



# SAR Test Report

For

**Applicant Name:** Xwireless LLC  
Address: 11565 Old Georgetown Road, Rockville, MD, USA  
EUT Name: Mobile Phone  
Brand Name: Vortex  
Model Number: V3

## Issued By

**Company Name:** BTF Testing Lab (Shenzhen) Co., Ltd.  
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

Report Number: BTF231114R00501  
FCC 47 CFR§2.1093 IEEE1528-2013 IEEE C95.1-2019  
KDB447498 D01 v06 KDB447498 D04 v01  
Test Standards: KDB865664 D01 v01r04 KDB865664 D02 v01r02  
KDB941225 D01 v03r01 KDB941225 D05 v02r05  
KDB248227 D01 v02r02 KDB941225 D06 v02r01  
KDB648474 D04 v01r03 KDB690783 D01 v01r03  
FCC ID: 2ADLJ-V3

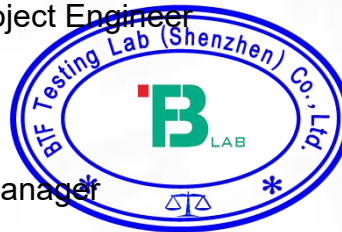
Test Conclusion: Pass  
Test Date: 2023-11-17 to 2023-11-20  
Date of Issue: 2023-11-21

Prepared By: *Monica Zhou*  
Monica Zhou / Project Engineer

Date: 2023-11-21

Approved By: *Ryan.CJ*  
Ryan.CJ / EMC Manager

Date: 2023-11-21



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-11-21	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

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## 1. Introduction

### 1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

### 1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
FCC Registration Number	518915
Designation Number	CN1330

### 1.3 Laboratory Condition

Ambient Temperature:	21°C to 25°C
Ambient Relative Humidity:	48% to 59%
Ambient Pressure:	100 kPa to 102 kPa

### 1.4 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

## 2. Product Information

### 2.1 Application Information

Company Name:	Xwireless LLC
Address:	11565 Old Georgetown Road, Rockville, MD, USA

### 2.2 Manufacturer Information

Company Name:	Xwireless LLC
Address:	11565 Old Georgetown Road, Rockville, MD, USA

### 2.3 Factory Information

Company Name:	ZTECH COMMUNICATION(SZ) CO LTD
Address:	FL 7 BLOCK D BAO' AN ZHIGU INNOVATION PARK YIN' TIAN ROAD NO. 4 XI' XIANG STR' BAO' AN DISTRICT SZ CHINA

### 2.4 General Description of Equipment under Test (EUT)

EUT Name	Mobile Phone
Under Test Model Name	V3
Sample No.	BTFSN231107007-1/2

### 2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	1000mAh
	Rated Voltage	3.85V

### 2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/13/17/25/26/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) BT (EDR+BLE)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	GSM, WCDMA, LTE, WLAN, Bluetooth		
Frequency Range	GSM 850	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	GSM 1900	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	WCDMA Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	WCDMA Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 2	TX: 1850 ~ 1910 MHz	RX: 1930 ~ 1990 MHz
	LTE Band 4	TX: 1710 ~ 1755 MHz	RX: 2110 ~ 2155 MHz
	LTE Band 5	TX: 824 ~ 849 MHz	RX: 869 ~ 894 MHz
	LTE Band 12	TX: 698 ~ 716 MHz	RX: 728 ~ 746 MHz
	LTE Band 13	TX: 777 ~ 787 MHz	RX: 746 ~ 756 MHz
	LTE Band 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 41	2496 ~ 2690 MHz	
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11n(HT40)	2422 ~ 2452 MHz	
Bluetooth	2402 ~ 2480 MHz		
Antenna Type	WWAN: PIFA Antenna WLAN: PIFA Antenna BT: PIFA Antenna		
Hotspot Function	Not Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		
Product	Type		
	<input type="checkbox"/> Production unit	<input checked="" type="checkbox"/> Identical prototype	

### 3. Summary of Test Results

#### 3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 2.1093	Radiofrequency radiation exposure evaluation: portable devices
2	IEEE1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices: Measurement Techniques
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB447498 D01	General RF Exposure Guidance v06
5	KDB447498 D04	Interim General RF Exposure Guidance v01
6	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
7	KDB865664 D02	RF Exposure Reporting v01r02
8	KDB941225 D01	3G SAR Procedures v03r01
9	KDB941225 D05	SAR for LTE Devices v02r05
10	KDB248227 D01	802.11 Wi-Fi SAR v02r02
11	KDB941225 D06	Hotspot Mode v02r01
12	KDB648474 D04	Handset SAR v01r03
13	KDB690783 D01	SAR Listings on Grant v01r03

#### 3.2 Device Category and SAR Limit

This device belongs to portable device category because its radiating structure is allowed to be used within 20 centimeters of the body of the user. Limit for General Population/Uncontrolled exposure should be applied for this device, it is 1.6 W/kg as averaged over any 1 gram of tissue.

Body Position	SAR Value (W/Kg)	
	General Population/ Uncontrolled Exposure	Occupational/ Controlled Exposure
Whole-Body SAR (averaged over the entire body)	0.08	0.4
Partial-Body SAR (averaged over any 1 gram of tissue)	1.60	8.0
SAR for hands, wrists, feet and ankles (averaged over any 10 grams of tissue)	4.0	20.0

**NOTE:**

**General Population/Uncontrolled Exposure:** Locations where there is the exposure of individuals who have no knowledge or control of their exposure. General population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

**Occupational/Controlled Exposure:** Locations where there is exposure that may be incurred by persons who are aware of the potential for exposure. In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

### 3.3 Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as follows:

<Highest Reported standalone SAR Summary>

Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Head 1-g SAR (0 mm Gap)	GSM 850	0.278	PCE	0.688
	GSM 1900	0.559		
	WCDMA Band II	0.675		
	WCDMA Band IV	<b>0.688</b>		
	WCDMA Band V	0.203		
	LTE Band 2	0.169		
	LTE Band 4	0.209		
	LTE Band 5	0.356		
	LTE Band 12	0.216		
	LTE Band 13	0.257		
	LTE Band 25	0.147		
	LTE Band 26	0.234		
	LTE Band 41	0.668		
	LTE Band 66	0.166		
	LTE Band 71	0.227		
WLAN 2.4 GHz	0.227	DTS	0.688	
Bluetooth	0.096	DSS		
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Hotspot(Body) 1-g SAR (10 mm Gap)	GSM 850	0.447	PCB	0.794
	GSM 1900	0.387		
	WCDMA Band II	0.630		
	WCDMA Band IV	0.787		
	WCDMA Band V	0.219		
	LTE Band 2	<b>0.794</b>		
	LTE Band 4	0.553		
	LTE Band 5	0.410		
	LTE Band 12	0.436		
	LTE Band 13	0.349		
	LTE Band 25	0.587		
	LTE Band 26	0.537		
	LTE Band 41	0.558		
	LTE Band 66	0.772		
	LTE Band 71	0.543		
WLAN 2.4 GHz	0.144	DTS		

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

<Highest Reported Simultaneous SAR>

Exposure Position	Simultaneous Configuration	Highest Reported Simultaneous Transmission SAR (W/kg)	Limit (W/kg)	Verdict
Head 1-g SAR (0 mm Gap)	WCDMA Band IV + 2.4G WIFI	0.915	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE band 2 + 2.4G WIFI	0.938	1.6	Pass



### 3.4 Test Uncertainty

#### 3.4.1 Measurement uncertainty evaluation for SAR test

#### Measurement uncertainty evaluation for SAR test (300MHz to 6GHz)

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Ci (1g)	Ci (10g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
<b>Measurement System</b>								
Probe calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	√3	√0.5	√0.5	1.43	1.43	∞
Hemispherical Isotropy	5.9	R	√3	√0.5	√0.5	2.41	2.41	∞
Boundary effect	1.0	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1.0	R	√3	1	1	0.58	0.58	∞
Modulation response	3.0	R	√3	1	1	1.73	1.73	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	1	1	0.00	0.00	∞
Integration Time	1.4	R	√3	1	1	0.81	0.81	∞
RF ambient Conditions - Noise	3.0	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3.0	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
<b>Test sample Related</b>								
Test sample positioning	2.6	N	1	1	1	2.60	2.60	11
Device Holder Uncertainty	3.0	N	1	1	1	3.00	3.00	7
Output power Variation - SAR drift measurement	5.0	R	√3	1	1	2.89	2.89	∞
SAR scaling	2.0	R	√3	1	1	1.15	1.15	∞
<b>Phantom and Tissue Parameters</b>								
Phantom Shell Uncertainty - Shape, Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity measurement	4.0	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.47	10.34	
Expanded Uncertainty (95% Confidence interval)		k				20.95	20.69	

\* This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 3.4.2 Measurement uncertainty evaluation for system check

Uncertainty Component	Tol (+- %)	Prob. Dist.	Div.	Ci (1g)	Ci (10 g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
<b>Measurement System</b>								
Probe calibration	5.8	N	1	1	1	5.80	5.80	∞
Axial Isotropy	3.5	R	√3	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	√3	0	0	0.00	0.00	∞
Boundary effect	1	R	√3	1	1	0.58	0.58	∞
Linearity	4.7	R	√3	1	1	2.71	2.71	∞
System detection limits	1	R	√3	1	1	0.58	0.58	∞
Modulation response	0	N	√3	0	0	0.00	0.00	∞
Readout Electronics	0.5	N	1	1	1	0.50	0.50	∞
Response Time	0	R	√3	0	0	0.00	0.00	∞
Integration Time	1.4	R	√3	0	0	0.00	0.00	∞
RF ambient Conditions - Noise	3	R	√3	1	1	1.73	1.73	∞
RF ambient Conditions - Reflections	3	R	√3	1	1	1.73	1.73	∞
Probe positioner Mechanical Tolerance	1.4	R	√3	1	1	0.81	0.81	∞
Probe positioning with respect to Phantom Shell	1.4	R	√3	1	1	0.81	0.81	∞
Extrapolation, interpolation and integration Algorithms for Max. SAR Evaluation	2.3	R	√3	1	1	1.33	1.33	∞
<b>Dipole</b>								
Deviation of experimental source from numerical source	5	N	1	1	1	5.00	5.00	∞
Input Power and SAR drift measurement	0.5	R	√3	1	1	0.29	0.29	∞
Dipole Axis to Liquid Dist.	2.0	R	√3	1	1	1.15	1.15	∞
<b>Phantom and Tissue Parameters</b>								
Phantom Shell Uncertainty - Shape, Thickness and Permittivity	4	R	√3	1	1	2.31	2.31	∞
Uncertainty in SAR correction for deviation in permittivity and conductivity	2.0	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity measurement	4	N	1	0.78	0.71	3.12	2.84	5
Liquid permittivity measurement	5.0	N	1	0.23	0.26	1.15	1.30	5
Liquid Conductivity - Temperature Uncertainty	2.5	R	√3	0.78	0.71	1.13	1.02	∞
Liquid permittivity - Temperature Uncertainty	2.5	R	√3	0.23	0.26	0.33	0.38	∞
Combined Standard Uncertainty		RSS				10.16	10.03	
Expanded Uncertainty (95% Confidence interval)		k				20.32	20.06	

## 4. Measurement System

### 4.1 Specific Absorption Rate (SAR) Definition

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

The SAR definition is the time derivative (rate) of the incremental energy ( $dW$ ) absorbed by (dissipated in) an incremental mass ( $dm$ ) contained in a volume element ( $dv$ ) of a given density ( $\rho$ ). The equation description is as below:

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

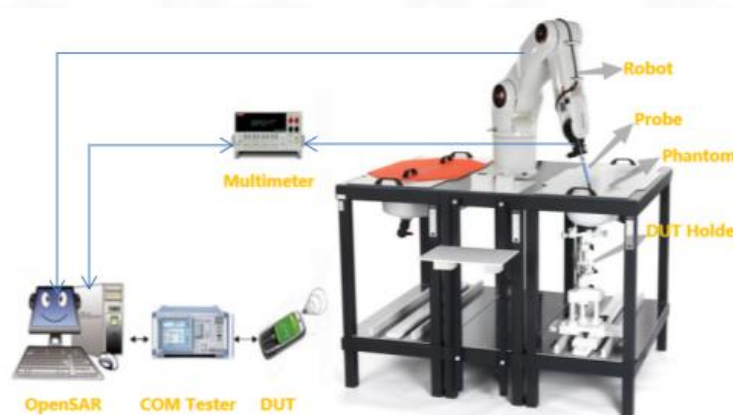
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where:  $\sigma$  is the conductivity of the tissue,  
 $\rho$  is the mass density of the tissue and  $E$  is the RMS electrical field strength.

### 4.2 MVG SAR System

#### 4.2.1 SAR system diagram



#### 4.2.2 Robot



- A standard high precision 6-axis robot (Denso) with teaches pendant with Scanning System
- It must be able to scan all the volume of the phantom to evaluate the tridimensional distribution of SAR.
  - Must be able to set the probe orthogonal of the surface of the phantom ( $\pm 30^\circ$ ).
  - Detects stresses on the probe and stop itself if necessary to keep the integrity of the probe.

#### 4.2.3 E-Field Probe

For the measurements, the Specific Dosimetric SSE2 E-Field Probe with following specifications is used:

- Dynamic range: 0.01-100 W/kg
- Tip diameter: 2mm for SSE2
- Distance between probe tip and sensor centre: 1mm for SSE2
- Distance between sensor centre and the inner phantom surface: 2mm for  $f \geq 4\text{GHz}$ .
- Probe linearity:  $< 0.25\text{dB}$ .
- Axial Isotropy:  $< 0.25\text{dB}$ .
- Spherical Isotropy:  $< 0.50\text{dB}$ .
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Angle between probe axis (evaluation axis) and surface normal line: less than  $20^\circ$ .



#### 4.2.4 Phantoms

##### **SAM Phantom**

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The probe scanning of the E-Field is done in the 2 halves of the normalized head. The normalized shape of the phantom corresponds to the dimensions of 90% of an adult head size. It enables the dosimetric evaluation of left and right-hand phone usage and includes an additional flat phantom part for the simplified body performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.



**SAM Phantom**

The thickness of the phantom amounts to 2 mm±0.2 mm. The materials for the phantom do not affect the radiation of the device under test (DUT) :  $\epsilon_r' < 5$   
The head is filled with tissue simulating liquid. The hand do not have to be modeled.

**TWIN SAM phantom**

	Mechanical	Electrical	
Overall thickness	2±0.2 mm(except ear area)	Relative permittivity	3.4
Dimensions	1000 mm(L) x 500 mm(W) x 200 mm(H)	Loss tangent	0.02
Maximum volume	27 L		
Material	Fiberglass based		

**ELLIPTICAL Phantom**

The phantom is for Body performance check filled with tissue-equivalent liquid to a depth of at least 150 mm, whose shell material is resistant to damage or reaction with tissue-equivalent liquid chemicals.



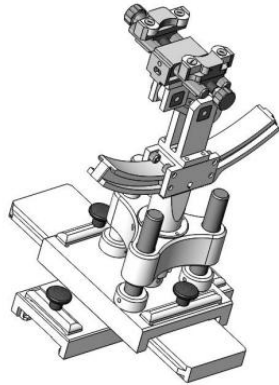
**ELLI Phantom**

The shape of the phantom is an ellipse with length 600mm±5mm and width 400mm±5mm. The phantom shell is made of low-loss and low-permittivity material, having loss tangent  $\tan\delta \leq 0.05$  and relative permittivity:  
 $\epsilon_r' \leq 5$  for  $f \leq 3$  GHz  
 $3 \leq \epsilon_r' \leq 5$  for  $f > 3$  GHz  
The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of ± 0.2 mm.

**Technical & mechanical characteristics**

Shell thickness	2 mm ± 0.2 mm
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200mm
Permittivity	4.4
Loss tangent	0.017

#### 4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

*(The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.)*

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

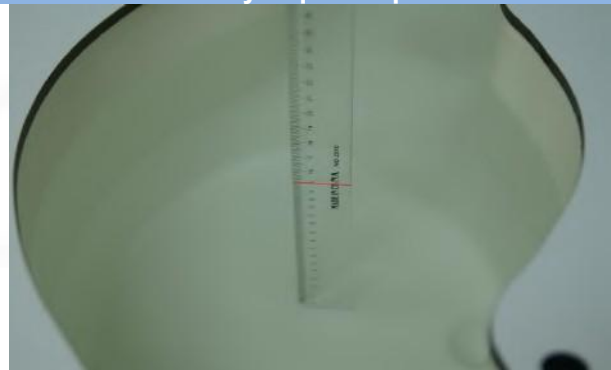
#### 4.2.6 Simulating Liquid

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15 cm. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm. The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5%.

Head Liquid Depth



Body Liquid Depth



The following table gives the recipes for tissue simulating liquid and the theoretical Conductivity/Permittivity.

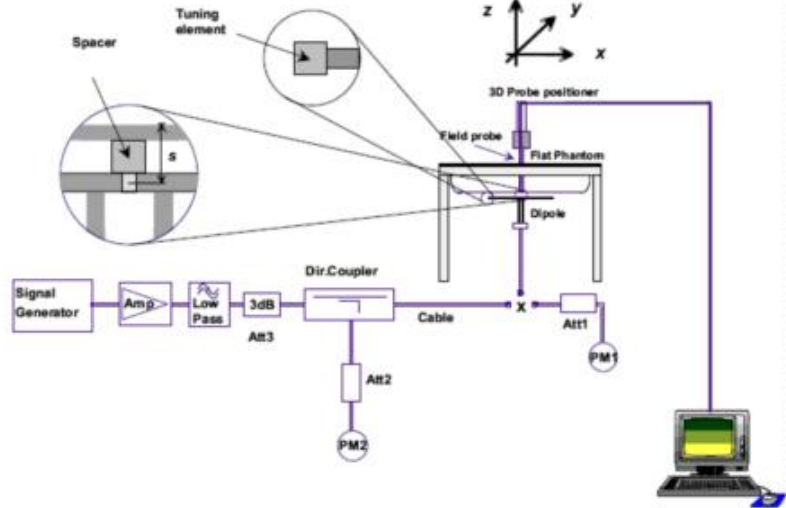
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity $\sigma$ (S/m)	Permittivity $\epsilon$
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	1.4	40.0
2450	55.0	0	0	0.1	0	44.9	1.80	39.2
2600	54.9	0	0	0.1	0	45.0	1.96	39.0
Frequency (MHz)	Water (%)	Hexyl Carbitol (%)			Triton X-100 (%)		Conductivity $\sigma$ (S/m)	Permittivity $\epsilon$
5200	62.52	17.24			17.24		4.66	36.0
5800	62.52	17.24			17.24		5.27	35.3
Body (From instrument manufacturer)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity $\sigma$ (S/m)	Permittivity $\epsilon$
750	51.7	47.2	0	0.9	0.1	0	0.96	55.5
835	50.8	48.2	0	0.9	0.1	0	0.97	55.2
900	50.8	48.2	0	0.9	0.1	0	1.05	55.0
1800, 1900, 2000	70.2	0	0	0.4	0	29.4	1.52	53.3
2450	68.6	0	0	0.1	0	31.3	1.95	52.7
2600	68.2	0	0	0.1	0	31.7	2.16	52.5
Frequency(MHz)	Water	DGBE (%)			Salt (%)		Conductivity $\sigma$ (S/m)	Permittivity $\epsilon$
5200	78.60	21.40			/		5.30	49.00
5800	78.50	21.40			0.1		6.00	48.20

## 5. System Verification

### 5.1 Purpose of System Check

The system performance check verifies that the system operates within its specifications. System and operator errors can be detected and corrected. It is recommended that the system performance check be performed prior to any usage of the system in order to guarantee reproducible results. The system performance check uses normal SAR measurements in a simplified setup with a well characterized source. The setup was selected to give a high sensitivity to all parameters that might fail or vary over time. The system check does not intend to replace the calibration of the components, but indicates situations where the system uncertainty is exceeded due to drift or failure.

## 5.2 System Check Setup



## 6. TEST POSITION CONFIGURATIONS

According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

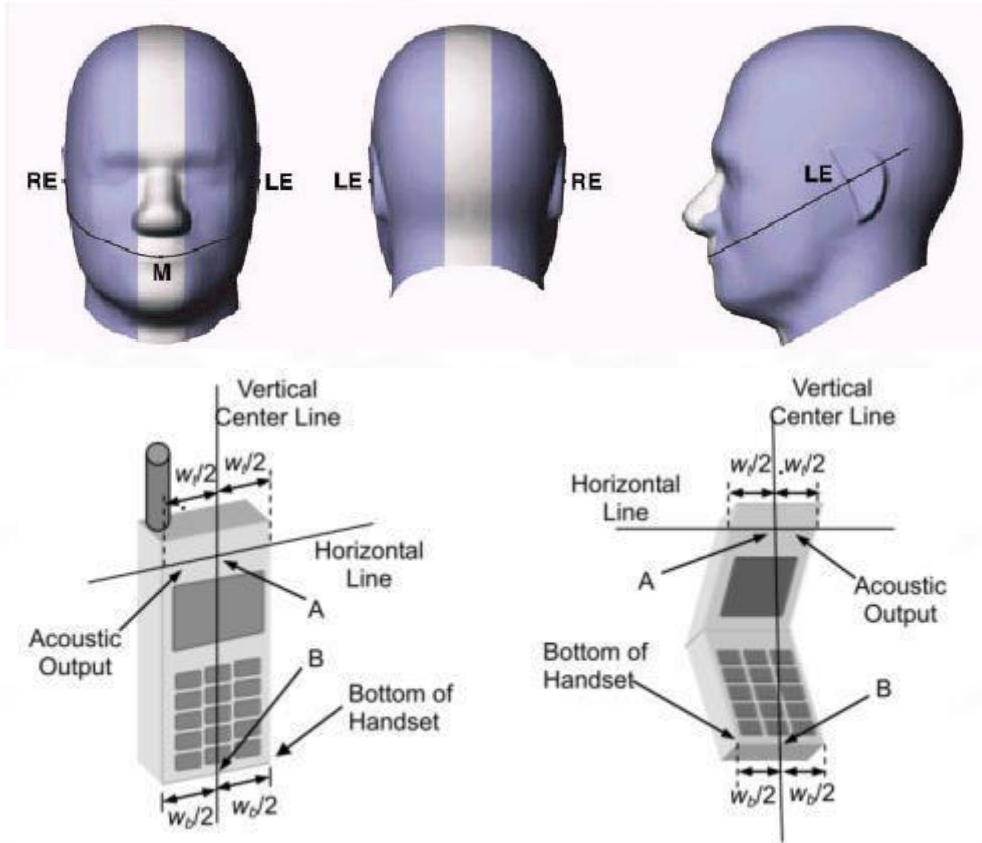
### 6.1 Head Exposure Conditions

Head exposure is limited to next to the ear voice mode operations. Head SAR compliance is tested according to the test positions defined in IEEE Std 1528-2013 using the SAM phantom illustrated as below.

#### 6.1.1 Two Imaginary Lines on the Handset

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





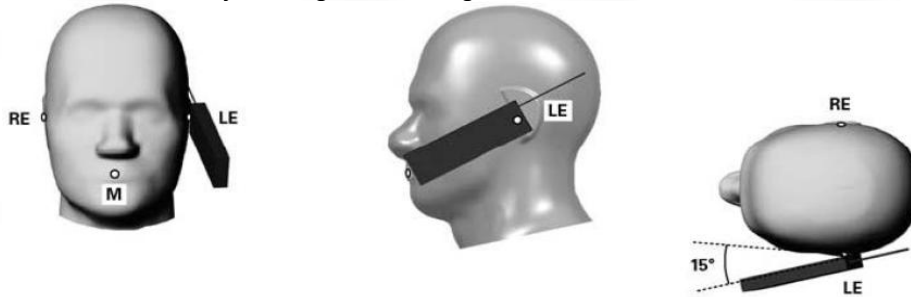
### 6.1.2 Two Imaginary Lines on the Handset

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



### 6.1.3 Titled Position

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

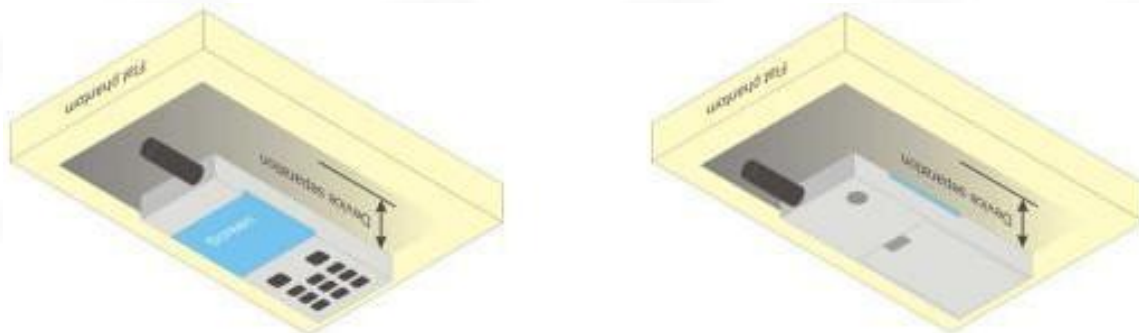


## 6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory.

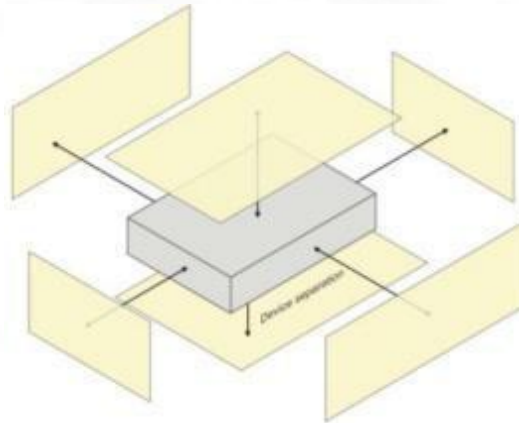
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics. All body-worn accessories containing metallic components are tested in conjunction with the host device.

Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice only operations in its normal and expected use conditions, testing of data mode for body-worn compliance is not required. A conservative minimum test separation distance for supporting off-the-shelf body-worn accessories that may be acquired by users of consumer handsets is used to test for body-worn accessory SAR compliance. This distance is determined by the handset manufacturer, according to the requirements of Supplement C 01-01. Devices that are designed to operate on the body of users using lanyards and straps, or without requiring additional body-worn accessories, will be tested using a conservative minimum test separation distance  $\leq 5$  mm to support compliance.



### 6.3 Hotspot Mode Exposure Position Conditions

For handsets that support hotspot mode operations, with wireless router capabilities and various web browsing functions, the relevant hand and body exposure conditions are tested according to the hotspot SAR procedures in KDB 941225. A test separation distance of 10 mm is required between the phantom and all surfaces and edges with a transmitting antenna located within 25 mm from that surface or edge. When the form factor of a handset is smaller than 9 cm x 5 cm, a test separation distance of 5 mm (instead of 10 mm) is required for testing hotspot mode. When the separation distance required for body-worn accessory testing is larger than or equal to that tested for hotspot mode, in the same wireless mode and for the same surface of the phone, the hotspot mode SAR data may be used to support body-worn accessory SAR compliance for that particular configuration (surface).



### 6.4 Product Specific 10g Exposure Consideration

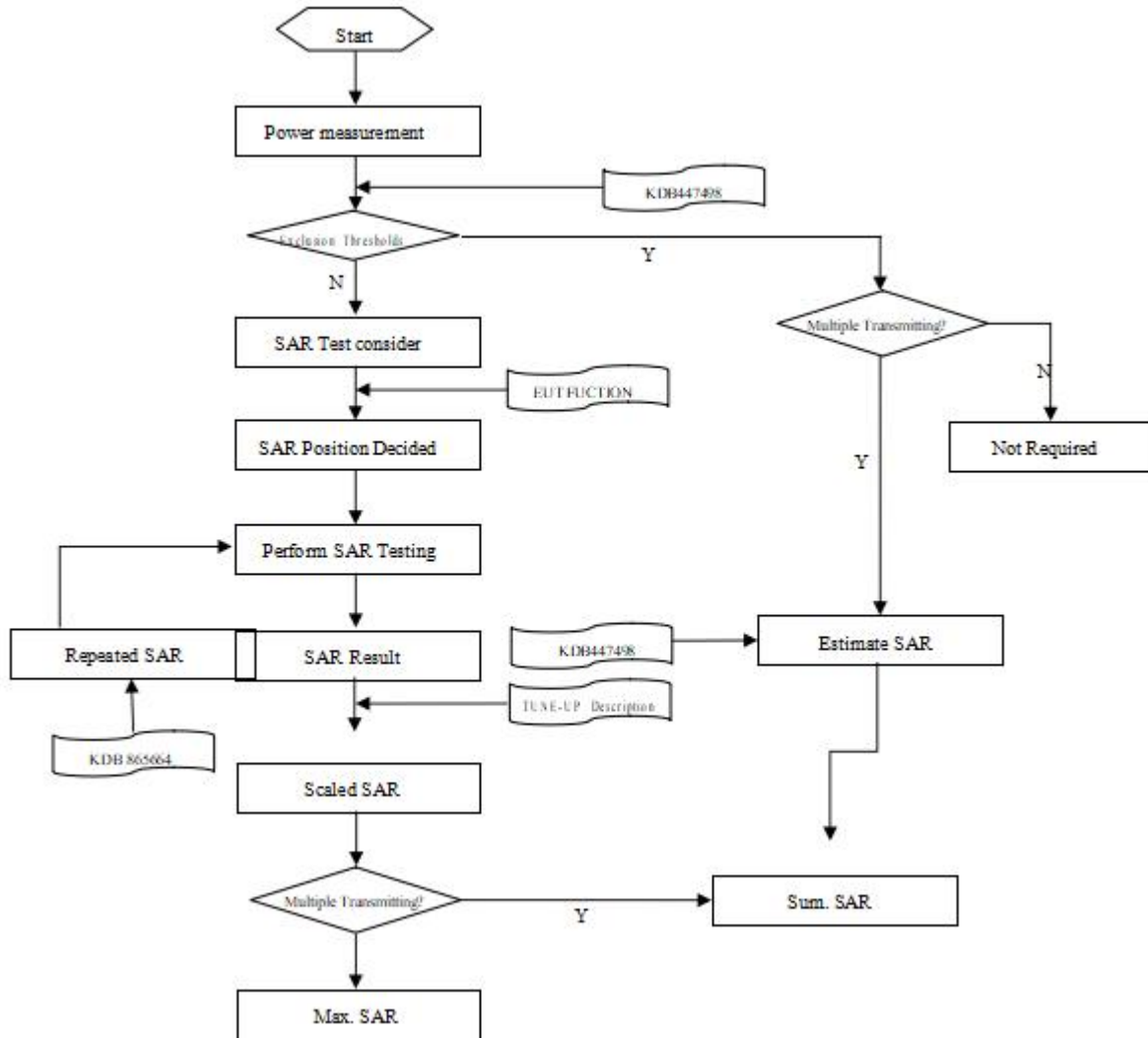
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed otherwise through KDB inquiries, the following phablet procedures should be applied to evaluate SAR compliance for each applicable wireless modes and frequency band. Devices marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance;

The UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna located at  $\leq 25$  mm from that surface or edge, in direct contact with a flat phantom, for 10-g extremity SAR according to the body-equivalent tissue dielectric parameters in KDB 865664 to address interactive hand use exposure conditions. The UMPC mini-tablet 1-g SAR at 5 mm is not required. When hotspot mode applies, 10-g extremity SAR is required only for the surfaces and edges with hotspot mode 1-g reported SAR > 1.2 W/kg.

## 7. Measurement Procedure

### 7.1 Measurement Process Diagram

Body SAR



## 7.2 SAR Scan General Requirement

Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1 g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std 1528-2013.

		≤3GHz	>3GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface		5±1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$
Maximum probe angle from probe axis to phantom surface normal at the measurement location		30°±1°	20°±1°
Maximum area scan spatial resolution: Δx Area , Δy Area		≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3–4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 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 ≤ 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		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3–4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: Δz Zoom (n)	≤ 5 mm	3–4 GHz: ≤ 4 mm
			4–5 GHz: ≤ 3 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	5–6 GHz: ≤ 2 mm
			3–4 GHz: ≤ 3 mm 4–5 GHz: ≤ 2.5 mm
		Δz Zoom (n>1): between subsequent points	5–6 GHz: ≤ 2 mm
		≤ 1.5·Δz Zoom (n-1)	
Minimum zoom scan volume	x, y, z	≥30 mm	3–4 GHz: ≥ 28 mm
			4–5 GHz: ≥ 25 mm
			5–6 GHz: ≥ 22 mm
Note: 1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details. 2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.			

### 7.3 Measurement Procedure

The following steps are used for each test position

- a. Establish a call with the maximum output power with a base station simulator. The connection between the mobile and the base station simulator is established via air interface
- b. Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- c. Measurement of the SAR distribution with a grid of 8 to 16mm \* 8 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- d. Around this point, a cube of 30 \* 30 \* 30 mm or 32 \* 32 \* 32 mm is assessed by measuring 5 or 8 \* 5 or 8\*4 or 5 mm. With these data, the peak spatial-average SAR value can be calculated.

### 7.4 Area & Zoom Scan Procedure

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 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

When the 1 g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.

## 8. Conducted RF Output Power

### 8.1 GSM

Mode: GSM850		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH128	CH190	CH251		CH128	CH190	CH251
			824.2MHz	836.6MHz	848.8MHz		824.2MHz	836.6MHz	848.8MHz
GSM		<b>31.50</b>	31.15	31.29	<b>31.45</b>	-9.03	22.12	22.26	<b>22.42</b>
GPRS (GMSK)	1Tx slot	31.50	31.17	31.23	31.42	-9.03	22.14	22.20	22.39
	2Tx slots	<b>29.50</b>	<b>29.29</b>	29.21	29.20	-6.02	<b>23.27</b>	23.19	23.18
	3Tx slots	27.50	27.36	27.30	27.25	-4.26	23.10	23.04	22.99
	4Tx slots	25.50	25.18	25.13	25.06	-3.01	22.17	22.12	22.05
EGPRS (8PSK)	1Tx slot	25.50	25.01	24.66	24.39	-9.03	15.98	15.63	15.36
	2Tx slots	24.00	23.95	23.65	23.67	-6.02	17.93	17.63	17.65
	3Tx slots	23.50	21.96	23.08	21.52	-4.26	17.70	18.82	17.26
	4Tx slots	19.50	19.29	19.14	19.09	-3.01	16.28	16.13	16.08
Mode: GSM1900		Maximum Tune-up(dBm)	Burst Average Power (dBm)			Division Factors	Frame-Average Power (dBm)		
			CH512	CH661	CH810		CH512	CH661	CH810
			1850.2MHz	1880.0MHz	1909.8MHz		1850.2MHz	1880.0MHz	1909.8MHz
GSM		<b>30.00</b>	<b>29.89</b>	29.77	29.54	-9.03	<b>20.86</b>	20.74	20.51
GPRS (GMSK)	1Tx slot	30.00	29.90	29.79	29.50	-9.03	20.87	20.76	20.47
	2Tx slots	<b>30.00</b>	<b>29.88</b>	29.78	29.49	-6.02	<b>23.86</b>	23.76	23.47
	3Tx slots	28.00	27.62	27.41	26.76	-4.26	23.36	23.15	22.50
	4Tx slots	27.00	26.50	26.32	25.71	-3.01	23.49	23.31	22.70
EGPRS (8PSK)	1Tx slot	27.00	26.59	26.24	25.57	-9.03	17.56	17.21	16.54
	2Tx slots	25.50	25.27	25.05	24.68	-6.02	19.25	19.03	18.66
	3Tx slots	23.50	23.26	22.60	22.24	-4.26	19.00	18.34	17.98
	4Tx slots	21.50	21.46	21.27	20.54	-3.01	18.45	18.26	17.53
Note: 1) 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									

## 8.2 WCDMA

Mode		Maximum Tune-up(dBm)	WCDMA Band II		
			Conducted Power (dBm)		
			CH9262	CH9400	CH9538
RMC 12.2K		<b>20.00</b>	14.43	<b>19.65</b>	18.39
HSDPA	Subtest-1	17.50	17.35	16.84	16.04
	Subtest-2	17.50	17.31	16.87	16.06
	Subtest-3	17.50	17.36	16.85	16.06
	Subtest-4	17.50	17.32	16.88	16.04
HSUPA	Subtest-1	15.00	14.74	14.33	13.56
	Subtest-2	15.50	15.03	14.59	14.08
	Subtest-3	15.00	14.75	14.35	13.85
	Subtest-4	15.50	15.26	14.87	14.07
RMC 12.2K		<b>21.50</b>	17.12.4	1732.6	1752.6
HSDPA	Subtest-1	19.50	18.79	18.64	19.04
	Subtest-2	19.50	18.68	18.65	19.05
	Subtest-3	19.50	18.68	18.66	19.15
	Subtest-4	19.00	18.69	18.56	19.00
HSUPA	Subtest-1	17.00	16.58	16.51	16.90
	Subtest-2	17.00	16.12	16.24	16.95
	Subtest-3	17.00	16.55	16.28	16.58
	Subtest-4	17.00	16.36	16.25	16.64
RMC 12.2K		<b>22.50</b>	16.36	16.30	16.84
HSDPA	Subtest-1	20.00	19.65	19.60	19.56
	Subtest-2	20.00	19.61	19.61	19.57
	Subtest-3	20.00	19.63	19.59	19.54
	Subtest-4	20.00	19.61	19.64	19.56
HSUPA	Subtest-1	17.50	17.48	17.15	17.29
	Subtest-2	18.00	17.68	17.73	17.29
	Subtest-3	17.50	17.43	17.16	17.31
	Subtest-4	18.00	17.71	17.71	17.78
RMC 12.2K		<b>22.50</b>	17.49	17.54	17.32

Per KDB 941225 D01, when the maximum output power and tune-up tolerance specified for production units in a secondary mode is  $\leq 1/2$ dB higher than the primary mode (RMC12.2kbps) or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is  $\leq 1.2$  W/kg, SAR measurement is not required for the secondary mode.



