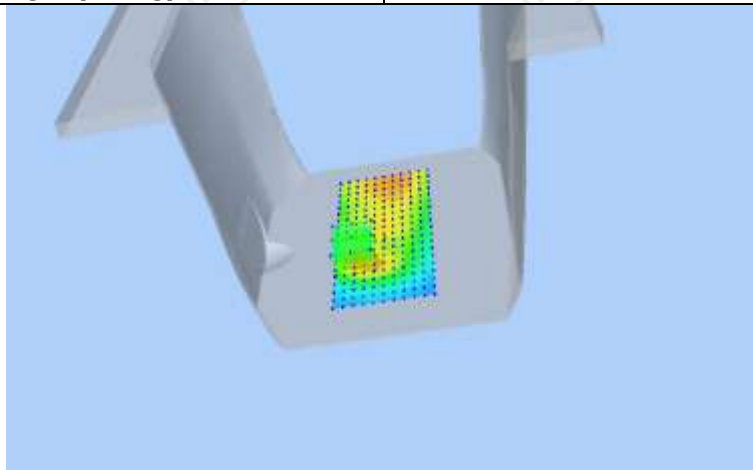


VOLUME SAR

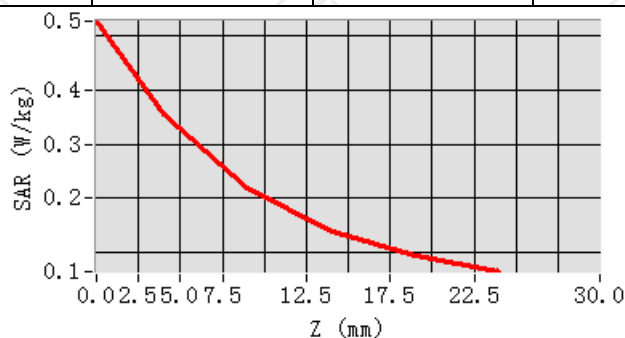


Maximum location: X=-23.00, Y=-23.00 SAR Peak: 0.54 W/kg

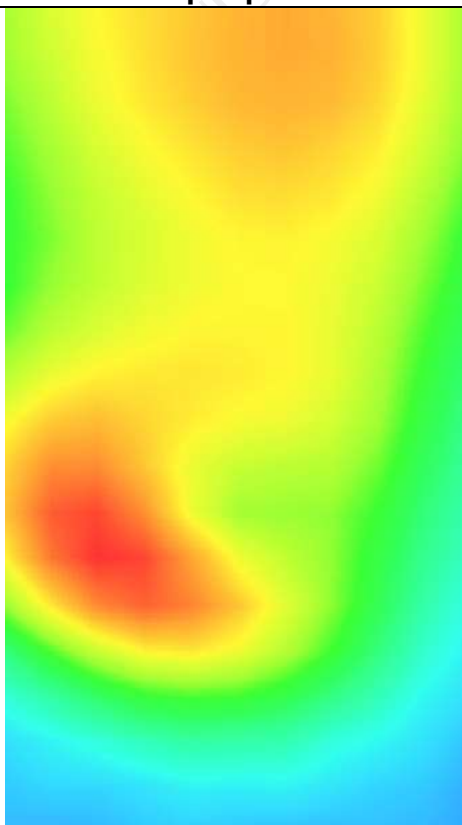
SAR 10g (W/Kg)	0.201699
SAR 1g (W/Kg)	0.474258



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5274	0.3564	0.2175	0.1373	0.0926



Hot spot position



MEASUREMENT 3

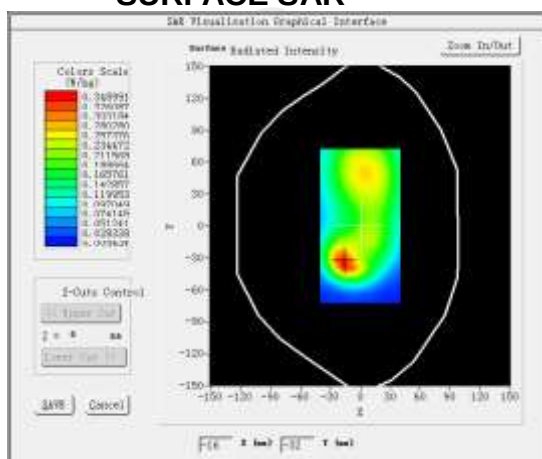
High Band SAR (Channel 41490):

Date: 12/25/2024

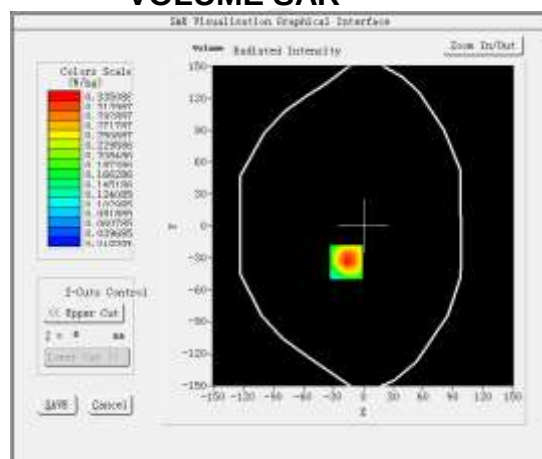
Frequency (MHz)	2680.000000
Relative permittivity (real part)	38.699591
Relative permittivity (imaginary part)	12.576232
Conductivity (S/m)	1.988939
Variation (%)	-3.010000
Crest Factor	1.0
Probe Conversion factor	4.36
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back (hotspot 10mm)
Band	LTE band 41(1 RB#0)

SURFACE SAR



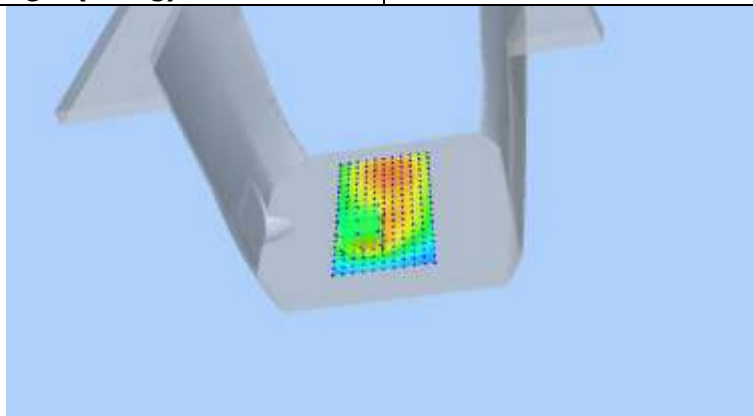
VOLUME SAR



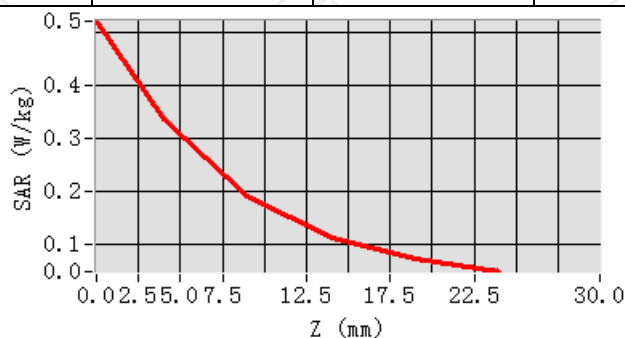
Maximum location: X=-17.00, Y=-34.00

SAR Peak: 0.53 W/kg

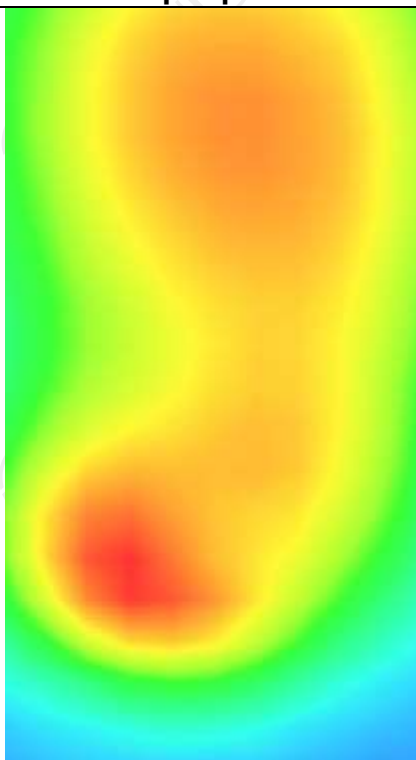
SAR 10g (W/Kg)	0.174365
SAR 1g (W/Kg)	0.335492



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.5203	0.3351	0.1907	0.1120	0.0713

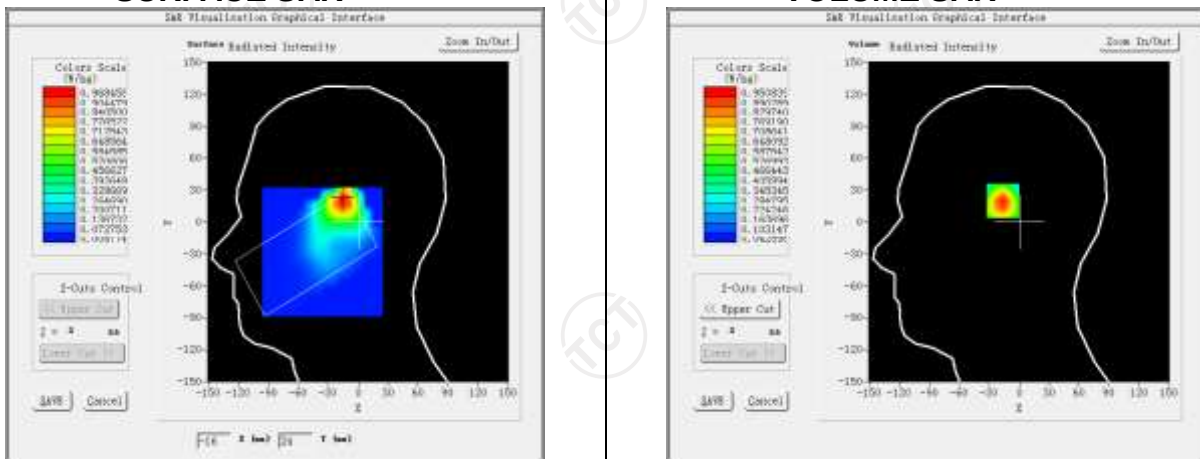
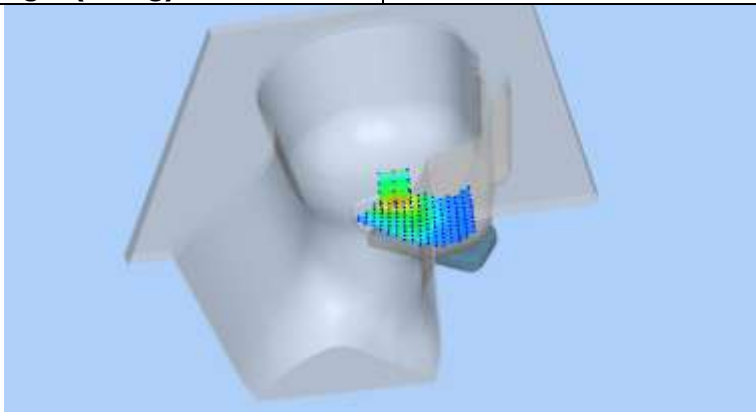