### 8.3 LTE

#### Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
1.4MHz	QPSK	1	0	19.50	19.16	19.23	19.31
			2	19.50	19.23	19.36	19.42
			5	19.50	19.14	19.23	19.32
		3	0	19.50	19.26	19.14	19.42
			2	19.50	19.26	19.21	19.47
			3	19.50	19.25	19.16	19.40
	16QAM	6	0	18.50	18.23	18.31	18.38
			0	18.50	18.16	18.10	18.46
			2	19.00	18.29	18.22	18.57
		3	5	18.50	18.15	18.16	18.47
			0	18.50	18.45	18.17	18.41
			2	19.00	18.50	18.18	18.42
3	18.50	18.49	18.15	18.40			
6	0	17.50	17.23	17.11	17.43		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	20.00	19.33	19.39	19.51
			7	20.00	19.45	19.46	19.61
			14	19.50	19.34	19.32	19.41
		8	0	18.50	18.37	18.38	18.27
			4	18.50	18.35	18.40	18.39
			7	18.50	18.31	18.35	18.17
	15	0	18.50	18.34	18.30	18.16	
	16QAM	1	0	18.50	18.36	18.40	18.47
			7	19.00	18.51	18.52	18.64
			14	19.00	18.33	18.43	18.57
		8	0	17.50	17.39	17.22	17.14
			4	17.50	17.39	17.27	17.29
7			17.50	17.35	17.22	17.22	
15	0	17.50	17.36	17.17	17.11		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	19.50	19.13	18.64	18.82
			13	19.50	19.24	18.75	18.91
			24	19.50	19.17	18.66	18.83
		12	0	18.50	18.13	17.70	17.94
			6	18.50	18.21	17.75	17.93
			13	18.00	17.75	17.78	17.84
	25	0	18.00	17.73	17.80	17.86	
	16QAM	1	0	18.00	17.72	17.84	17.56
			13	18.00	17.87	17.96	17.79
			24	18.00	17.77	17.98	17.73
		12	0	17.00	16.77	16.71	16.92
			6	17.00	16.78	16.79	16.89
13			17.00	16.62	16.88	16.82	
25	0	17.00	16.73	16.88	16.87		

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		18650	18900	19150		
					1855.0MHz	1880.0MHz	1905.0MHz		
10MHz	QPSK	1	0	19.50	19.20	18.70	18.88		
			25	19.50	19.39	18.89	19.07		
			49	19.00	18.64	18.67	18.82		
		25	0	18.00	17.91	17.72	17.86		
			13	18.00	17.76	17.82	17.92		
			25	18.00	17.67	17.80	17.81		
	16QAM	50	0	18.00	17.78	17.75	17.85		
			1	0	18.50	17.73	17.74	18.16	
				25	18.50	17.85	18.02	18.42	
		49		18.50	17.63	17.85	18.45		
		25	0	17.00	16.99	16.64	16.81		
			13	17.00	16.84	16.75	16.89		
			25	17.00	16.75	16.78	16.79		
			50	0	17.00	16.80	16.72	16.77	
				15MHz	QPSK	1	0	19.50	19.01
38	19.00						18.76	18.75	18.96
74	19.00	18.45	18.54				18.69		
36	0	18.00	17.79	17.80		17.89			
	18	18.50	17.68	17.83		18.04			
	39	18.00	17.62	17.75		17.92			
16QAM	75	0	18.00	17.74	17.79	17.97			
		1	0	18.50	17.92	17.59	18.15		
			38	18.50	18.09	17.82	18.21		
	74		18.50	17.73	17.74	18.28			
	36	0	17.00	16.79	16.64	16.86			
		18	17.00	16.65	16.73	16.94			
		39	17.00	16.60	16.72	16.85			
		75	0	17.00	16.68	16.68	16.80		
			20MHz	QPSK	1	0	18.50	18.34	18.36
50						<b>19.50</b>	18.67	18.86	<b>19.03</b>
99	19.00	18.31				18.44	18.57		
50	0	18.00	17.84		17.57	<b>17.84</b>			
	25	18.00	17.64		17.70	17.81			
	50	18.00	17.73		17.68	17.84			
16QAM	100	0	18.00	17.78	17.64	17.80			
		1	0	18.00	17.87	17.42	17.74		
			50	18.50	18.27	17.96	18.19		
	50		99	18.00	17.69	17.66	17.89		
		0	17.00	16.87	16.48	16.83			
		25	17.00	16.64	16.63	16.77			
	100	50	17.00	16.66	16.64	16.76			
		0	17.00	16.79	16.57	16.85			

Band 4

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		19957	20175	20393
					1710.7MHz	1732.5MHz	1754.3MHz
1.4MHz	QPSK	1	0	20.00	19.74	19.76	19.89
			2	20.50	19.86	19.86	20.05
			5	20.00	19.76	19.77	19.88
		3	0	20.50	19.82	19.91	20.03
			2	20.00	19.81	19.90	19.94
			3	20.00	19.44	19.87	19.84
	6	0	19.00	18.31	18.85	18.81	
	16QAM	1	0	19.00	18.23	18.79	18.84
			2	19.00	18.36	18.88	18.85
			5	19.00	18.29	18.76	18.65
		3	0	19.50	18.41	19.11	18.80
			2	19.50	18.42	19.13	18.66
3			19.50	18.40	19.14	18.65	
6	0	18.00	17.22	17.88	17.42		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	20.00	19.86	19.62	19.51
			7	20.00	19.98	19.74	19.55
			14	20.00	19.86	19.41	19.38
		8	0	19.00	18.86	18.43	18.45
			4	19.00	18.88	18.55	18.53
			7	19.00	18.87	18.46	18.48
	15	0	19.00	18.85	18.44	18.49	
	16QAM	1	0	19.50	18.88	18.60	19.01
			7	19.50	18.68	18.73	19.18
			14	19.50	18.53	18.60	19.04
		8	0	18.00	17.72	17.40	17.61
			4	18.00	17.89	17.44	17.71
7			18.00	17.81	17.39	17.65	
15	0	18.00	17.74	17.39	17.56		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	20.00	19.69	19.22	19.28
			13	20.00	19.80	19.33	19.40
			24	19.50	19.43	19.20	19.35
		12	0	18.50	18.34	18.30	18.37
			6	19.00	18.51	18.37	18.42
			13	18.50	18.32	18.33	18.37
	25	0	18.50	18.29	18.34	18.43	
	16QAM	1	0	19.00	18.28	18.53	18.17
			13	19.00	18.41	18.70	18.29
			24	19.00	18.32	18.54	18.19
		12	0	17.50	17.26	17.36	17.40
			6	17.50	17.30	17.43	17.49
13			17.50	17.26	17.40	17.44	
25	0	17.50	17.26	17.30	17.44		

LTE-FDD Band 4				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20000	20175	20350	
					1715.0MHz	1732.5MHz	1750.0MHz	
10MHz	QPSK	1	0	20.00	19.72	19.26	19.29	
			25	20.00	19.55	19.52	19.53	
			49	19.50	19.27	19.24	19.32	
		25	0	19.00	18.35	18.43	18.52	
			13	18.50	18.34	18.42	18.47	
			25	18.50	18.33	18.44	18.45	
	50	0	18.50	18.36	18.45	18.48		
	16QAM	1	0	19.00	18.25	18.47	18.91	
			25	19.50	18.52	18.73	19.11	
			49	19.50	18.28	18.47	19.01	
		25	0	18.00	17.43	17.43	17.56	
			13	18.00	17.39	17.43	17.50	
			25	17.50	17.42	17.47	17.49	
		50	0	17.50	17.36	17.46	17.48	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175
15MHz		QPSK	1	0	19.50	19.12	19.11	19.15
	38			19.50	19.29	19.33	19.38	
	74			19.50	19.11	19.13	19.16	
	36		0	18.50	18.31	18.32	18.44	
			18	18.50	18.31	18.37	18.45	
			39	18.50	18.26	18.41	18.35	
	75	0	18.50	18.36	18.38	18.41		
	16QAM	1	0	19.00	18.51	18.36	18.71	
			38	19.50	18.77	18.54	19.01	
			74	19.00	18.57	18.34	18.81	
		36	0	17.50	17.36	17.30	17.43	
			18	17.50	17.34	17.38	17.46	
			39	17.50	17.30	17.41	17.36	
		75	0	17.50	17.30	17.37	17.40	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175
20MHz		QPSK	1	0	19.50	18.91	19.00	18.95
	50			<b>20.00</b>	19.45	19.46	<b>19.52</b>	
	99			19.50	18.96	19.05	19.04	
	50		0	18.50	18.34	18.34	18.39	
			25	18.50	18.40	18.36	<b>18.45</b>	
			50	18.50	18.37	18.45	18.37	
	100	0	18.50	18.37	18.37	18.39		
	16QAM	1	0	18.50	18.48	18.21	18.28	
			50	19.50	19.03	18.71	18.83	
			99	19.00	18.58	18.28	18.38	
		50	0	17.50	17.36	17.34	17.39	
			25	17.50	17.31	17.37	17.44	
			50	17.50	17.38	17.44	17.35	
		100	0	17.50	17.39	17.40	17.37	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	1720.0MHz	1732.5MHz

Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	22.00	20.36	21.77	21.78
			2	22.00	19.94	21.91	21.97
			5	22.00	19.85	21.83	21.85
		3	0	22.00	19.81	21.70	21.48
			2	22.00	19.83	21.71	21.51
			3	22.00	19.87	21.60	21.46
	16QAM	1	0	21.00	18.76	20.57	20.47
			2	22.50	22.39	20.65	20.57
			5	21.50	21.03	20.54	20.48
		3	0	21.00	20.54	20.77	20.42
			2	21.00	20.59	20.79	20.38
			3	21.00	20.54	20.73	20.32
6	0	20.50	20.04	19.71	19.52		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	22.00	21.33	21.86	21.74
			7	22.50	22.13	22.07	21.89
			14	22.50	22.48	21.60	21.76
		8	0	21.50	21.10	20.88	20.73
			4	21.50	21.23	20.94	20.78
			7	21.50	21.16	20.91	20.76
	15	0	21.00	20.92	20.80	20.67	
	16QAM	1	0	21.50	20.96	20.93	21.20
			7	21.50	21.01	20.98	21.10
			14	21.00	20.91	20.85	20.86
		8	0	20.00	19.94	19.78	19.86
			4	20.50	20.05	19.81	19.85
			7	20.00	19.98	19.75	19.76
		15	0	20.00	19.83	19.69	19.70

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625	
					826.5MHz	836.5MHz	846.5MHz	
5MHz	QPSK	1	0	22.00	21.21	21.63	21.52	
			13	22.50	22.38	21.78	21.63	
			24	22.00	21.76	21.42	21.56	
		12	0	21.00	20.74	20.69	20.72	
			6	21.00	20.88	20.70	20.60	
			13	21.00	20.82	20.62	20.46	
		25	0	21.00	20.78	20.62	20.57	
		16QAM	1	0	21.00	20.82	20.85	20.35
				13	21.00	20.90	20.82	20.41
	24			21.00	20.78	20.66	20.23	
	12		0	20.00	19.57	19.77	19.72	
			6	20.00	19.75	19.71	19.66	
			13	20.00	19.77	19.56	19.45	
	25	0	20.00	19.66	19.58	19.65		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	22.00	21.51	21.68	21.78
			25	<b>24.00</b>	<b>23.77</b>	21.70	22.28
			49	22.50	21.69	22.02	21.63
		25	0	21.00	20.77	20.87	20.52
			13	21.00	<b>20.85</b>	20.77	20.65
			25	21.00	20.71	20.77	20.41
	16QAM	1	0	21.00	20.83	20.84	20.81
			25	21.50	21.00	20.93	21.28
			49	21.00	20.67	20.65	20.74
		25	0	20.00	19.73	19.87	19.49
			13	20.00	19.94	19.71	19.73
			25	20.00	19.85	19.64	19.49
		50	0	20.00	19.77	19.75	19.49

Band 12

LTE-FDD Band 12				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173
					699.7MHz	707.5MHz	715.3MHz
1.4MHz	QPSK	1	0	21.50	20.99	21.05	19.29
			2	21.50	21.11	21.16	19.27
			5	21.50	20.98	21.00	19.23
		3	0	21.50	21.01	20.75	19.29
			2	21.50	21.03	20.84	19.27
			3	21.50	21.02	20.73	19.27
	6	0	20.50	20.01	20.21	19.15	
	16QAM	1	0	20.00	19.93	19.92	18.80
			2	20.50	20.00	20.05	18.85
			5	20.00	19.94	19.88	18.88
		3	0	20.50	20.04	19.54	19.04
			2	20.50	20.03	19.61	19.05
			3	20.50	20.00	19.55	19.07
		6	0	21.50	18.90	18.86	21.05
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095
					700.5MHz	707.5MHz	714.5MHz
3MHz	QPSK	1	0	21.50	21.05	21.10	19.95
			7	21.50	21.18	21.18	19.59
			14	21.50	21.09	21.07	19.19
		8	0	20.50	20.13	20.01	19.26
			4	20.50	20.07	20.12	19.13
			7	20.50	19.99	20.09	19.02
	15	0	20.50	20.07	19.88	19.07	
	16QAM	1	0	20.50	20.16	20.15	18.97
			7	20.50	20.29	20.22	18.82
			14	20.50	20.14	20.20	18.88
		8	0	19.50	19.06	18.84	18.75
			4	19.50	19.00	18.93	18.74
			7	19.00	18.90	18.96	18.80
		15	0	19.00	18.96	18.72	18.32

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
5MHz	QPSK	1	0	21.00	20.83	20.30	19.89	
			13	20.50	20.23	20.43	18.74	
			24	20.50	20.02	20.13	18.83	
		12	0	20.00	19.98	18.94	19.05	
			6	20.00	19.72	19.18	18.76	
			13	19.50	19.26	19.02	18.72	
	25	0	19.50	19.39	18.97	18.87		
	16QAM	1	0	19.50	19.33	19.23	18.88	
			13	19.50	19.38	19.37	18.26	
			24	19.50	19.22	19.31	18.49	
		12	0	18.50	18.48	17.80	18.24	
			6	18.50	18.29	18.07	18.07	
			13	18.50	18.19	18.05	18.06	
		25	0	18.50	18.36	17.84	18.17	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095
						704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	21.00	20.83	19.90	20.35	
			25	21.50	20.24	21.27	19.98	
			49	<b>22.00</b>	<b>21.87</b>	19.09	18.80	
		25	0	22.00	19.53	18.83	21.51	
			13	19.50	19.35	19.19	19.25	
			25	20.00	<b>19.75</b>	18.75	19.10	
	50	0	20.00	19.67	18.79	19.28		
	16QAM	1	0	19.50	19.26	19.27	19.40	
			25	20.00	19.38	19.45	19.82	
			49	19.50	19.14	19.26	18.73	
		25	0	19.00	18.53	17.69	18.36	
			13	18.50	18.29	18.07	18.27	
			25	19.00	18.63	17.68	18.01	
		50	0	19.00	18.58	17.70	18.22	

Band 13

LTE-FDD Band 13				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255	
					779.5MHz	782.0MHz	784.5MHz	
5MHz	QPSK	1	0	22.00	21.84	21.40	21.51	
			13	22.50	22.09	21.61	21.50	
			24	22.50	22.01	21.39	21.47	
		12	0	21.00	20.86	20.29	20.51	
			6	21.00	20.97	20.47	20.55	
			13	21.50	21.00	20.39	20.39	
	25	0	21.00	20.55	20.30	20.45		
	16QAM	1	0	20.50	20.47	20.48	20.48	20.18
			13	21.00	20.48	20.62	20.31	
			24	21.00	20.42	20.57	20.39	
		12	0	19.50	19.33	19.22	19.45	
			6	20.00	19.41	19.38	19.55	
			13	19.50	19.44	19.34	19.32	
		25	0	19.50	19.42	19.19	19.45	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230
					782.0MHz
10MHz	QPSK	1	0	22.00	21.83
			25	22.50	22.12
			49	<b>22.50</b>	<b>22.26</b>
		25	0	21.00	20.78
			13	21.00	<b>21.00</b>
			25	21.00	20.84
	50	0	21.00	20.74	
	16QAM	1	0	21.00	20.55
			25	21.00	20.68
			49	21.00	20.68
		25	0	19.50	19.16
			13	19.50	19.34
			25	19.50	19.28
		50	0	19.50	19.23

Band 25

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26047	26365	26683	
				1850.7MHz	1882.5MHz	1914.3MHz		
1.4MHz	QPSK	1	0	23.00	22.58	22.34	21.26	
			2	23.00	22.71	22.47	20.40	
			5	23.00	22.58	22.32	19.86	
		3	0	23.00	22.59	22.17	20.44	
			2	23.00	22.63	22.20	20.10	
			3	23.00	22.62	22.16	19.90	
	6	0	22.00	21.66	21.45	20.09		
	16QAM	1	0	22.00	21.53	21.27	20.34	
			2	22.00	21.66	21.36	20.04	
			5	22.00	21.60	21.27	19.50	
		3	0	22.00	21.65	20.91	20.24	
			2	22.00	21.64	21.03	19.98	
			3	22.00	21.64	20.84	19.79	
		6	0	21.00	20.54	20.26	19.89	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365
						1851.5MHz	1882.5MHz	1913.5MHz
3MHz	QPSK	1	0	23.00	22.59	22.00	21.95	
			7	22.50	22.35	22.03	21.49	
			14	22.50	22.18	21.88	19.91	
		8	0	21.50	21.21	20.99	21.04	
			4	21.50	21.24	20.98	21.02	
			7	21.50	21.19	20.95	20.37	
	15	0	21.50	21.18	20.85	20.93		
	16QAM	1	0	21.50	21.23	20.94	21.11	
			7	21.50	21.35	21.03	21.03	
			14	21.50	21.18	20.96	19.90	
		8	0	20.50	20.25	19.79	19.84	
			4	20.50	20.26	19.82	19.90	
			7	20.50	20.19	19.79	19.82	
		15	0	20.50	20.19	19.71	19.68	



Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365	26665	
					1852.5MHz	1882.5MHz	1912.5MHz	
5MHz	QPSK	1	0	22.50	22.30	21.84	21.66	
			13	22.50	22.13	21.88	21.95	
			24	22.50	22.00	21.71	20.30	
		12	0	21.50	21.16	20.74	20.67	
			6	21.50	21.13	20.79	20.76	
			13	21.00	20.99	20.73	20.60	
	25	0	21.50	21.10	20.75	20.68		
	16QAM	1	0	21.50	21.10	20.81	20.55	
			13	21.50	21.22	20.93	20.59	
			24	21.50	21.12	20.93	20.26	
		12	0	20.50	20.14	19.64	19.63	
			6	20.50	20.13	19.73	19.72	
			13	20.50	20.00	19.73	19.52	
		25	0	20.50	20.10	19.65	19.68	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26090	26365
						1855.0MHz	1882.5MHz	1910.0MHz
10MHz	QPSK	1	0	22.50	22.08	21.95	21.82	
			25	22.50	22.27	22.04	21.88	
			49	22.00	21.99	21.71	20.78	
		25	0	21.50	21.33	20.80	21.03	
			13	21.50	21.15	20.88	20.82	
			25	21.00	20.99	20.80	20.81	
	50	0	21.50	21.20	20.79	20.90		
	16QAM	1	0	21.50	21.06	20.85	20.96	
			25	21.50	21.28	21.05	21.44	
			49	21.50	21.00	20.88	20.83	
		25	0	20.50	20.37	19.66	20.07	
			13	20.50	20.20	19.78	19.83	
			25	20.50	20.09	19.74	19.81	
		50	0	20.50	20.20	19.70	19.89	

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26115	26365	26615
					1857.5MHz	1882.5MHz	1907.5MHz
15MHz	QPSK	1	0	23.00	21.92	22.76	22.92
			38	23.50	22.05	23.02	23.20
			74	23.50	21.83	22.80	23.04
		36	0	22.50	21.22	21.95	22.21
			18	22.50	21.07	22.03	22.31
			39	22.50	21.00	22.01	22.14
	75	0	22.50	21.14	22.03	22.15	
	16QAM	1	0	22.00	21.25	21.84	21.96
			38	22.50	21.48	22.08	22.21
			74	22.50	20.99	22.11	22.09
		36	0	21.50	20.19	20.86	21.09
			18	21.50	20.07	20.95	21.23
			39	21.50	19.92	20.94	21.15
		75	0	21.50	20.05	20.92	21.11

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
					1860.0MHz	1882.5MHz	1905.0MHz
20MHz	QPSK	1	0	23.00	22.43	22.54	22.72
			50	<b>23.50</b>	22.95	23.12	<b>23.43</b>
			99	23.00	22.52	22.71	22.91
		50	0	22.50	22.03	21.81	22.05
			25	22.50	21.81	21.92	<b>22.08</b>
			50	22.00	21.78	21.91	21.94
	100	0	22.50	21.94	21.88	22.02	
	16QAM	1	0	22.00	21.97	21.55	21.97
			50	22.50	22.49	22.12	22.42
			99	22.50	21.96	21.88	22.06
		50	0	21.50	21.06	20.74	21.05
			25	21.50	20.84	20.88	21.02
			50	21.00	20.81	20.93	20.93
		100	0	21.50	20.96	20.87	21.01

Band 26

LTE-FDD Band 26a				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697	26740	26783
					814.7MHz	819.0MHz	823.3MHz
1.4MHz	QPSK	1	0	23.50	23.29	23.29	23.28
			2	23.50	23.42	23.44	23.36
			5	23.50	23.31	23.22	23.32
		3	0	23.50	23.41	23.34	20.25
			2	23.50	23.38	23.35	20.26
			3	23.50	23.34	23.35	20.26
	6	0	22.50	22.34	22.31	19.20	
	16QAM	1	0	22.50	22.20	22.23	19.15
			2	23.00	22.49	22.52	19.20
			5	22.50	22.30	22.38	19.30
		3	0	23.00	22.51	22.53	19.28
			2	22.50	22.32	22.39	19.29
			3	23.00	22.33	22.55	19.43
		6	0	21.50	21.39	21.36	18.25
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705	26740
					815.5MHz	819.0MHz	822.5MHz
3MHz	QPSK	1	0	20.50	20.29	20.26	20.30
			7	20.50	20.49	20.39	20.40
			14	20.50	20.27	20.27	20.29
		8	0	19.50	19.26	19.22	19.22
			4	19.50	19.30	19.27	19.25
			7	19.50	19.28	19.25	19.25
	15	0	19.50	19.23	19.21	19.27	
	16QAM	1	0	20.00	19.26	19.39	19.73
			7	20.00	19.91	19.33	19.55
			14	20.00	19.40	19.74	19.25
		8	0	18.50	18.33	18.22	18.29
			4	18.50	18.45	18.36	18.25
			7	18.50	18.28	18.39	18.20
		15	0	18.50	18.31	18.21	18.14

LTE-FDD Band 26a				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26715	26740	26765	
					816.5MHz	819.0MHz	821.5MHz	
5MHz	QPSK	1	0	20.50	20.03	20.05	19.86	
			13	20.50	20.15	20.15	20.04	
			24	20.50	20.04	20.01	19.94	
		12	0	19.50	18.75	19.03	18.93	
			6	19.50	19.08	19.11	19.03	
			13	19.50	19.12	19.07	19.00	
	25	0	19.50	19.11	19.08	18.98		
	16QAM	1	0	19.50	19.17	18.87	19.02	
			13	19.50	19.25	19.34	18.89	
			24	19.50	18.88	19.12	19.20	
		12	0	18.50	18.11	18.07	18.00	
			6	18.50	18.19	18.23	18.13	
			13	18.50	18.14	17.98	18.08	
		25	0	18.50	18.11	17.97	18.07	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740	
10MHz		QPSK	1	0	20.00	20.00		
	25			<b>20.50</b>	<b>20.17</b>			
	49			20.50	20.06			
	25		0	19.50	19.05			
			13	19.50	<b>19.12</b>			
			25	19.50	19.07			
	50	0	19.50	19.06				
	16QAM	1	0	19.50	19.11			
			25	19.50	19.23			
			49	20.00	19.51			
		25	0	18.50	18.08			
			13	18.50	18.20			
			25	18.50	18.17			
		50	0	18.50	18.11			

LTE-FDD Band 26b				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.50	23.30	23.20	23.24
			2	23.50	23.46	23.27	23.36
			5	23.50	23.33	23.16	23.25
		3	0	23.50	23.38	23.29	20.31
			2	23.50	23.40	23.29	20.33
			3	23.50	23.33	23.32	20.31
	6	0	22.50	22.38	22.25	19.28	
	16QAM	1	0	22.50	22.28	22.24	19.37
			2	22.50	22.32	22.29	19.29
			5	22.50	22.42	22.24	19.14
		3	0	22.50	22.39	22.49	19.26
			2	23.00	22.54	22.30	19.39
			3	22.50	22.38	22.38	19.37
		6	0	21.50	21.35	21.30	18.25

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915	27025
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	20.50	20.31	20.36	20.29
			7	20.50	20.48	20.40	20.48
			14	20.50	20.41	20.36	20.32
		8	0	19.50	19.27	19.32	19.31
			4	19.50	19.33	19.36	19.34
			7	19.50	19.32	19.32	19.26
	15	0	19.50	19.23	19.33	19.28	
	16QAM	1	0	20.00	19.42	19.88	19.27
			7	20.00	19.44	19.61	19.97
			14	20.00	19.70	19.36	19.41
		8	0	18.50	18.27	18.48	18.37
			4	18.50	18.37	18.39	18.48
			7	18.50	18.45	18.41	18.29
		15	0	18.50	18.23	18.47	18.37

LTE-FDD Band 26b				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26815	26915	27015	
					826.5MHz	836.5MHz	846.5MHz	
5MHz	QPSK	1	0	20.50	20.10	20.10	20.04	
			13	20.50	20.25	20.33	20.02	
			24	20.50	20.12	20.22	20.01	
		12	0	19.50	19.03	19.24	19.01	
			6	19.50	19.17	19.32	19.10	
			13	19.50	19.14	19.24	18.96	
	25	0	19.50	19.14	19.31	19.04		
	16QAM	1	0	19.50	18.90	19.21	19.12	
			13	19.50	19.37	19.16	19.18	
			24	19.50	19.13	19.41	18.88	
		12	0	18.50	18.12	18.24	18.10	
			6	18.50	18.27	17.82	18.18	
			13	18.50	18.15	18.03	18.05	
		25	0	18.50	18.20	18.13	18.06	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915
						829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	20.50	20.11	20.15	20.16	
			25	21.00	20.41	20.33	20.54	
			49	20.50	20.15	20.15	20.16	
		25	0	19.50	19.19	19.25	19.18	
			13	19.50	19.23	19.28	19.17	
			25	19.50	19.27	19.15	19.12	
	50	0	19.50	19.26	19.27	19.16		
	16QAM	1	0	20.00	19.22	19.56	19.12	
			25	20.00	19.47	19.53	19.25	
			49	19.50	19.29	19.12	19.12	
		25	0	18.50	18.19	18.34	18.25	
			13	18.50	18.24	18.30	18.24	
			25	18.50	18.29	18.26	18.22	
		50	0	18.50	18.23	18.28	18.18	

LTE-TDD Band 26c				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26765	26865	26965
					821.5MHz	831.5MHz	841.5MHz
15MHz	QPSK	1	0	20.00	19.87	19.92	19.96
			38	<b>20.50</b>	20.08	20.15	<b>20.25</b>
			74	20.50	19.98	20.02	19.94
		36	0	19.50	19.04	19.11	<b>19.29</b>
			18	19.50	19.10	19.19	19.25
			39	19.50	19.13	19.09	19.24
	75	0	19.50	19.10	19.11	19.30	
	16QAM	1	0	19.50	19.02	19.33	19.26
			38	20.00	19.25	19.63	19.40
			74	20.00	19.02	19.55	19.29
		36	0	18.50	18.08	18.13	18.24
			18	18.50	18.17	18.22	18.22
			39	18.50	18.13	18.15	18.19
		75	0	18.50	18.08	18.14	18.24

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		39675	40620	41565	
					2498.5MHz	2593.0MHz	2687.5MHz	
5MHz	QPSK	1	0	22.50	21.09	21.16	22.08	
			13	22.50	21.32	21.39	22.17	
			24	22.50	21.10	21.34	22.06	
		12	0	21.50	20.25	20.38	21.03	
			6	21.50	20.29	20.39	21.13	
			13	21.50	20.21	20.37	21.05	
	25	0	21.50	20.24	20.41	21.05		
	16QAM	1	0	21.50	20.32	20.09	21.26	
			13	21.50	20.26	20.45	21.18	
			24	21.50	20.17	20.47	21.00	
		12	0	20.50	19.15	19.37	20.05	
			6	20.00	19.28	19.40	19.97	
			13	20.00	19.17	19.30	19.93	
		25	0	20.50	19.24	19.36	20.02	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39700	40620
					2501.0MHz	2593.0MHz	2685.0MHz	
10MHz	QPSK	1	0	22.50	21.38	21.43	22.05	
			25	22.50	21.51	21.57	22.24	
			49	22.50	21.33	21.53	22.09	
		25	0	21.50	20.27	20.47	21.08	
			13	21.50	20.26	20.42	21.07	
			25	21.50	20.31	20.49	21.16	
	50	0	21.50	20.21	20.43	21.14		
	16QAM	1	0	21.50	20.23	20.29	21.09	
			25	21.50	20.25	20.48	21.23	
			49	21.50	19.93	20.32	21.09	
		25	0	20.50	19.18	19.46	20.12	
			13	20.50	19.24	19.46	20.09	
			25	20.50	19.25	19.47	20.11	
		50	0	20.50	19.20	19.48	20.08	

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		39725	40620	41515	
					2503.5MHz	2593.0MHz	2682.5MHz	
15MHz	QPSK	1	0	22.00	21.15	21.32	21.93	
			38	22.50	21.40	21.52	22.09	
			74	22.50	21.22	21.37	22.02	
		36	0	21.50	20.35	20.49	21.15	
			18	21.50	20.29	20.54	21.16	
			39	21.50	20.31	20.51	21.19	
		75	0	21.50	20.31	20.56	21.13	
		16QAM	1	0	21.00	20.43	20.17	20.97
				38	21.50	20.15	20.33	21.04
	74			21.00	19.89	20.17	20.96	
	36		0	20.50	19.18	19.37	20.05	
			18	20.50	19.25	19.38	20.08	
			39	20.50	19.28	19.48	20.07	
	75	0	20.50	19.33	19.41	20.08		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490
2506.0MHz						2593.0MHz	2680.0MHz	
20MHz	QPSK	1	0	22.00	20.97	21.18	21.90	
			50	<b>22.50</b>	21.37	21.67	<b>22.26</b>	
			99	22.00	21.02	21.32	21.88	
		50	0	21.00	20.12	20.28	20.99	
			25	21.50	20.18	20.46	<b>21.07</b>	
			50	21.50	20.16	20.44	21.07	
		100	0	21.00	20.17	20.41	20.97	
		16QAM	1	0	21.00	19.54	19.86	20.74
				50	21.50	20.34	20.33	21.13
	99			21.00	19.97	19.98	20.84	
	50		0	20.00	19.13	19.34	19.95	
			25	20.50	19.17	19.40	20.05	
			50	20.00	19.18	19.49	19.97	
	100	0	20.50	19.14	19.44	20.02		

Band 66

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		131979	132322	132665	
					1710.7MHz	1745.0MHz	1779.3MHz	
1.4MHz	QPSK	1	0	18.00	12.63	15.83	17.77	
			2	18.00	12.75	15.96	17.88	
			5	18.00	12.76	15.89	17.82	
		3	0	18.00	12.79	15.92	17.88	
			2	18.00	12.84	15.97	17.92	
			3	18.00	12.82	15.98	17.89	
		6	0	17.00	11.77	14.92	16.90	
		16QAM	1	0	17.00	11.63	14.88	16.92
				2	17.50	11.82	15.00	17.06
	5			17.00	11.76	15.02	16.97	
	3		0	17.00	12.01	15.07	16.88	
			2	17.00	12.11	15.08	16.91	
			3	17.00	12.09	15.10	16.92	
	6	0	16.00	10.79	13.87	15.88		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322	132657	
					1711.5MHz	1745.0MHz	1778.5MHz	
3MHz	QPSK	1	0	18.00	12.81	15.85	17.85	
			7	18.00	13.14	16.14	17.99	
			14	18.00	13.19	16.12	17.92	
		8	0	17.00	11.89	14.96	16.93	
			4	17.00	12.05	15.10	16.97	
			7	17.00	12.12	15.14	16.95	
	15	0	17.00	12.03	15.04	16.95		
	16QAM	1	0	17.50	11.88	15.07	17.45	
			7	18.00	12.21	15.34	17.55	
			14	17.50	12.30	15.34	17.42	
		8	0	16.50	11.01	13.94	16.09	
			4	16.50	11.13	14.06	16.12	
			7	16.50	11.19	14.10	16.11	
		15	0	16.50	11.09	14.03	16.03	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322
1712.5MHz							1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	18.00	12.68	15.64	17.68	
			13	18.00	13.13	15.96	17.84	
			24	18.00	13.33	16.04	17.68	
		12	0	17.00	11.85	14.79	16.73	
			6	17.00	12.14	14.98	16.85	
			13	17.00	12.30	15.06	16.88	
	25	0	17.00	12.15	14.99	16.84		
	16QAM	1	0	16.50	11.81	14.92	16.46	
			13	16.50	12.29	15.29	16.38	
			24	16.50	12.45	15.38	16.32	
		12	0	16.00	10.88	13.85	15.59	
			6	16.00	11.15	14.06	15.84	
			13	16.00	11.28	14.09	15.84	
		25	0	16.00	11.17	13.96	15.88	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322
1715.0MHz							1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	18.00	12.75	15.43	17.58	
			25	18.00	13.70	16.12	17.79	
			49	17.50	13.97	16.28	17.43	
		25	0	17.00	12.17	14.87	16.56	
			13	17.00	12.59	15.04	16.79	
			25	17.00	12.91	15.28	16.74	
	50	0	17.00	12.59	15.10	16.50		
	16QAM	1	0	17.00	11.80	14.53	16.81	
			25	17.50	12.73	15.12	17.23	
			49	17.00	13.02	15.38	16.88	
		25	0	16.00	11.27	13.89	15.53	
			13	16.00	11.70	14.09	15.58	
			25	16.00	11.97	14.33	15.84	
		50	0	16.00	11.63	14.08	15.67	

LTE-FDD Band 66				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		132047	132322	132597	
					1717.5MHz	1745.0MHz	1772.5MHz	
15MHz	QPSK	1	0	17.50	12.61	15.16	17.19	
			38	18.00	13.81	15.96	17.63	
			74	17.50	14.27	16.18	17.23	
		36	0	16.50	12.26	14.65	16.41	
			18	17.00	12.79	14.91	16.53	
			39	17.00	13.25	15.28	16.50	
	75	0	16.50	12.85	14.93	16.28		
	16QAM	1	0	17.00	12.11	14.36	16.51	
			38	17.00	13.26	14.92	16.93	
			74	17.00	13.71	15.23	16.78	
		36	0	15.50	11.24	13.36	15.36	
			18	16.00	11.79	13.81	15.61	
			39	16.00	12.26	14.27	15.50	
		75	0	15.50	11.76	13.87	15.28	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322
1720.0MHz							1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	17.00	12.53	14.87	16.96	
			50	<b>18.00</b>	14.22	16.05	<b>17.75</b>	
			99	18.00	14.49	16.50	17.51	
		50	0	17.00	12.55	14.66	16.64	
			25	17.00	13.13	15.02	16.67	
			50	17.00	13.61	15.54	<b>16.68</b>	
	100	0	17.00	13.07	15.13	16.66		
	16QAM	1	0	16.50	12.10	14.13	16.23	
			50	17.50	13.81	15.30	17.05	
			99	17.00	14.11	15.54	16.80	
		50	0	16.00	11.55	13.65	15.60	
			25	16.00	12.11	13.99	15.66	
			50	16.00	12.55	14.56	15.65	
		100	0	16.00	12.10	14.08	15.66	

Band 71

LTE-FDD Band 71				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		133147	133297	133447
					665.5MHz	680.5MHz	695.5MHz
5MHz	QPSK	1	0	20.00	19.94	19.90	19.82
			13	20.50	20.07	20.00	19.98
			24	20.00	19.94	19.88	19.91
		12	0	19.00	18.84	18.90	18.85
			6	19.50	19.00	18.96	18.94
			13	19.00	18.95	18.89	18.89
	25	0	19.00	18.90	18.93	18.91	
	16QAM	1	0	19.50	18.72	18.95	19.00
			13	19.50	18.83	19.06	19.19
			24	19.50	18.80	18.97	19.11
		12	0	18.00	17.86	17.86	17.90
			6	18.50	18.00	17.94	17.98
			13	18.00	17.92	17.90	17.92
		25	0	18.00	17.91	17.93	17.87



Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297	133422	
					668.0MHz	680.5MHz	693.0MHz	
10MHz	QPSK	1	0	20.00	19.99	19.92	19.85	
			25	20.50	20.29	20.12	20.10	
			49	20.50	20.09	19.90	19.95	
		25	0	19.50	19.01	19.02	18.93	
			13	19.50	19.11	19.07	19.01	
			25	19.50	19.15	18.97	18.98	
		50	0	19.50	19.07	18.98	18.99	
		16QAM	1	0	19.50	18.92	19.04	19.32
				25	20.00	19.22	19.27	19.54
	49			19.50	19.02	19.02	19.41	
	25		0	18.50	18.04	17.98	17.95	
			13	18.50	18.13	18.04	18.02	
			25	18.50	18.19	17.98	17.96	
	50	0	18.50	18.05	18.00	17.93		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
670.5MHz						680.5MHz	690.5MHz	
15MHz	QPSK	1	0	20.00	19.79	19.77	19.68	
			38	20.50	20.05	19.96	19.94	
			74	20.00	19.85	19.85	19.84	
		36	0	19.50	19.02	18.95	18.93	
			18	19.50	19.05	18.97	18.98	
			39	19.50	19.09	18.93	18.95	
		75	0	19.50	19.08	18.95	18.99	
		16QAM	1	0	19.50	18.91	19.31	19.02
				38	19.50	19.19	19.49	19.23
	74			19.50	18.98	19.29	19.12	
	36		0	18.00	17.98	17.94	17.90	
			18	18.50	18.03	18.01	17.92	
			39	18.50	18.06	17.94	17.93	
	75	0	18.50	18.02	17.92	17.90		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
673.0MHz						683.0MHz	688.0MHz	
20MHz	QPSK	1	0	20.00	19.65	19.61	19.58	
			50	<b>20.50</b>	<b>20.22</b>	20.07	20.12	
			99	20.00	19.74	19.65	19.72	
		50	0	19.50	18.97	19.00	18.98	
			25	19.50	19.03	18.96	18.91	
			50	19.50	<b>19.07</b>	18.96	19.01	
		100	0	19.50	19.02	19.00	18.97	
		16QAM	1	0	19.50	18.86	19.13	18.75
				50	20.00	19.40	19.61	19.24
	99			19.50	18.94	19.14	18.84	
	50		0	18.00	17.90	17.97	17.95	
			25	18.00	17.97	17.93	17.87	
			50	18.50	18.01	17.95	17.98	
	100	0	18.00	17.98	17.98	17.93		

### 8.4 Wi-Fi

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4g Wifi (2.4~2.4835)	802.11b	1	2412	10.90	11.00	No
		6	2437	<b>13.90</b>	<b>14.00</b>	Yes
		11	2462	8.28	8.50	No
	802.11g	1	2412	15.36	15.50	No
		6	2437	18.12	18.50	No
		11	2462	12.85	13.00	No
	802.11n(HT20)	1	2412	14.46	14.50	No
		6	2437	17.28	17.5	No
		11	2462	12.31	12.50	No

Note: SAR is not required for the following 2.4 GHz OFDM conditions as the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2W/kg$ .

### 8.5 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	6.00	5.37	5.69	5.94
	$\pi/4$ QPSK	5.00	4.32	4.51	4.70
	8DPSK	5.00	4.42	4.62	4.82

BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
	1Mbps	-6.50	-6.63	-8.18	-9.81
	2Mbps	-5.50	-7.09	-5.83	-7.71

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Exclusion thresholds for 1-g SAR(mW)	RF exposure evaluation required
0	2.480	6.00	3.98	0	2.72	Yes
0	2.480	6.00	3.98	10	10.17	No

**Note**

- Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at test separation distances  $\leq 40$  cm are determined by:

$$P_{th} (mW) = \begin{cases} ERP_{20\text{ cm}}(d/20\text{ cm})^x & d \leq 20\text{ cm} \\ ERP_{20\text{ cm}} & 20\text{ cm} < d \leq 40\text{ cm} \end{cases} \quad (B.2)$$

where

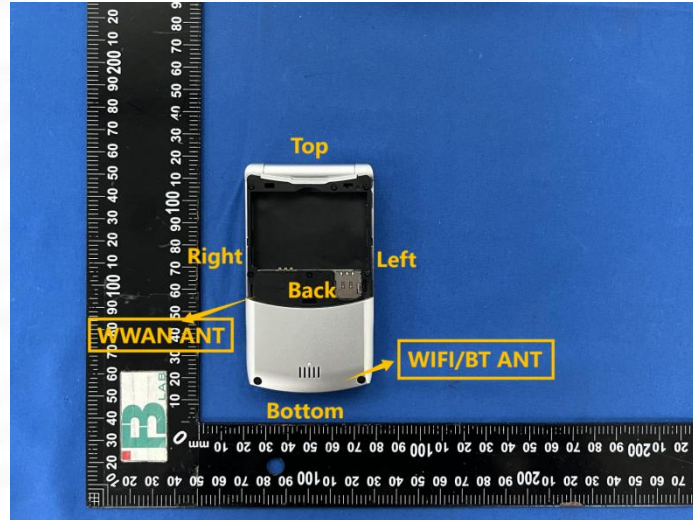
$$P_{th} (mW) = ERP_{20\text{ cm}} (mW) = \begin{cases} 2040f & 0.3\text{ GHz} \leq f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \leq f \leq 6\text{ GHz} \end{cases} \quad (B.1)$$

and  $f$  is in GHz,  $d$  is the separation distance (cm), and  $ERP_{20\text{ cm}}$  is per Formula (B.1).

- \*When the minimum test separation distance is  $< 5$  mm, a distance of 5 mm is applied to determine estimated SAR.
- Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
  - The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

## 9. Test Exclusion Consideration

Antenna information:



WWAN Main Antenna	GSM/WCDMA/LTE TX/RX
WLAN/BT Antenna	WLAN/BT TX/RX
Note: 1. KDB 447498 D01v06, particular DUT edges were not required to be evaluated for SAR if the antenna-to-edge distance is greater than 2.5cm. 2. Per KDB648474 D04, 10-g extremity SAR is not required when Body-Worn mode 1-g reported SAR < 1.2W/Kg.	