Hot spot position

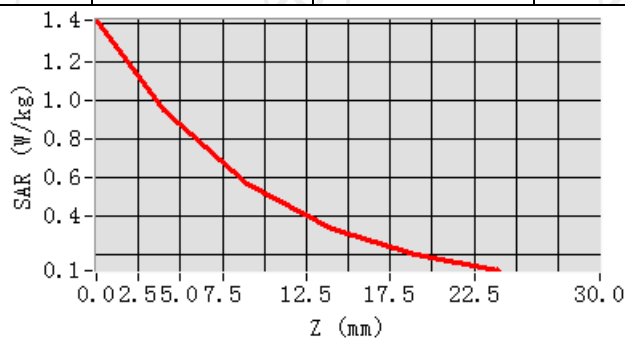


LTE Band 66

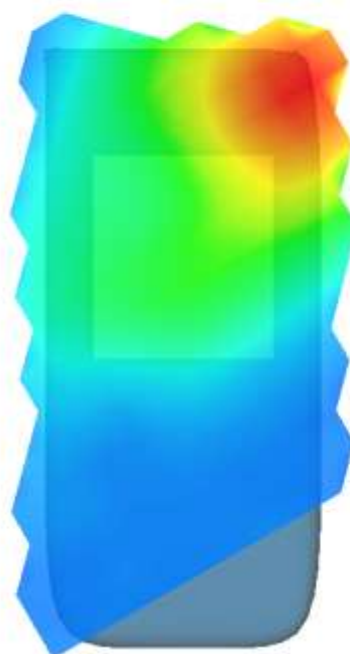
MEASUREMENT 1

Low Band SAR (Channel 132072):		Date: 12/13/2024
Frequency (MHz)	1720.000000	
Relative permittivity (real part)	40.424125	
Relative permittivity (imaginary part)	14.562530	
Conductivity (S/m)	1.352935	
Variation (%)	-1.220000	
Crest Factor	1.0	
Probe Conversion factor	2.08	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=8mm dy=8mm, h= 5.00 mm	
ZoomScan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	LTE band 66(1 RB#50)	
SURFACE SAR	VOLUME SAR	
		
Maximum location: X=-15.00, Y=22.00 SAR Peak: 1.42 W/kg		
SAR 10g (W/Kg)	0.367534	
SAR 1g (W/Kg)	0.695171	
		

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.4148	0.9508	0.5661	0.3355	0.2012



Hot spot position



MEASUREMENT 2

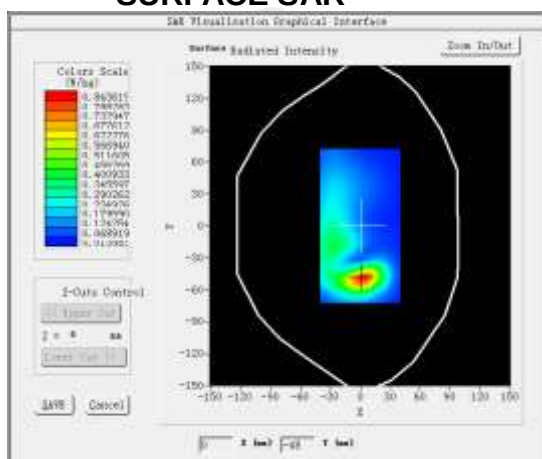
Low Band SAR (Channel 132072):

Date: 12/13/2024

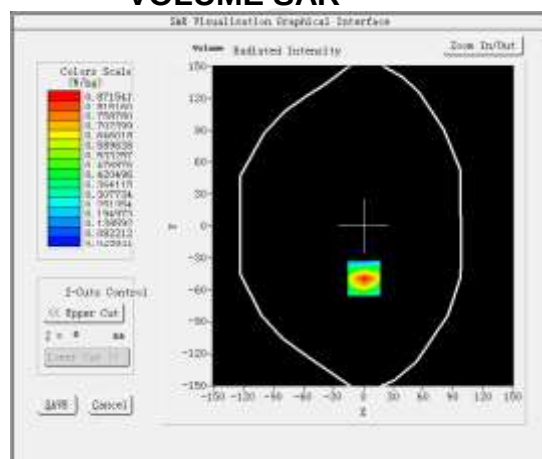
Frequency (MHz)	1720.000000
Relative permittivity (real part)	40.424125
Relative permittivity (imaginary part)	14.562530
Conductivity (S/m)	1.352935
Variation (%)	-3.520000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	<u>Validation plane</u>
Device Position	<u>Body back(10mm)</u>
Band	<u>LTE band 66(1 RB#50)</u>

SURFACE SAR

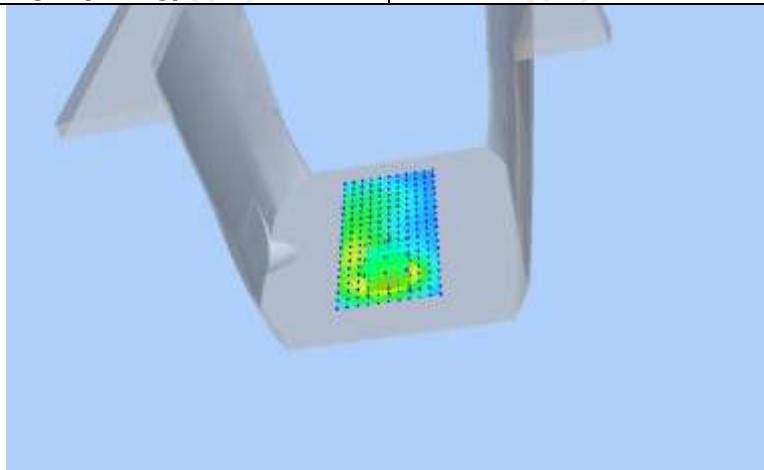


VOLUME SAR

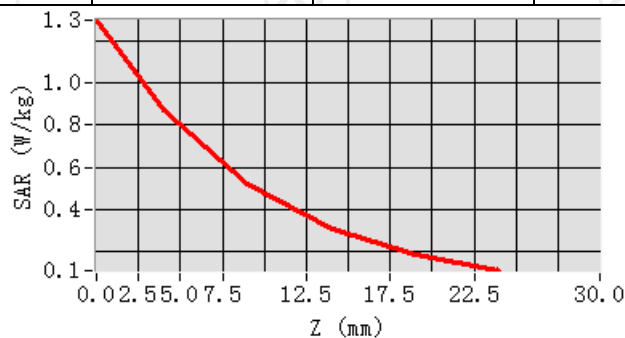


Maximum location: X=1.00, Y=-49.00 SAR Peak: 1.31 W/kg

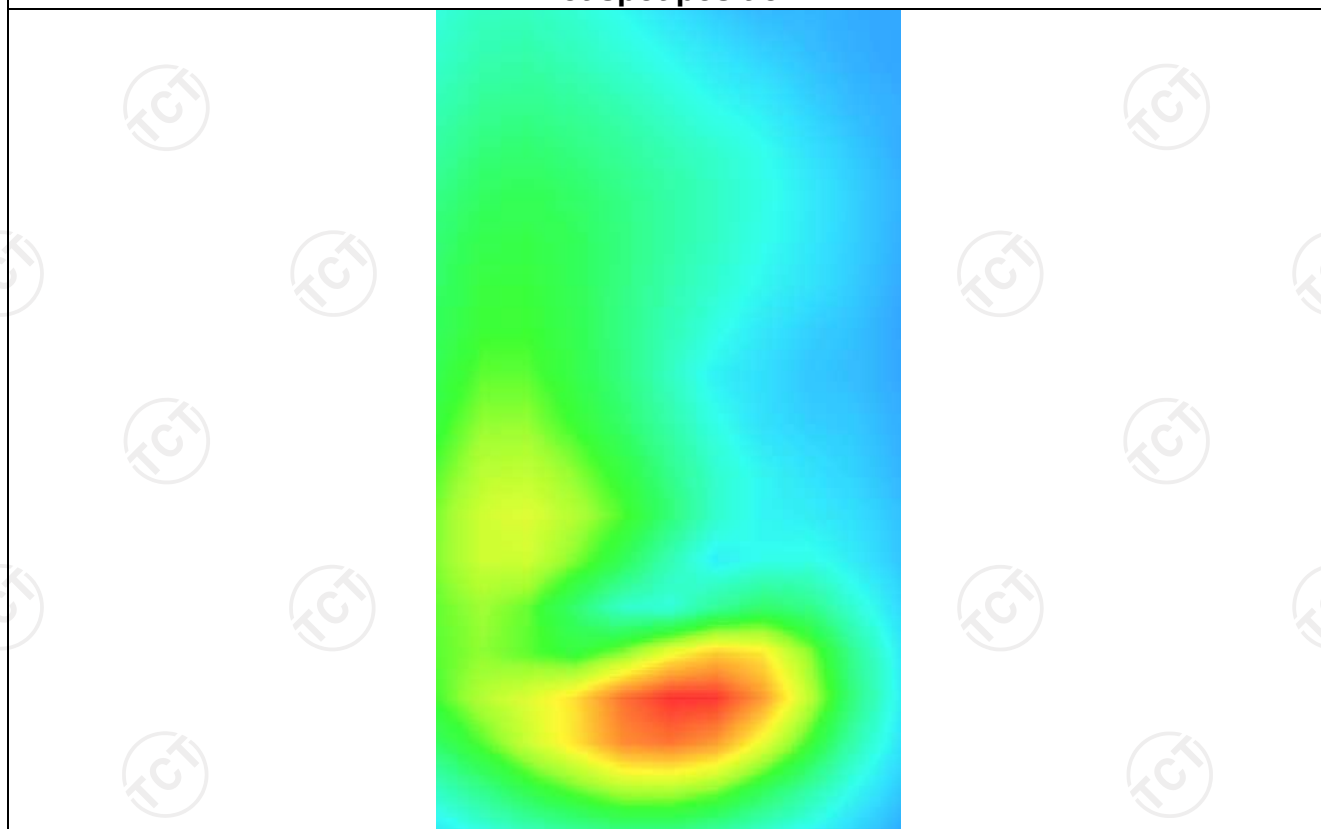
SAR 10g (W/Kg)	0.614460
SAR 1g (W/Kg)	1.036135



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.3179	0.9215	0.5194	0.3097	0.1883



Hot spot position



MEASUREMENT 3

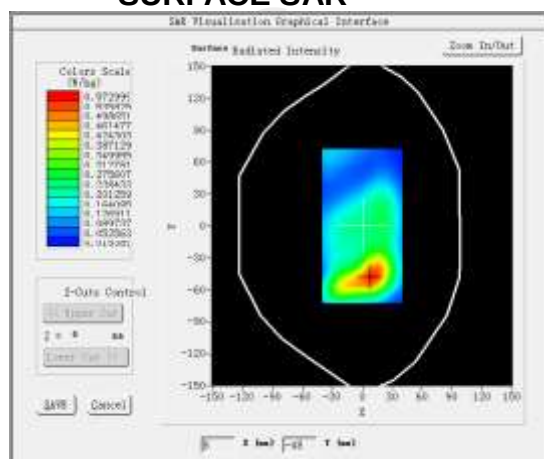
Low Band SAR (Channel 132072):

Date: 12/13/2024

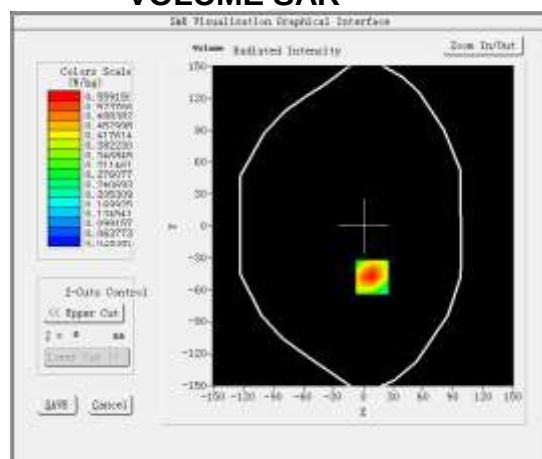
Frequency (MHz)	1720.000000
Relative permittivity (real part)	40.424125
Relative permittivity (imaginary part)	14.562530
Conductivity (S/m)	1.352935
Variation (%)	-0.240000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back((hotspot10mm)
Band	<u>LTE band 66(1 RB#50)</u>

SURFACE SAR

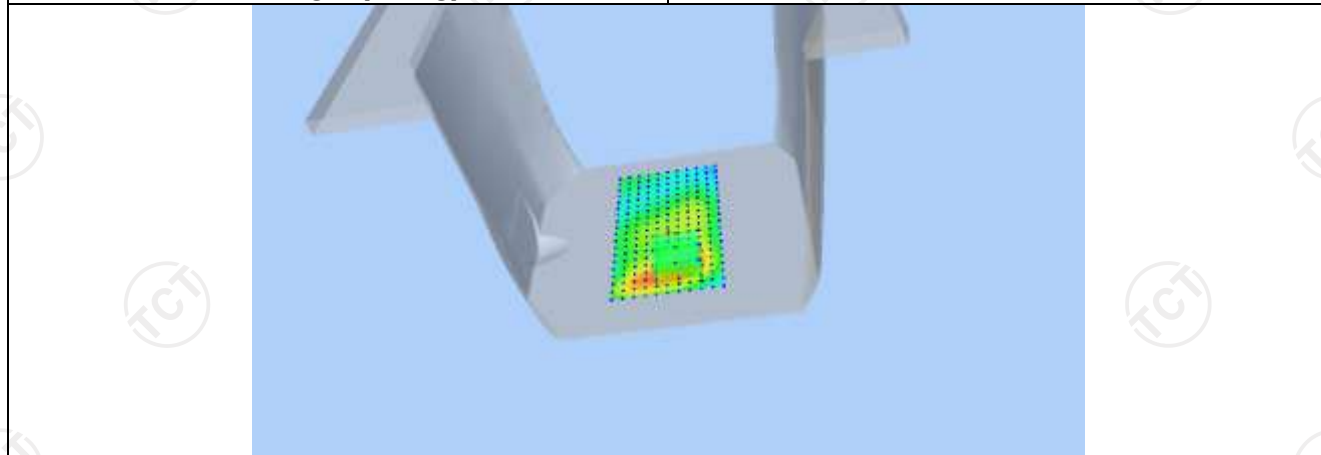


VOLUME SAR

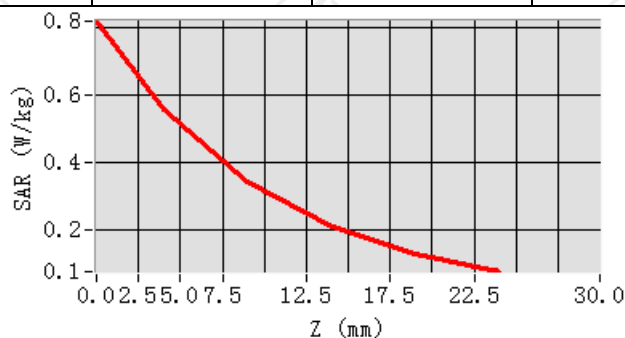


Maximum location: X=9.00, Y=-48.00 SAR Peak: 0.82 W/kg

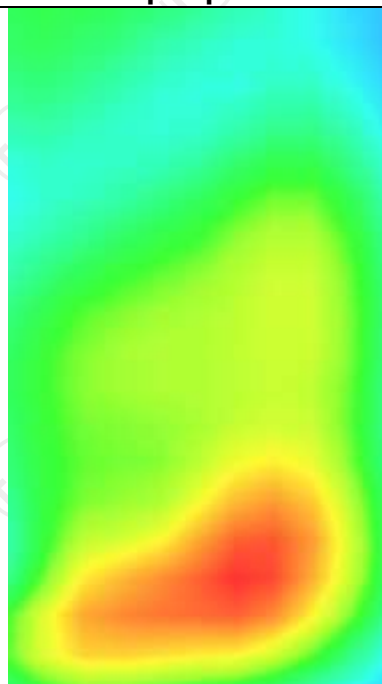
SAR 10g (W/Kg)	0.429133
SAR 1g (W/Kg)	0.958485



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.8202	0.5592	0.3398	0.2059	0.1262



Hot spot position



LTE Band 71

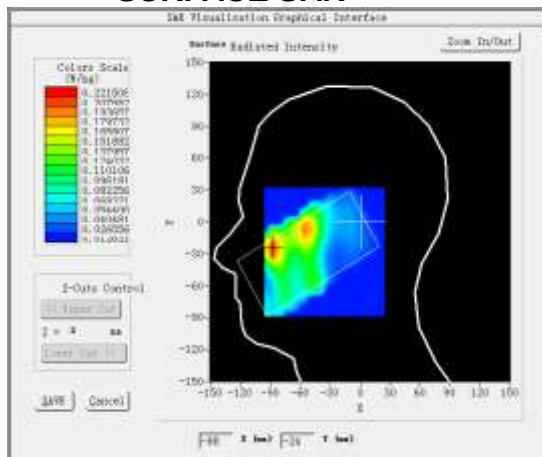
MEASUREMENT 1

Middle Band SAR (Channel 133322):

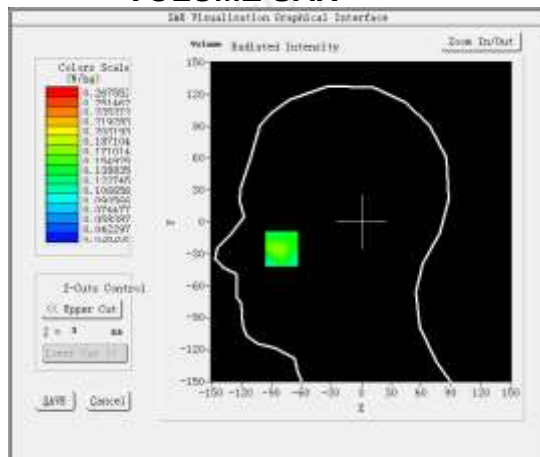
Date: 12/05/2024

Frequency (MHz)	683.000000
Relative permittivity (real part)	42.819372
Relative permittivity (imaginary part)	23.862103
Conductivity (S/m)	0.893809
Variation (%)	-1.310000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7, dx=8mm dy=8mm</u> <u>dz=5mm, Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>
Phantom	<u>Left head</u>
Device Position	<u>Cheek</u>
Band	<u>LTE band 71(1 RB#0)</u>

SURFACE SAR



VOLUME SAR



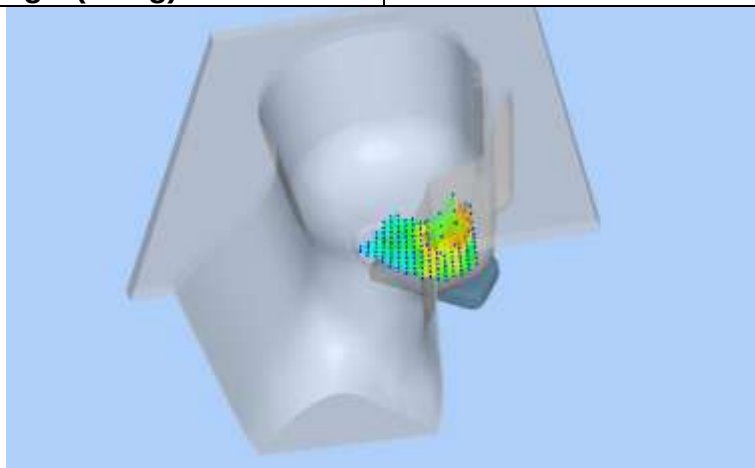
Maximum location: X=-80.00, Y=-24.00 SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)

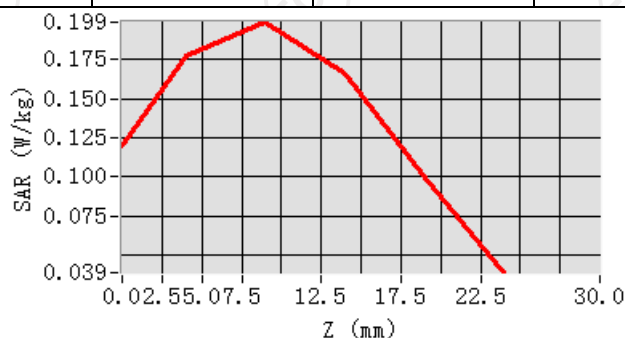
0.113457

SAR 1g (W/Kg)

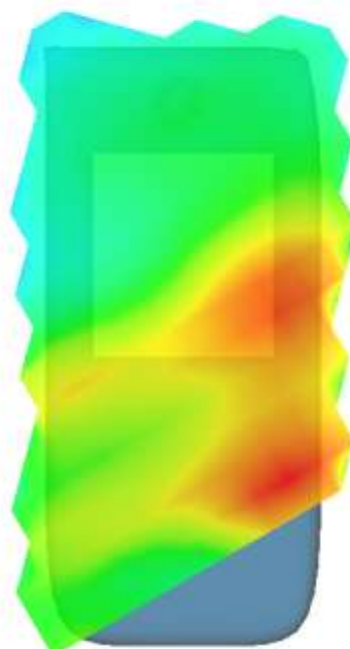
0.212359



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1202	0.1773	0.1989	0.1664	0.0998