Distance of The Antenna to the EUT surface and edge (mm)						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	<25	<25	49	<25	50	43
BT/Wifi	<25	<25	<25	43	88	<25

Positions for SAR tests: Hotspot mode						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	Yes	Yes	No	Yes	No	No
BT/Wifi	Yes	Yes	Yes	No	No	Yes

### 9.1 SAR Test Exclusion Consideration Table

Per KDB 447498 requires when the standalone SAR test exclusion of section 4.3.1 is applied to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to the following format to determine simultaneous transmission SAR test exclusion:

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

W/kg for test separation distances ≤ 50 mm;

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

0.4 W/Kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the test separation distances is > 50 mm

Mode	Channel	Frequency (GHz)	Max tune-up power (dBm)	Max. Power (mW)	Exposure Position	Head	Body-worn
					Test Dist.(mm)	0	10
BT	39	2.480	6.00	3.98	Estimated SAR(W/kg)	/	0.084

## 10. Test Result

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 850 (voice)	Left Cheek	251	848.8	1.157	0.248	100.00	1.000	31.45	31.50	1.012	0.251	/
	Left Tilt	251	848.8	2.350	0.101	100.00	1.000	31.45	31.50	1.012	0.102	/
	Right Cheek	251	848.8	-1.430	0.275	100.00	1.000	31.45	31.50	1.012	<b>0.278</b>	1#
	Right Tilt	251	848.8	-4.273	0.126	100.00	1.000	31.45	31.50	1.012	0.128	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GPRS 850+2slots	Front	128	824.2	-1.887	0.279	100.00	1.000	29.29	29.50	1.050	0.293	/
	Back	128	824.2	-4.650	0.426	100.00	1.000	29.29	29.50	1.050	<b>0.447</b>	2#
	Right	128	824.2	0.518	0.198	100.00	1.000	29.29	29.50	1.050	0.208	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 1900 (voice)	Left Cheek	512	1850.2	-0.763	0.521	100.00	1.000	29.89	30.00	1.026	0.535	/
	Left Tilt	512	1850.2	1.653	0.103	100.00	1.000	29.89	30.00	1.026	0.106	/
	Right Cheek	512	1850.2	-2.610	0.545	100.00	1.000	29.89	30.00	1.026	<b>0.559</b>	3#
	Right Tilt	512	1850.2	1.552	0.126	100.00	1.000	29.89	30.00	1.026	0.129	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GPRS 1900+2slots	Front	512	1850.2	1.217	0.342	100.00	1.000	29.88	30.00	1.028	0.352	/
	Back	512	1850.2	3.940	0.376	100.00	1.000	29.88	30.00	1.028	<b>0.387</b>	4#
	Right	512	1850.2	2.033	0.261	100.00	1.000	29.88	30.00	1.028	0.268	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 2 (RMC*)	Left Cheek	9400	1880.0	0.011	0.596	100.00	1.000	19.65	20.00	1.084	0.646	/
	Left Tilt	9400	1880.0	-2.819	0.187	100.00	1.000	19.65	20.00	1.084	0.203	/
	Right Cheek	9400	1880.0	3.400	0.623	100.00	1.000	19.65	20.00	1.084	<b>0.675</b>	5#
	Right Tilt	9400	1880.0	1.345	0.202	100.00	1.000	19.65	20.00	1.084	0.219	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 2 (RMC*)	Front	9400	1880.0	-2.154	0.523	100.00	1.000	19.65	20.00	1.084	0.567	/
	Back	9400	1880.0	-0.110	0.581	100.00	1.000	19.65	20.00	1.084	<b>0.630</b>	6#
	Right	9400	1880.0	-2.079	0.422	100.00	1.000	19.65	20.00	1.084	0.457	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Left Cheek	1513	1752.6	3.649	0.631	100.00	1.000	21.28	21.50	1.052	0.664	/
	Left Tilt	1513	1752.6	-0.337	0.218	100.00	1.000	21.28	21.50	1.052	0.229	/
	Right Cheek	1513	1752.6	-1.410	0.654	100.00	1.000	21.28	21.50	1.052	<b>0.688</b>	7#
	Right Tilt	1513	1752.6	-2.538	0.236	100.00	1.000	21.28	21.50	1.052	0.248	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Front	1513	1752.6	-1.021	0.695	100.00	1.000	21.28	21.50	1.052	0.731	/
	Back	1513	1752.6	0.360	0.748	100.00	1.000	21.28	21.50	1.052	<b>0.787</b>	8#
	Right	1513	1752.6	-0.421	0.557	100.00	1.000	21.28	21.50	1.052	0.586	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 5 (RMC*)	Left Cheek	4233	846.6	2.688	0.178	100.00	1.000	22.04	22.50	1.112	0.198	/
	Left Tilt	4233	846.6	-3.424	0.118	100.00	1.000	22.04	22.50	1.112	0.131	/
	Right Cheek	4233	846.6	1.820	0.183	100.00	1.000	22.04	22.50	1.112	<b>0.203</b>	9#
	Right Tilt	4233	846.6	-1.365	0.125	100.00	1.000	22.04	22.50	1.112	0.139	/
Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 5 (RMC*)	Front	4233	846.6	-1.494	0.172	100.00	1.000	22.04	22.50	1.112	0.191	/
	Back	4233	846.6	-1.700	0.197	100.00	1.000	22.04	22.50	1.112	<b>0.219</b>	10#
	Right	4233	846.6	2.221	0.120	100.00	1.000	22.04	22.50	1.112	0.133	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Left Cheek	19100	1900.0	-1.393	0.148	100.00	1.000	19.03	19.50	1.114	0.165	/
		Left Tilt	19100	1900.0	2.453	0.096	100.00	1.000	19.03	19.50	1.114	0.107	/
		Right Cheek	19100	1900.0	2.770	0.152	100.00	1.000	19.03	19.50	1.114	<b>0.169</b>	11#
		Right Tilt	19100	1900.0	-0.358	0.098	100.00	1.000	19.03	19.50	1.114	0.109	/
	50%RB	Left Cheek	19100	1900.0	-3.573	0.142	100.00	1.000	17.84	18.00	1.038	0.147	/
		Left Tilt	19100	1900.0	-0.595	0.088	100.00	1.000	17.84	18.00	1.038	0.091	/
		Right Cheek	19100	1900.0	-1.748	0.146	100.00	1.000	17.84	18.00	1.038	0.152	/
		Right Tilt	19100	1900.0	-2.231	0.091	100.00	1.000	17.84	18.00	1.038	0.094	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Front	19100	1900.0	-3.773	0.666	100.00	1.000	19.03	19.50	1.114	0.742	/
		Back	19100	1900.0	4.750	0.713	100.00	1.000	19.03	19.50	1.114	<b>0.794</b>	12#
		Right	19100	1900.0	2.333	0.522	100.00	1.000	19.03	19.50	1.114	0.582	/
	50%RB	Front	19100	1900.0	-3.821	0.643	100.00	1.000	17.84	18.00	1.038	0.667	/
		Back	19100	1900.0	-1.308	0.681	100.00	1.000	17.84	18.00	1.038	0.707	/
		Right	19100	1900.0	-1.978	0.486	100.00	1.000	17.84	18.00	1.038	0.504	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Left Cheek	20300	1745.0	-1.187	0.182	100.00	1.000	19.52	20.00	1.117	0.203	/
		Left Tilt	20300	1745.0	2.680	0.119	100.00	1.000	19.52	20.00	1.117	0.133	/
		Right Cheek	20300	1745.0	-2.920	0.187	100.00	1.000	19.52	20.00	1.117	<b>0.209</b>	13#
		Right Tilt	20300	1745.0	-4.353	0.123	100.00	1.000	19.52	20.00	1.117	0.137	/
	50%RB	Left Cheek	20300	1745.0	-1.831	0.162	100.00	1.000	18.45	18.50	1.012	0.164	/
		Left Tilt	20300	1745.0	-1.703	0.106	100.00	1.000	18.45	18.50	1.012	0.107	/
		Right Cheek	20300	1745.0	-1.224	0.170	100.00	1.000	18.45	18.50	1.012	0.172	/
		Right Tilt	20300	1745.0	-0.759	0.111	100.00	1.000	18.45	18.50	1.012	0.112	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 4 (BW: 20MHz)	1RB	Front	20300	1745.0	0.627	0.411	100.00	1.000	19.52	20.00	1.117	0.459	/
		Back	20300	1745.0	-1.610	0.495	100.00	1.000	19.52	20.00	1.117	<b>0.553</b>	14#
		Right	20300	1745.0	-1.887	0.325	100.00	1.000	19.52	20.00	1.117	0.363	/
	50%RB	Front	20300	1745.0	-3.821	0.364	100.00	1.000	18.45	18.50	1.012	0.368	/
		Back	20300	1745.0	1.374	0.471	100.00	1.000	18.45	18.50	1.012	0.477	/
		Right	20300	1745.0	-1.978	0.299	100.00	1.000	18.45	18.50	1.012	0.303	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Left Cheek	20450	829.0	-0.981	0.318	100.00	1.000	23.77	24.00	1.054	0.335	/
		Left Tilt	20450	829.0	2.907	0.176	100.00	1.000	23.77	24.00	1.054	0.186	/

	50%RB	Right Cheek	20450	829.0	4.980	0.338	100.00	1.000	23.77	24.00	1.054	<b>0.356</b>	15#
		Right Tilt	20450	829.0	1.778	0.185	100.00	1.000	23.77	24.00	1.054	0.195	/
		Left Cheek	20450	829.0	-3.155	0.291	100.00	1.000	20.85	21.00	1.035	0.301	/
		Left Tilt	20450	829.0	-2.357	0.159	100.00	1.000	20.85	21.00	1.035	0.165	/
		Right Cheek	20450	829.0	-1.945	0.314	100.00	1.000	20.85	21.00	1.035	0.325	/
		Right Tilt	20450	829.0	-1.811	0.173	100.00	1.000	20.85	21.00	1.035	0.179	/

**Body(hotspot open, 10mm Gap)**

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	-0.704	0.238	100.00	1.000	23.77	24.00	1.054	0.251	/
		Back	20450	829.0	0.420	0.389	100.00	1.000	23.77	24.00	1.054	<b>0.410</b>	16#
		Right	20450	829.0	3.673	0.171	100.00	1.000	23.77	24.00	1.054	0.180	/
	50%RB	Front	20450	829.0	-2.448	0.211	100.00	1.000	20.85	21.00	1.035	0.218	/
		Back	20450	829.0	-0.617	0.363	100.00	1.000	20.85	21.00	1.035	0.376	/
		Right	20450	829.0	-1.978	0.157	100.00	1.000	20.85	21.00	1.035	0.162	/

**Head(0mm gap)**

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Left Cheek	23060	704.0	-0.775	0.202	100.00	1.000	21.87	22.00	1.030	0.208	/
		Left Tilt	23060	704.0	3.134	0.095	100.00	1.000	21.87	22.00	1.030	0.098	/
		Right Cheek	23060	704.0	-0.070	0.210	100.00	1.000	21.87	22.00	1.030	<b>0.216</b>	17#
		Right Tilt	23060	704.0	2.203	0.100	100.00	1.000	21.87	22.00	1.030	0.103	/
	50%RB	Left Cheek	23060	704.0	-4.479	0.195	100.00	1.000	19.75	20.00	1.059	0.207	/
		Left Tilt	23060	704.0	-3.011	0.087	100.00	1.000	19.75	20.00	1.059	0.092	/
		Right Cheek	23060	704.0	1.666	0.202	100.00	1.000	19.75	20.00	1.059	0.214	/
		Right Tilt	23060	704.0	-2.863	0.094	100.00	1.000	19.75	20.00	1.059	0.100	/

**Body(hotspot open, 10mm Gap)**

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Front	23060	704.0	-1.423	0.274	100.00	1.000	21.87	22.00	1.030	0.282	/
		Back	23060	704.0	0.940	0.423	100.00	1.000	21.87	22.00	1.030	<b>0.436</b>	18#
		Right	23060	704.0	-2.707	0.193	100.00	1.000	21.87	22.00	1.030	0.199	/
	50%RB	Front	23060	704.0	-3.821	0.256	100.00	1.000	19.75	20.00	1.059	0.271	/
		Back	23060	704.0	-1.711	0.402	100.00	1.000	19.75	20.00	1.059	0.426	/
		Right	23060	704.0	-1.978	0.172	100.00	1.000	19.75	20.00	1.059	0.182	/

**Head(0mm gap)**

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 13 (BW: 10MHz)	1RB	Left Cheek	23230	782.0	1.096	0.238	100.00	1.000	22.26	22.50	1.057	0.252	/
		Left Tilt	23230	782.0	2.863	0.109	100.00	1.000	22.26	22.50	1.057	0.115	/
		Right Cheek	23230	782.0	-1.510	0.243	100.00	1.000	22.26	22.50	1.057	<b>0.257</b>	19#
		Right Tilt	23230	782.0	2.765	0.113	100.00	1.000	22.26	22.50	1.057	0.119	/
	50%RB	Left Cheek	23230	782.0	-0.773	0.199	100.00	1.000	21.00	21.00	1.000	0.199	/
		Left Tilt	23230	782.0	0.566	0.089	100.00	1.000	21.00	21.00	1.000	0.089	/
		Right Cheek	23230	782.0	1.293	0.214	100.00	1.000	21.00	21.00	1.000	0.214	/
		Right Tilt	23230	782.0	0.293	0.096	100.00	1.000	21.00	21.00	1.000	0.096	/

**Body(hotspot open, 10mm Gap)**

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 13 (BW: 10MHz)	1RB	Front	23230	782.0	-4.113	0.285	100.00	1.000	22.26	22.50	1.057	0.301	/
		Back	23230	782.0	2.601	0.330	100.00	1.000	22.26	22.50	1.057	<b>0.349</b>	20#
		Right	23230	782.0	-3.007	0.195	100.00	1.000	22.26	22.50	1.057	0.206	/
	50%RB	Front	23230	782.0	-3.821	0.261	100.00	1.000	21.00	21.00	1.000	0.261	/
		Back	23230	782.0	-5.469	0.302	100.00	1.000	21.00	21.00	1.000	0.302	/
		Right	23230	782.0	-1.978	0.171	100.00	1.000	21.00	21.00	1.000	0.171	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Left Cheek	26590	1905.0	-0.807	0.140	100.00	1.000	23.43	23.50	1.016	0.142	/
		Left Tilt	26590	1905.0	4.030	0.096	100.00	1.000	23.43	23.50	1.016	0.098	/
		Right Cheek	26590	1905.0	1.308	0.145	100.00	1.000	23.43	23.50	1.016	<b>0.147</b>	21#
		Right Tilt	26590	1905.0	34.246	0.101	100.00	1.000	23.43	23.50	1.016	0.103	/
	50%RB	Left Cheek	26590	1905.0	-4.465	0.118	100.00	1.000	22.08	22.50	1.102	0.130	/
		Left Tilt	26590	1905.0	-2.632	0.083	100.00	1.000	22.08	22.50	1.102	0.091	/
		Right Cheek	26590	1905.0	1.503	0.122	100.00	1.000	22.08	22.50	1.102	0.134	/
		Right Tilt	26590	1905.0	-0.293	0.086	100.00	1.000	22.08	22.50	1.102	0.095	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Front	26590	1905.0	-1.013	0.503	100.00	1.000	23.43	23.50	1.016	0.511	/
		Back	26590	1905.0	1.180	0.578	100.00	1.000	23.43	23.50	1.016	<b>0.587</b>	22#
		Right	26590	1905.0	1.747	0.388	100.00	1.000	23.43	23.50	1.016	0.394	/
	50%RB	Front	26590	1905.0	-3.821	0.430	100.00	1.000	22.08	22.50	1.102	0.474	/
		Back	26590	1905.0	-3.141	0.513	100.00	1.000	22.08	22.50	1.102	0.565	/
		Right	26590	1905.0	-1.978	0.321	100.00	1.000	22.08	22.50	1.102	0.354	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 (BW: 15MHz)	1RB	Left Cheek	29765	841.5	1.412	0.213	100.00	1.000	20.25	20.50	1.059	0.226	/
		Left Tilt	29765	841.5	0.454	0.107	100.00	1.000	20.25	20.50	1.059	0.113	/
		Right Cheek	29765	841.5	-1.930	0.221	100.00	1.000	20.25	20.50	1.059	<b>0.234</b>	23#
		Right Tilt	29765	841.5	-0.850	0.115	100.00	1.000	20.25	20.50	1.059	0.122	/
	50%RB	Left Cheek	29765	841.5	-2.648	0.207	100.00	1.000	19.29	19.50	1.050	0.217	/
		Left Tilt	29765	841.5	-1.308	0.101	100.00	1.000	19.29	19.50	1.050	0.106	/
		Right Cheek	29765	841.5	3.190	0.214	100.00	1.000	19.29	19.50	1.050	0.225	/
		Right Tilt	29765	841.5	0.551	0.108	100.00	1.000	19.29	19.50	1.050	0.113	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 (BW: 15MHz)	1RB	Front	29765	841.5	2.737	0.422	100.00	1.000	20.25	20.50	1.059	0.447	/
		Back	29765	841.5	-2.010	0.507	100.00	1.000	20.25	20.50	1.059	<b>0.537</b>	24#
		Right	29765	841.5	-3.597	0.343	100.00	1.000	20.25	20.50	1.059	0.363	/
	50%RB	Front	29765	841.5	-3.821	0.371	100.00	1.000	19.29	19.50	1.050	0.390	/
		Back	29765	841.5	-1.641	0.458	100.00	1.000	19.29	19.50	1.050	0.481	/
		Right	29765	841.5	-1.978	0.301	100.00	1.000	19.29	19.50	1.050	0.316	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Left Cheek	41490	2680.0	-1.393	0.627	100.00	1.000	22.26	22.50	1.057	0.663	/
		Left Tilt	41490	2680.0	2.453	0.345	100.00	1.000	22.26	22.50	1.057	0.365	/
		Right Cheek	41490	2680.0	-3.480	0.632	100.00	1.000	22.26	22.50	1.057	<b>0.668</b>	25#
		Right Tilt	41490	2680.0	3.568	0.351	100.00	1.000	22.26	22.50	1.057	0.371	/
	50%RB	Left Cheek	41490	2680.0	-0.511	0.526	100.00	1.000	21.07	21.50	1.104	0.581	/
		Left Tilt	41490	2680.0	-1.049	0.287	100.00	1.000	21.07	21.50	1.104	0.317	/
		Right Cheek	41490	2680.0	-0.503	0.535	100.00	1.000	21.07	21.50	1.104	0.591	/
		Right Tilt	41490	2680.0	0.469	0.296	100.00	1.000	21.07	21.50	1.104	0.327	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Front	41490	2680.0	-3.100	0.445	100.00	1.000	22.26	22.50	1.057	0.470	/
		Back	41490	2680.0	2.200	0.528	100.00	1.000	22.26	22.50	1.057	<b>0.558</b>	26#
		Right	41490	2680.0	-1.250	0.339	100.00	1.000	22.26	22.50	1.057	0.358	/

50%RB	Front	41490	2680.0	-1.850	0.390	100.00	1.000	21.07	21.50	1.104	0.431	/
	Back	41490	2680.0	1.180	0.462	100.00	1.000	21.07	21.50	1.104	0.510	/
	Right	41490	2680.0	-1.023	0.287	100.00	1.000	21.07	21.50	1.104	0.317	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Left Cheek	132572	1770.0	2.466	0.152	100.00	1.000	17.75	18.00	1.059	0.161	/
		Left Tilt	132572	1770.0	-2.653	0.090	100.00	1.000	17.75	18.00	1.059	0.095	/
		Right Cheek	132572	1770.0	-3.690	0.157	100.00	1.000	17.75	18.00	1.059	<b>0.166</b>	27#
		Right Tilt	132572	1770.0	0.835	0.093	100.00	1.000	17.75	18.00	1.059	0.098	/
	50%RB	Left Cheek	132572	1770.0	-2.347	0.130	100.00	1.000	16.68	17.00	1.076	0.140	/
		Left Tilt	132572	1770.0	-0.001	0.069	100.00	1.000	16.68	17.00	1.076	0.074	/
		Right Cheek	132572	1770.0	-1.043	0.135	100.00	1.000	16.68	17.00	1.076	0.145	/
		Right Tilt	132572	1770.0	-2.562	0.072	100.00	1.000	16.68	17.00	1.076	0.077	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Front	132572	1770.0	-0.063	0.658	100.00	1.000	17.75	18.00	1.059	0.697	/
		Back	132572	1770.0	2.153	0.729	100.00	1.000	17.75	18.00	1.059	<b>0.772</b>	28#
		Right	132572	1770.0	-3.517	0.463	100.00	1.000	17.75	18.00	1.059	0.490	/
	50%RB	Front	132572	1770.0	-3.821	0.610	100.00	1.000	16.68	17.00	1.076	0.656	/
		Back	132572	1770.0	-0.925	0.674	100.00	1.000	16.68	17.00	1.076	0.725	/
		Right	132572	1770.0	-1.978	0.415	100.00	1.000	16.68	17.00	1.076	0.447	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Left Cheek	133222	673.0	2.672	0.202	100.00	1.000	20.22	20.50	1.067	0.216	/
		Left Tilt	133222	673.0	-2.426	0.097	100.00	1.000	20.22	20.50	1.067	0.103	/
		Right Cheek	133222	673.0	-4.470	0.213	100.00	1.000	20.22	20.50	1.067	<b>0.227</b>	29#
		Right Tilt	133222	673.0	0.410	0.102	100.00	1.000	20.22	20.50	1.067	0.109	/
	50%RB	Left Cheek	133222	673.0	-3.671	0.195	100.00	1.000	19.07	19.50	1.104	0.215	/
		Left Tilt	133222	673.0	-0.655	0.090	100.00	1.000	19.07	19.50	1.104	0.099	/
		Right Cheek	133222	673.0	-1.764	0.205	100.00	1.000	19.07	19.50	1.104	0.226	/
		Right Tilt	133222	673.0	-3.614	0.096	100.00	1.000	19.07	19.50	1.104	0.106	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Front	133222	673.0	2.591	0.433	100.00	1.000	20.22	20.50	1.067	0.462	/
		Back	133222	673.0	-2.880	0.509	100.00	1.000	20.22	20.50	1.067	<b>0.543</b>	30#
		Right	133222	673.0	-4.478	0.341	100.00	1.000	20.22	20.50	1.067	0.364	/
	50%RB	Front	133222	673.0	-3.396	0.367	100.00	1.000	19.07	19.50	1.104	0.405	/
		Back	133222	673.0	0.707	0.439	100.00	1.000	19.07	19.50	1.104	0.485	/
		Right	133222	673.0	-1.324	0.291	100.00	1.000	19.07	19.50	1.104	0.321	/

Head(0mm gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.	
2.4g (2.4~2.4835) 802.11b	Left Cheek	6	2437	-0.721	0.216	100.00	1.000	13.90	14.00	1.023	0.221	/	
	Left Tilt	6	2437	1.441	0.137	100.00	1.000	13.90	14.00	1.023	0.140	/	
	Right Cheek	6	2437	-0.482	0.222	100.00	1.000	13.90	14.00	1.023	<b>0.227</b>	31#	
	Right Tilt	6	2437	1.387	0.141	100.00	1.000	13.90	14.00	1.023	0.144	/	

Body(hotspot open, 10mm Gap)													
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.	
2.4g (2.4~2.4835) 802.11b	Front	6	2437	-1.179	0.124	100.00	1.000	13.90	14.00	1.023	0.127	/	
	Back	6	2437	4.830	0.141	100.00	1.000	13.90	14.00	1.023	<b>0.144</b>	32#	
	Left	6	2437	1.852	0.102	100.00	1.000	13.90	14.00	1.023	0.104	/	
	Bottom	6	2437	0.157	0.092	100.00	1.000	13.90	14.00	1.023	0.094	/	



Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Bluetooth	Left Cheek	78	2480	1.550	0.091	100.00	1.000	5.94	6.00	1.014	0.092	/
	Left Tilt	78	2480	0.390	0.057	100.00	1.000	5.94	6.00	1.014	0.058	/
	Right Cheek	78	2480	-4.150	0.095	100.00	1.000	5.94	6.00	1.014	<b>0.096</b>	33#
	Right Tilt	78	2480	-1.002	0.061	100.00	1.000	5.94	6.00	1.014	0.062	/

**Note:**

- The maximum SAR Value of each test band is marked bold.
- SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR  $\leq 0.8W/kg$ , other channels SAR testing is not necessary.
- Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
- Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W  $\geq 9$  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.
- Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor= $10^{[(\text{tune-up limit power(dBm)} - \text{Ave.power power (dBm)})/10]}$ , where tune-up limit is the maximum rated power among all production units.  
Reported SAR(W/kg)=Measured SAR (W/kg)\*Scaling Factor.

## 11. SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are  $\leq 1.45$  W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is  $\leq 1.10$ , the highest SAR configuration for either head or body tissue-equivalent medium may be used to perform the repeated measurement. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR repeated measurement procedure:

- When the highest measured SAR is  $< 0.80$  W/kg, repeated measurement is not required.
- When the highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- If the ratio of largest to smallest SAR for the original and first repeated measurements is  $> 1.20$ , or when the original or repeated measurement is  $\geq 1.45$  W/kg, perform a second repeated measurement.
- If the ratio of largest to smallest SAR for the original, first and second repeated measurements is  $> 1.20$ , and the original, first or second repeated measurement is  $\geq 1.5$  W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is  $0.748 < 0.80$  W/kg, repeated measurement is not required.

## 12. Simultaneous Transmission

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. When the sum of SAR 1g of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit (SAR 1g 1.6 W/kg), the simultaneous transmission SAR is not required. When the sum of SAR 1g is greater than the SAR limit (SAR 1g 1.6 W/kg), SAR test exclusion is determined by the SAR to Peak Location Ratio (SPLSR).

### 12.1 Simultaneous Transmission Mode Considerations

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 2 Tx antennas, WWAN main antenna, Wifi/BT antenna supports 2.4G and BT. The 2 antennas can always transmit simultaneously. The work mode combination is showed as below table.

Application Simultaneous Transmission information:

NO.	Configuration	Head	Body-worn
1	WWAN+WIFI(2.4g)	Yes	Yes
2	WWAN+BT	Yes	Yes

### 12.2 Sum SAR of Simultaneous Transmission

Head

Band	Test Position	Scaled SAR			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
		WWAN	WIFI 2.4G	Bluetooth				
WCDMA Band IV	Left Cheek	0.664	0.221	0.092	0.885	0.756	N/A	N/A
	Left Tilt	0.229	0.140	0.058	0.369	0.287	N/A	N/A
	Right Cheek	<b>0.688</b>	<b>0.227</b>	<b>0.096</b>	<b>0.915</b>	0.784	N/A	N/A
	Right Tilt	0.248	0.144	0.062	0.392	0.310	N/A	N/A

Hotspot(body-worn)

Band	Test Position	RB allocation	Scaled SAR			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	Bluetooth				
LTE Band 2 QPSK (20MHz)	Front	1RB	0.742	0.127	<b>0.084</b>	0.869	0.826	N/A	N/A
	Back		<b>0.794</b>	<b>0.144</b>	0.084	<b>0.938</b>	0.878	N/A	N/A
	Left		/	0.104	0.084	0.104	0.084	N/A	N/A
	Right		0.582	/	/	0.582	0.582	N/A	N/A
	Bottom		/	0.094	0.084	0.094	0.084	N/A	N/A
	Front	50%RB	0.667	0.127	0.084	0.794	0.751	N/A	N/A
	Back		0.707	0.144	0.084	0.851	0.791	N/A	N/A
	Left		/	0.104	0.084	0.104	0.084	N/A	N/A
	Right		0.504	/	/	0.504	0.504	N/A	N/A
	Bottom		/	0.094	0.084	0.094	0.084	N/A	N/A

### 13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	04/22 EPG0365	2023/02/06	2024/02/05
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2023/11/16	2024/11/15
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2023/11/16	2024/11/15
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2023/11/16	2024/11/15
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2023/03/24	2024/03/23
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2023/03/24	2024/03/23
10dB Attenuator	MIDWEST MICROWAVE	263-10dB	/	2023/03/24	2024/03/23
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	2023/03/24	2024/03/23
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2023/02/06	2024/02/05
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2023/02/06	2024/02/05
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2023/02/06	2024/02/05
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2023/02/06	2024/02/05
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2023/02/06	2024/02/05
2600MHz Validation Dipole	MVG	SID2600	07/22 DIP 2G600-663	2023/02/06	2024/02/05
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	/	/
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2023/11/16	2024/11/15
Thermometer	Riters	DT-232	21A11	2023/03/24	2024/03/23
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	/	/
SAM Phantom	MVG	SAM	07/22 SAM149	/	/
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	/	/
Mechanical Calibration Kit	PNA	/	/	/	/
Open SAR test software	MVG	/	V5.3.5	/	/

Note: For dipole antennas, BTF has adopted 3 years as calibration intervals, and on annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

## ANNEX A Simulating Liquid Verification Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using an SCLMP Dielectric Probe Kit.

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	$\epsilon_r$		$\sigma$ (s/m)		Delta ( $\epsilon_r$ )	Delta ( $\sigma$ )	Limit	Temp (°C)	Date
	Target	Measured	Target	Measured					
750	41.90	43.61	0.89	0.86	4.08%	-3.37%	±10%	20.0	17/11/2023
835	41.50	43.25	0.90	0.87	4.22%	-3.33%	±10%	20.0	17/11/2023
1800	40.00	41.53	1.40	1.37	3.83%	-2.14%	±10%	20.0	17/11/2023
1900	40.00	39.88	1.40	1.41	-0.30%	0.71%	±10%	20.0	20/11/2023
2450	39.20	41.39	1.80	1.81	5.59%	0.56%	±10%	20.0	20/11/2023
2600	39.00	38.88	1.96	1.97	-0.31%	0.51%	±10%	20.0	20/11/2023

NOTE: The dielectric parameters of the tissue-equivalent liquid should be measured under similar ambient conditions and within 2 °C of the conditions expected during the SAR evaluation to satisfy protocol requirements.

## ANNEX B System Check Result

Comparing to the original SAR value provided by MVG, the validation data should be within its specification of 10 %(for 10 g).

Frequency (MHz)	Input Power (mW)	1g SAR (W/Kg)	10g SAR (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR Standard target (1W) (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Deviation	10g SAR Deviation
750	16	0.138	0.092	8.63	5.75	8.25	5.38	4.55%	6.88%
835	16	0.163	0.106	10.19	6.63	9.79	6.17	4.06%	7.37%
1800	16	0.588	0.312	36.75	19.50	39.33	20.61	-6.56%	-5.39%
1900	16	0.630	0.322	39.38	20.13	40.97	20.7	-3.89%	-2.78%
2450	16	0.793	0.352	49.56	22.00	54.4	23.86	-8.89%	-7.80%
2600	16	0.866	0.421	54.13	26.31	57.14	24.48	-5.28%	7.49%

## System Performance Check Data (750 MHz)

### System check at 750 MHz

Date of measurement: 17/11/2023

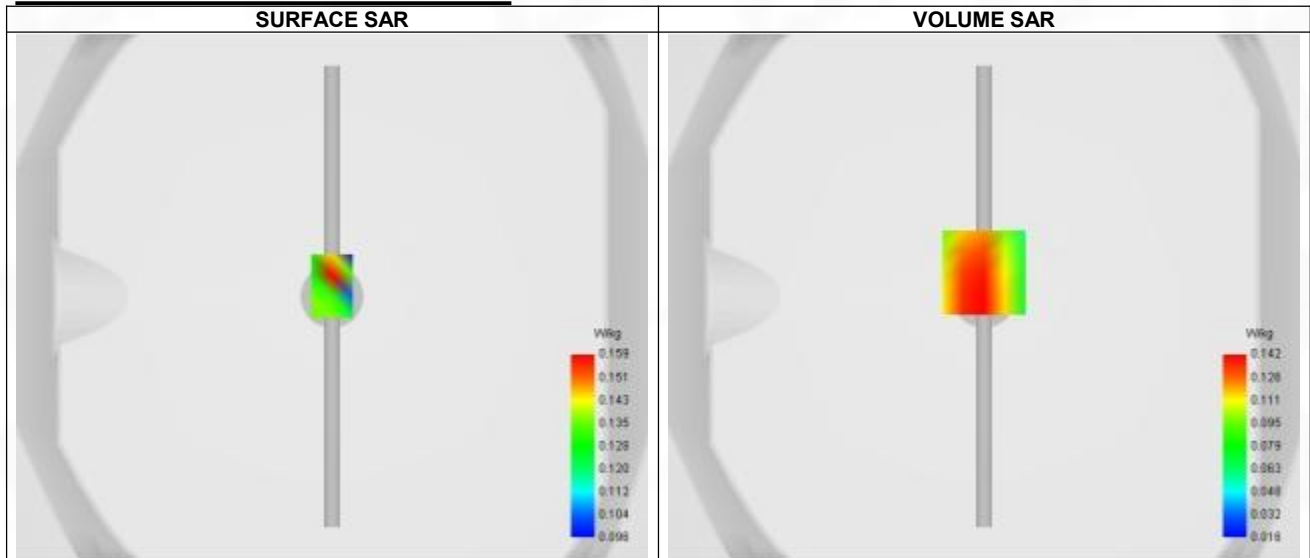
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	750.000
Relative permittivity (real part)	43.610
Relative permittivity (imaginary part)	21.460
Conductivity (S/m)	0.860

#### C. SAR Surface and Volume



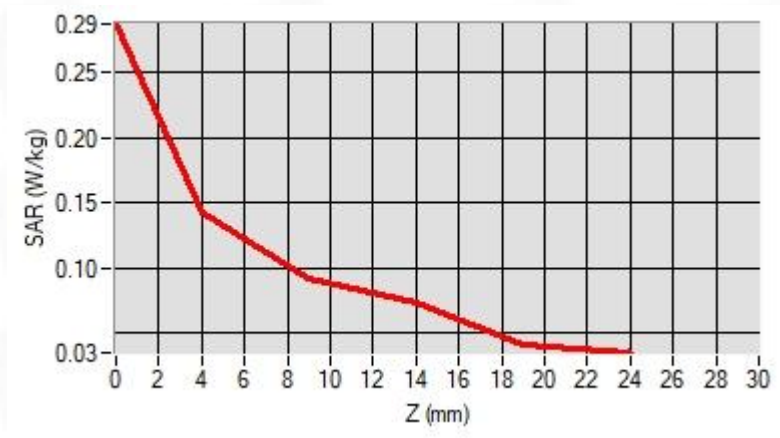
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

#### D. SAR 1g & 10g

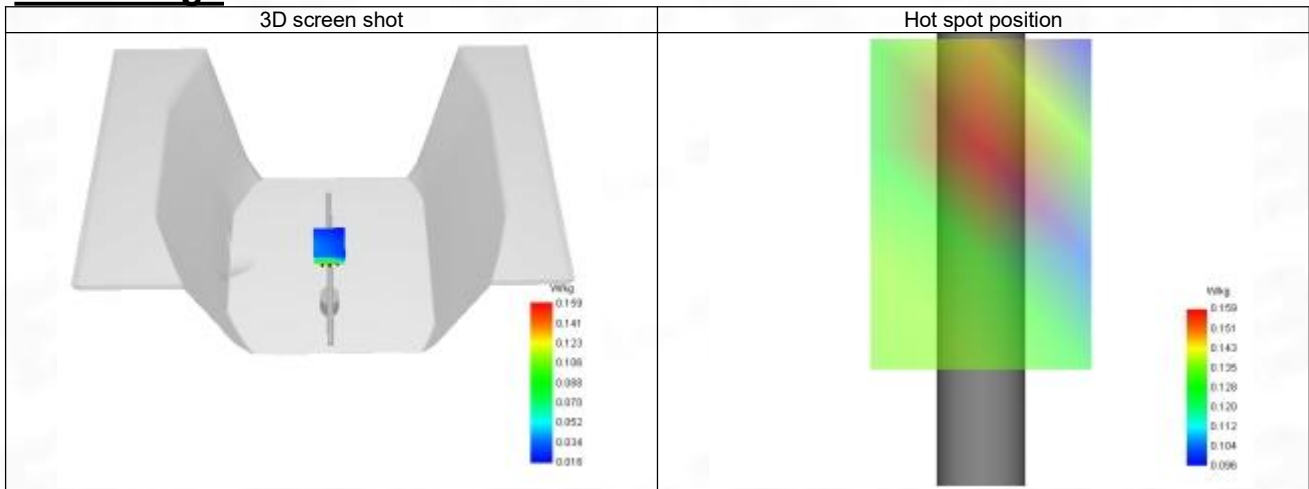
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.138
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.287	0.142	0.092	0.073	0.042



### F. 3D Image



## System Performance Check Data (835 MHz)

### System check at 835 MHz

Date of measurement: 17/11/2023

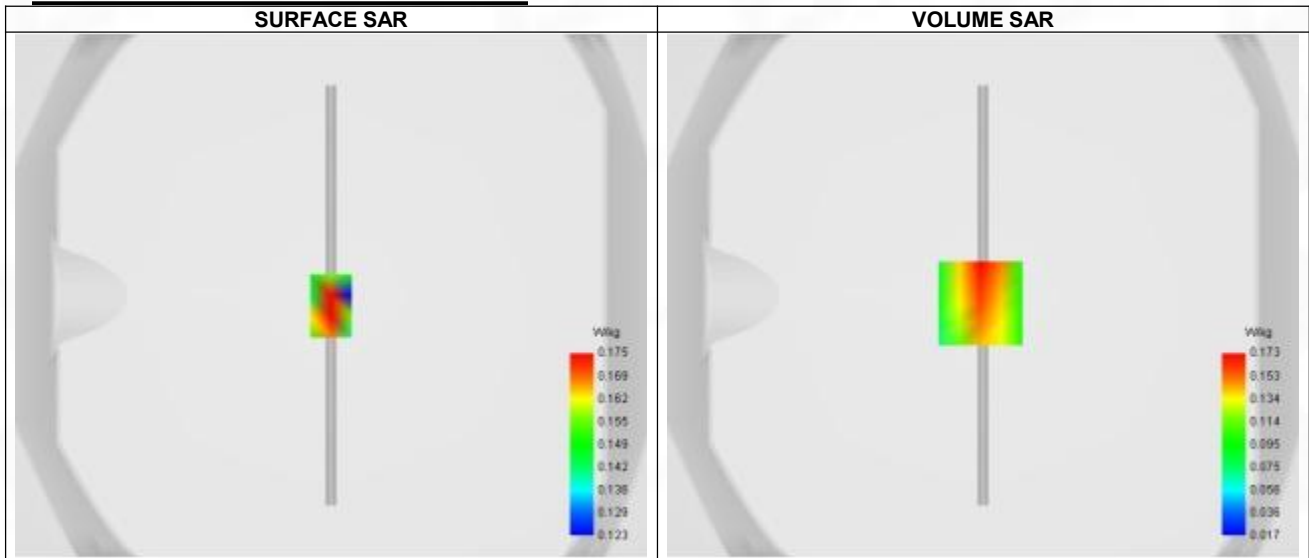
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	835.000
Relative permittivity (real part)	43.250
Relative permittivity (imaginary part)	19.490
Conductivity (S/m)	0.870

#### C. SAR Surface and Volume



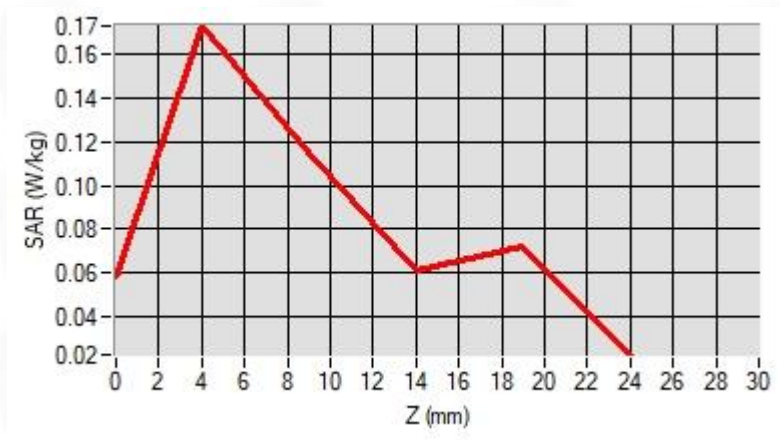
Maximum location: X=-1.00, Y=-3.00 ; SAR Peak: 0.26 W/kg

#### D. SAR 1g & 10g

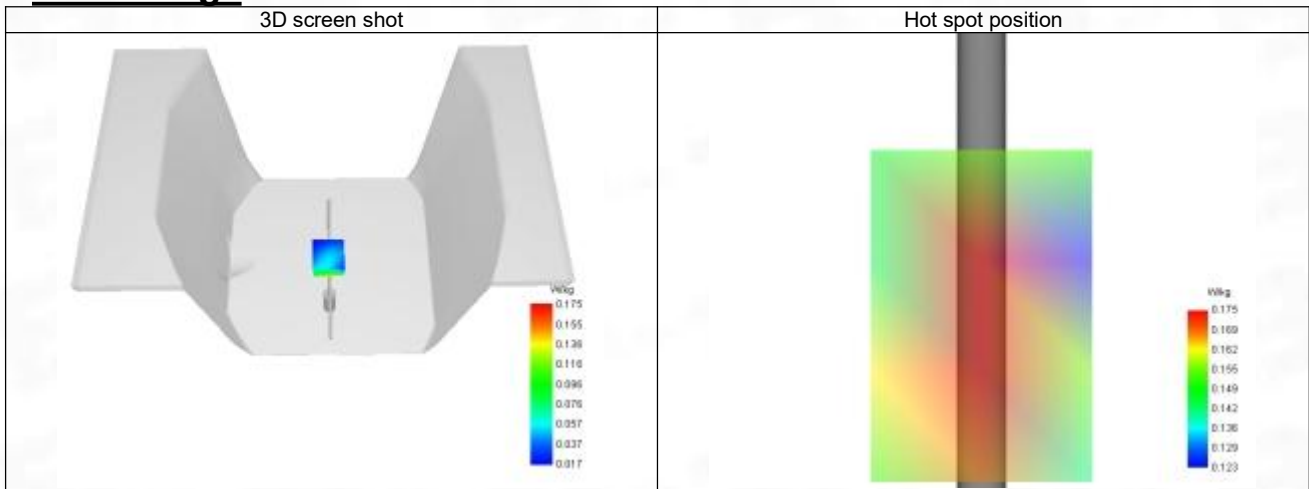
SAR 10g (W/Kg)	0.106
SAR 1g (W/Kg)	0.163
Variation (%)	-3.390
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.059	0.173	0.115	0.061	0.072



### F. 3D Image





## System Performance Check Data (1800 MHz)

### System check at 1800 MHz

Date of measurement: 17/11/2023

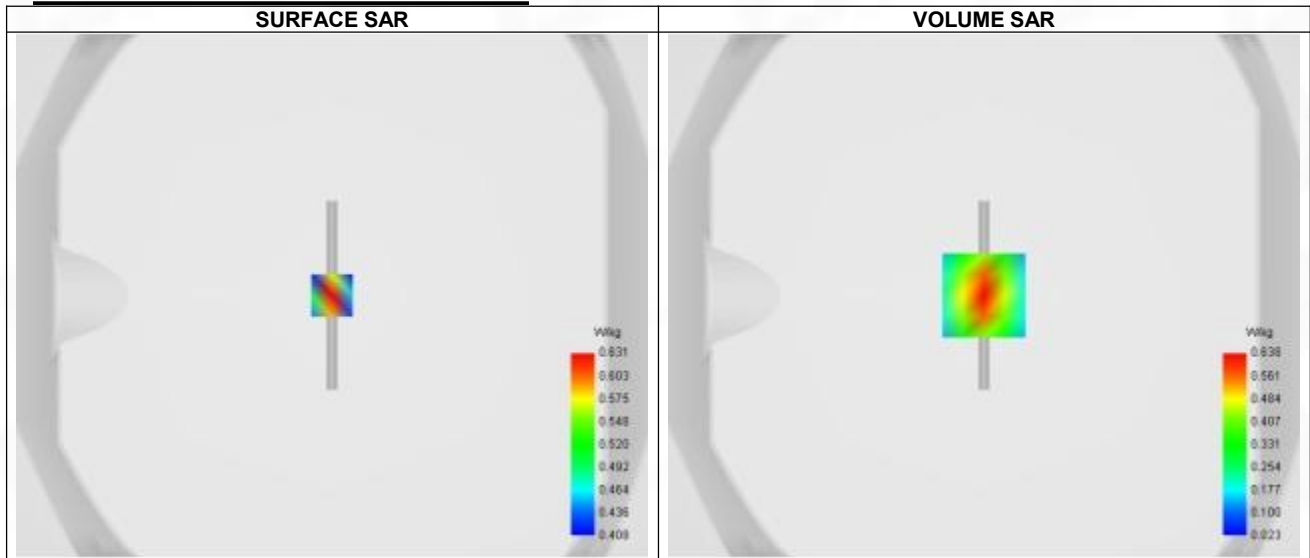
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	1.96
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	1800.000
Relative permittivity (real part)	41.530
Relative permittivity (imaginary part)	14.090
Conductivity (S/m)	1.370

#### C. SAR Surface and Volume



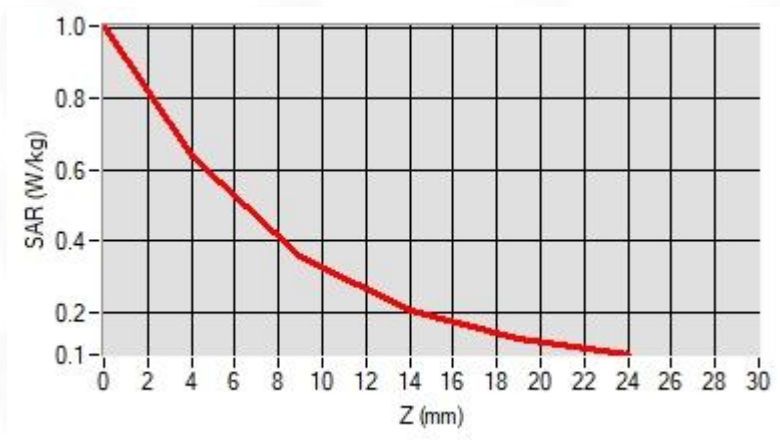
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

#### D. SAR 1g & 10g

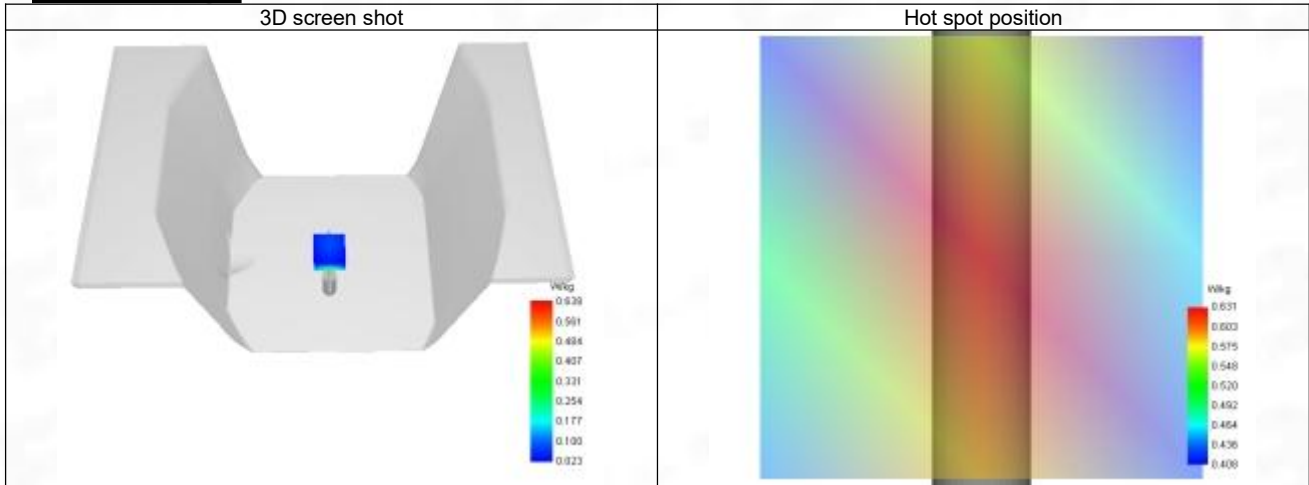
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.588
Variation (%)	-0.250
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.003	0.638	0.356	0.204	0.127



### F. 3D Image



## System Performance Check Data (1900 MHz)

### System check at 1900 MHz

Date of measurement: 20/11/2023

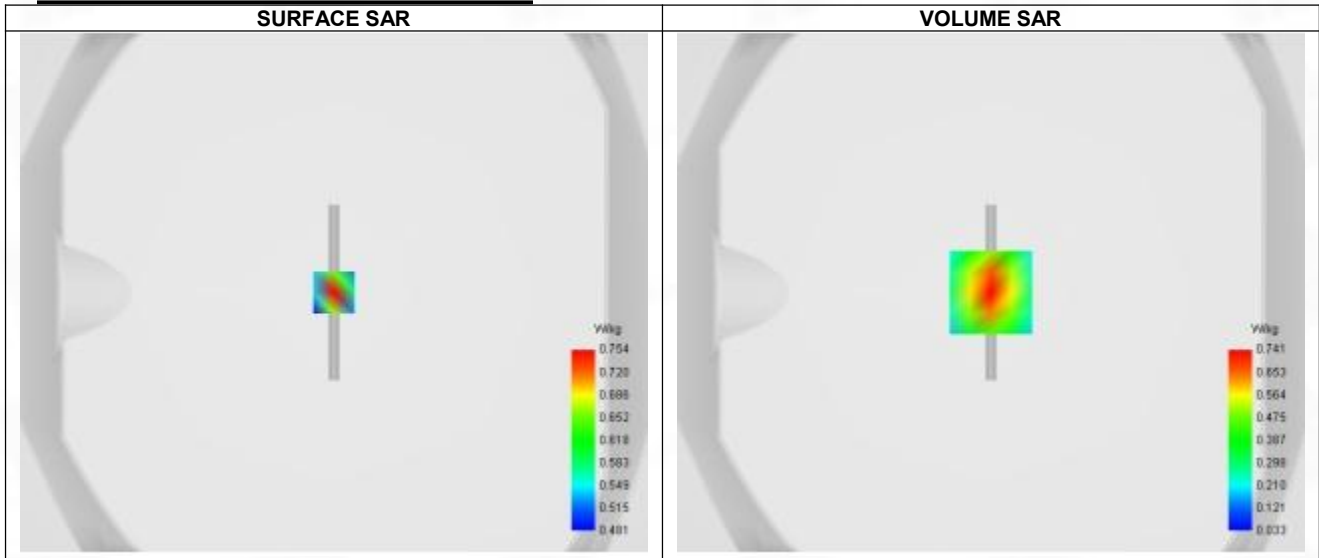
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	1900.000
Relative permittivity (real part)	41.500
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.410

#### C. SAR Surface and Volume



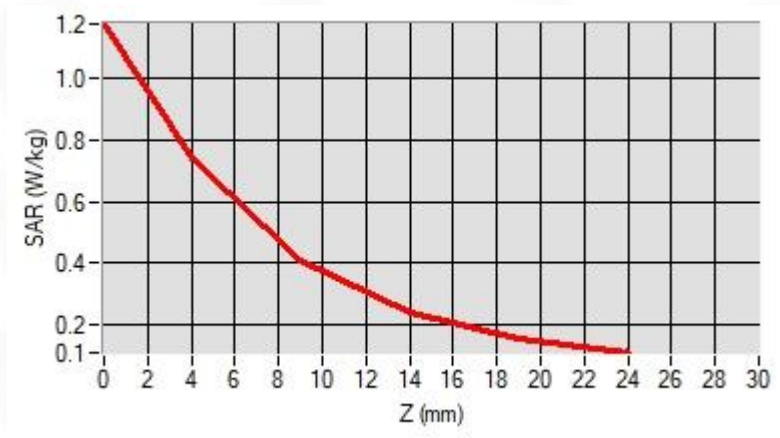
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

#### D. SAR 1g & 10g

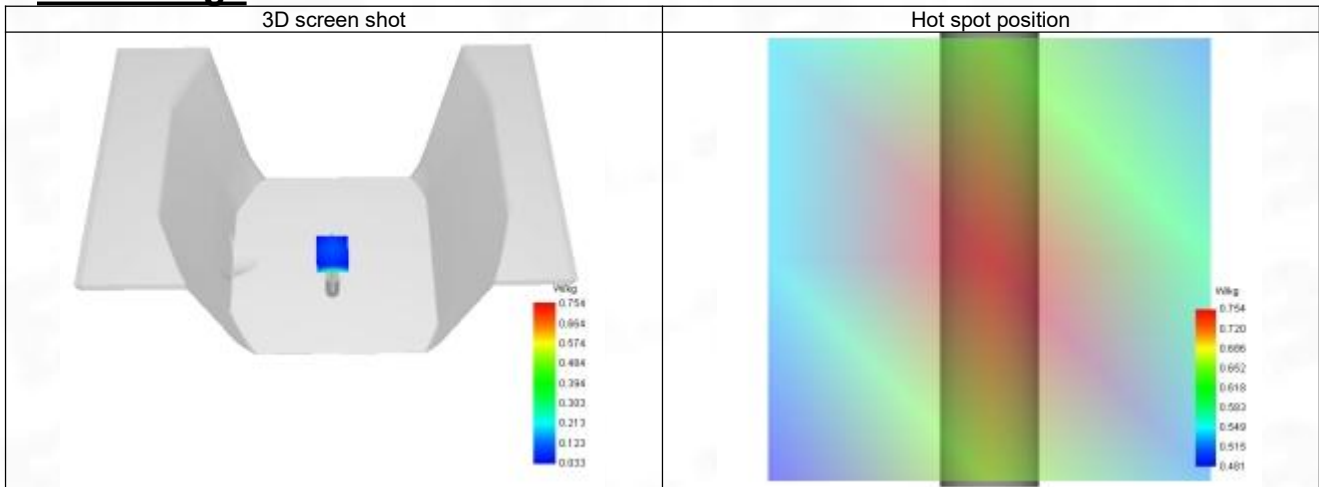
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.630
Variation (%)	-2.080
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.201	0.759	0.402	0.239	0.156



### F. 3D Image



## System Performance Check Data (2450 MHz)

### System check at 2450 MHz

Date of measurement: 20/11/2023

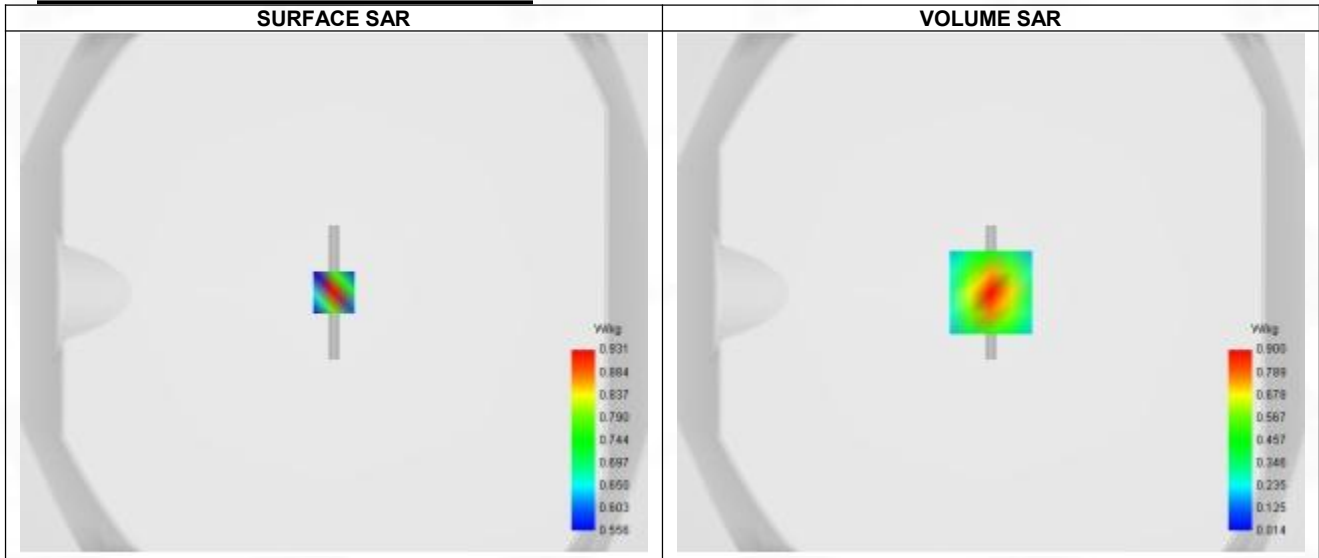
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	2450.000
Relative permittivity (real part)	41.390
Relative permittivity (imaginary part)	13.340
Conductivity (S/m)	1.810

#### C. SAR Surface and Volume



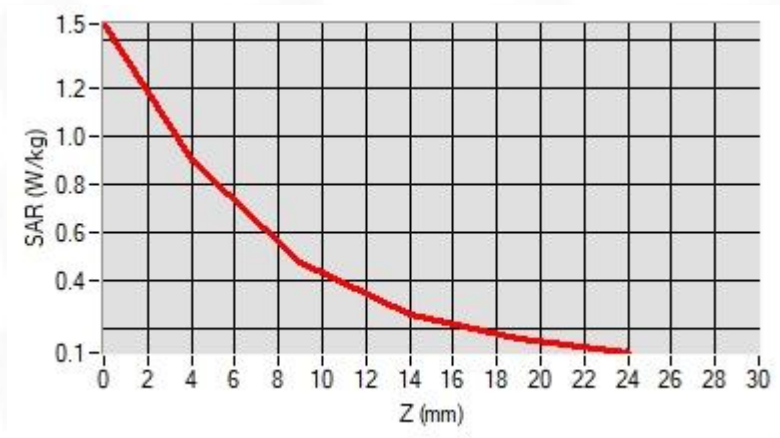
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

#### D. SAR 1g & 10g

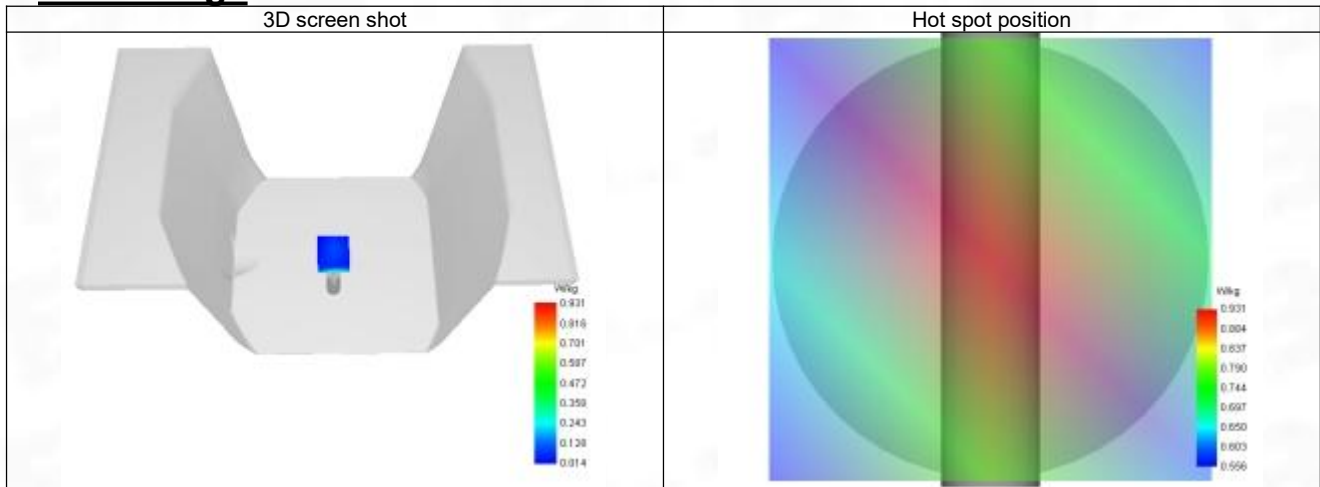
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.466	0.900	0.477	0.261	0.158



### F. 3D Image



## System Performance Check Data (2600 MHz)

### System check at 2600 MHz

Date of measurement: 20/11/2023

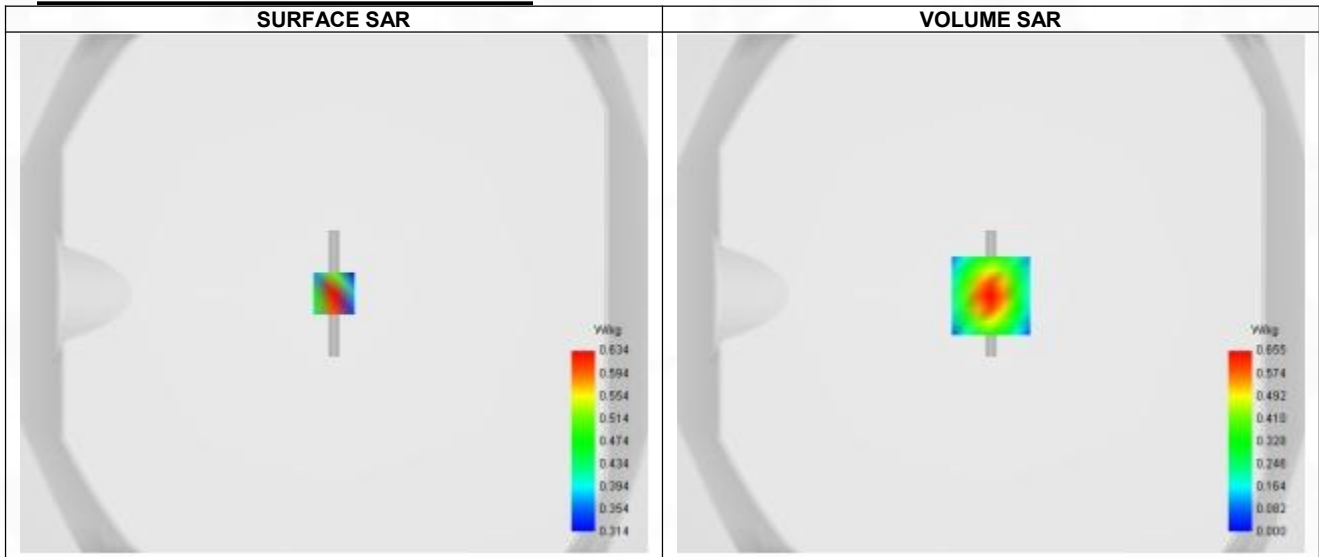
#### A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
Area Scan	dx=8mm dy=8mm, Adaptative 1 max
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2600
Channels	Middle
Signal	CW

#### B. Permittivity

Frequency (MHz)	2600.000
Relative permittivity (real part)	41.190
Relative permittivity (imaginary part)	12.690
Conductivity (S/m)	1.970

#### C. SAR Surface and Volume



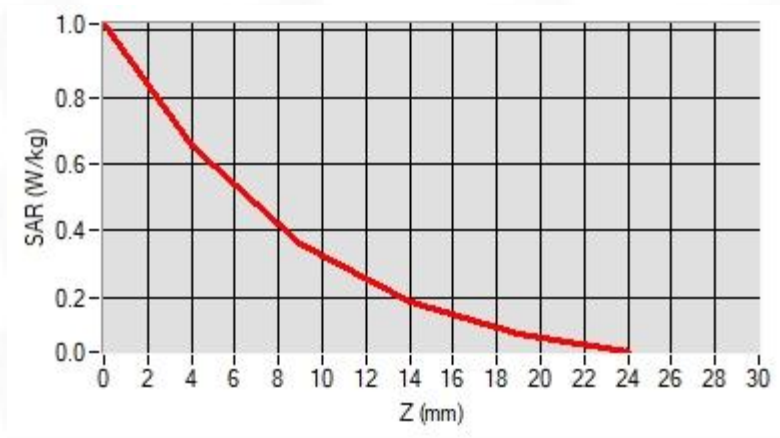
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

#### D. SAR 1g & 10g

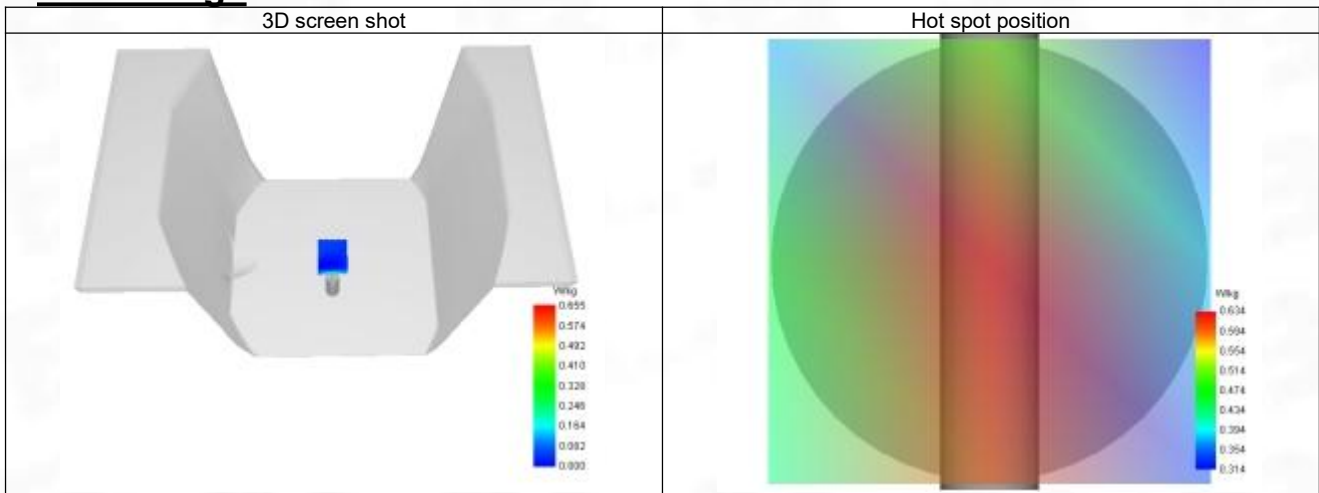
SAR 10g (W/Kg)	0.421
SAR 1g (W/Kg)	0.866
Variation (%)	2.980
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.020	0.655	0.359	0.187	0.091



### F. 3D Image





## ANNEX C Test Data

1-Head with front position in dist. 0mm on Channel 251 in GSM850 voice

### SAR Measurement at GSM850 (Cheek, Right)

Date of measurement: 17/11/2023

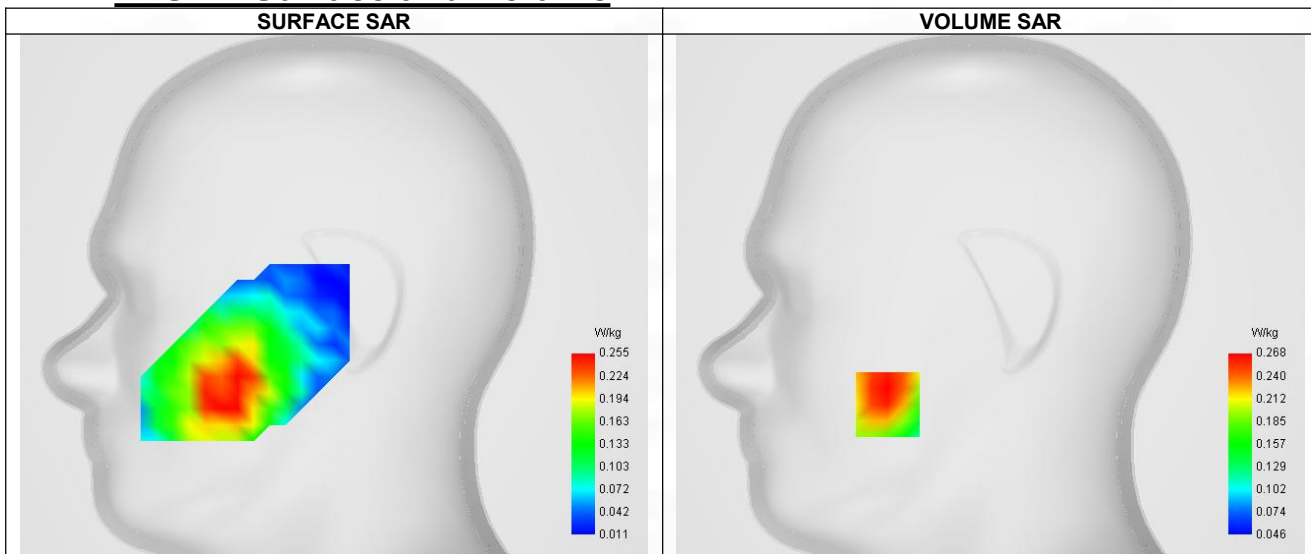
#### A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.68
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM850
Channels	Higher (251)
Signal	TDMA (GSM)
Modulation	GMSK

#### B. Permittivity

Frequency (MHz)	848.800
Relative permittivity (real part)	43.225
Relative permittivity (imaginary part)	19.413
Conductivity (S/m)	0.877

#### C. SAR Surface and Volume



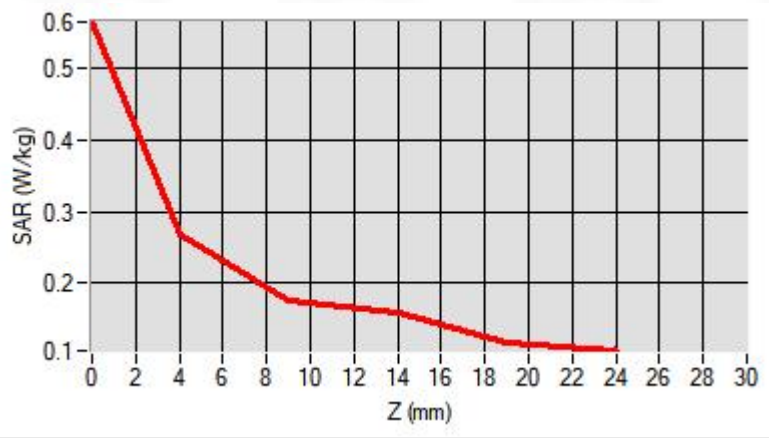
Maximum location: X=-51.00, Y=-54.00 ; SAR Peak: 0.34 W/kg

#### D. SAR 1g & 10g

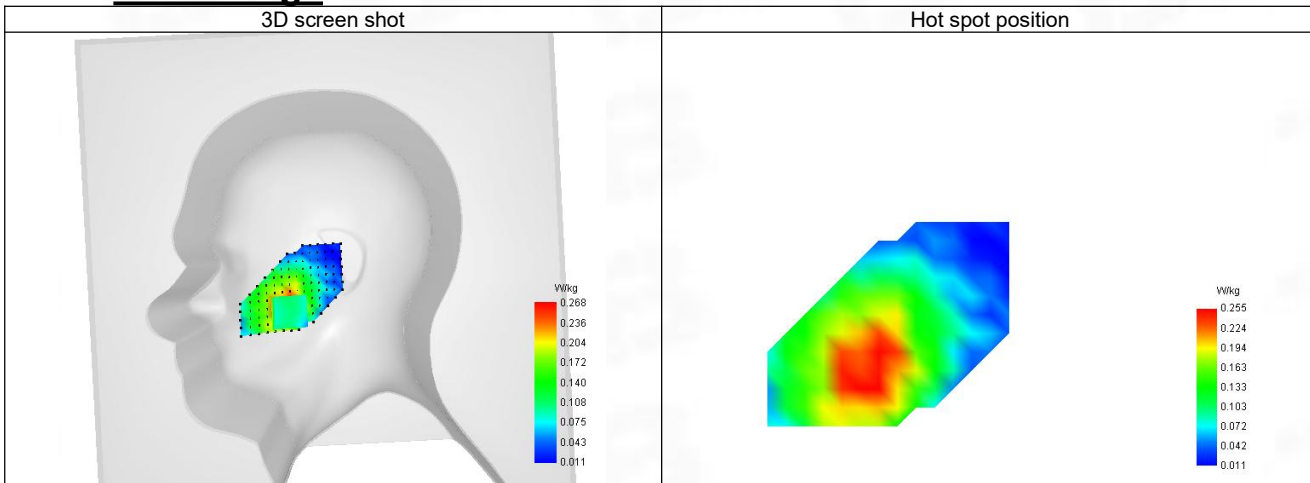
SAR 10g (W/Kg)	0.200
SAR 1g (W/Kg)	0.275
Variation (%)	-1.430
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

#### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.564	0.268	0.175	0.159	0.118



### F. 3D Image



**2-Body with back position in dist. 10mm on Channel 128 in GPRS850+2slots**

**SAR Measurement at GPRS850 (Body, Validation Plane)**

Date of measurement: 17/11/2023

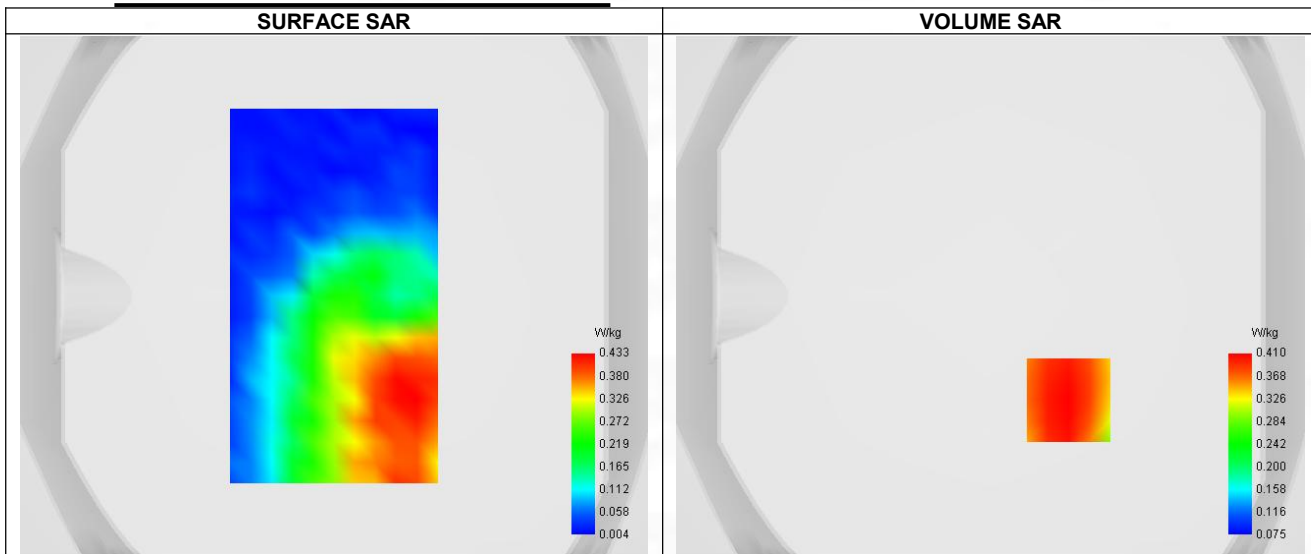
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS850
Channels	Lower (128)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	2

**B. Permittivity**

Frequency (MHz)	824.200
Relative permittivity (real part)	43.296
Relative permittivity (imaginary part)	19.740
Conductivity (S/m)	0.869

**C. SAR Surface and Volume**



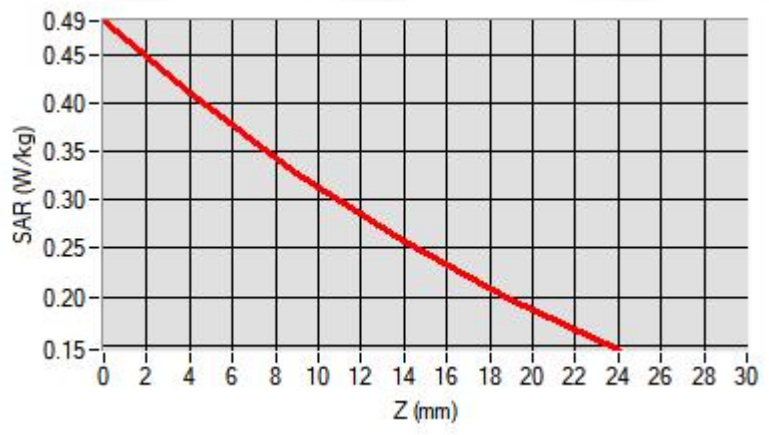
Maximum location: X=30.00, Y=-40.00 ; SAR Peak: 0.50 W/kg

**D. SAR 1g & 10g**

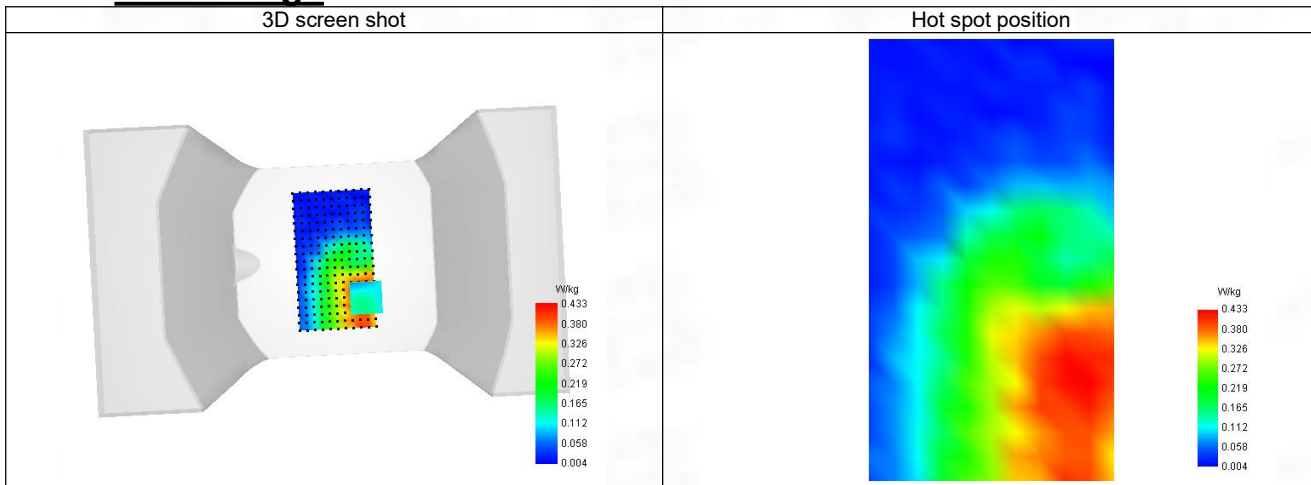
SAR 10g (W/Kg)	0.319
SAR 1g (W/Kg)	0.426
Variation (%)	-4.650
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.485	0.410	0.327	0.256	0.196



### F. 3D Image



3-Head with front position in dist. 0mm on Channel 512 in GSM1900 voice

**SAR Measurement at GSM1900 (Cheek, Right)**

Date of measurement: 17/11/2023

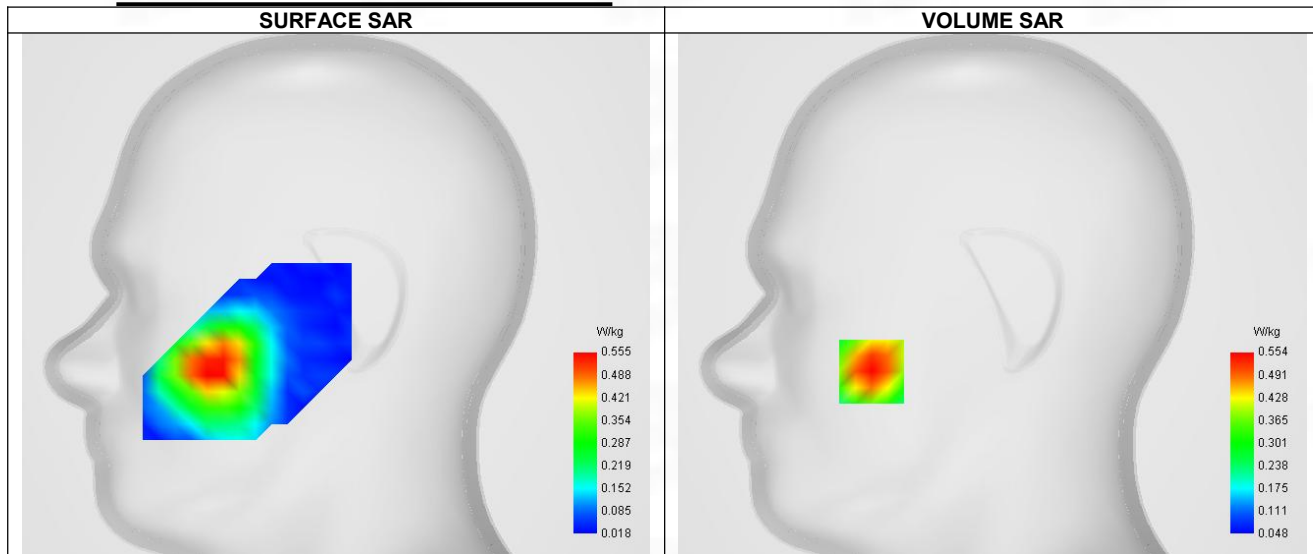
**A. Experimental conditions.**

Probe	SN 04/22 EPGO365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	GSM1900
Channels	Lower (512)
Signal	TDMA (GSM)
Modulation	GMSK

**B. Permittivity**

Frequency (MHz)	1850.200
Relative permittivity (real part)	41.515
Relative permittivity (imaginary part)	13.734
Conductivity (S/m)	1.390