Hot spot position



MEASUREMENT 2

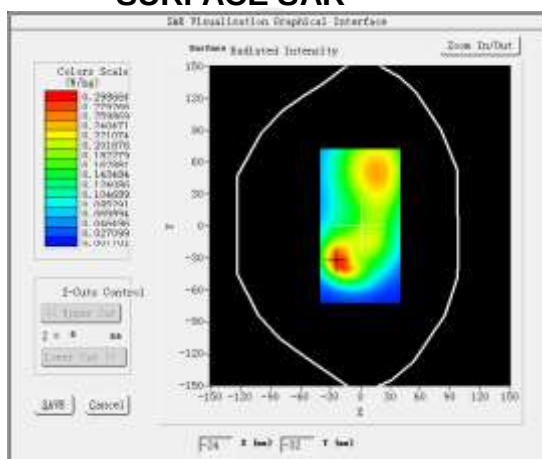
Middle Band SAR (Channel 133322):

Date: 12/05/2024

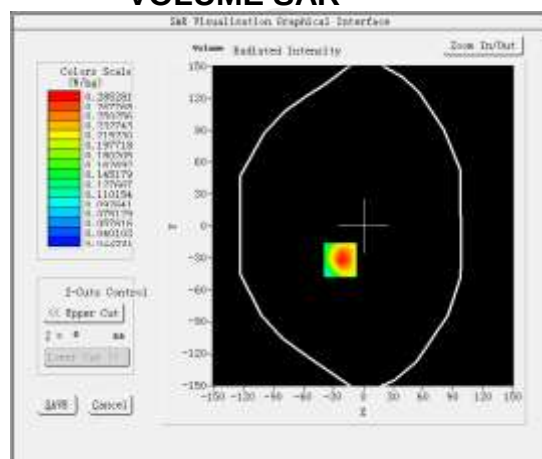
Frequency (MHz)	683.000000
Relative permittivity (real part)	42.819372
Relative permittivity (imaginary part)	23.862103
Conductivity (S/m)	0.893809
Variation (%)	-2.880000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	LTE band 71(1 RB#0)

SURFACE SAR



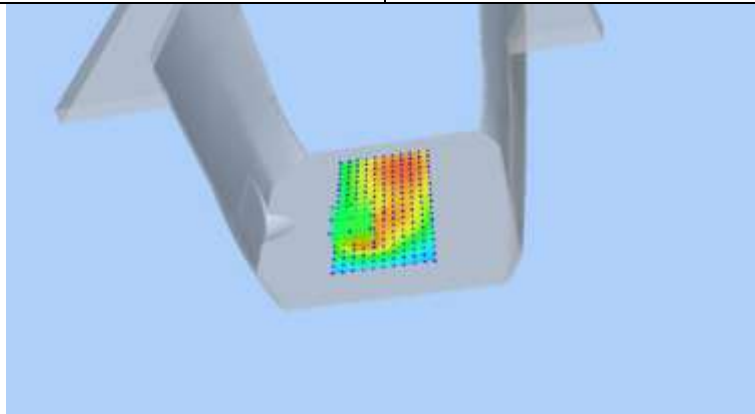
VOLUME SAR



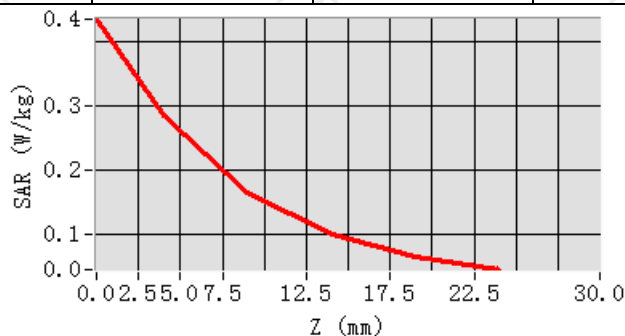
Maximum location: X=-23.00, Y=-32

SAR Peak: 0.44W/kg

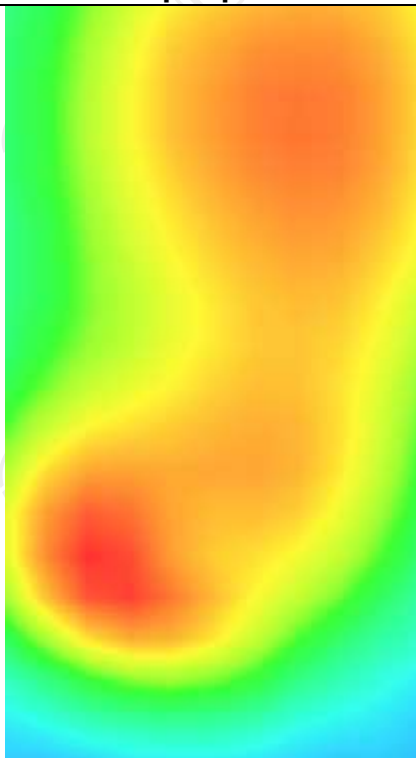
SAR 10g (W/Kg)	0.178810
SAR 1g (W/Kg)	0.361087



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4358	0.2853	0.1667	0.1011	0.0667



Hot spot position



MEASUREMENT 3

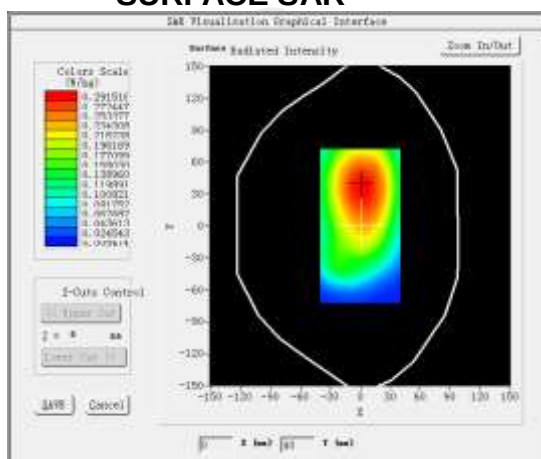
Middle Band SAR (Channel 133322):

Date: 12/05/2024

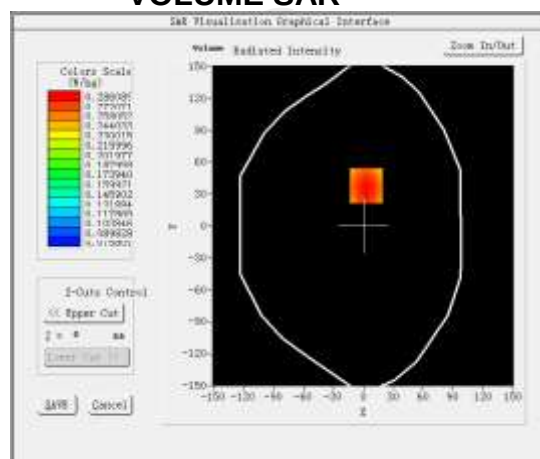
Frequency (MHz)	683.000000
Relative permittivity (real part)	42.819372
Relative permittivity (imaginary part)	23.862103
Conductivity (S/m)	0.893809
Variation (%)	-3.140000
Crest Factor	1.0
Probe Conversion factor	2.08
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back((hotspot10mm)
Band	<u>LTE band 71(1 RB#0)</u>

SURFACE SAR

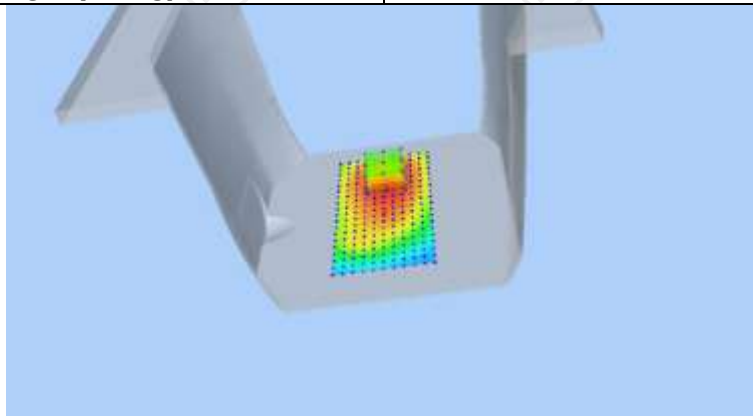


VOLUME SAR

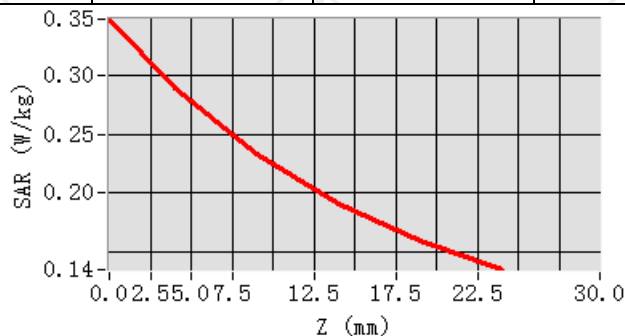


Maximum location: X=3.00, Y=38.00 SAR Peak: 0.35 W/kg

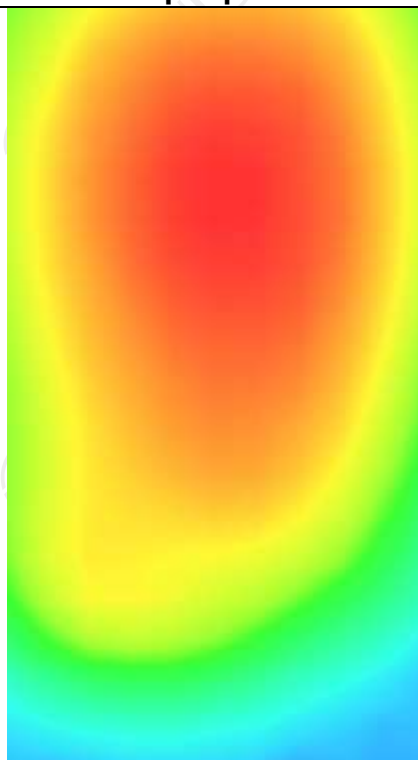
SAR 10g (W/Kg)	0.189417
SAR 1g (W/Kg)	0.286808



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.3486	0.2861	0.2215	0.1698	0.1286



Hot spot position

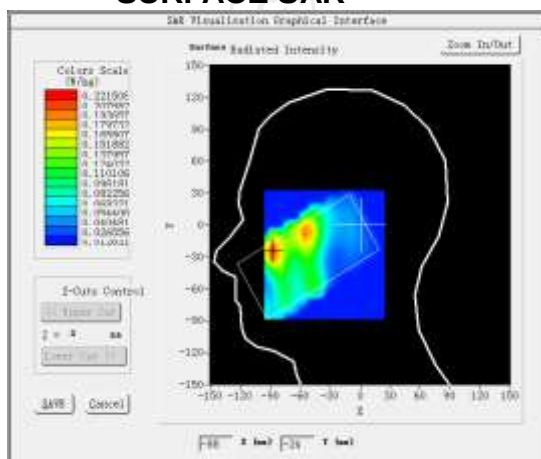


WLAN 2.4G

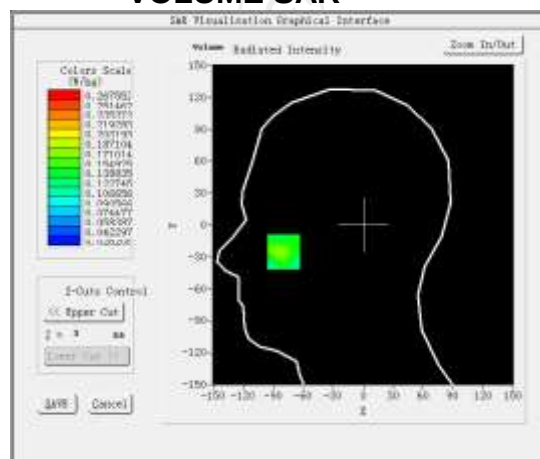
MEASUREMENT 1

High Band SAR (Channel 11):		Date: 12/23/2024
Frequency (MHz)	2462.000000	
Relative permittivity (real part)	39.002234	
Relative permittivity (imaginary part)	13.388603	
Conductivity (S/m)	1.801248	
Variation (%)	1.810000	
Crest Factor	1.0	
Probe Conversion factor	2.31	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=12mm dy=12mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	IEEE 802.11b ISM	