**C. SAR Surface and Volume**



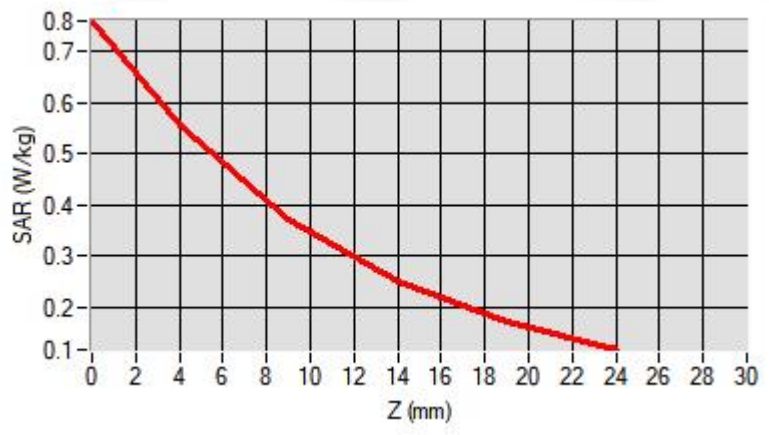
Maximum location: X=-60.00, Y=-38.00 ; SAR Peak: 0.77 W/kg

**D. SAR 1g & 10g**

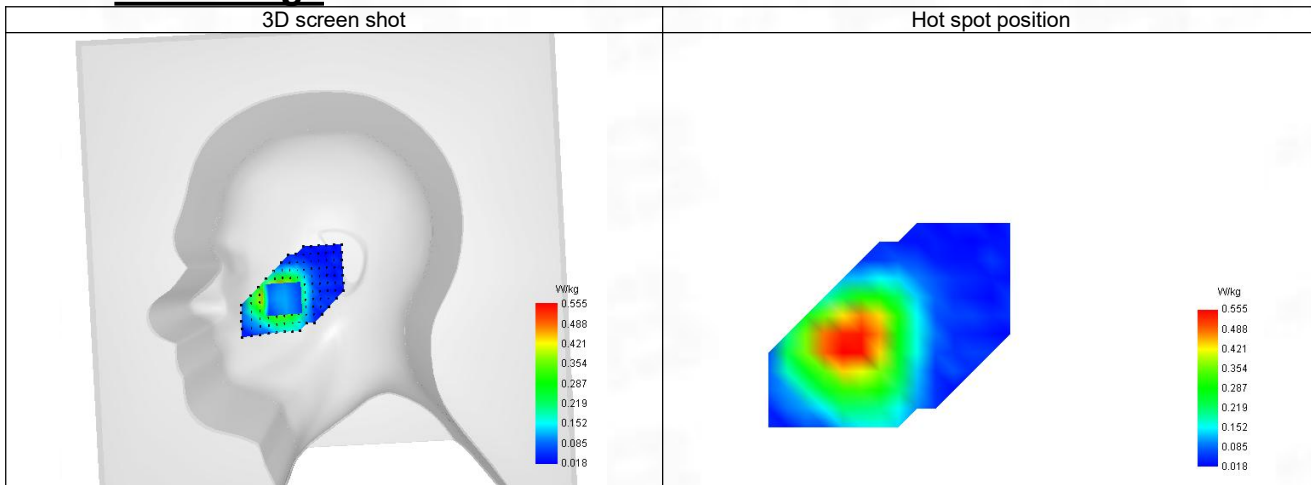
SAR 10g (W/Kg)	0.339
SAR 1g (W/Kg)	0.545
Variation (%)	-2.610
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.760	0.554	0.371	0.251	0.172



### F. 3D Image



4-Body with back position in dist. 10mm on Channel 512 in GPRS1900+2slots

**SAR Measurement at GPRS1900 (Body, Validation Plane)**

Date of measurement: 17/11/2023

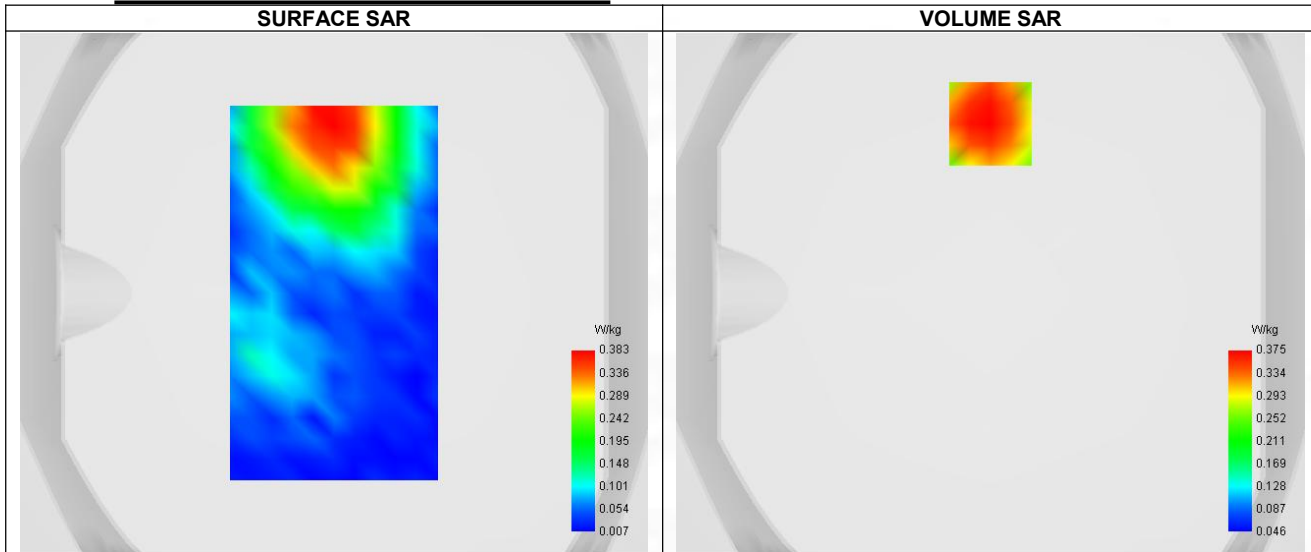
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	GPRS1900
Channels	Lower (512)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	2

**B. Permittivity**

Frequency (MHz)	1850.200
Relative permittivity (real part)	41.515
Relative permittivity (imaginary part)	13.734
Conductivity (S/m)	1.390

**C. SAR Surface and Volume**



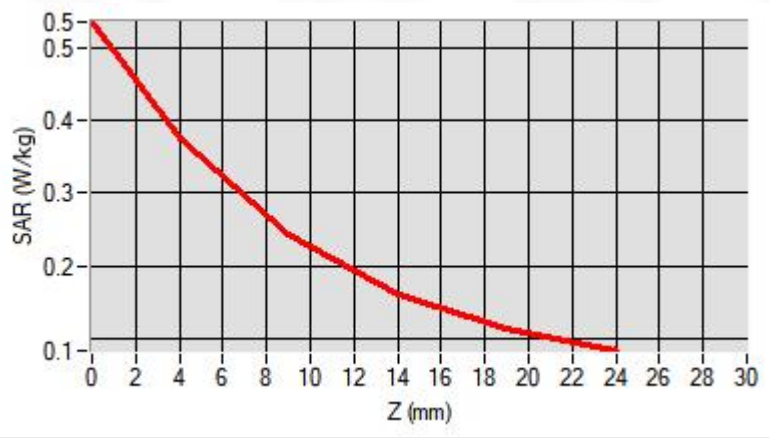
Maximum location: X=0.00, Y=65.00 ; SAR Peak: 0.54 W/kg

**D. SAR 1g & 10g**

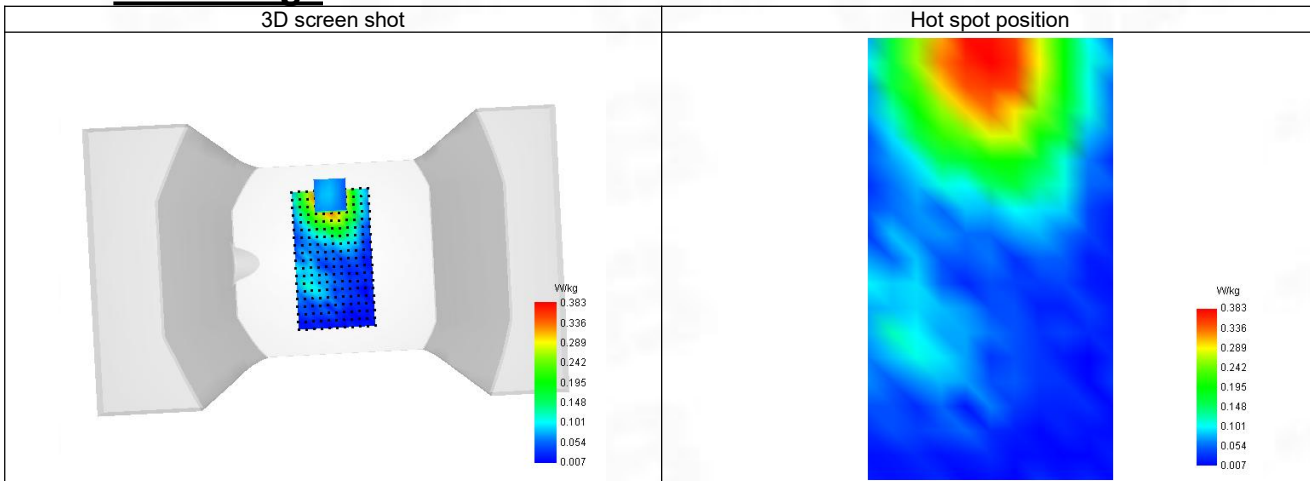
SAR 10g (W/Kg)	0.239
SAR 1g (W/Kg)	0.376
Variation (%)	3.940
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.535	0.375	0.242	0.162	0.115



### F. 3D Image





**5-Head with front position in dist. 0mm on Channel 9400 in WCDMA Band 2**

**SAR Measurement at Band 2 (1900) (Cheek, Right)**

Date of measurement: 17/11/2023

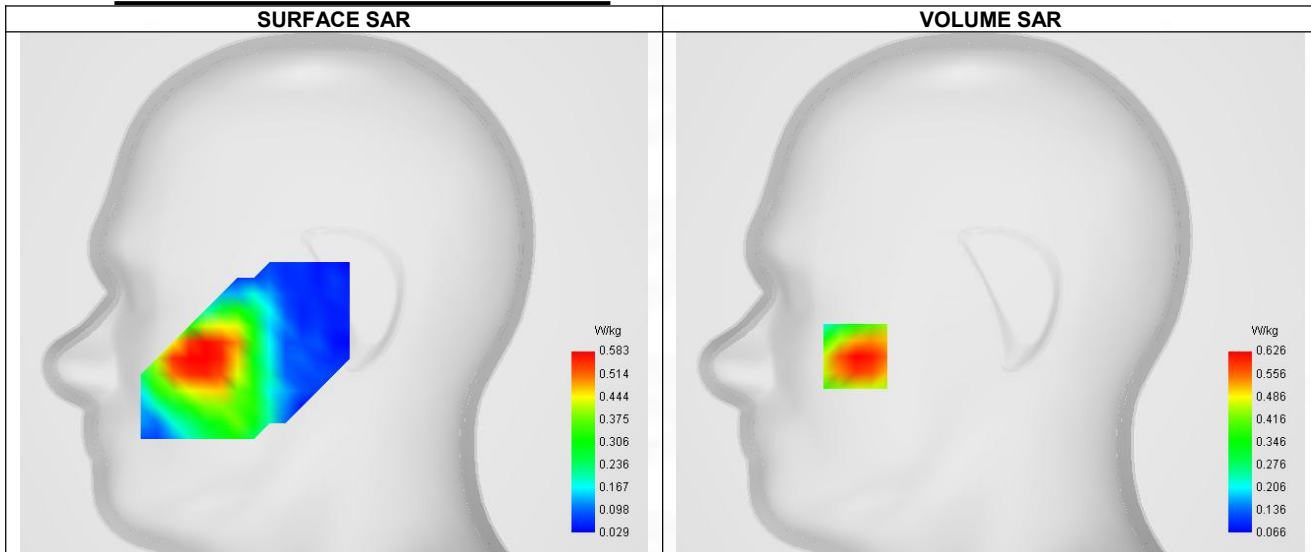
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band 2 (1900)
Channels	Middle (9400)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	1880.500
Relative permittivity (real part)	40.202
Relative permittivity (imaginary part)	13.518
Conductivity (S/m)	1.402

**C. SAR Surface and Volume**



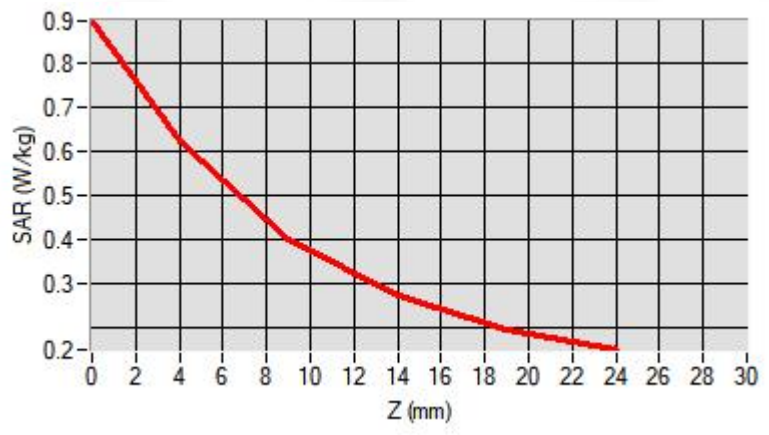
Maximum location: X=-67.00, Y=-31.00 ; SAR Peak: 0.91 W/kg

**D. SAR 1g & 10g**

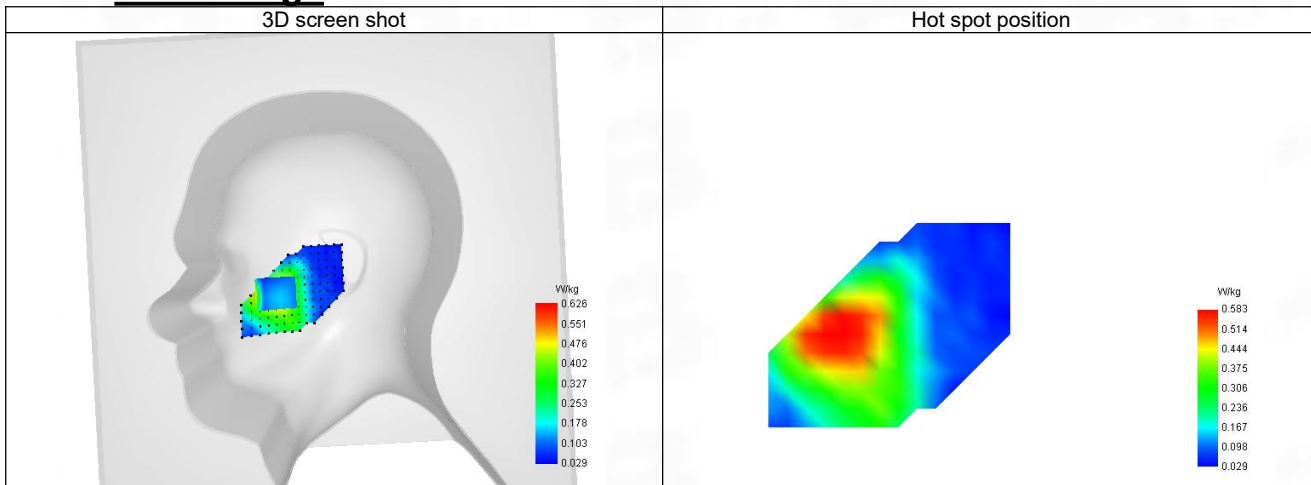
SAR 10g (W/Kg)	0.393
SAR 1g (W/Kg)	0.623
Variation (%)	3.400
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.896	0.626	0.403	0.272	0.199



### F. 3D Image



6-Body with back position in dist. 10mm on Channel 9400 in WCDMA Band 2

**SAR Measurement at Band 2 (1900) (Body, Validation Plane)**

Date of measurement: 17/11/2023

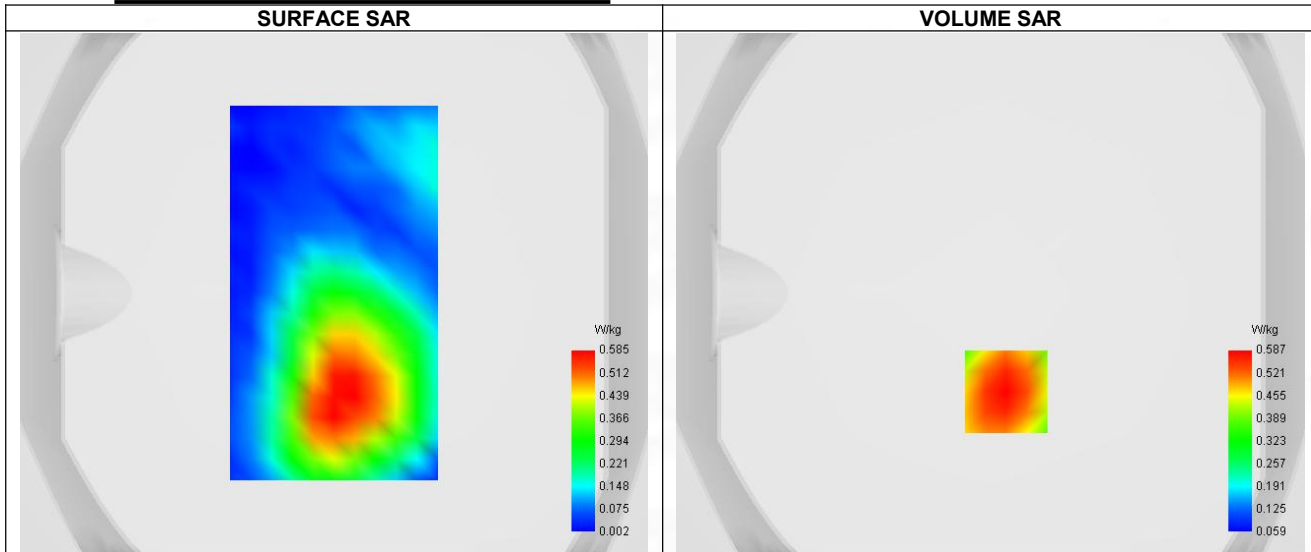
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 2 (1900)
Channels	Middle (9400)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	1880.500
Relative permittivity (real part)	40.202
Relative permittivity (imaginary part)	13.518
Conductivity (S/m)	1.402

**C. SAR Surface and Volume**



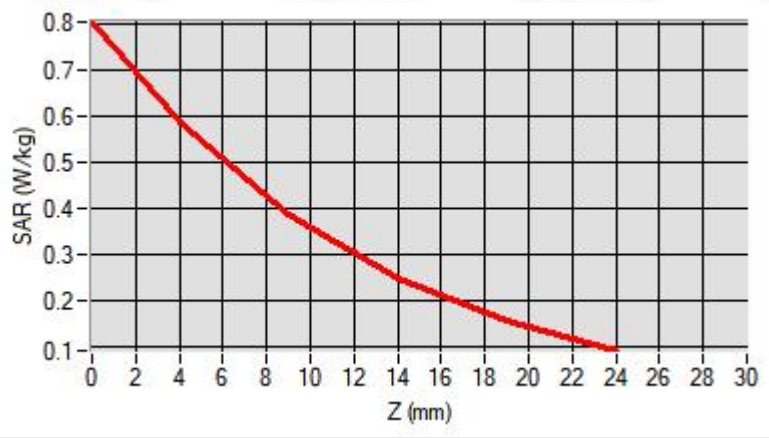
Maximum location: X=6.00, Y=-38.00 ; SAR Peak: 0.81 W/kg

**D. SAR 1g & 10g**

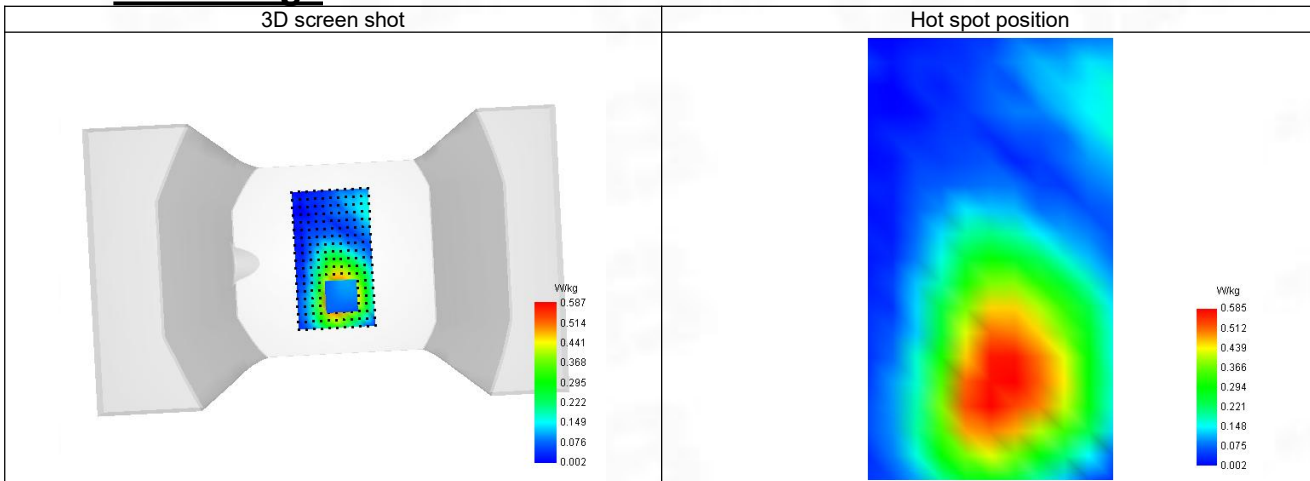
SAR 10g (W/Kg)	0.367
SAR 1g (W/Kg)	0.581
Variation (%)	-0.110
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.806	0.587	0.387	0.250	0.158



### F. 3D Image



**7-Head with front position in dist. 0mm on Channel 1513 in WCDMA Band 4**

**SAR Measurement at Band 4 (1700) (Cheek, Right)**

Date of measurement: 17/11/2023

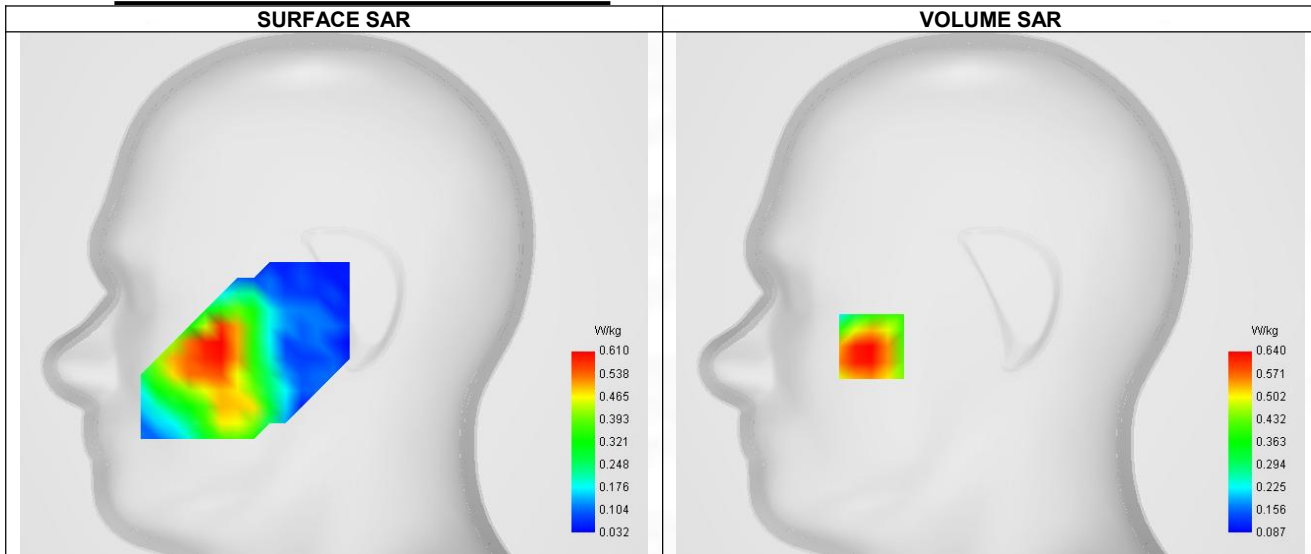
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band 4 (1700)
Channels	Higher (1513)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	1752.600
Relative permittivity (real part)	41.614
Relative permittivity (imaginary part)	14.355
Conductivity (S/m)	1.345

**C. SAR Surface and Volume**



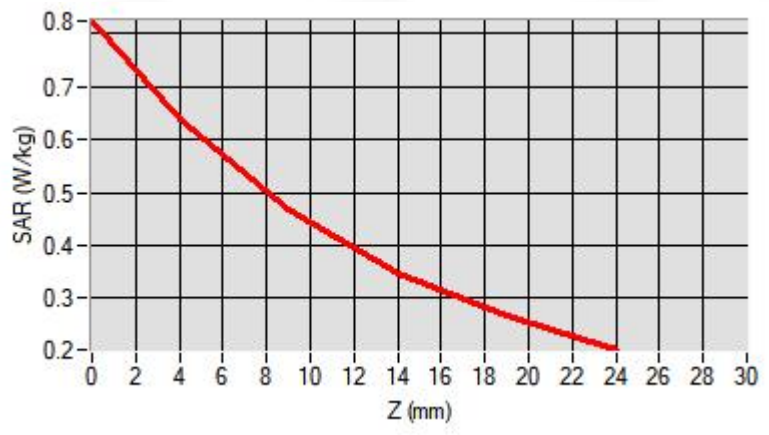
Maximum location: X=-59.00, Y=-26.00 ; SAR Peak: 0.87 W/kg

**D. SAR 1g & 10g**

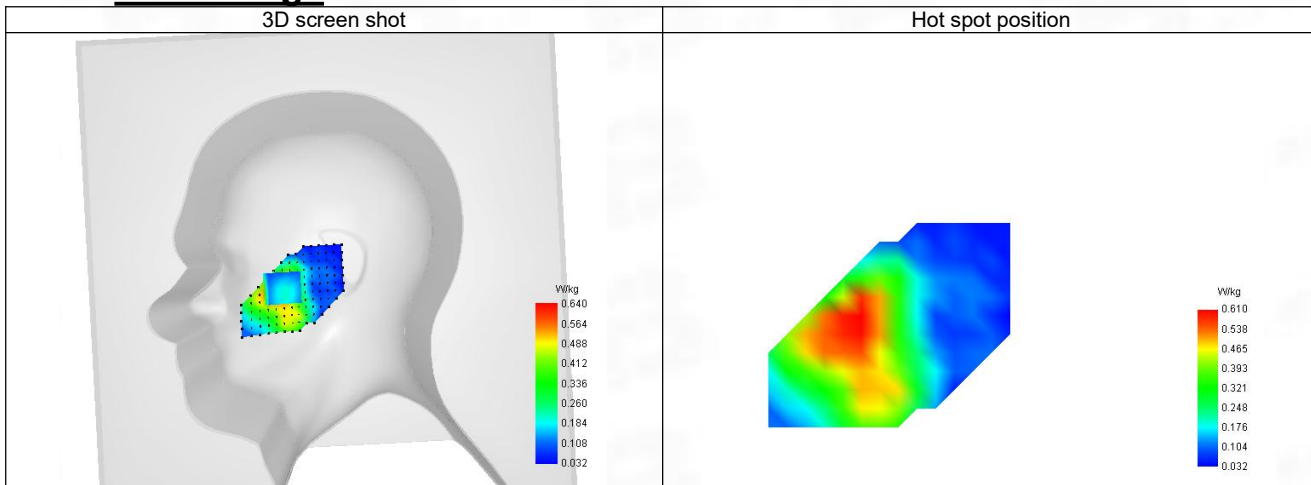
SAR 10g (W/Kg)	0.435
SAR 1g (W/Kg)	0.654
Variation (%)	-1.410
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.825	0.640	0.468	0.348	0.266



### F. 3D Image



**8-Body with back position in dist. 10mm on Channel 1513 in WCDMA Band 4**

**SAR Measurement at Band 4 (1700) (Body, Validation Plane)**

Date of measurement: 17/11/2023

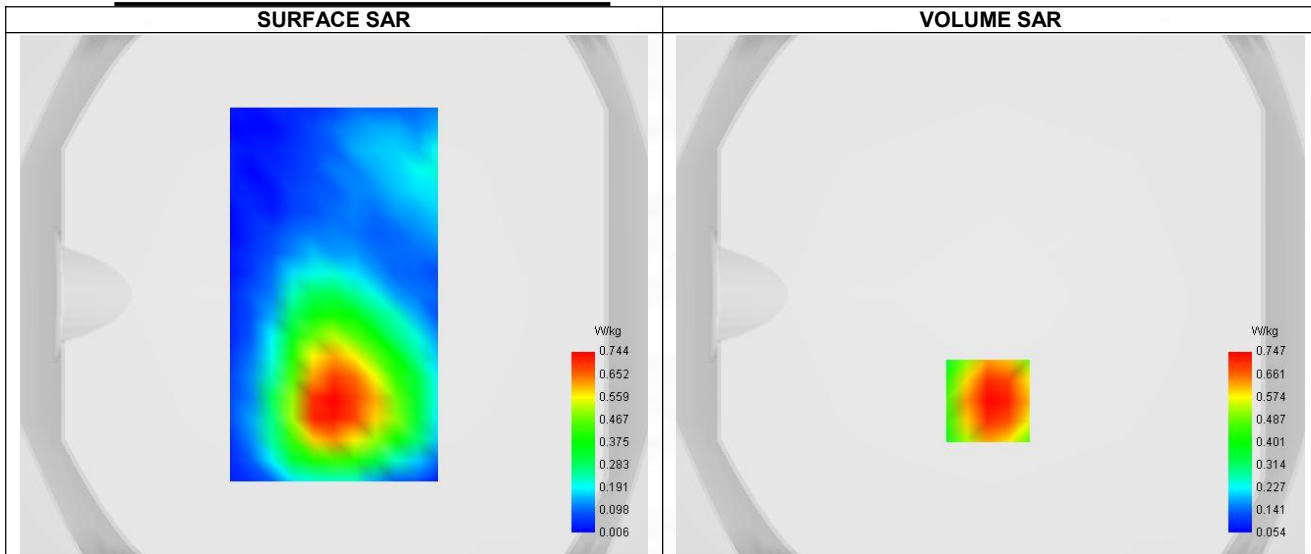
**A. Experimental conditions.**

Probe	SN 04/22 EPGO365
ConvF	1.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	Band 4 (1700)
Channels	Higher (1513)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	1752.600
Relative permittivity (real part)	41.614
Relative permittivity (imaginary part)	14.355
Conductivity (S/m)	1.345

**C. SAR Surface and Volume**



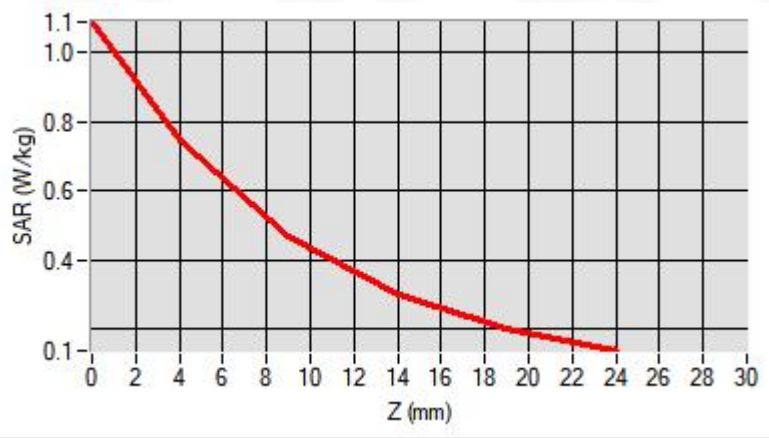
Maximum location: X=-1.00, Y=-41.00 ; SAR Peak: 1.09 W/kg

**D. SAR 1g & 10g**

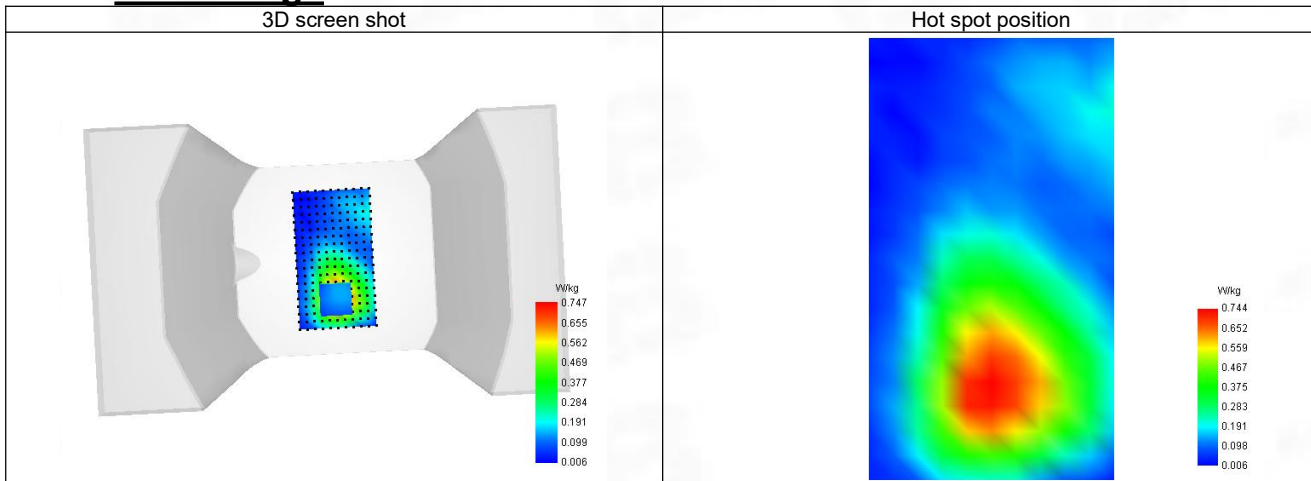
SAR 10g (W/Kg)	0.460
SAR 1g (W/Kg)	0.748
Variation (%)	0.360
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.087	0.747	0.466	0.298	0.201



### F. 3D Image





**9-Head with front position in dist. 0mm on Channel 4233 in WCDMA Band 5**

**SAR Measurement at Band 5 (850) (Cheek, Right)**

Date of measurement: 17/11/2023

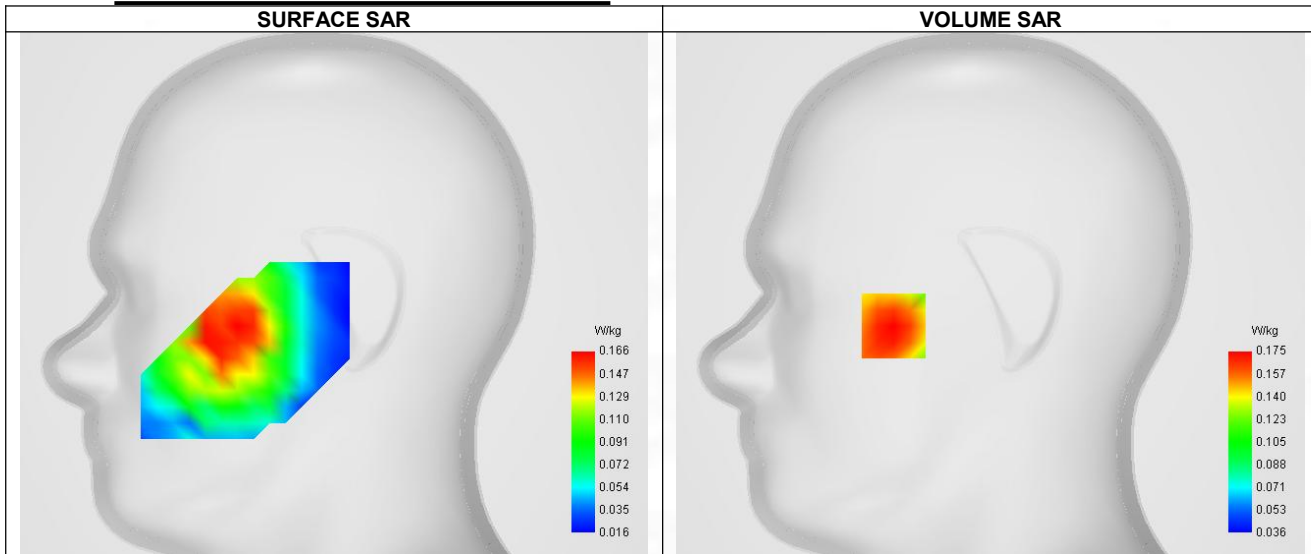
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Band 5 (850)
Channels	Higher (4233)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	846.600
Relative permittivity (real part)	43.229
Relative permittivity (imaginary part)	19.425
Conductivity (S/m)	0.876

**C. SAR Surface and Volume**



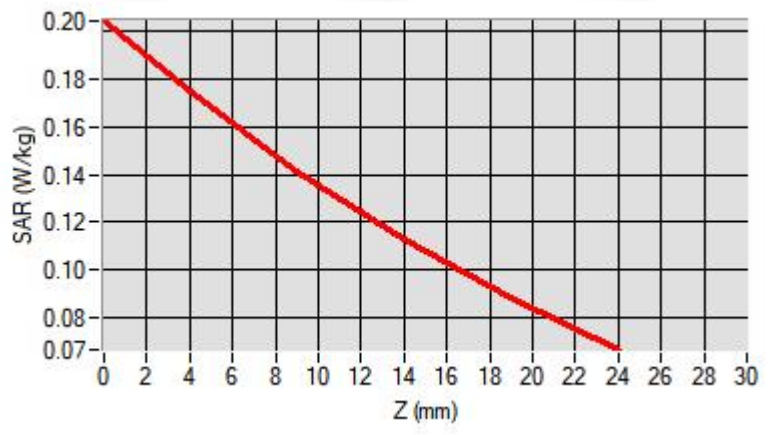
Maximum location: X=-48.00, Y=-16.00 ; SAR Peak: 0.22 W/kg

**D. SAR 1g & 10g**

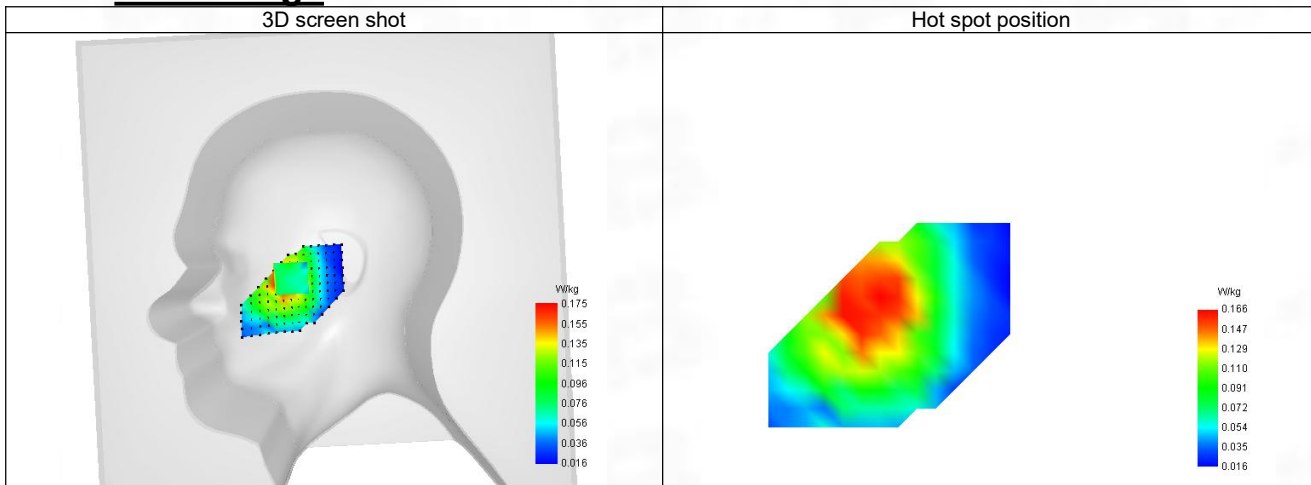
SAR 10g (W/Kg)	0.141
SAR 1g (W/Kg)	0.183
Variation (%)	1.820
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.205	0.175	0.142	0.113	0.088



### F. 3D Image



**10-Body with back position in dist. 10mm on Channel 4233 in WCDMA Band 5**

**SAR Measurement at Band 5 (850) (Body, Validation Plane)**

Date of measurement: 17/11/2023

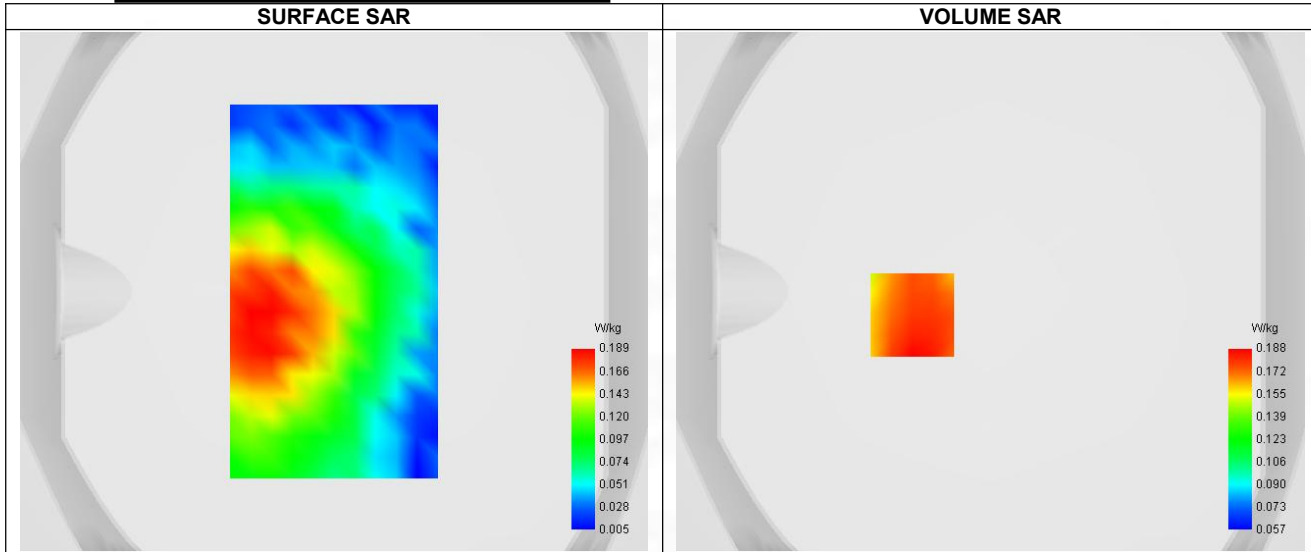
**A. Experimental conditions.**

Probe	SN 04/22 EPGO365
ConvF	1.68
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	Band 5 (850)
Channels	Higher (4233)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

**B. Permittivity**

Frequency (MHz)	846.600
Relative permittivity (real part)	43.229
Relative permittivity (imaginary part)	19.425
Conductivity (S/m)	0.876

**C. SAR Surface and Volume**



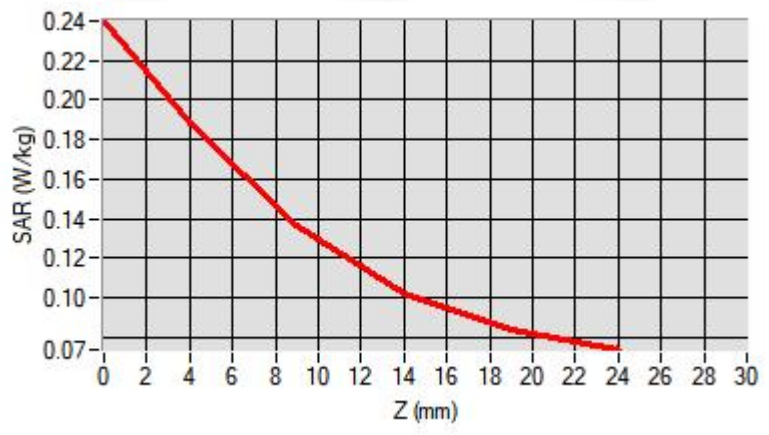
Maximum location: X=-30.00, Y=-9.00 ; SAR Peak: 0.25 W/kg

**D. SAR 1g & 10g**

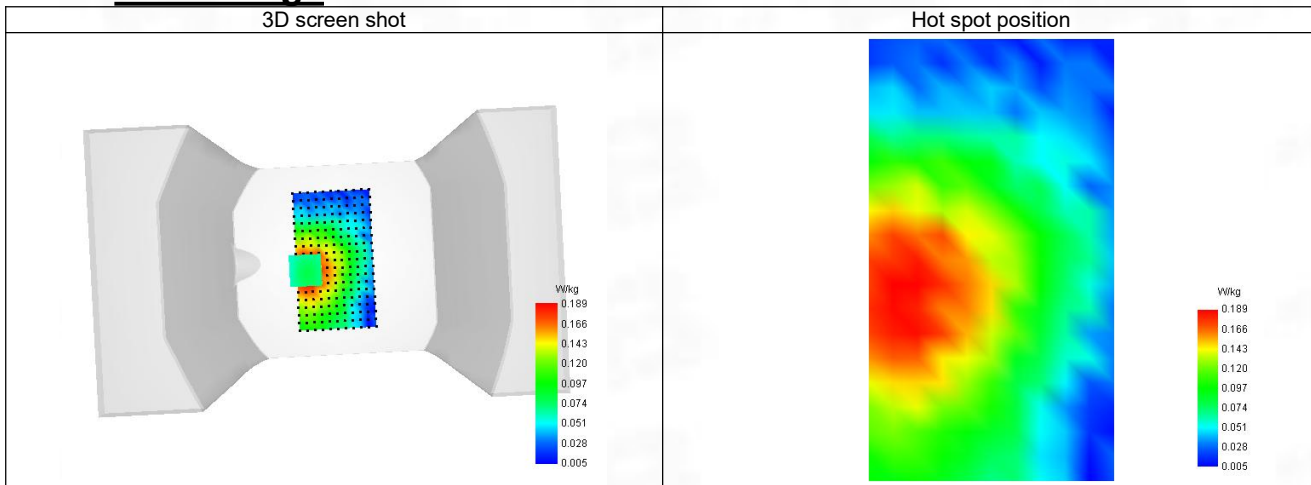
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.194
Variation (%)	-1.700
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.240	0.188	0.136	0.102	0.084



### F. 3D Image



11-Head with front position in dist. 0mm on Channel 19100 in LTE band 2

**SAR Measurement at LTE band 2 (Cheek, Right)**

Date of measurement: 20/11/2023

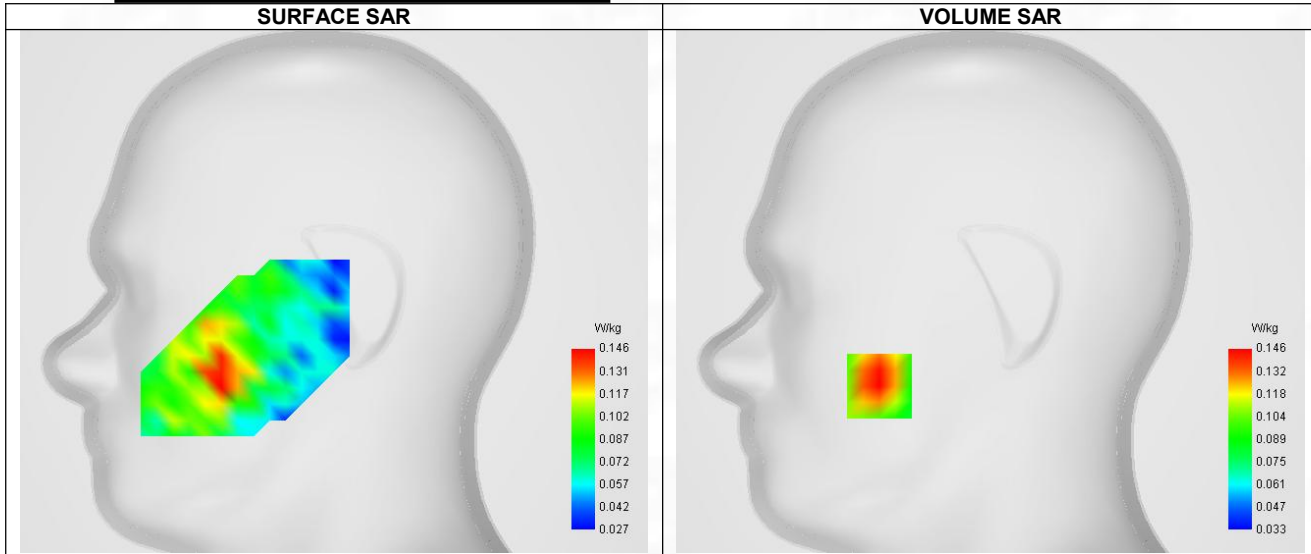
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Channels	Higher (19100)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1900.090
Relative permittivity (real part)	39.880
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.410

**C. SAR Surface and Volume**



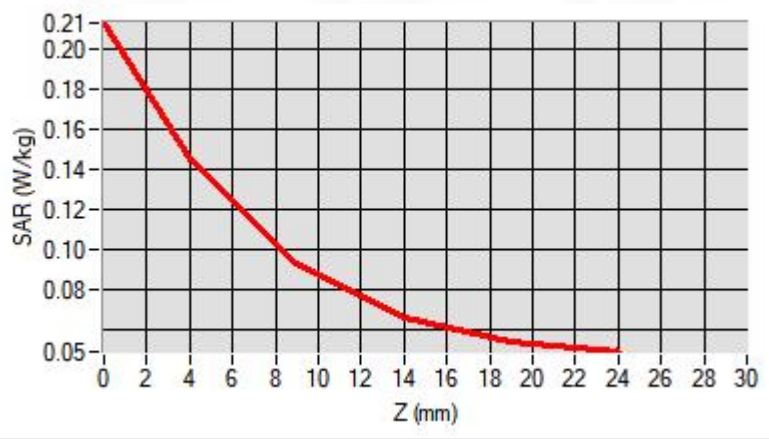
Maximum location: X=-55.00, Y=-47.00 ; SAR Peak: 0.21 W/kg

**D. SAR 1g & 10g**

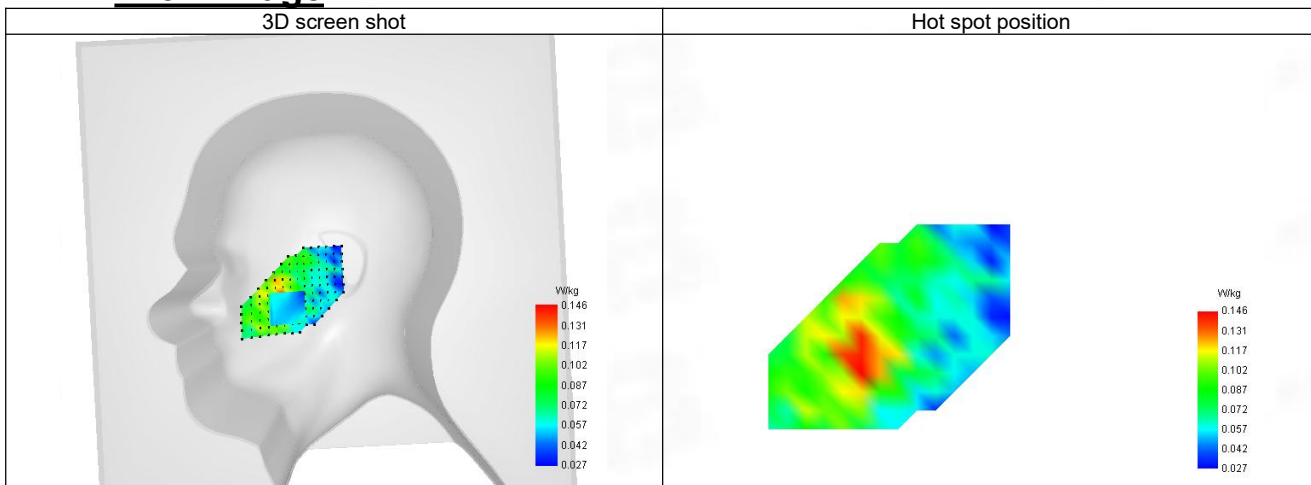
SAR 10g (W/Kg)	0.103
SAR 1g (W/Kg)	0.152
Variation (%)	2.770
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.213	0.146	0.094	0.066	0.055



### F. 3D Image



**12-Body with back position in dist. 10mm on Channel 19100 in LTE band 2**

**SAR Measurement at LTE band 2 (Body, Validation Plane)**

Date of measurement: 20/11/2023

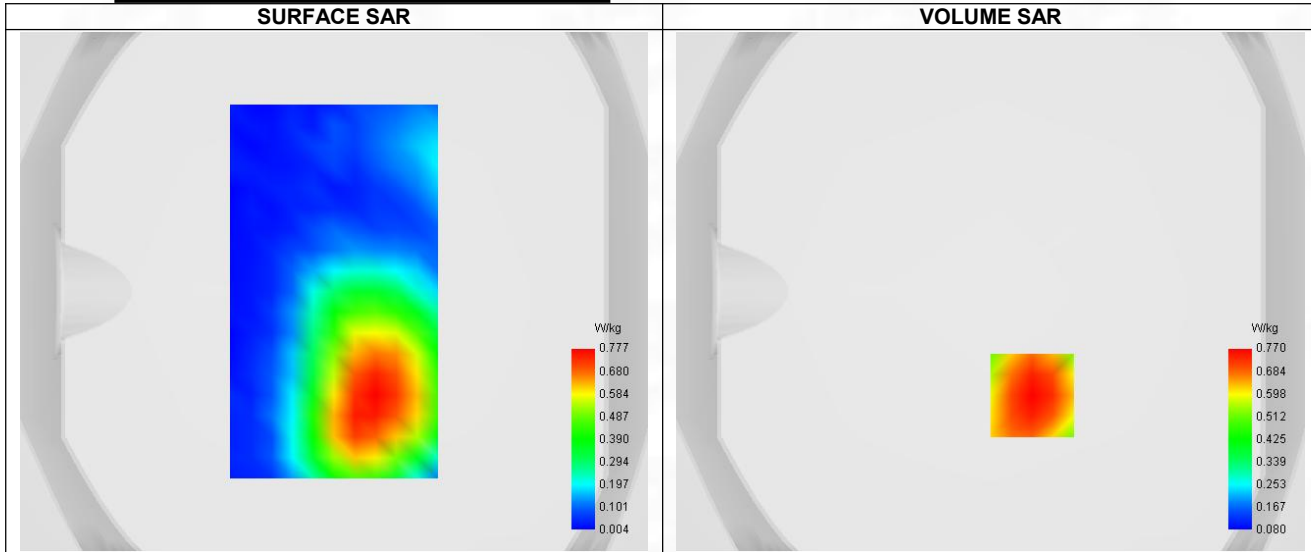
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels	Higher (19100)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1900.090
Relative permittivity (real part)	39.880
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.410

**C. SAR Surface and Volume**



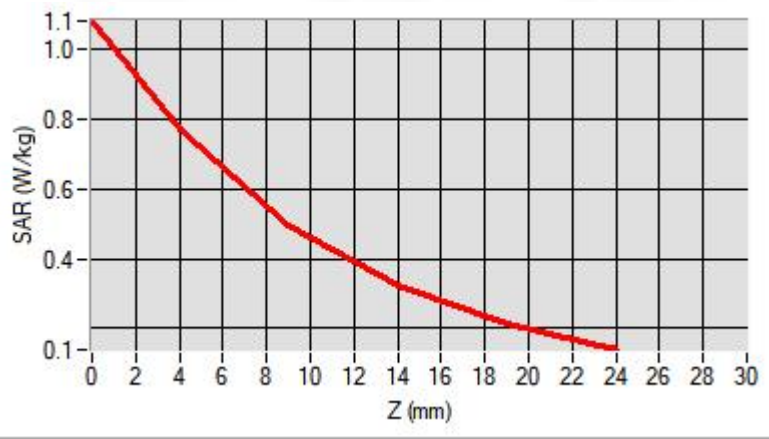
Maximum location: X=16.00, Y=-40.00 ; SAR Peak: 1.08 W/kg

**D. SAR 1g & 10g**

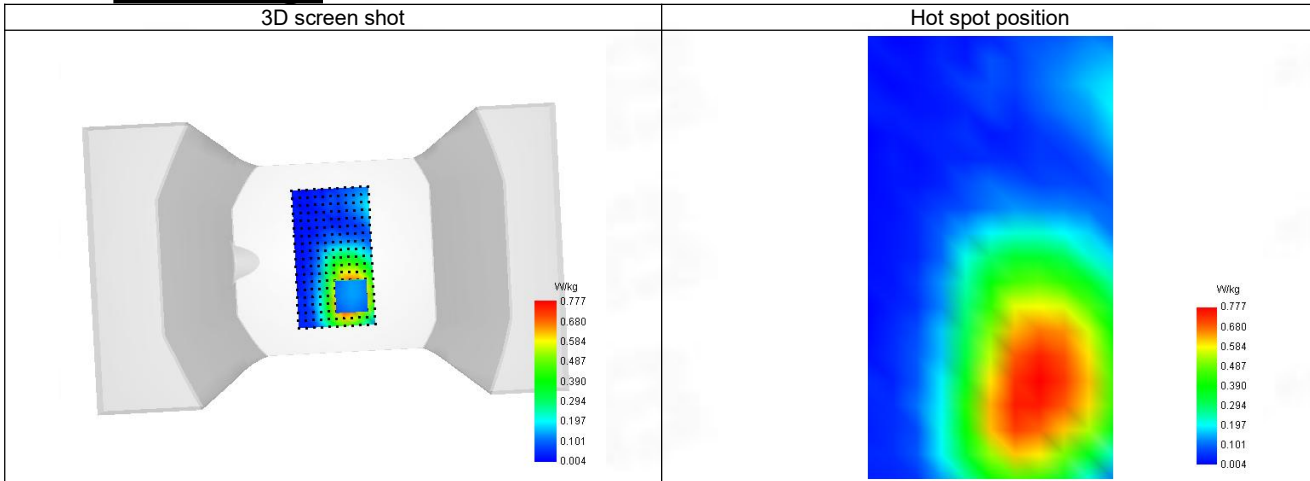
SAR 10g (W/Kg)	0.481
SAR 1g (W/Kg)	0.713
Variation (%)	4.750
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.083	0.770	0.498	0.324	0.215



### F. 3D Image





13-Head with front position in dist. 0mm on Channel 20300 in LTE band 4

**SAR Measurement at LTE band 4 (Cheek, Right)**

Date of measurement: 17/11/2023

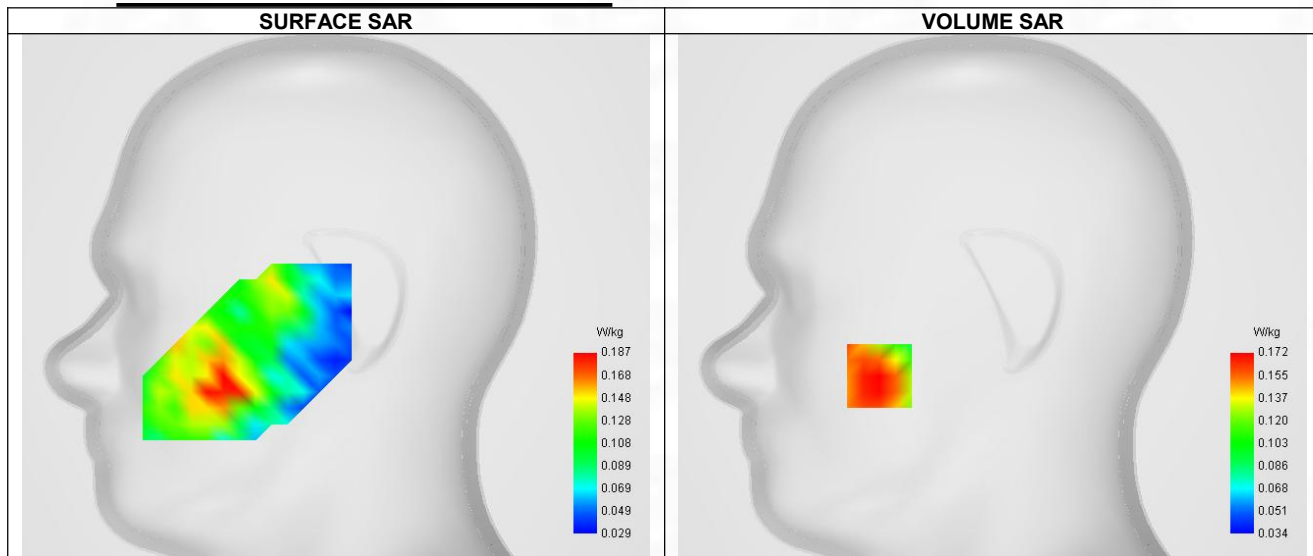
**A. Experimental conditions.**

Probe	SN 04/22 EPGO365
ConvF	1.96
Area Scan	sam_direct droit2 surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Channels	Higher (20300)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1745.090
Relative permittivity (real part)	41.628
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

**C. SAR Surface and Volume**



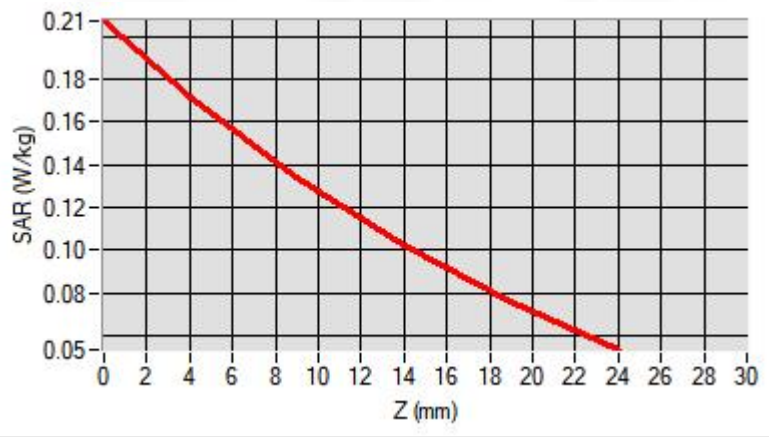
Maximum location: X=-56.00, Y=-40.00 ; SAR Peak: 0.22 W/kg

**D. SAR 1g & 10g**

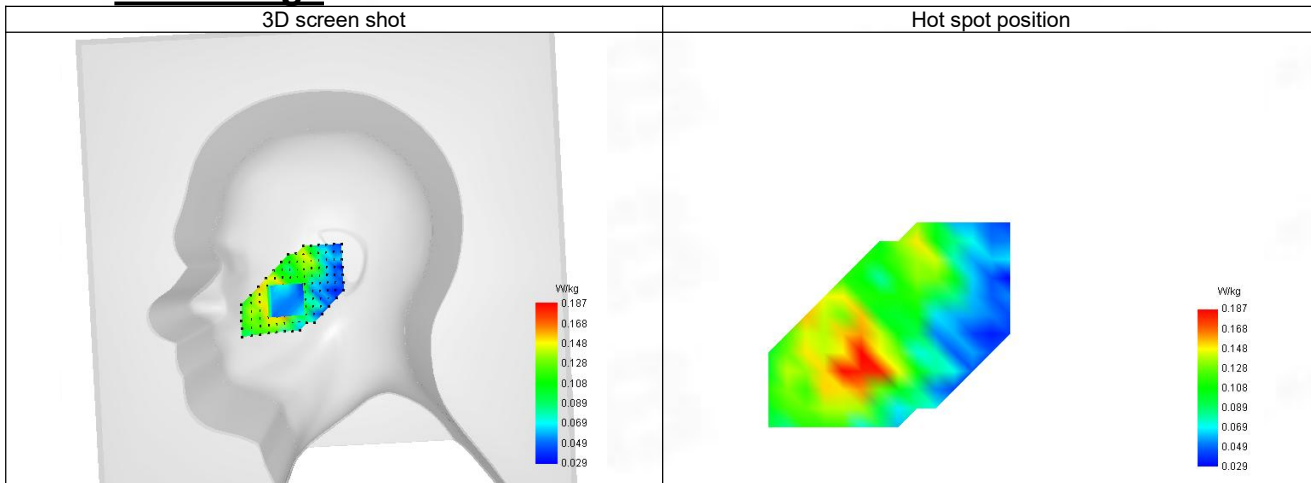
SAR 10g (W/Kg)	0.133
SAR 1g (W/Kg)	0.187
Variation (%)	-2.920
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.207	0.172	0.134	0.102	0.076



### F. 3D Image



**14-Body with back position in dist. 10mm on Channel 20300 in LTE band 4**

**SAR Measurement at LTE band 4 (Body, Validation Plane)**

Date of measurement: 17/11/2023

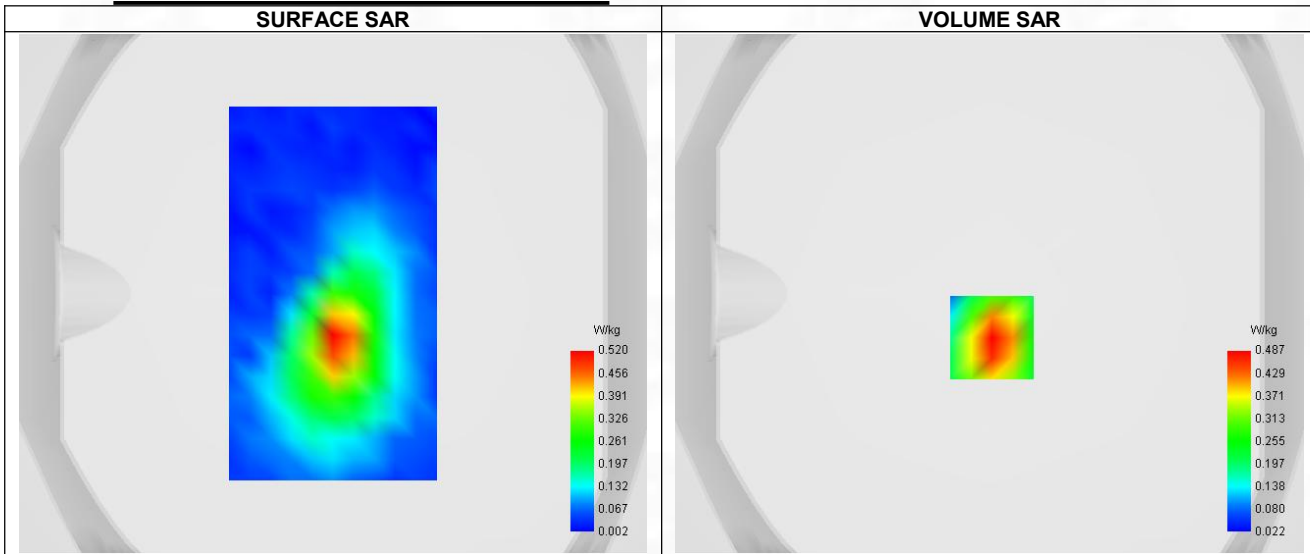
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels	Higher (20300)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1745.090
Relative permittivity (real part)	41.628
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

**C. SAR Surface and Volume**



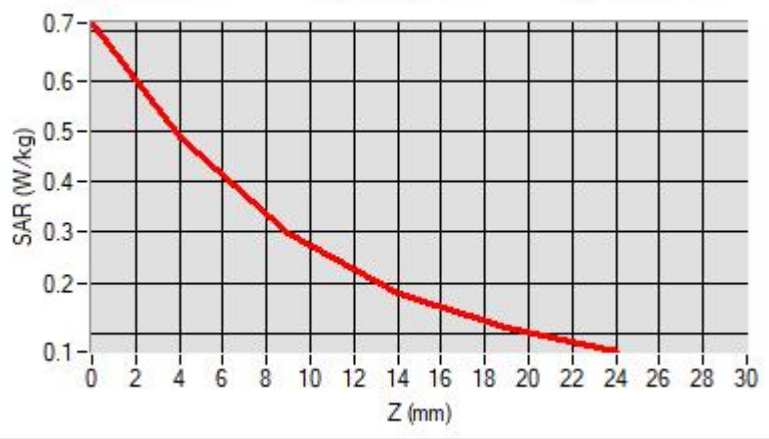
Maximum location: X=1.00, Y=-17.00 ; SAR Peak: 0.72 W/kg

**D. SAR 1g & 10g**

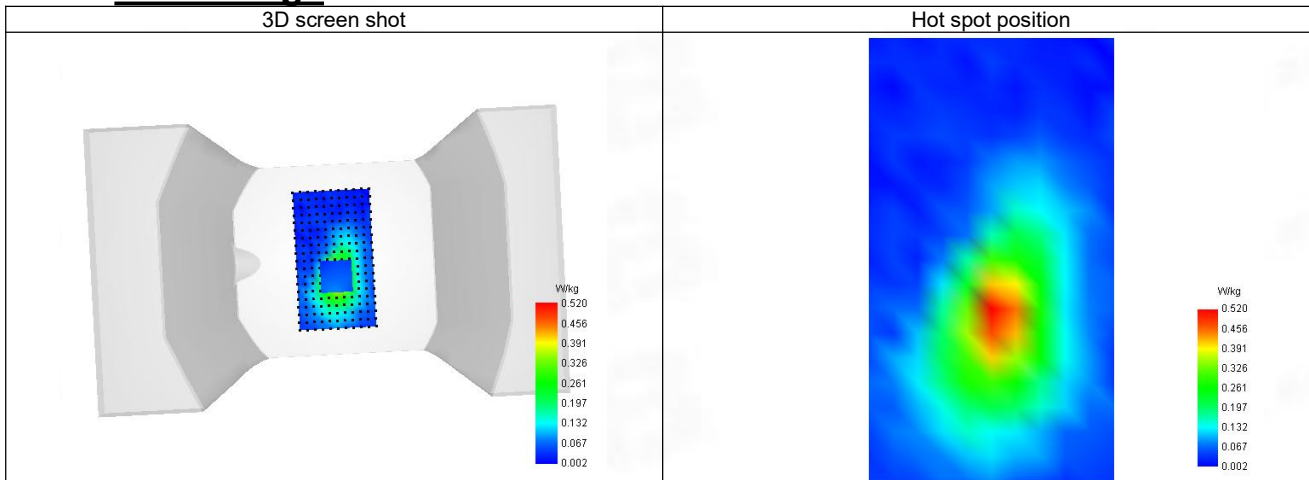
SAR 10g (W/Kg)	0.265
SAR 1g (W/Kg)	0.495
Variation (%)	-1.610
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.714	0.487	0.296	0.179	0.109



### F. 3D Image



**15-Head with front position in dist. 0mm on Channel 20450 in LTE band 5**

**SAR Measurement at LTE band 5 (Cheek, Right)**

Date of measurement: 17/11/2023

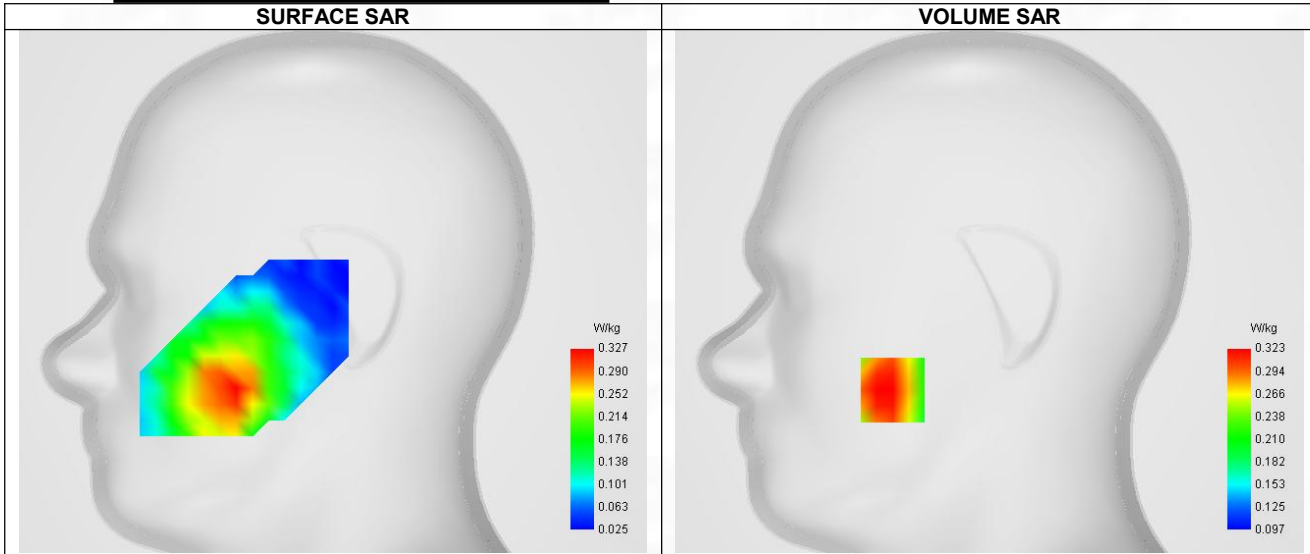
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Channels	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

**B. Permittivity**

Frequency (MHz)	829.090
Relative permittivity (real part)	43.275
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

**C. SAR Surface and Volume**



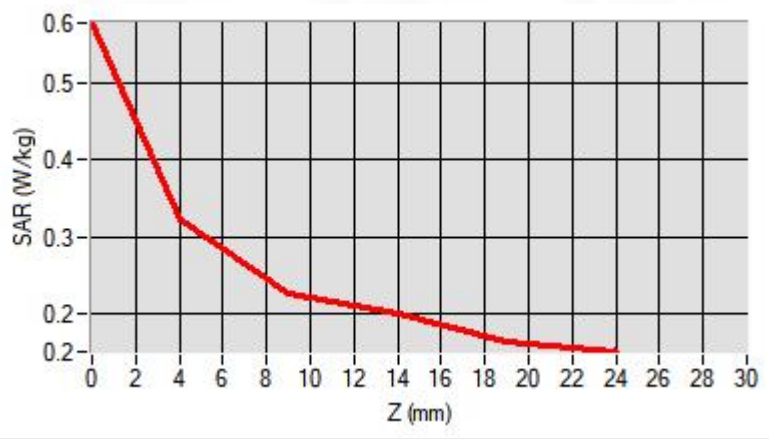
Maximum location: X=-48.00, Y=-49.00 ; SAR Peak: 0.42 W/kg

**D. SAR 1g & 10g**

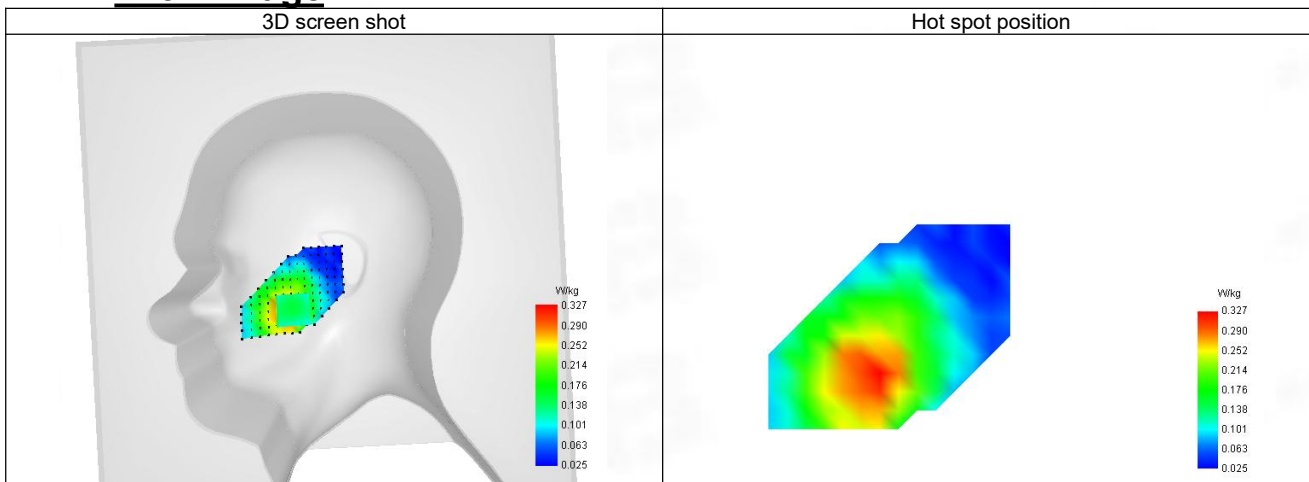
SAR 10g (W/Kg)	0.252
SAR 1g (W/Kg)	0.338
Variation (%)	4.980
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.577	0.323	0.226	0.200	0.164



### F. 3D Image



**16-Body with back position in dist. 10mm on Channel 20450 in LTE band 5**

**SAR Measurement at LTE band 5 (Body, Validation Plane)**

Date of measurement: 17/11/2023

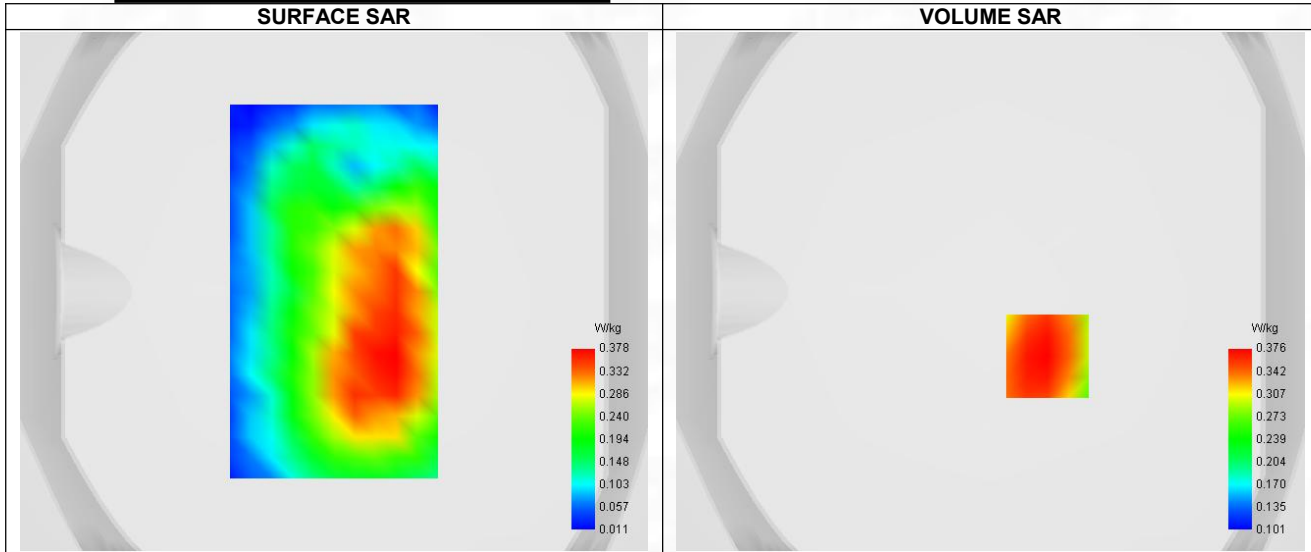
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

**B. Permittivity**

Frequency (MHz)	829.090
Relative permittivity (real part)	43.275
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

**C. SAR Surface and Volume**



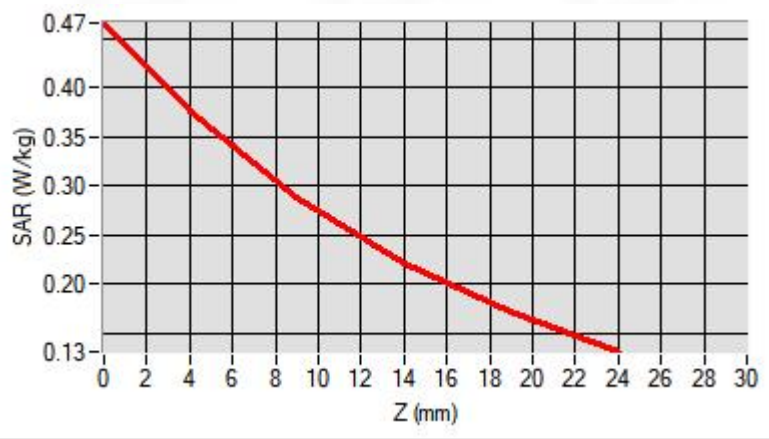
Maximum location: X=22.00, Y=-25.00 ; SAR Peak: 0.47 W/kg