SURFACE SAR



VOLUME SAR



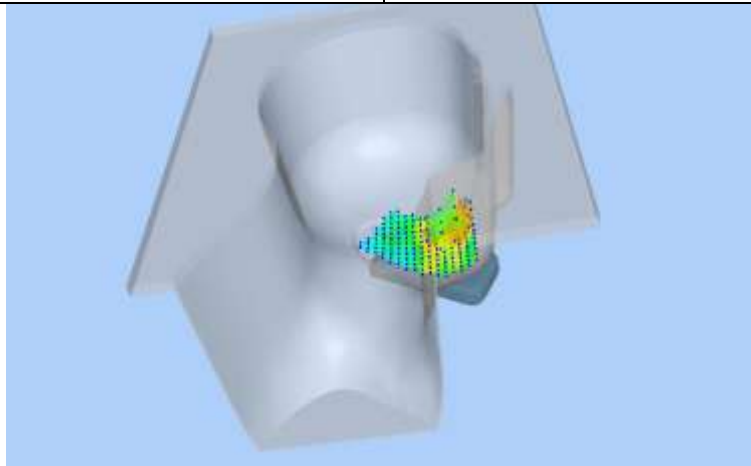
Maximum location: X=-80.00, Y=-24.00 SAR Peak: 0.22 W/kg

SAR 10g (W/Kg)

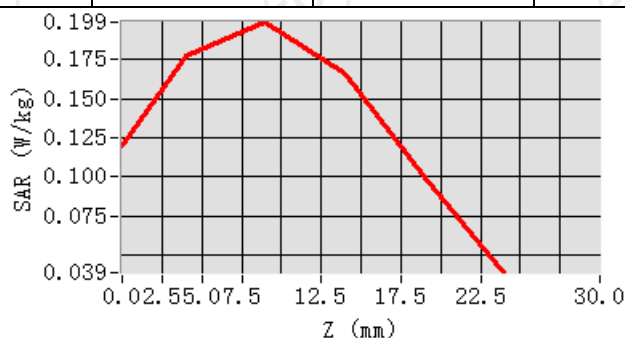
0.127517

SAR 1g (W/Kg)

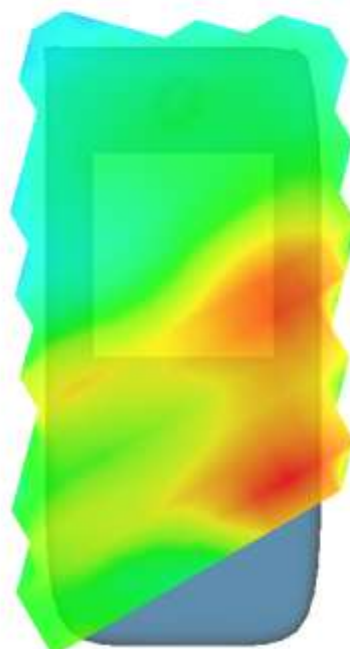
0.196359



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1202	0.1773	0.1989	0.1664	0.0998



Hot spot position



MEASUREMENT 2

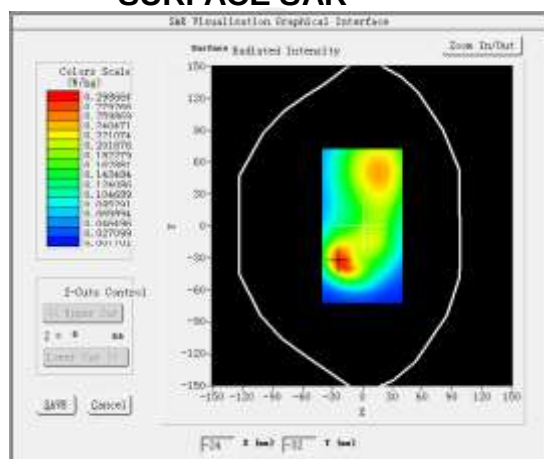
High Band SAR (Channel 11):

Date: 12/23/2024

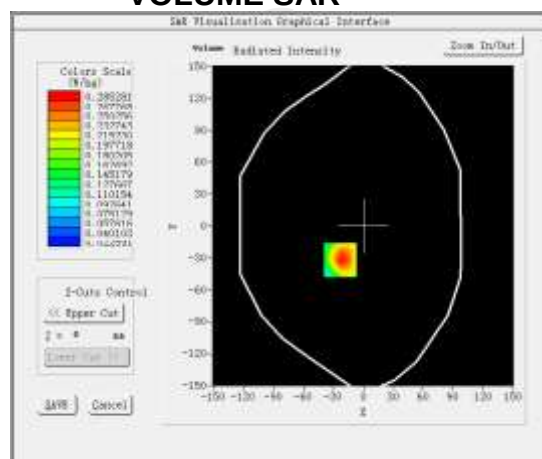
Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.002234
Relative permittivity (imaginary part)	13.388603
Conductivity (S/m)	1.801248
Variation (%)	-1.970000
Crest Factor	1.0
Probe Conversion factor	2.31
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	IEEE 802.11b ISM

SURFACE SAR



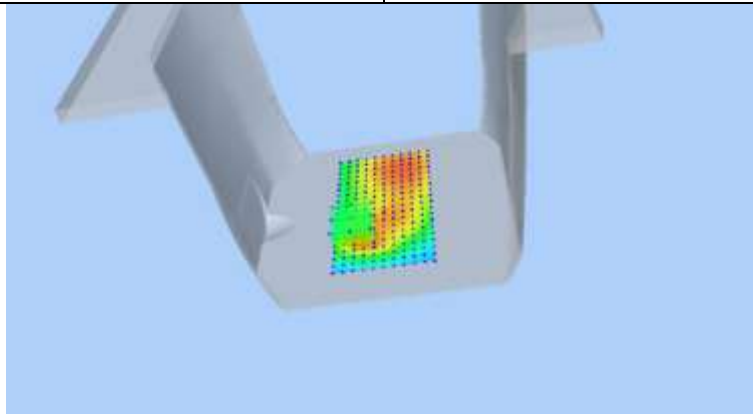
VOLUME SAR



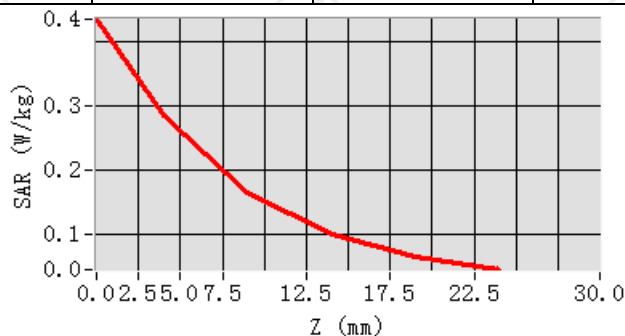
Maximum location: X=-23.00, Y=-32

SAR Peak: 0.44W/kg

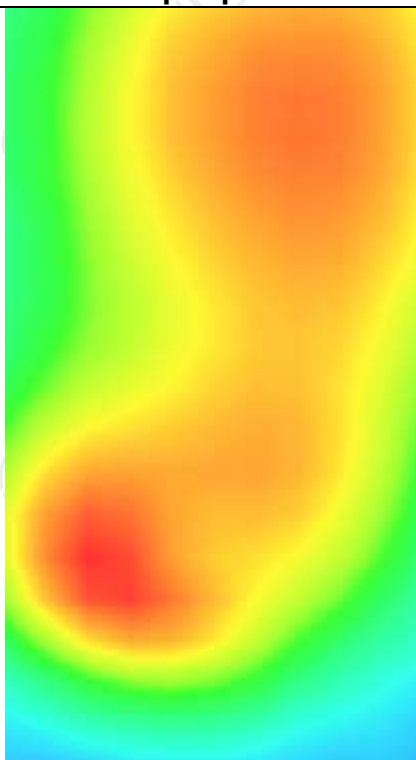
SAR 10g (W/Kg)	0.135410
SAR 1g (W/Kg)	0.267087



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4358	0.2853	0.1667	0.1011	0.0667



Hot spot position



MEASUREMENT 3

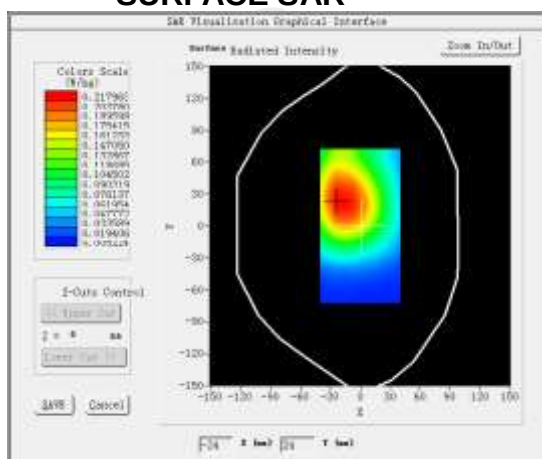
High Band SAR (Channel 11):

Date: 12/23/2024

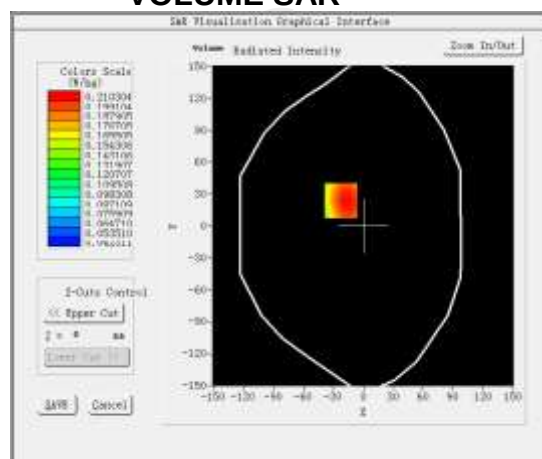
Frequency (MHz)	2462.000000
Relative permittivity (real part)	39.002234
Relative permittivity (imaginary part)	13.388603
Conductivity (S/m)	1.801248
Variation (%)	-2.540000
Crest Factor	1.0
Probe Conversion factor	2.31
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	<u>IEEE 802.11b ISM(hotspot)</u>

SURFACE SAR



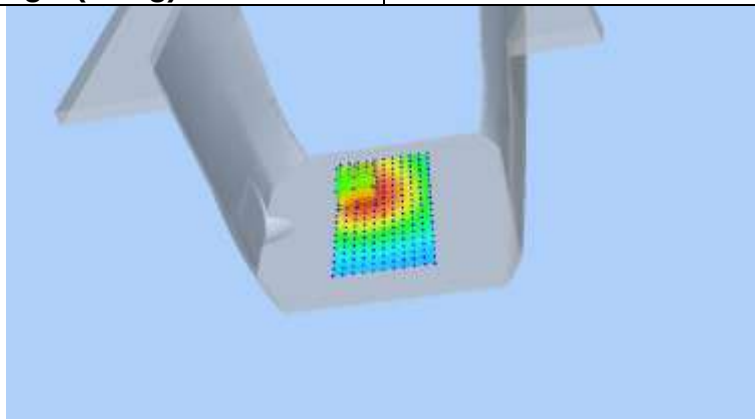
VOLUME SAR



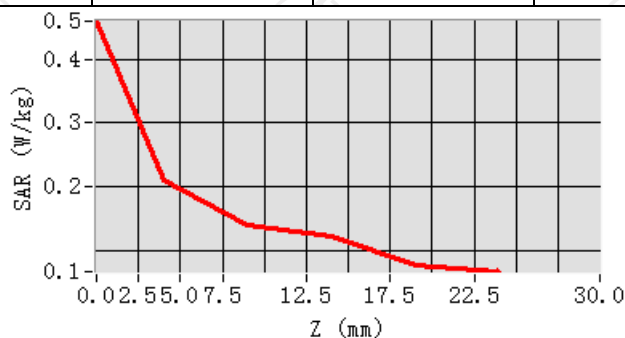
Maximum location: X=-22.00, Y=24.00

SAR Peak: 0.26 W/kg

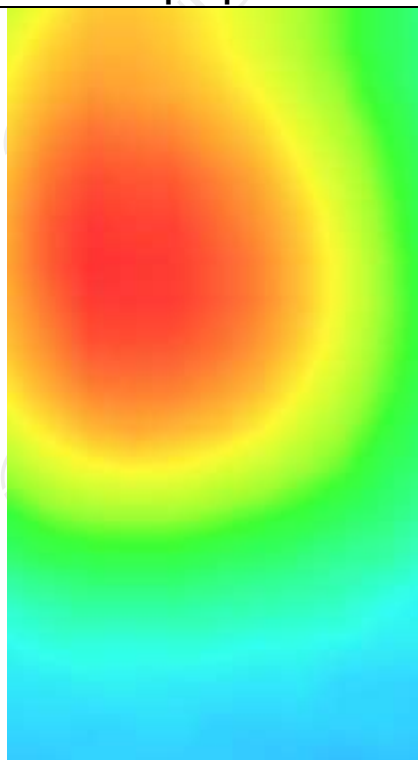
SAR 10g (W/Kg)	0.149654
SAR 1g (W/Kg)	0.205569



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.4591	0.2103	0.1397	0.1235	0.0772



Hot spot position

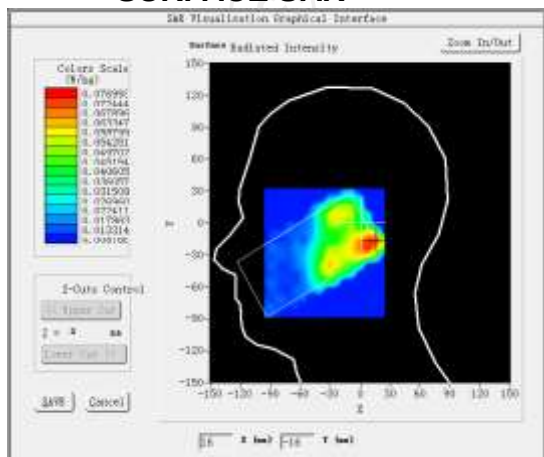


Bluetooth

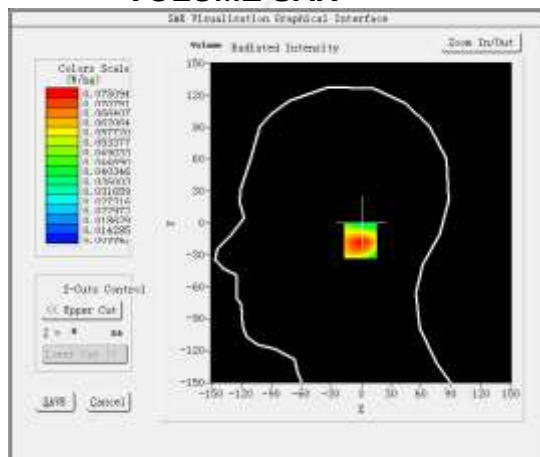
MEASUREMENT 1

High Band SAR (Channel 78):		Date: 12/23/2024
Frequency (MHz)	2480.000000	
Relative permittivity (real part)	38.973538	
Relative permittivity (imaginary part)	13.278305	
Conductivity (S/m)	1.844288	
Variation (%)	-1.090000	
Crest Factor	1.0	
Probe Conversion factor	2.31	
E-Field Probe:	SSE2 (SN 25/22 EPG0375)	
Area Scan	dx=12mm dy=12mm, h= 5.00 mm	
ZoomScan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete/ndx=8mm dy=8mm, h= 5.00 mm	
Phantom	Left head	
Device Position	Cheek	
Band	Bluetooth	

SURFACE SAR

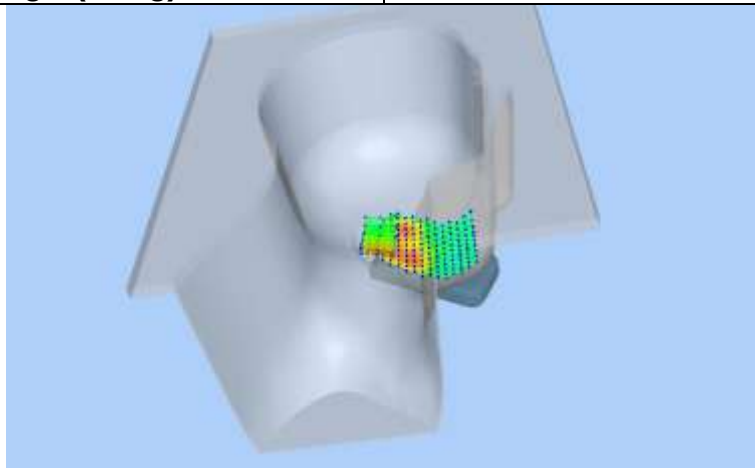


VOLUME SAR

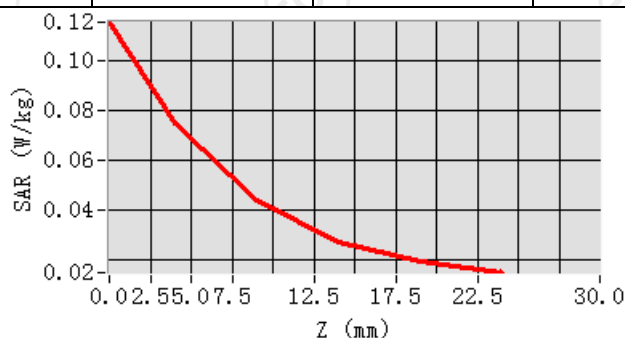


Maximum location: X=6.00, Y=-17.00
SAR Peak: 0.12 W/kg

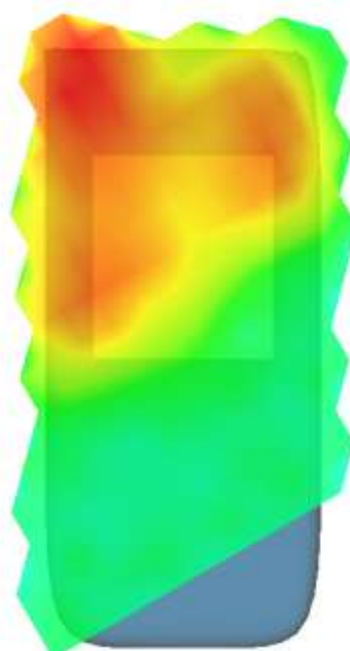
SAR 10g (W/Kg)	0.042913
SAR 1g (W/Kg)	0.076898



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.1156	0.0751	0.0439	0.0275	0.0195



Hot spot position



MEASUREMENT 2

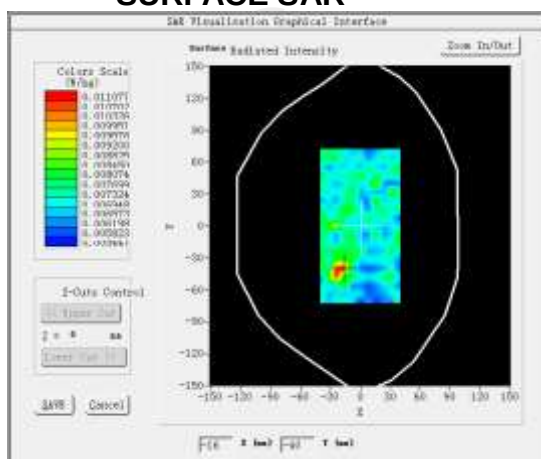
High Band SAR (Channel 78):

Date: 12/23/2024

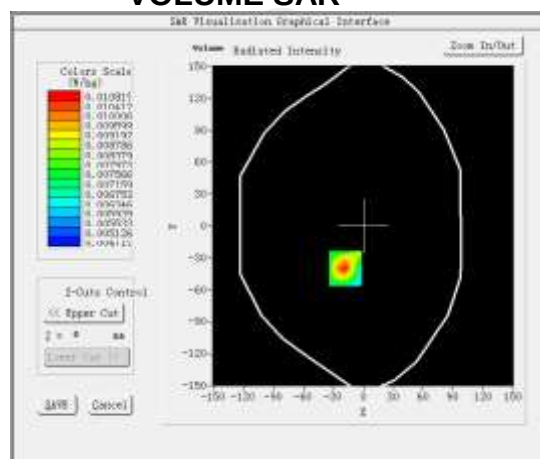
Frequency (MHz)	2480.000000
Relative permittivity (real part)	38.973538
Relative permittivity (imaginary part)	13.278305
Conductivity (S/m)	1.844288
Variation (%)	-3.300000
Crest Factor	1.0
Probe Conversion factor	2.31
E-Field Probe:	SSE2 (SN 25/22 EPG0375)
Area Scan	<u>dx=12mm dy=12mm, h= 5.00 mm</u>
ZoomScan	<u>5x5x7,dx=8mm dy=8mm</u> <u>dz=5mm,Complete/ndx=8mm dy=8mm, h=</u> <u>5.00 mm</u>