**D. SAR 1g & 10g**

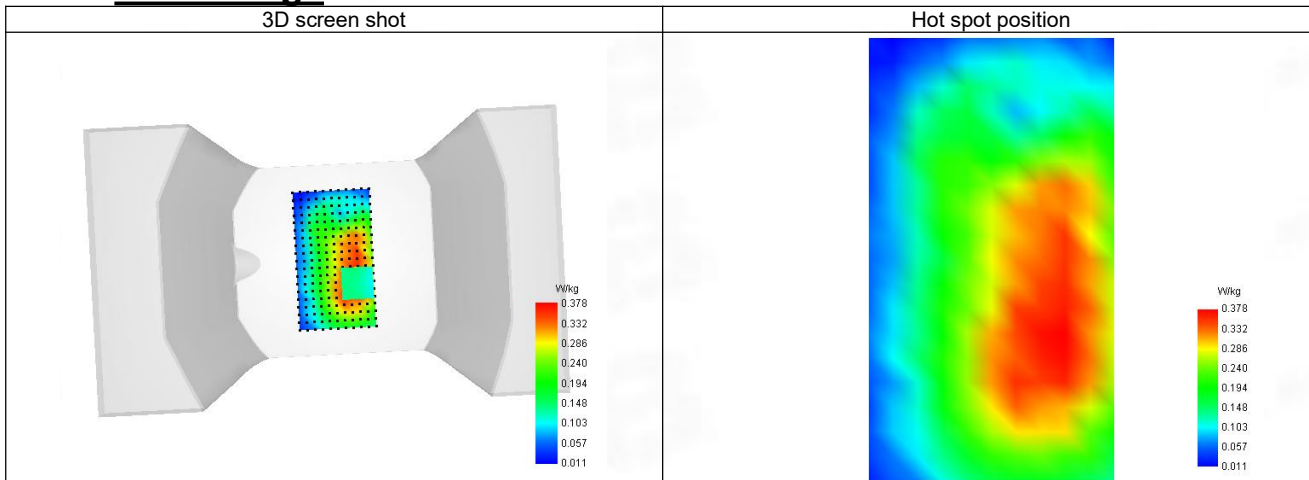
SAR 10g (W/Kg)	0.286
SAR 1g (W/Kg)	0.389
Variation (%)	0.420
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.466	0.376	0.288	0.222	0.172



### F. 3D Image





**17-Head with front position in dist. 0mm on Channel 23060 in LTE band 12**

**SAR Measurement at LTE band 12 (Cheek, Right)**

Date of measurement: 17/11/2023

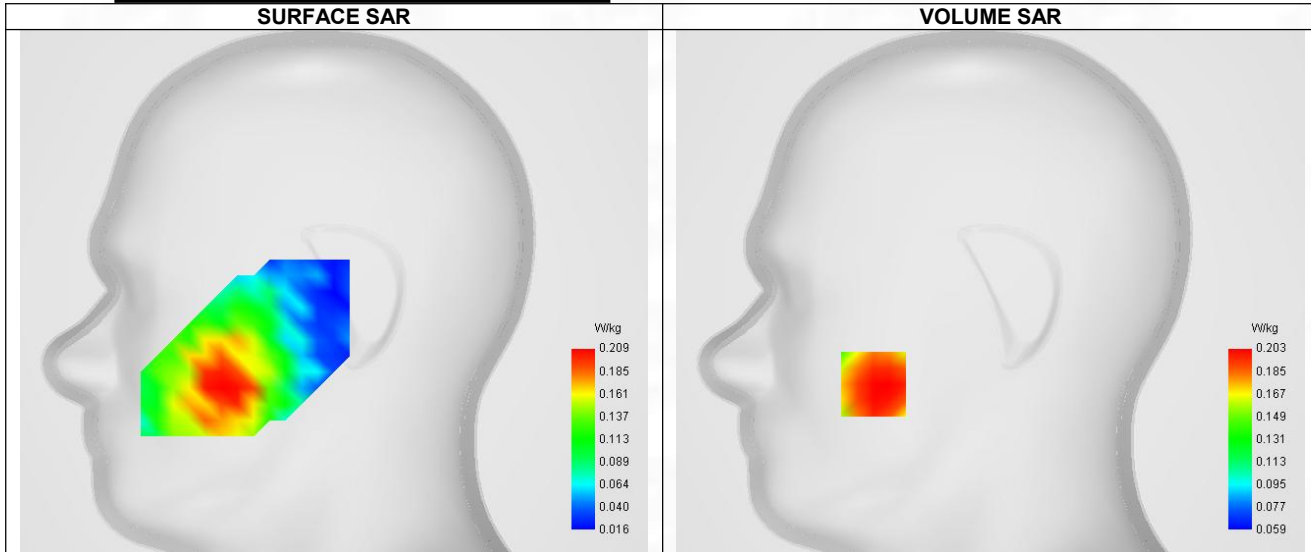
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 12
Channels	Lower (23060)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

**B. Permittivity**

Frequency (MHz)	699.590
Relative permittivity (real part)	43.824
Relative permittivity (imaginary part)	22.628
Conductivity (S/m)	0.854

**C. SAR Surface and Volume**



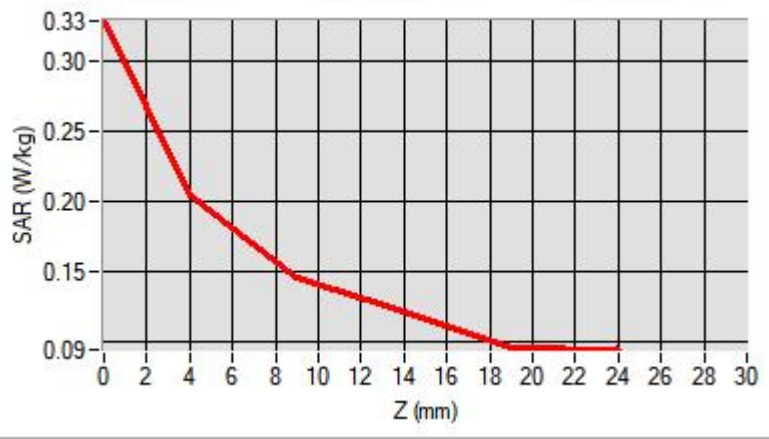
Maximum location: X=-58.00, Y=-46.00 ; SAR Peak: 0.27 W/kg

**D. SAR 1g & 10g**

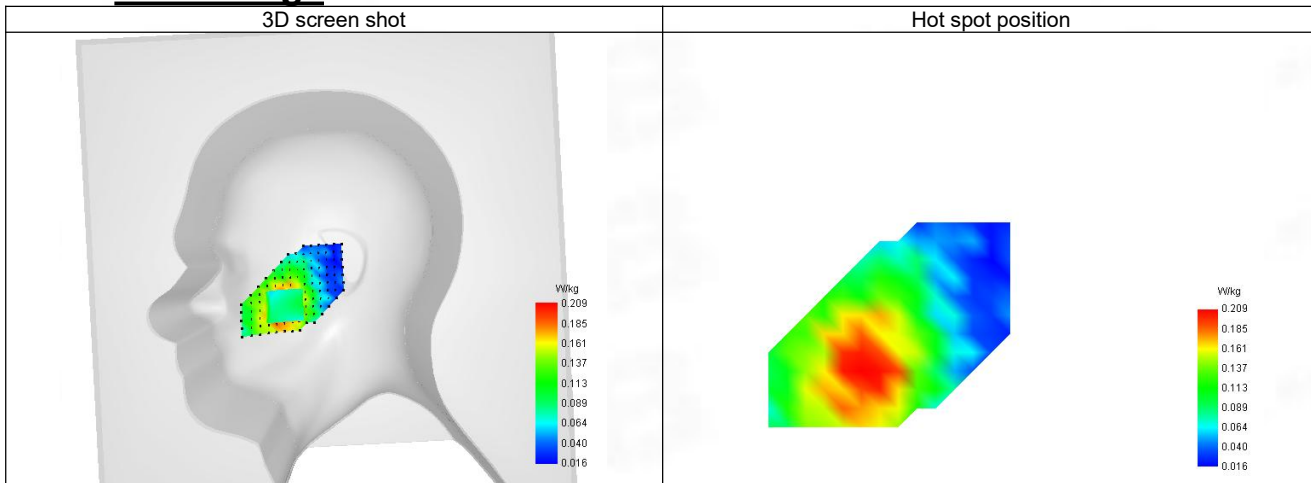
SAR 10g (W/Kg)	0.160
SAR 1g (W/Kg)	0.210
Variation (%)	-0.070
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.328	0.203	0.146	0.121	0.096



### F. 3D Image



**18-Body with back position in dist. 10mm on Channel 23060 in LTE band 12**

**SAR Measurement at LTE band 12 (Body, Validation Plane)**

Date of measurement: 17/11/2023

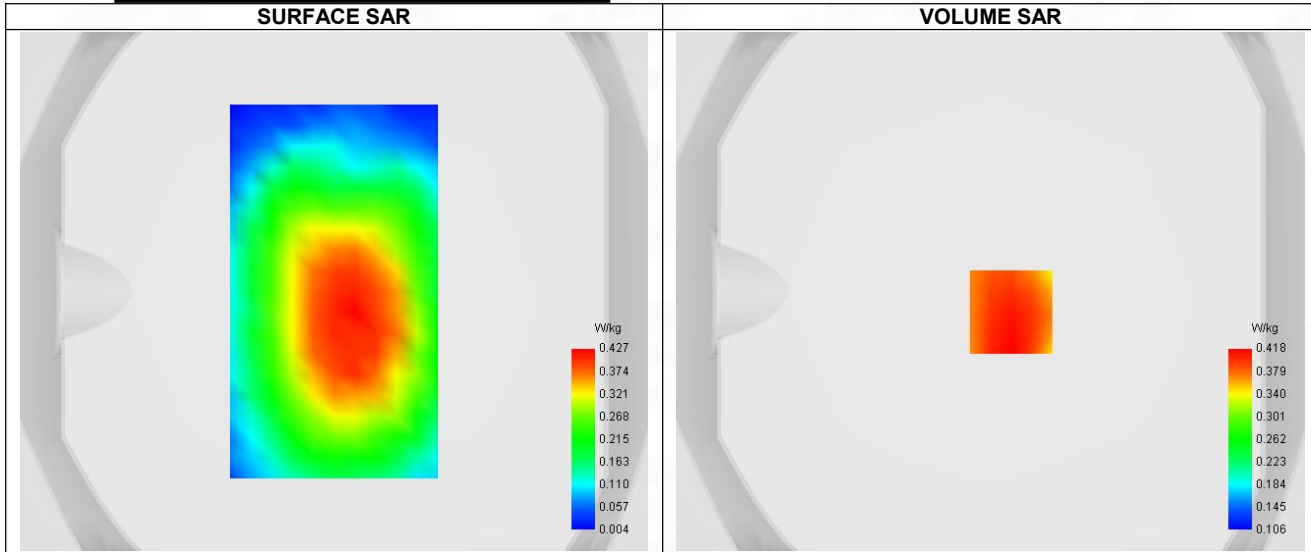
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels	Lower (23060)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

**B. Permittivity**

Frequency (MHz)	699.590
Relative permittivity (real part)	43.824
Relative permittivity (imaginary part)	22.628
Conductivity (S/m)	0.854

**C. SAR Surface and Volume**



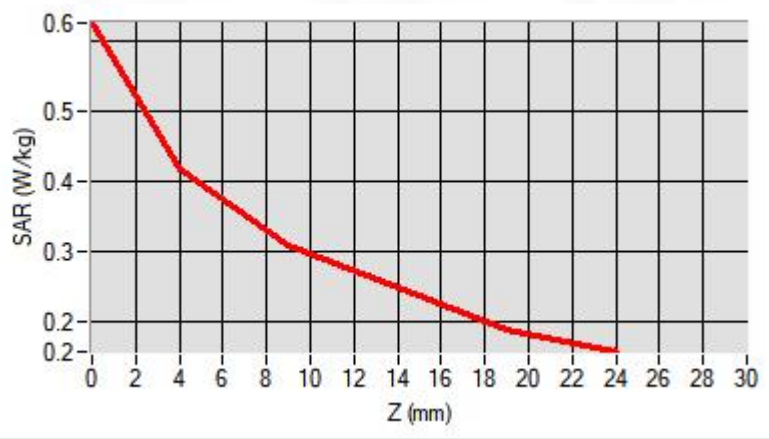
Maximum location: X=8.00, Y=-8.00 ; SAR Peak: 0.52 W/kg

**D. SAR 1g & 10g**

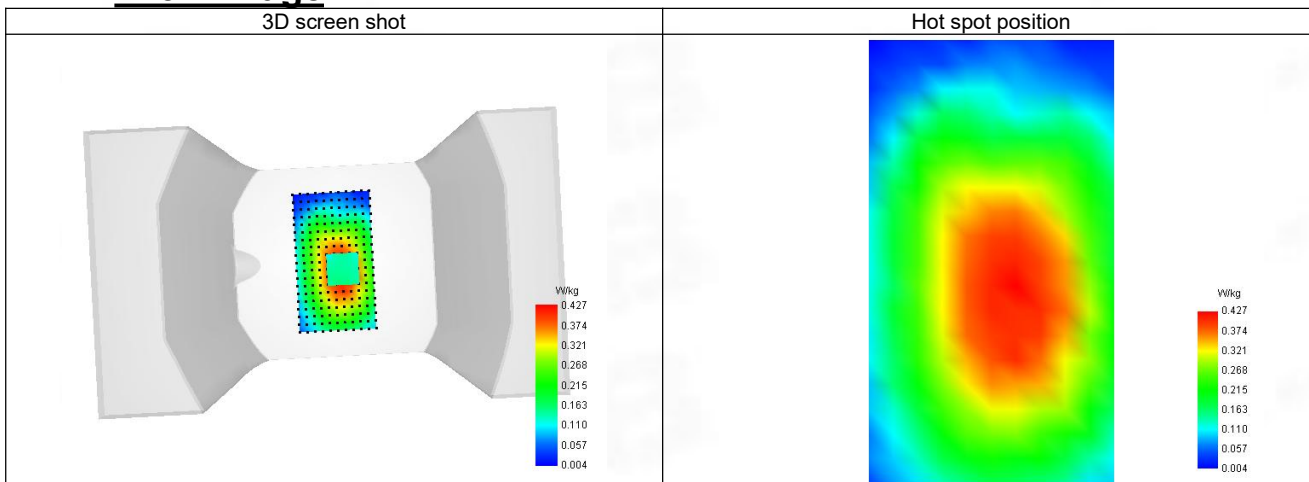
SAR 10g (W/Kg)	0.317
SAR 1g (W/Kg)	0.423
Variation (%)	0.940
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.627	0.418	0.307	0.248	0.189



### F. 3D Image



**19-Head with front position in dist. 0mm on Channel 23230 in LTE band 13**

**SAR Measurement at LTE band 13 (Cheek, Right)**

Date of measurement: 17/11/2023

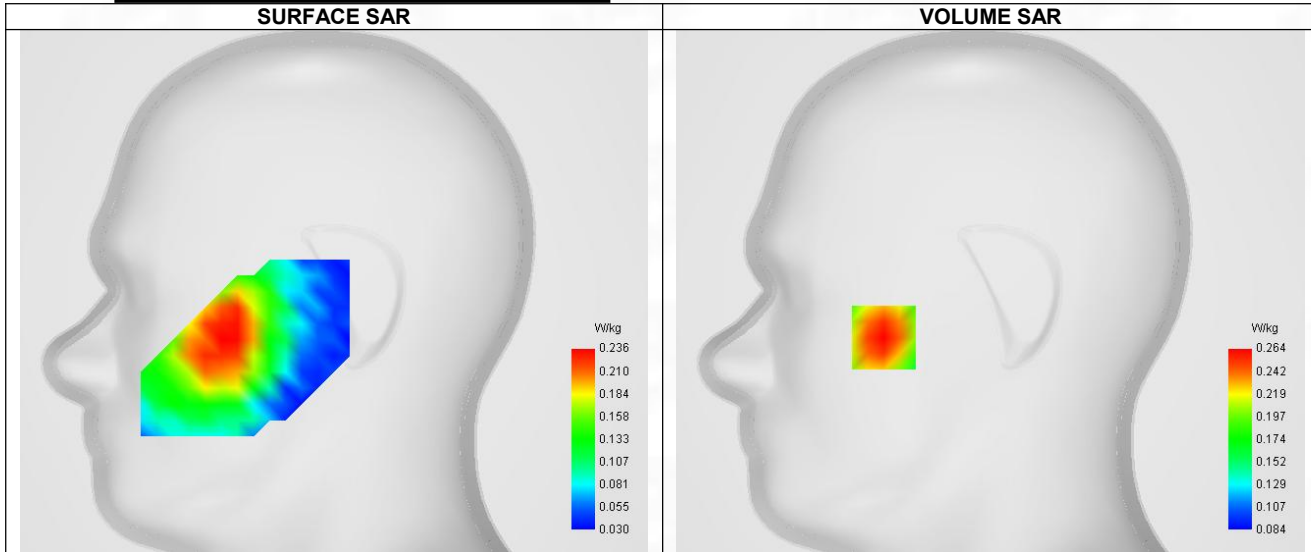
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

**B. Permittivity**

Frequency (MHz)	782.090
Relative permittivity (real part)	43.474
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

**C. SAR Surface and Volume**



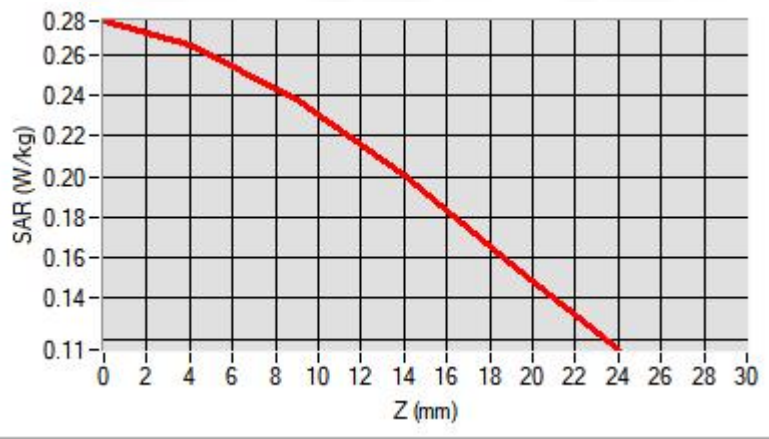
Maximum location: X=-53.00, Y=-23.00 ; SAR Peak: 0.30 W/kg

**D. SAR 1g & 10g**

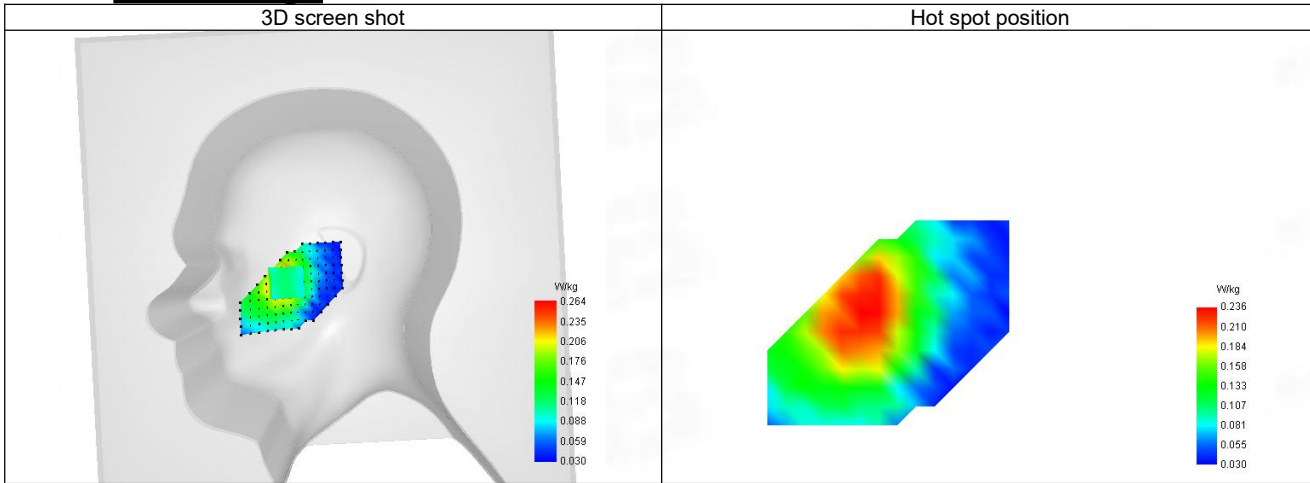
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.243
Variation (%)	-1.510
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.276	0.264	0.238	0.200	0.157



### F. 3D Image



**20-Body with back position in dist. 10mm on Channel 23230 in LTE band 13**

**SAR Measurement at LTE band 13 (Body, Validation Plane)**

Date of measurement: 17/11/2023

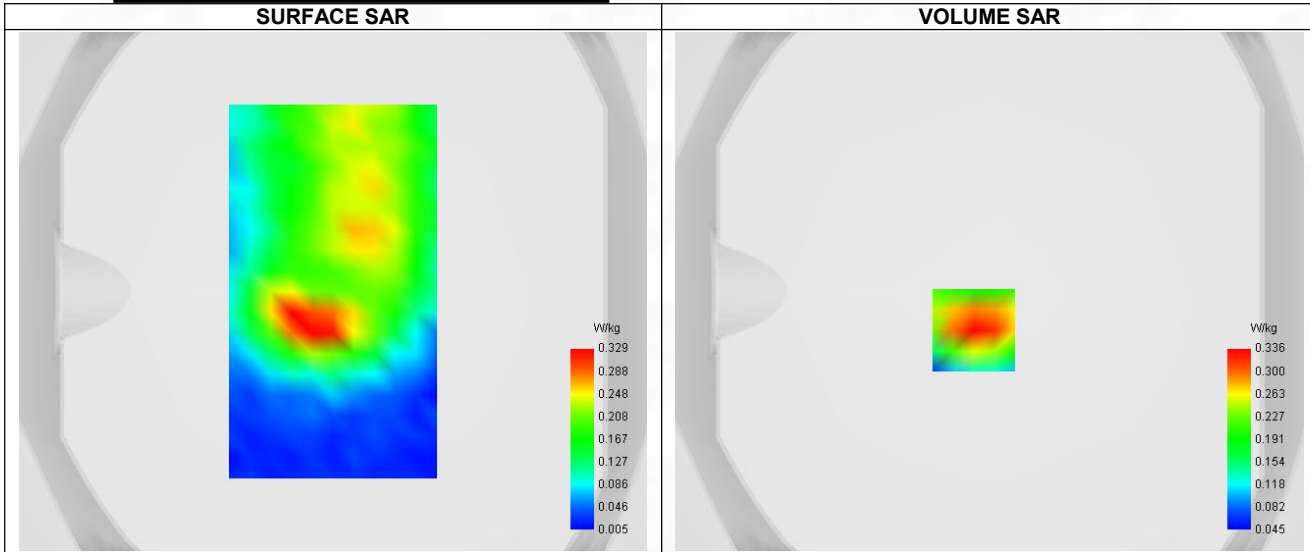
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

**B. Permittivity**

Frequency (MHz)	782.090
Relative permittivity (real part)	43.474
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

**C. SAR Surface and Volume**



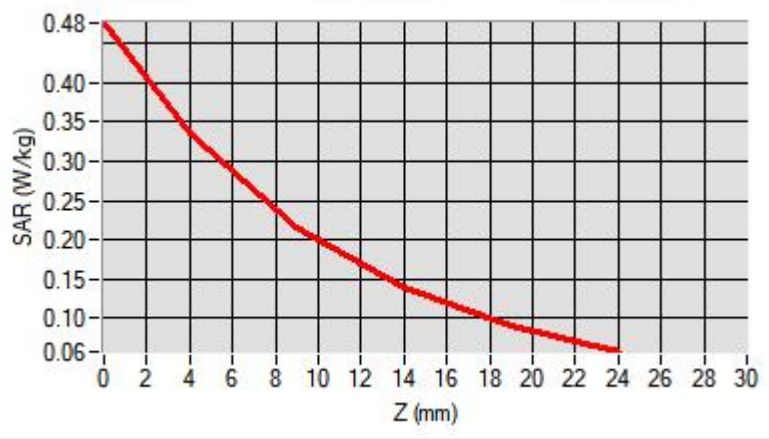
Maximum location: X=-6.00, Y=-15.00 ; SAR Peak: 0.48 W/kg

**D. SAR 1g & 10g**

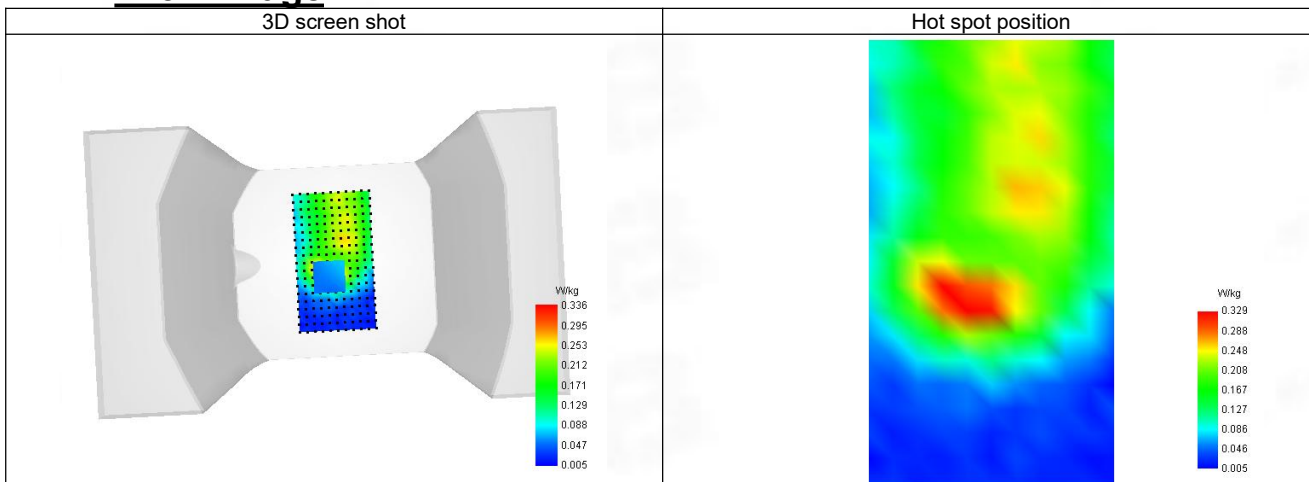
SAR 10g (W/Kg)	0.192
SAR 1g (W/Kg)	0.330
Variation (%)	2.601
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.476	0.336	0.215	0.138	0.090



### F. 3D Image





**21-Head with front position in dist. 0mm on Channel 26590 in LTE band 25**

**SAR Measurement at LTE band 25 (Cheek, Right)**

Date of measurement: 17/11/2023

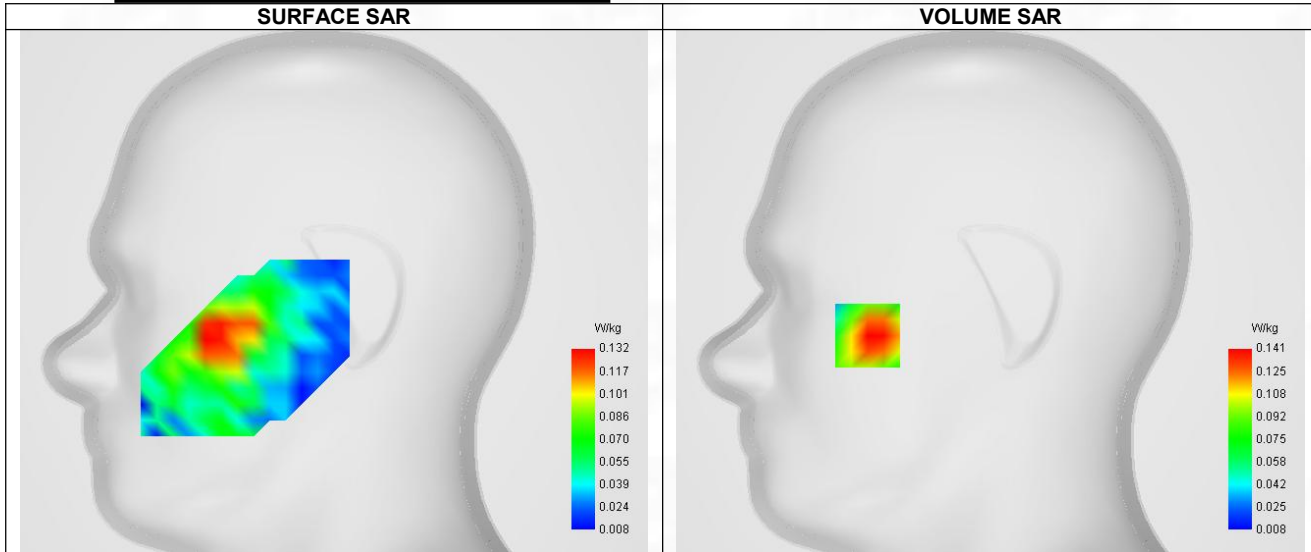
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 25
Channels	Higher (26590)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1905.090
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.414

**C. SAR Surface and Volume**



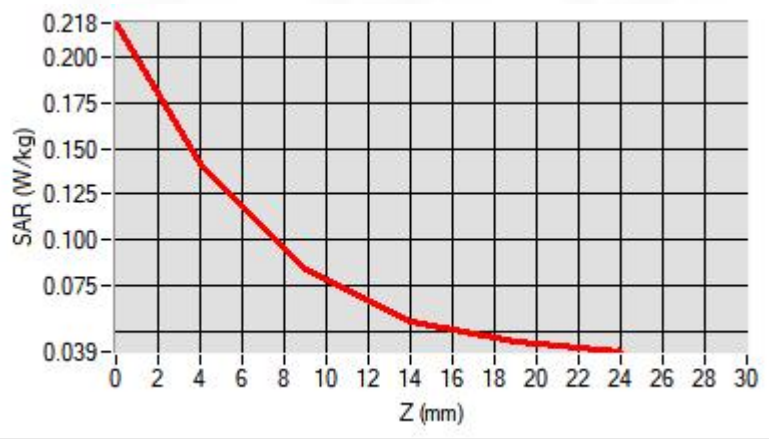
Maximum location: X=-61.00, Y=-22.00 ; SAR Peak: 0.22 W/kg

**D. SAR 1g & 10g**

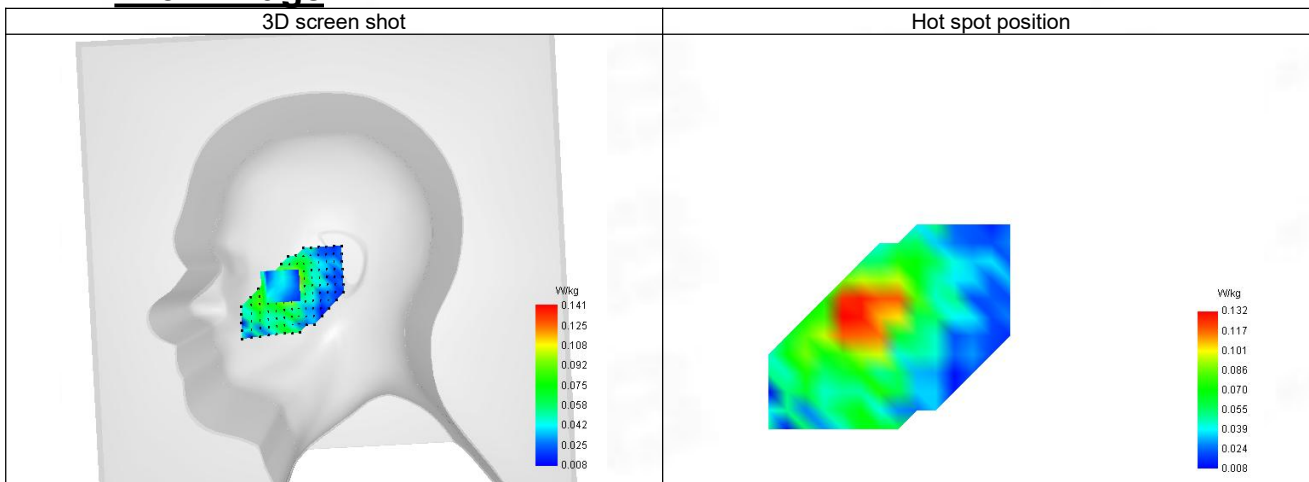
SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.145
Variation (%)	1.308
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.218	0.141	0.084	0.056	0.044



### F. 3D Image



**22-Body with back position in dist. 10mm on Channel 26590 in LTE band 25**

**SAR Measurement at LTE band 25 (Body, Validation Plane)**

Date of measurement: 17/11/2023

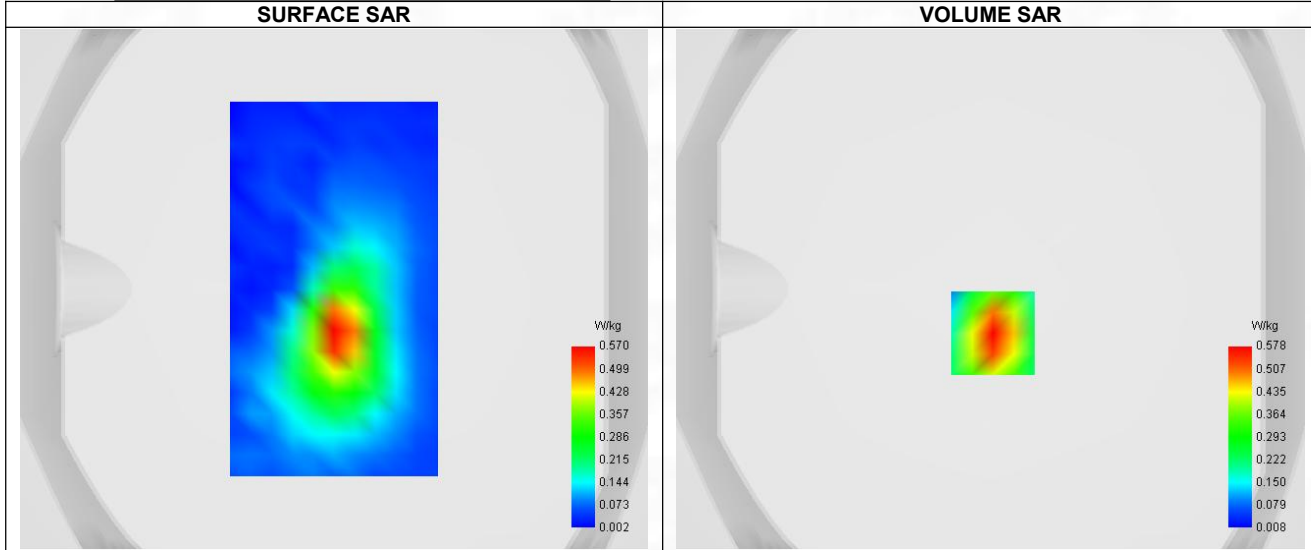
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.24
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 25
Channels	Higher (26590)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1905.090
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.414

**C. SAR Surface and Volume**



Maximum location: X=1.00, Y=-17.00 ; SAR Peak: 0.88 W/kg

**D. SAR 1g & 10g**

SAR 10g (W/Kg)	0.297
SAR 1g (W/Kg)	0.578
Variation (%)	1.180
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

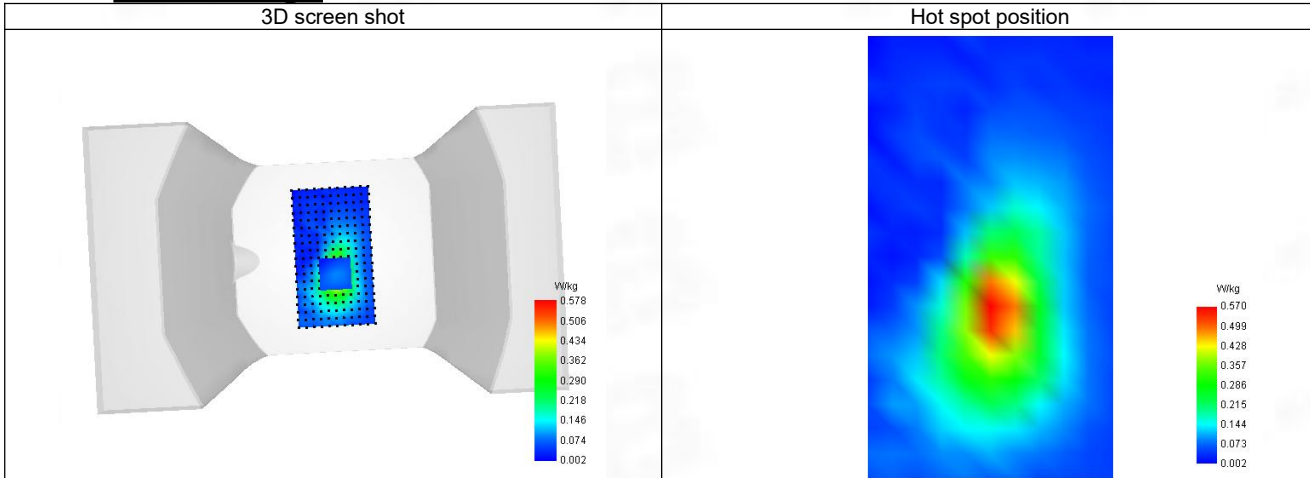
**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.883	0.578	0.337	0.204	0.135
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### F. 3D Image



**23-Head with front position in dist. 0mm on Channel 26965 in LTE band 26**

**SAR Measurement at LTE band 26 (Cheek, Right)**

Date of measurement: 17/11/2023

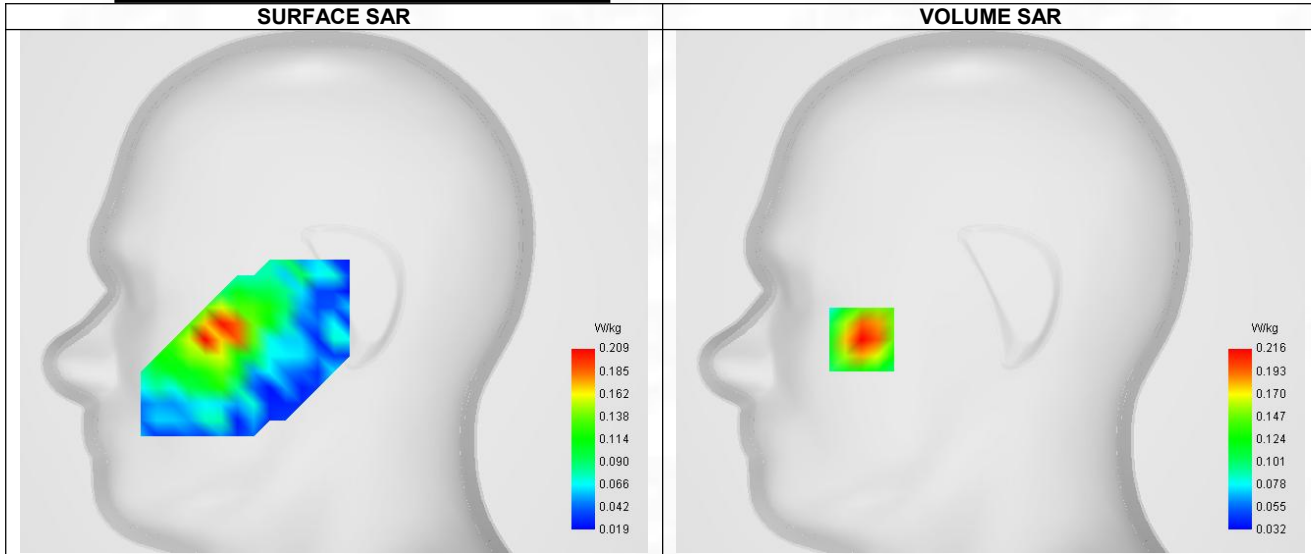
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 26
Channels	Higher (26965)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

**B. Permittivity**

Frequency (MHz)	841.680
Relative permittivity (real part)	43.238
Relative permittivity (imaginary part)	19.453
Conductivity (S/m)	0.873

**C. SAR Surface and Volume**



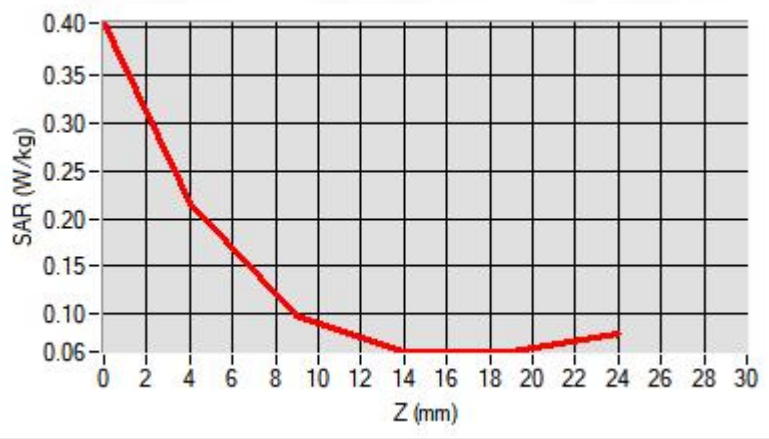
Maximum location: X=-64.00, Y=-24.00 ; SAR Peak: 0.40 W/kg