Phantom	Validation plane
Device Position	Body back(10mm)
Band	Bluetooth

SURFACE SAR



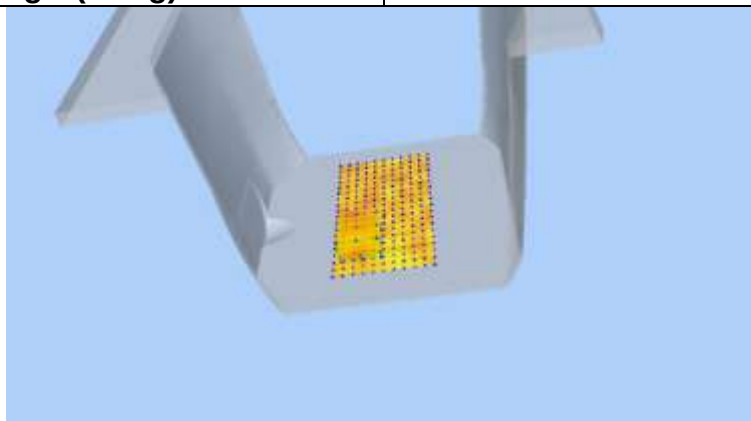
VOLUME SAR



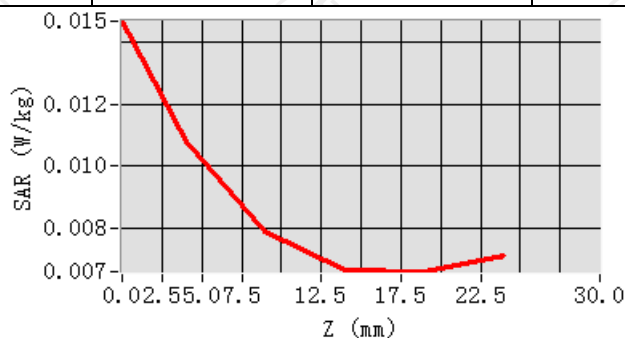
Maximum location: X=-18.00, Y=-40.00

SAR Peak: 0.01 W/kg

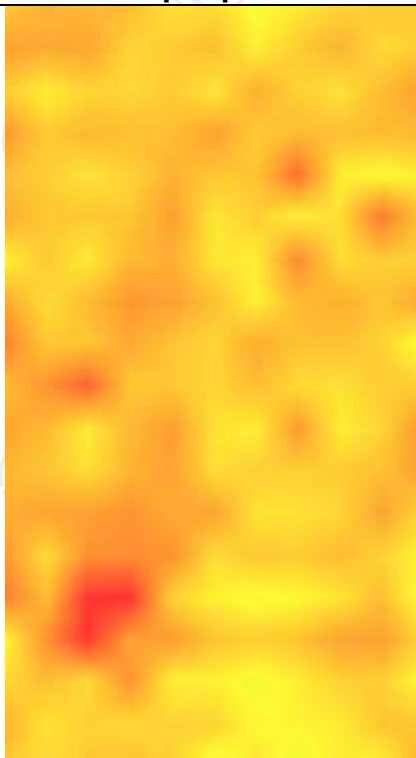
SAR 10g (W/Kg)	0.007414
SAR 1g (W/Kg)	0.015828



Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.0147	0.0108	0.0079	0.0067	0.0066



Hot spot position



Appendix A: EUT Photos



Liquid depth



The Body Liquid of 835MHz (15.4cm)



The Body Liquid of 1800MHz (15.2 cm)



The Body Liquid of 1900MHz (16.4 cm)



The Body Liquid of 2450MHz (15.3cm)



The Body Liquid of 2600MHz (16.5cm)



The Body Liquid of 750MHz (15.2 cm)



The Head Liquid of 1900MHz (15.5cm)



The Head Liquid of 2450MHz (15.6cm)



The Head Liquid of 835MHz (15.3cm)



The Head Liquid of 1800MHz (15.2cm)



The Head Liquid of 2600MHz (15.1cm)



The Head Liquid of 750MHz (15.3cm)



Appendix B: Test Setup Photos



Right Cheek



Right Tilted



Left Cheek



Left Tilted



Body worn – Front (10mm)



Body worn – Back (10mm)



Hotspo Front (10mm)



Hotspo Back (10mm)



Hotspot Top (10mm)



Hotspot Right (10mm)



Hotspot Bottom (10mm)



Hotspot Left (10mm)

Appendix C: Probe Calibration Certificate

COMOSAR E-FIELD Probe



COMOSAR E-Field Probe Calibration Report

Ref : ACR.180.7.22.BES.B

SHENZHEN TONGCE TESTING LAB

2101 & 2201, ZHENCHANG FACTORY RENSHAN INDUSTRIAL
ZONE, FUHAI SUBDISTRICT, BAO'AN DISTRICT SHENZHEN,
GUANGDONG, 518103, PEOPLE'S REPUBLIC OF CHINA

MVG COMOSAR DOSIMETRIC E-FIELD PROBE

SERIAL NO.: SN 25/22 EPG0375

Calibrated at MVG

Z.I. de la pointe du diable

Technopôle Brest Iroise – 295 avenue Alexis de Rochon
29280 PLOUZANE - FRANCE

Calibration date: 06/29/2024



Accreditations #2-6789
Scope available on www.cofrac.fr

The use of the Cofrac brand and the accreditation references is prohibited from any reproduction.

Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22 BES B

	Name	Function	Date	Signature
Prepared by :	Jérôme Le Gall	Measurement Responsible	6/30/2024	
Checked & approved by:	Jérôme Luc	Technical Manager	6/30/2024	
Authorized by:	Yann Toutain	Laboratory Director	7/05/2024	

	Customer Name
Distribution :	Shenzhen Tongce Testing Lab

Issue	Name	Date	Modifications
A	Jérôme Le Gall	6/30/2024	Initial release



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22 BES.B

TABLE OF CONTENTS

1	Device Under Test	4
2	Product Description	4
2.1	General Information	4
3	Measurement Method	4
3.1	Linearity	4
3.2	Sensitivity	4
3.3	Lower Detection Limit	5
3.4	Isotropy	5
3.1	Boundary Effect	5
4	Measurement Uncertainty	6
5	Calibration Measurement Results	6
5.1	Sensitivity in air	6
5.2	Linearity	7
5.3	Sensitivity in liquid	8
5.4	Isotropy	9
6	List of Equipment	10

**1 DEVICE UNDER TEST**

Device Under Test	
Device Type	COMOSAR DOSIMETRIC E FIELD PROBE
Manufacturer	MVG
Model	SSE2
Serial Number	SN 25/22 EPGO375
Product Condition (new / used)	New
Frequency Range of Probe	0.15 GHz-6GHz
Resistance of Three Dipoles at Connector	Dipole 1: R1=0.197 MΩ Dipole 2: R2=0.230 MΩ Dipole 3: R3=0.208 MΩ

2 PRODUCT DESCRIPTION**2.1 GENERAL INFORMATION**

MVG's COMOSAR E field Probes are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards.



Figure 1 – MVG COMOSAR Dosimetric E field Probe

Probe Length	330 mm
Length of Individual Dipoles	2 mm
Maximum external diameter	8 mm
Probe Tip External Diameter	2.5 mm
Distance between dipoles / probe extremity	1 mm

3 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their affect. All calibrations / measurements performed meet the fore mentioned standards.

3.1 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01W/kg to 100W/kg.

3.2 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards.

Page: 4/11

Template_ACR.DDD.N.IY.MVGB.ISSUE_COMOSAR Probe vE

This document shall not be reproduced, except in full or in part, without the written approval of MVG. The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.



3.3 LOWER DETECTION LIMIT

The lower detection limit was assessed using the same measurement set up as used for the linearity measurement. The required lower detection limit is 10 mW/kg.

3.4 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 to 360 degrees in 15-degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis (0°–180°) in 15° increments. At each step the probe is rotated about its axis (0°–360°).

3.1 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

The boundary effect uncertainty can be estimated according to the following uncertainty approximation formula based on linear and exponential extrapolations between the surface and $d_{be} + d_{step}$ along lines that are approximately normal to the surface:

$$SAR_{uncertainty} [\%] = \Delta SAR_{be} \frac{(d_{be} + d_{step})^2}{2d_{step}} \frac{(e^{-\alpha_{\text{min}}(\delta/2)})}{\delta/2} \quad \text{for } (d_{be} + d_{step}) < 10 \text{ mm}$$

where

$SAR_{uncertainty}$	is the uncertainty in percent of the probe boundary effect
d_{be}	is the distance between the surface and the closest zoom-scan measurement point, in millimetre
Δ_{step}	is the separation distance between the first and second measurement points that are closest to the phantom surface, in millimetre, assuming the boundary effect at the second location is negligible
δ	is the minimum penetration depth in millimetres of the head tissue-equivalent liquids defined in this standard, i.e., $\delta \approx 14$ mm at 3 GHz;
ΔSAR_{be}	in percent of SAR is the deviation between the measured SAR value, at the distance d_{be} from the boundary, and the analytical SAR value.

The measured worst case boundary effect SAR uncertainty[%] for scanning distances larger than 4mm is 1.0% Limit ,2%).



4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards were followed to generate the measurement uncertainty associated with an E-field probe calibration using the waveguide technique. All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

Uncertainty analysis of the probe calibration in waveguide					
ERROR SOURCES	Uncertainty value (%)	Probability Distribution	Divisor	ci	Standard Uncertainty (%)
Expanded uncertainty 95 % confidence level k = 2					14 %

5 CALIBRATION MEASUREMENT RESULTS

Calibration Parameters	
Liquid Temperature	20 +/- 1 °C
Lab Temperature	20 +/- 1 °C
Lab Humidity	30-70 %

5.1 SENSITIVITY IN AIR

Normx dipole 1 (μV/(V/m) ²)	Normy dipole 2 (μV/(V/m) ²)	Normz dipole 3 (μV/(V/m) ²)
0.64	0.53	0.44

DCP dipole 1 (mV)	DCP dipole 2 (mV)	DCP dipole 3 (mV)
106	108	109

Calibration curves $e_i=f(V)$ ($i=1,2,3$) allow to obtain E-field value using the formula:

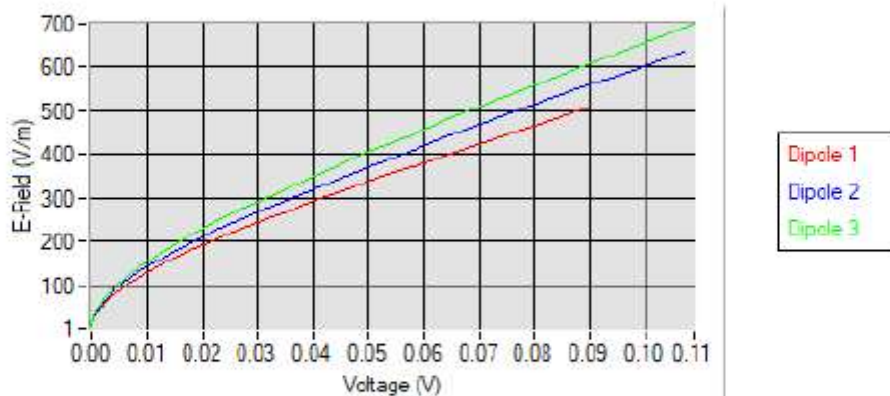
$$E = \sqrt{E_1^2 + E_2^2 + E_3^2}$$



COMOSAR E-FIELD PROBE CALIBRATION REPORT

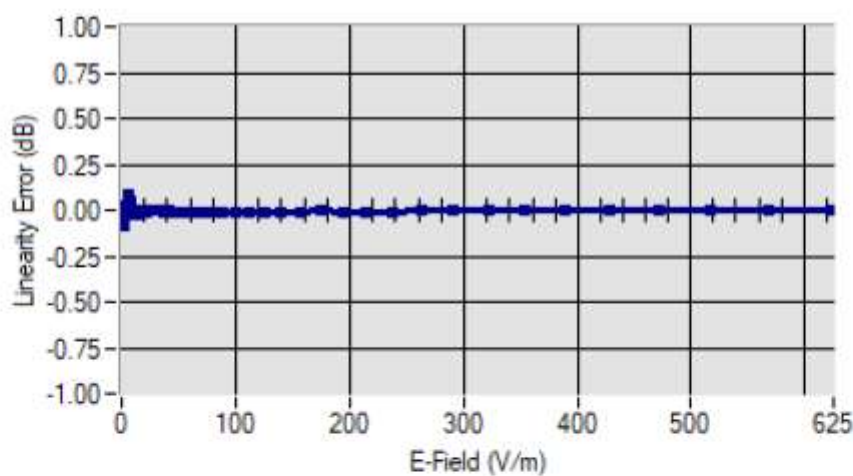
Ref: ACR.180.7.22.BES.B

Calibration curves



5.2 LINEARITY

Linearity



Linearity: +/- 1.94% (+/- 0.09dB)



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22.BES.B

5.3 SENSITIVITY IN LIQUID

Liquid	Frequency (MHz +/- 100MHz)	ConvF
HL750	750	1.71
BL750	750	1.78
HL900	900	1.91
BL900	900	1.96
HL1800	1800	2.08
BL1800	1800	2.16
HL2000	2000	2.03
BL2000	2000	2.10
HL2450	2450	2.31
BL2450	2450	2.37
HL2600	2600	2.16
BL2600	2600	2.23
HL3500	3500	2.21
BL3500	3500	2.28
HL3700	3700	3.45
BL3700	3700	3.15
HL4600	4600	3.30
BL4600	4600	3.70
HL5200	5200	2.01
BL5200	5200	2.08
HL5600	5600	2.07
BL5600	5600	2.12
HL5800	5800	2.06
BL5800	5800	2.13

LOWER DETECTION LIMIT: 7mW/kg

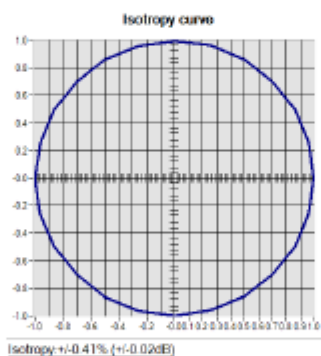


COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22.BES.B

5.4 ISOTROPY

HL1800 MHz





COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22.BES.B

6 LIST OF EQUIPMENT

Equipment Summary Sheet				
Equipment Description	Manufacturer / Model	Identification No.	Current Calibration Date	Next Calibration Date
CALIPROBE Test Bench	Version 2	NA	Validated. No cal required.	Validated. No cal required.
Network Analyzer	Rohde & Schwarz ZVM	100203	08/2024	08/2027
Network Analyzer	Agilent 8753ES	MY40003210	10/2023	10/2026
Network Analyzer – Calibration kit	HP 85033D	3423A08186	06/2021	06/2027
Multimeter	Keithley 2000	1160271	02/2023	02/2026
Signal Generator	Rohde & Schwarz SMB	106589	03/2022	03/2025
Amplifier	MVG	MODU-023-C-0002	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Power Meter	NI-USB 5680	170100013	06/2024	06/2027
Power Meter	Rohde & Schwarz NRVD	832839-056	11/2023	11/2026
Directional Coupler	Krytar 158020	131467	Characterized prior to test. No cal required.	Characterized prior to test. No cal required.
Waveguide	MVG	SN 32/16 WG4_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_0G900_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG6_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG8_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800B_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_1G800H_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG10_1	Validated. No cal required.	Validated. No cal required.
Liquid transition	MVG	SN 32/16 WGLIQ_3G500_1	Validated. No cal required.	Validated. No cal required.
Waveguide	MVG	SN 32/16 WG12_1	Validated. No cal required.	Validated. No cal required.

Page: 10/11

Template_ACR.DDD.N.YY.MVGB.ISSUE_COMOSAR Probe vK

This document shall not be reproduced, except in full or in part, without the written approval of MVG. The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.



COMOSAR E-FIELD PROBE CALIBRATION REPORT

Ref: ACR.180.7.22 BES B

Liquid transition	MVG	SN 32/16 WGLIQ_5G000_1	Validated. No cal required.	Validated. No cal required.
Temperature / Humidity Sensor	Testo 184 H1	44225320	06/2024	06/2027

Page: 11/11

Template_ACR.DDD.N.YY.MVGB.ISSUE_COMOSAR Probe vK

This document shall not be reproduced, except in full or in part, without the written approval of MVG. The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.



Dielectric Probe Calibration Report

Ref : ACR.138.4.33.SATU.A

SHENZHEN TONGCE TESTING LAB
2101&2201, ZHENCHANG FACTORY, RENSHAN
INDUSTRIAL ZONE, FUHAI SUBDISTRICT, BAOAN
DISTRICT, SHENZHEN, GUANGDONG, 518103,
PEOPLES REPUBLIC OF CHINA

MVG COMOSAR DOSIMETRIC E-FIELD PROBE

FREQUENCY: 0.3-6 GHZ

SERIAL NO.: SN 19/15 OCPG 71

Calibrated at MVG US
2105 Barrett Park Dr. - Kennesaw, GA 30144



Calibration Date: 06/05/2024

Summary:

This document presents the method and results from an accredited Dielectric Probe calibration performed in MVG USA using the LIMESAR test bench. All calibration results are traceable to national metrology institutions.



SAR DIELECTRIC PROBE CALIBRATION REPORT

Ref: ACR.138.4.33..SATUA

	Name	Function	Date	Signature
Prepared by :	Jérôme LUC	Product Manager	06/05/2024	
Checked by :	Jérôme LUC	Product Manager	06/05/2024	
Approved by :	Kim RUTKOWSKI	Quality Manager	06/05/2024	

	Customer Name
Distribution :	SHENZHEN TONGCE TESTING LAB

Issue	Date	Modifications
A	06/05/2024	Initial release



SAR DIELECTRIC PROBE CALIBRATION REPORT

Ref: ACR.138.4.33..SATU.A

TABLE OF CONTENTS

1	Introduction.....	4
2	Device Under Test	4
3	Product Description	4
3.1	General Information	4
4	Measurement Method	5
4.1	Liquid Permittivity Measurements	5
5	Measurement Uncertainty	5
5.1	Dielectric Permittivity Measurement	5
6	Calibration Measurement Results	6
6.1	Liquid Permittivity Measurement	6
7	List of Equipment	7

Page: 3/7

*This document shall not be reproduced, except in full or in part, without the written approval of MVG.
The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.*



SAR DIELECTRIC PROBE CALIBRATION REPORT

Ref: ACR.138.4.33..SATU.A

1 INTRODUCTION

This document contains a summary of the suggested methods and requirements set forth by the IEEE 1528 and CEI/IEC 62209 standards for liquid permittivity measurements and the measurements that were performed to verify that the product complies with the fore mentioned standards.

2 DEVICE UNDER TEST

Device Under Test	
Device Type	LIMESAR DIELECTRIC PROBE
Manufacturer	MVG
Model	SCLMP
Serial Number	SN 19/15 OCPG 71
Product Condition (new / used)	Used

A yearly calibration interval is recommended.

3 PRODUCT DESCRIPTION

3.1 GENERAL INFORMATION

MVG's Dielectric Probes are built in accordance to the IEEE 1528 and CEI/IEC 62209 standards. The product is designed for use with the LIMESAR test bench only.



Figure 1 – MVG LIMESAR Dielectric Probe

Page: 4/7

*This document shall not be reproduced, except in full or in part, without the written approval of MVG.
The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.*



4 MEASUREMENT METHOD

The IEEE 1528, OET 65 Bulletin C and CEI/IEC 62209-1 & 2 standards outline techniques for dielectric property measurements. The LIMESAR test bench employs one of the methods outlined in the standards, using a contact probe or open-ended coaxial transmission-line probe and vector network analyzer. The standards recommend the measurement of two reference materials that have well established and stable dielectric properties to validate the system, one for the calibration and one for checking the calibration. The LIMESAR test bench uses De-ionized water as the reference for the calibration and either DMS or Methanol as the reference for checking the calibration. The following measurements were performed to verify that the product complies with the fore mentioned standards.

4.1 LIQUID PERMITTIVITY MEASUREMENTS

The permittivity of a liquid with well established dielectric properties was measured and the measurement results compared to the values provided in the fore mentioned standards.

5 MEASUREMENT UNCERTAINTY

All uncertainties listed below represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$, traceable to the Internationally Accepted Guides to Measurement Uncertainty.

5.1 DIELECTRIC PERMITTIVITY MEASUREMENT

The following uncertainties apply to the Dielectric Permittivity measurement:

Uncertainty analysis of Permittivity Measurement					
ERROR SOURCES	Uncertainty value (+/-%)	Probability Distribution	Divisor	ci	Standard Uncertainty (+/-%)
Repeatability (n repeats, mid-band)	4.00%	N	1	1	4.000%
Deviation from reference liquid	5.00%	R	$\sqrt{3}$	1	2.887%
Network analyser-drift, linearity	2.00%	R	$\sqrt{3}$	1	1.155%
Test-port cable variations	0.00%	U	$\sqrt{2}$	1	0.000%
Combined standard uncertainty					5.066%
Expanded uncertainty (confidence level of 95%, $k=2$)					10.0%

Uncertainty analysis of Conductivity Measurement					
ERROR SOURCES	Uncertainty value (+/-%)	Probability Distribution	Divisor	ci	Standard Uncertainty (+/-%)
Repeatability (n repeats, mid-band)	3.50%	N	1	1	3.500%
Deviation from reference liquid	3.00%	R	$\sqrt{3}$	1	1.732%
Network analyser-drift, linearity	2.00%	R	$\sqrt{3}$	1	1.155%
Test-port cable variations	0.00%	U	$\sqrt{2}$	1	0.000%
Combined standard uncertainty					4.072%
Expanded uncertainty (confidence level of 95%, $k=2$)					8.1%

Page: 5/7

This document shall not be reproduced, except in full or in part, without the written approval of MVG.
The information contained herein is to be used only for the purpose for which it is submitted and is not to be released in whole or part without written approval of MVG.