**D. SAR 1g & 10g**

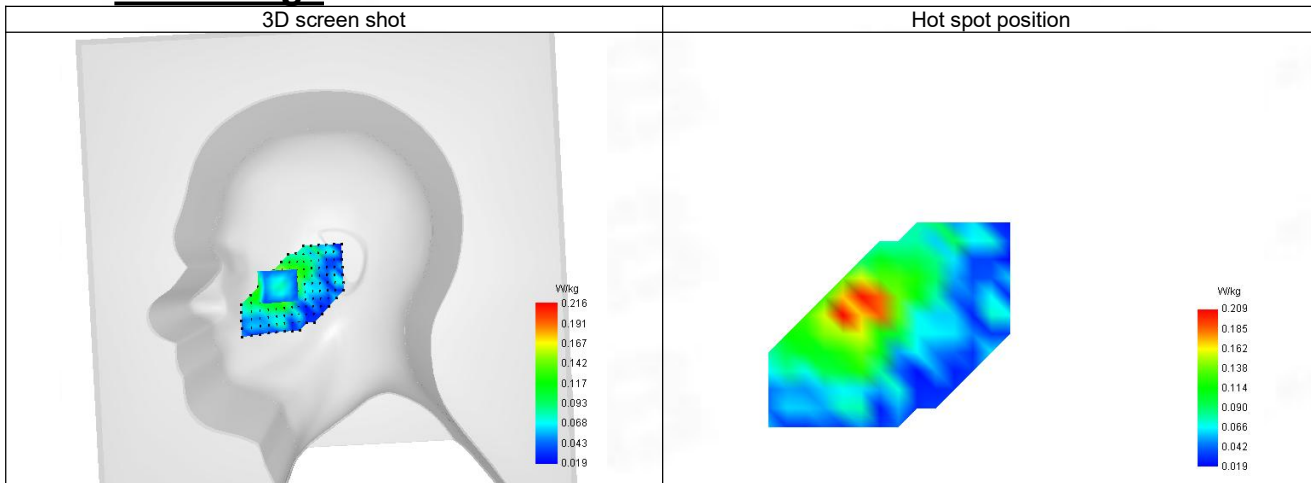
SAR 10g (W/Kg)	0.130
SAR 1g (W/Kg)	0.221
Variation (%)	-1.930
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.404	0.216	0.100	0.061	0.062



### F. 3D Image



**24-Body with back position in dist. 10mm on Channel 26965 in LTE band 26**

**SAR Measurement at LTE band 26 (Body, Validation Plane)**

Date of measurement: 17/11/2023

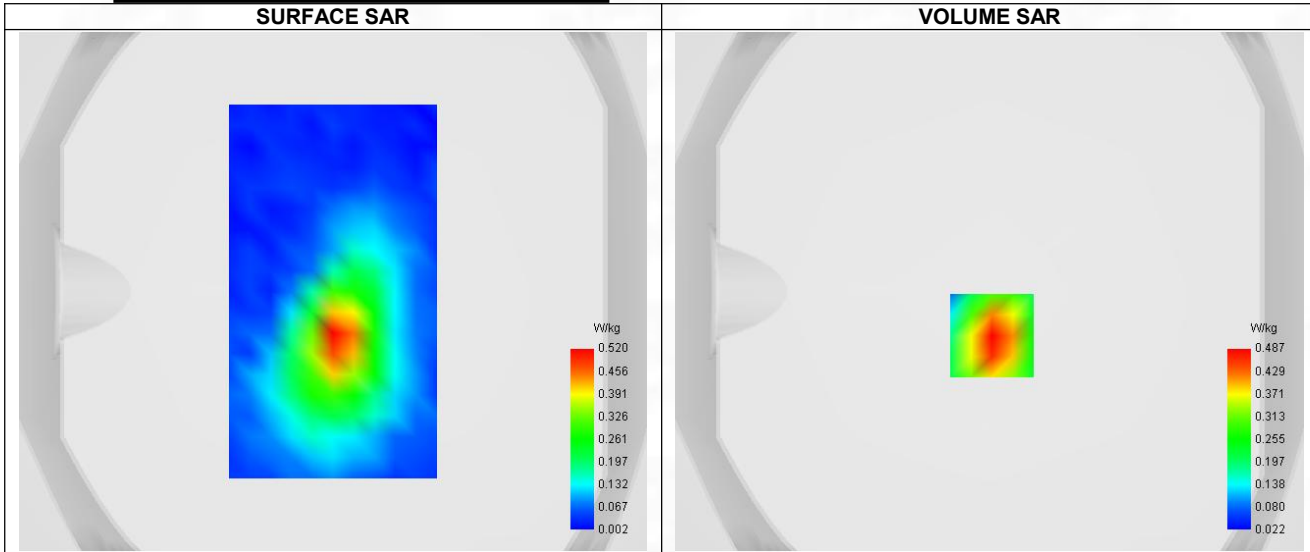
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.68
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 26
Channels	Higher (26965)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

**B. Permittivity**

Frequency (MHz)	841.680
Relative permittivity (real part)	43.238
Relative permittivity (imaginary part)	19.453
Conductivity (S/m)	0.873

**C. SAR Surface and Volume**



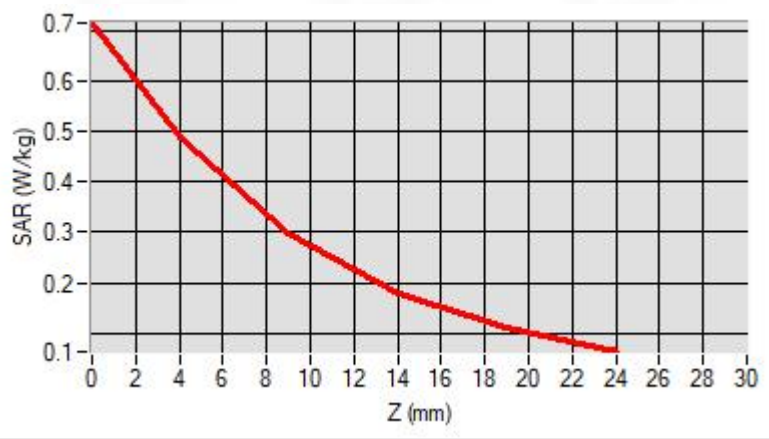
Maximum location: X=1.00, Y=-17.00 ; SAR Peak: 0.72 W/kg

**D. SAR 1g & 10g**

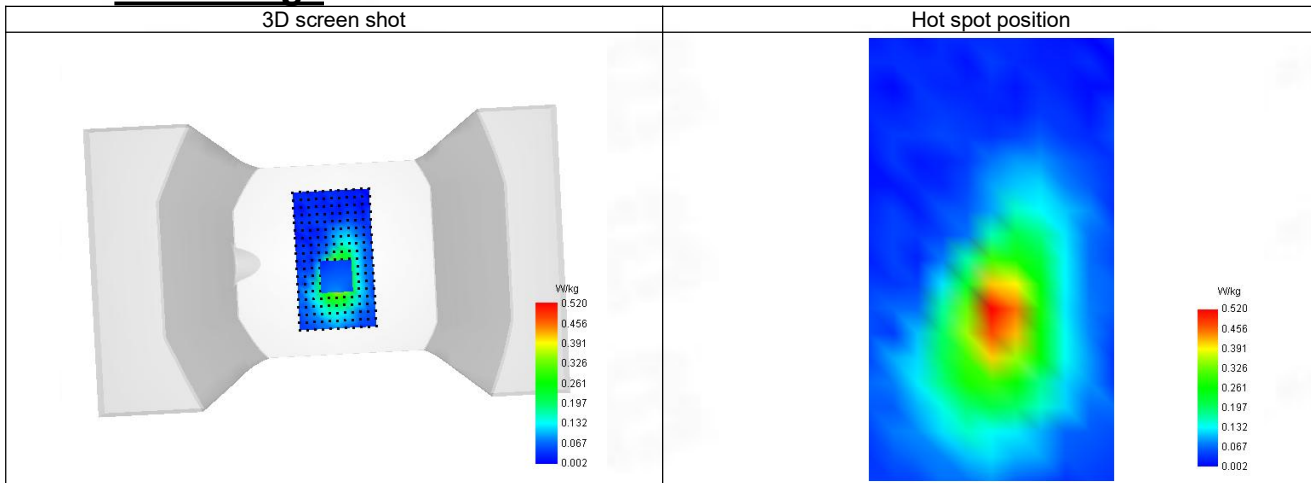
SAR 10g (W/Kg)	0.263
SAR 1g (W/Kg)	0.507
Variation (%)	-2.010
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.714	0.487	0.296	0.179	0.109



### F. 3D Image





**25-Head with front position in dist. 0mm on Channel 41490 in LTE band 41**

**SAR Measurement at LTE band 41 (Cheek, Right)**

Date of measurement: 20/11/2023

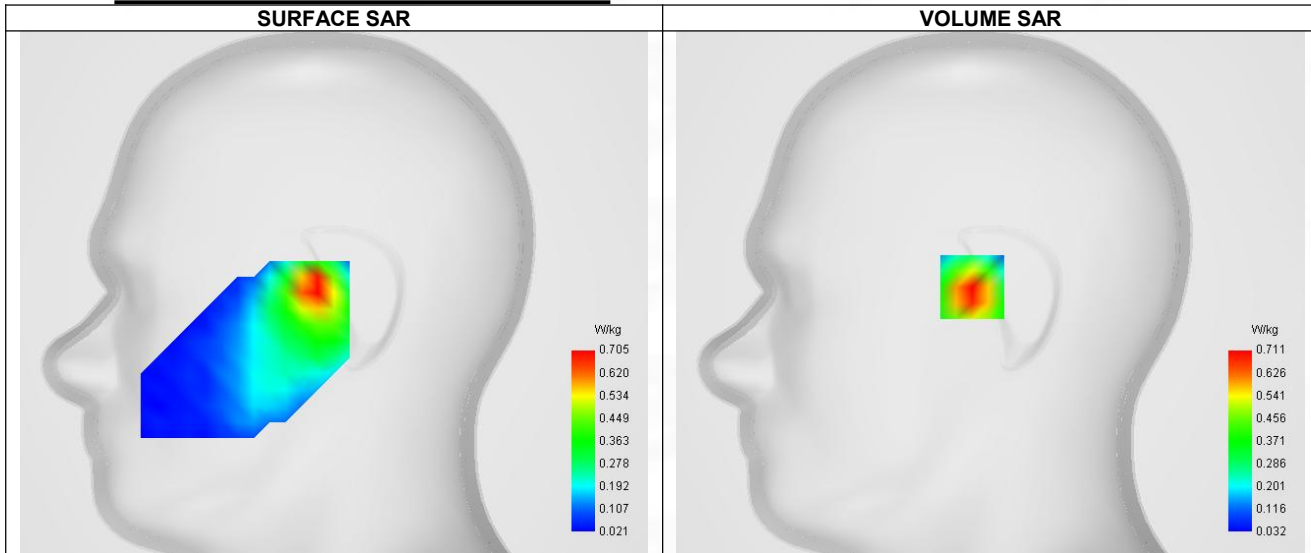
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

**B. Permittivity**

Frequency (MHz)	2680.090
Relative permittivity (real part)	38.788
Relative permittivity (imaginary part)	12.800
Conductivity (S/m)	2.054

**C. SAR Surface and Volume**



Maximum location: X=-9.00, Y=3.00 ; SAR Peak: 1.09 W/kg

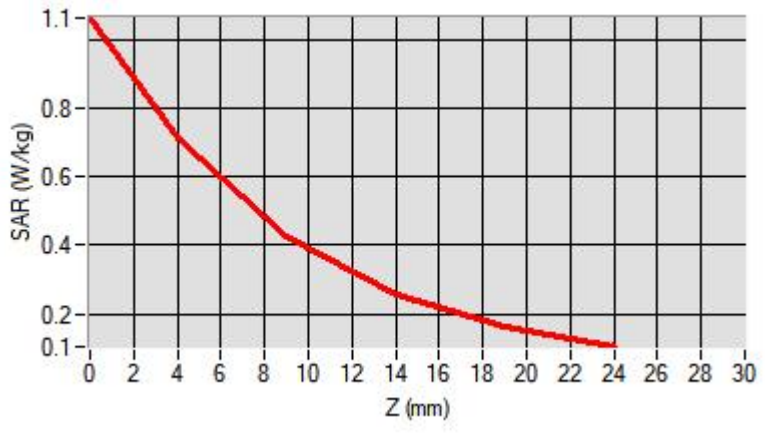
**D. SAR 1g & 10g**

SAR 10g (W/Kg)	0.386
SAR 1g (W/Kg)	0.632
Variation (%)	-3.480
Horizontal validation criteria: minimum distance (mm)	0.000000

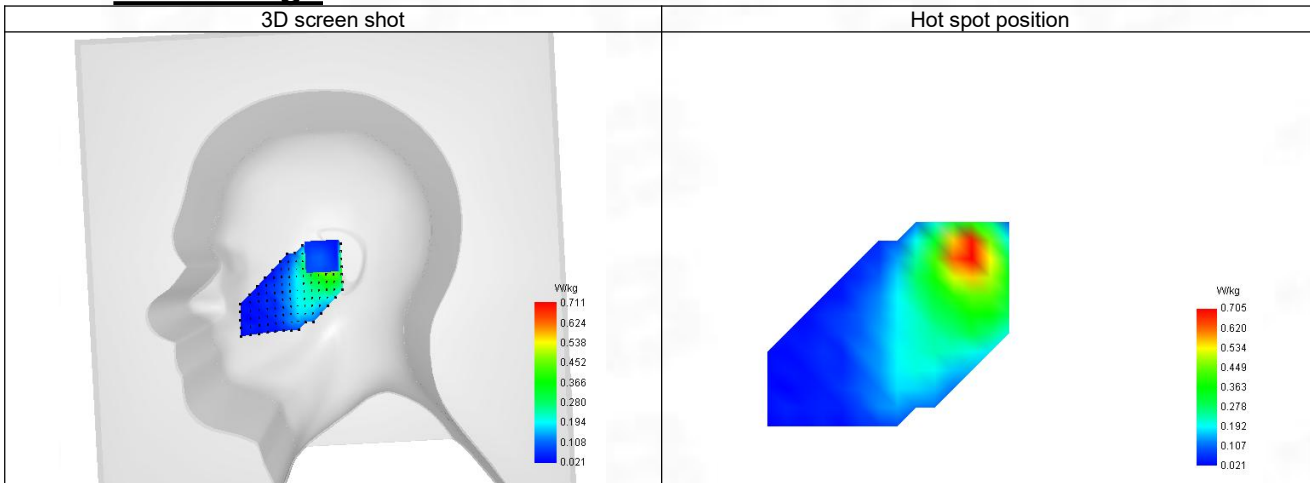
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000
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### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.062	0.711	0.425	0.258	0.164



### F. 3D Image



**26-Body with back position in dist. 10mm on Channel 41490 in LTE band 41**

**SAR Measurement at LTE band 41 (Body, Validation Plane)**

Date of measurement: 20/11/2023

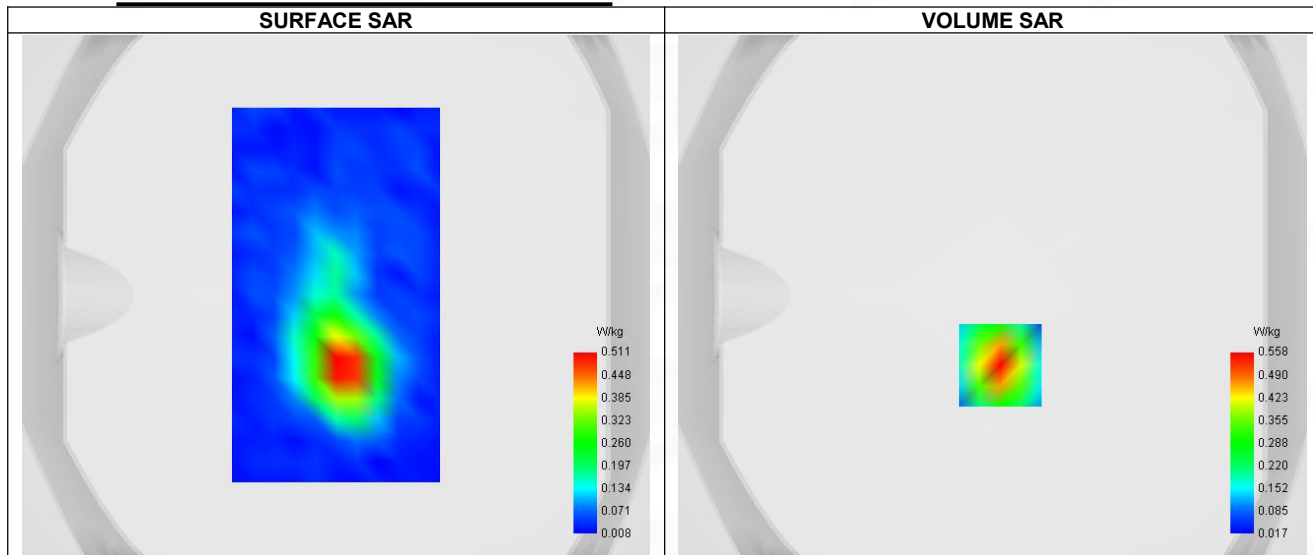
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 41
Channels	Higher (41490)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

**B. Permittivity**

Frequency (MHz)	2680.090
Relative permittivity (real part)	38.788
Relative permittivity (imaginary part)	12.800
Conductivity (S/m)	2.054

**C. SAR Surface and Volume**



Maximum location: X=3.00, Y=-27.00 ; SAR Peak: 0.91 W/kg

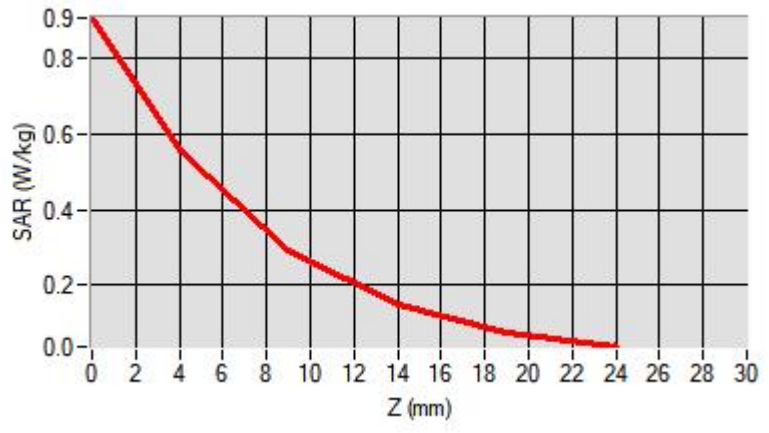
**D. SAR 1g & 10g**

SAR 10g (W/Kg)	0.254
SAR 1g (W/Kg)	0.528
Variation (%)	2.200
Horizontal validation criteria: minimum distance (mm)	0.000000

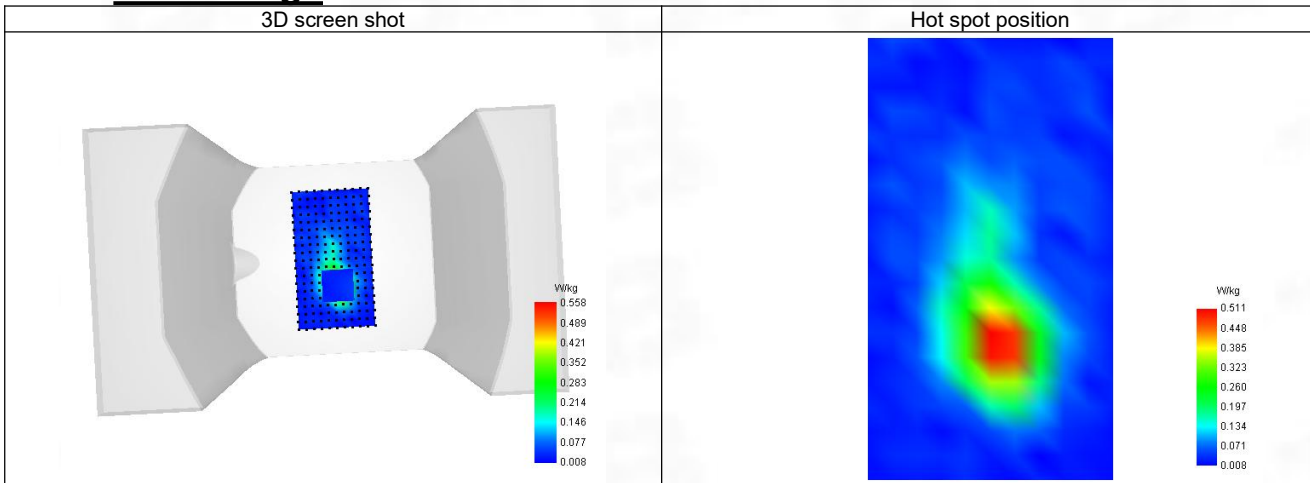
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000
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### E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.909	0.558	0.290	0.148	0.077



### F. 3D Image



**27-Head with front position in dist. 0mm on Channel 132572 in LTE band 66**

**SAR Measurement at LTE band 66 (Cheek, Right)**

Date of measurement: 17/11/2023

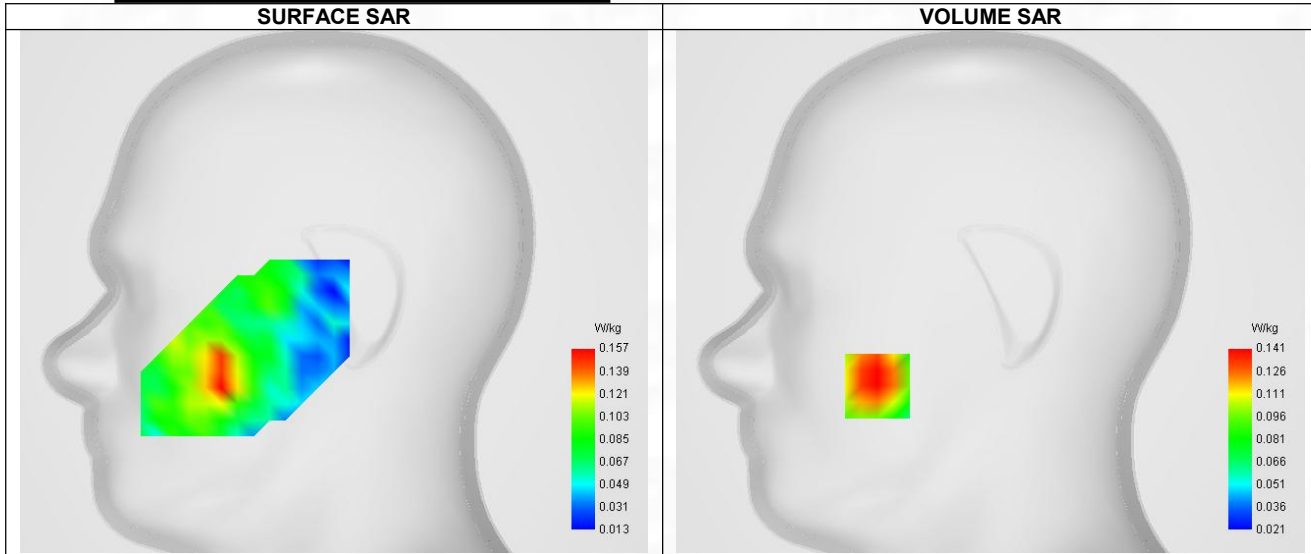
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.96
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 66
Channels	Higher (132572)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1770.090
Relative permittivity (real part)	41.583
Relative permittivity (imaginary part)	14.257
Conductivity (S/m)	1.355

**C. SAR Surface and Volume**



Maximum location: X=-56.00, Y=-47.00 ; SAR Peak: 0.18 W/kg

**D. SAR 1g & 10g**

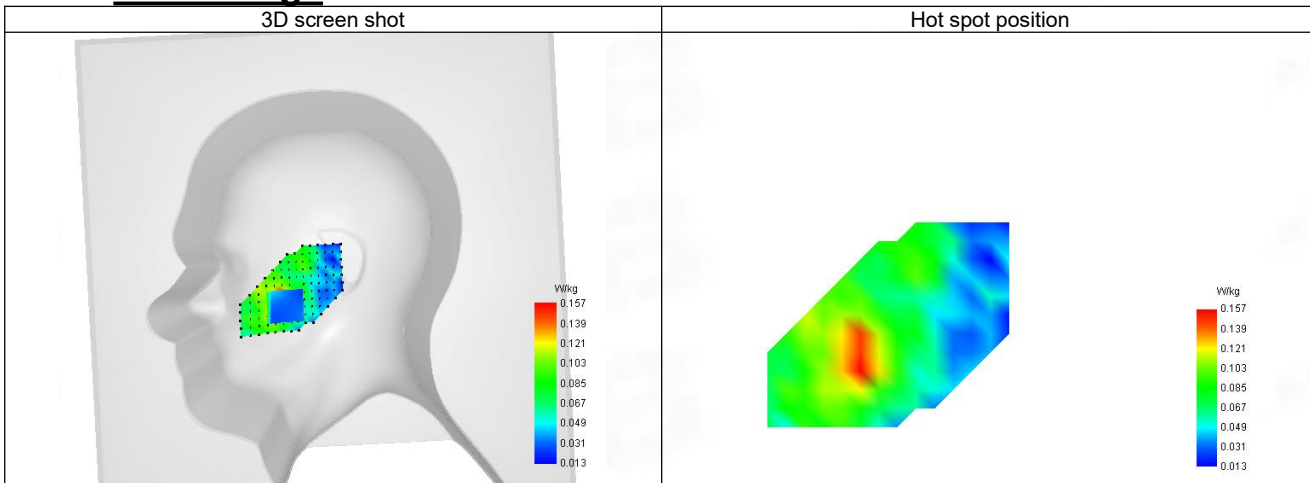
SAR 10g (W/Kg)	0.095
SAR 1g (W/Kg)	0.157
Variation (%)	-3.690
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.183	0.141	0.100	0.070	0.047



### F. 3D Image



28-Body with back position in dist. 10mm on Channel 132572 in LTE band 66

**SAR Measurement at LTE band 66 (Body, Validation Plane)**

Date of measurement: 17/11/2023

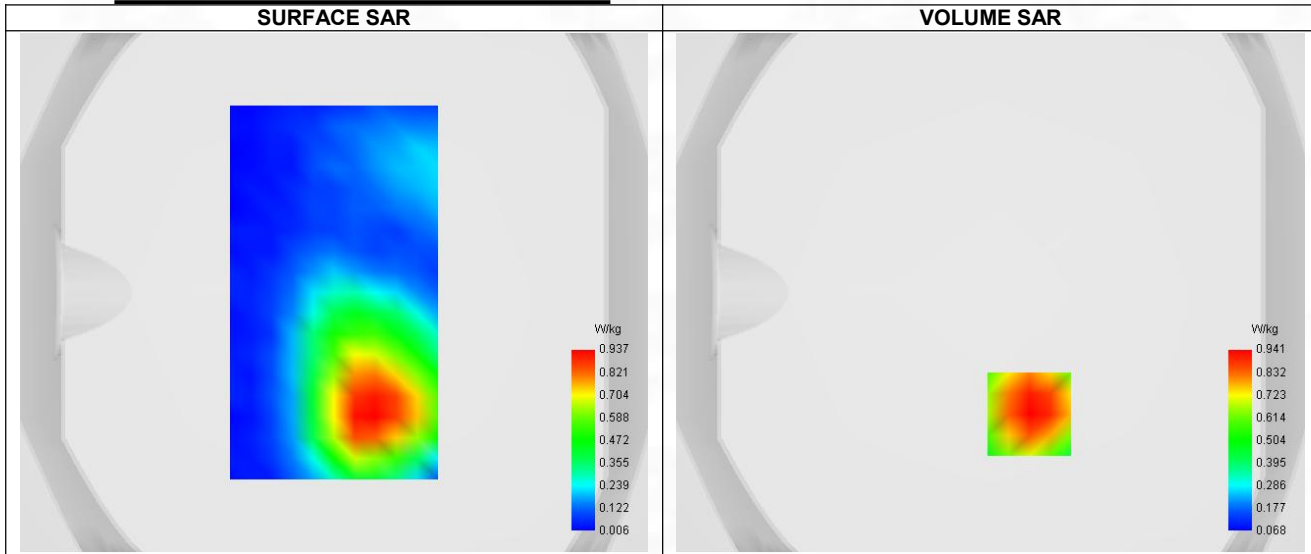
**A. Experimental conditions.**

Probe	SN 04/22 EPGO365
ConvF	1.96
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Cmplete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels	Higher (132572)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	1770.090
Relative permittivity (real part)	41.583
Relative permittivity (imaginary part)	14.257
Conductivity (S/m)	1.355

**C. SAR Surface and Volume**

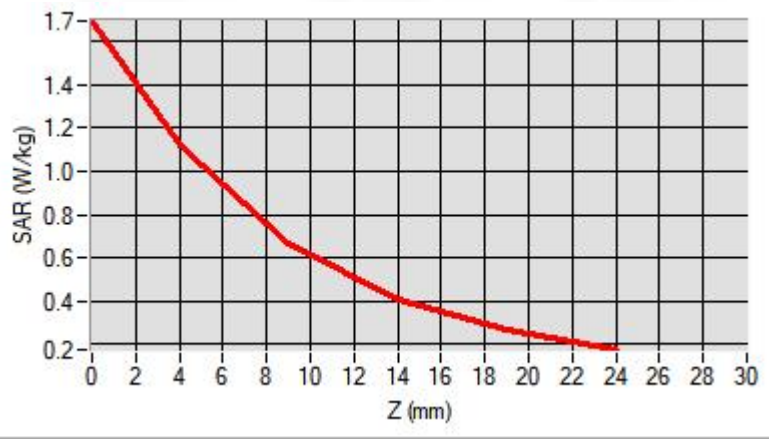


**D. SAR 1g & 10g**

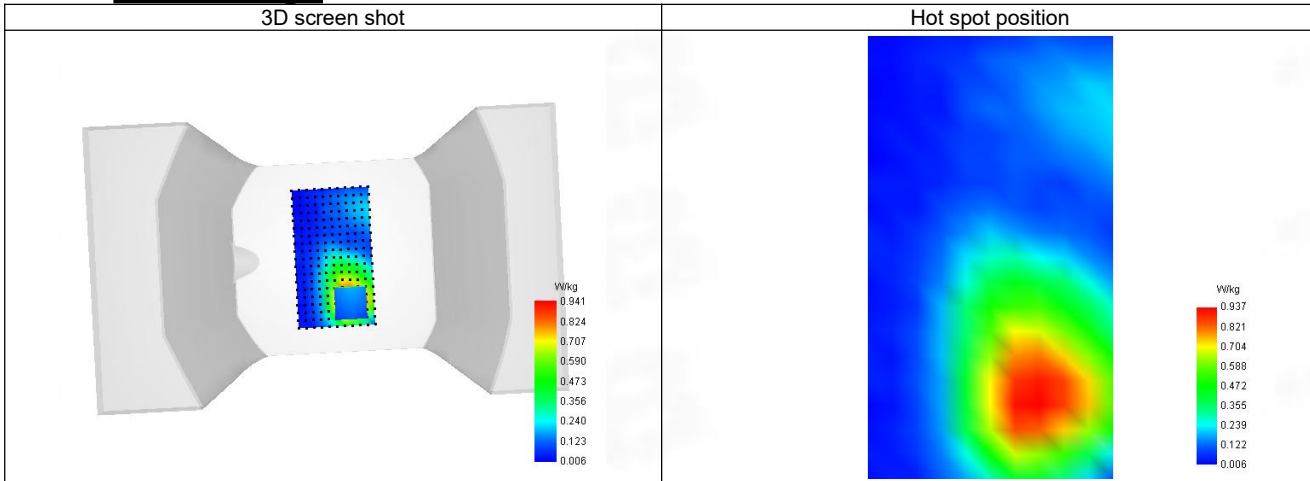
SAR 10g (W/Kg)	0.425
SAR 1g (W/Kg)	0.729
Variation (%)	2.153
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.695	1.123	0.666	0.406	0.265



### F. 3D Image





**29-Head with front position in dist. 0mm on Channel 133222 in LTE band 71**

**SAR Measurement at LTE band 71 (Cheek, Right)**

Date of measurement: 17/11/2023

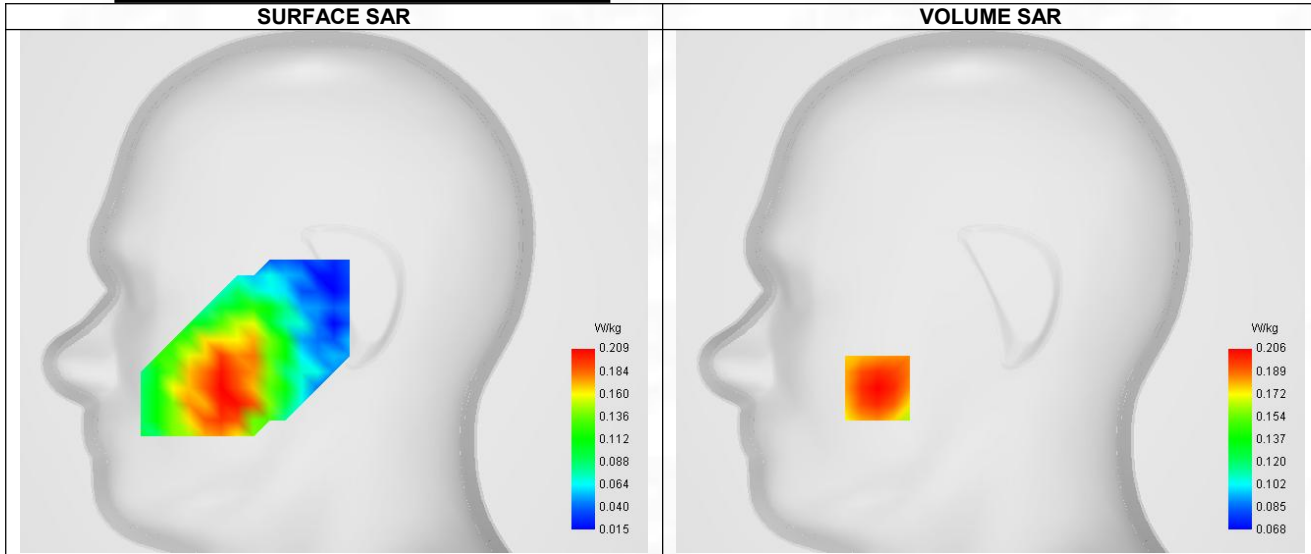
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	673.090
Relative permittivity (real part)	43.936
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

**C. SAR Surface and Volume**



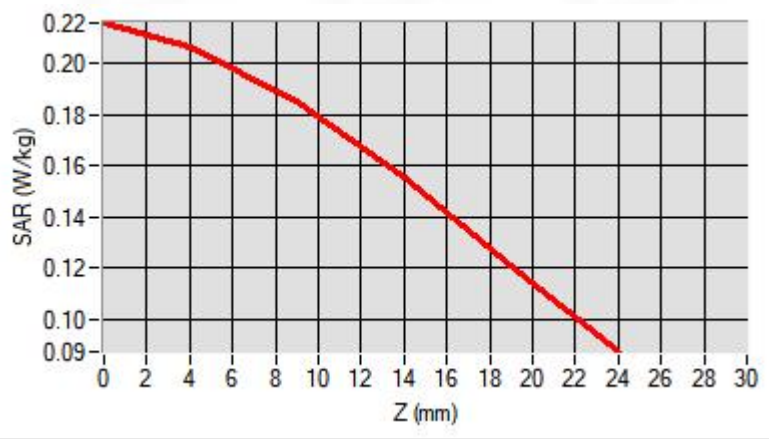
Maximum location: X=-56.00, Y=-48.00 ; SAR Peak: 0.26 W/kg

**D. SAR 1g & 10g**

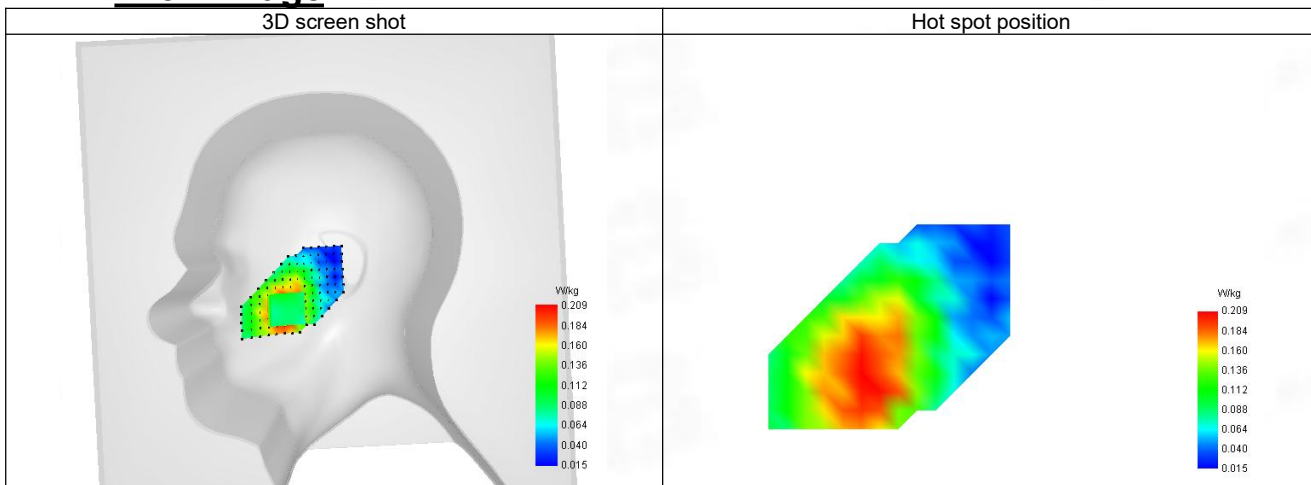
SAR 10g (W/Kg)	0.169
SAR 1g (W/Kg)	0.213
Variation (%)	-4.470
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.216	0.206	0.185	0.155	0.121



### F. 3D Image



**30-Body with back position in dist. 10mm on Channel 133222 in LTE band 71**

**SAR Measurement at LTE band 71 (Body, Validation Plane)**

Date of measurement: 17/11/2023

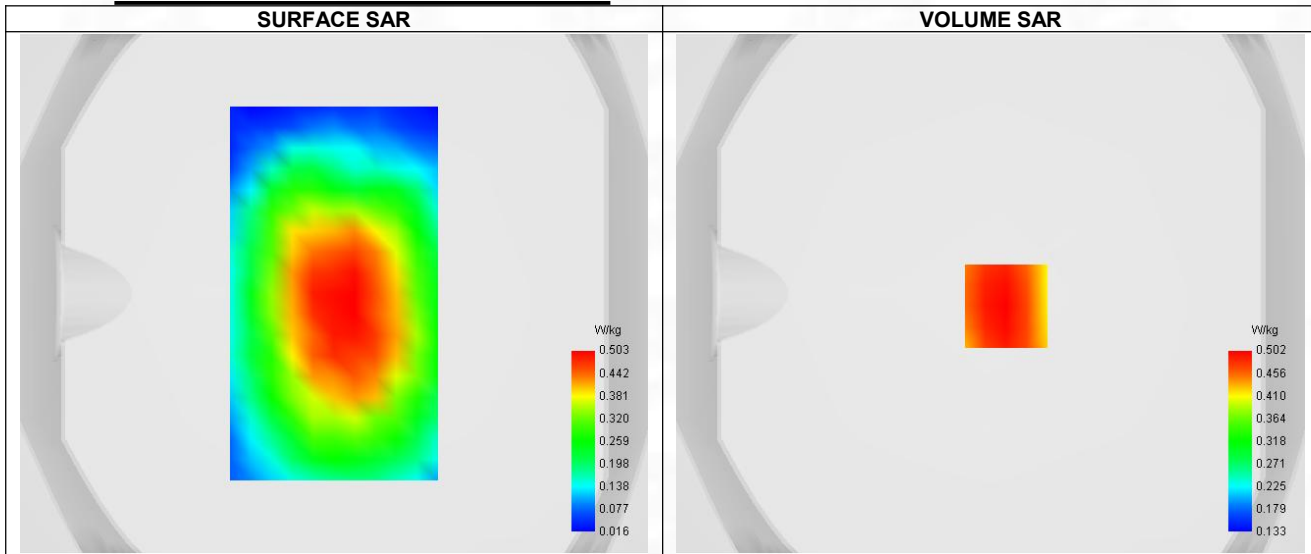
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	1.65
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 71
Channels	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

**B. Permittivity**

Frequency (MHz)	673.090
Relative permittivity (real part)	43.936
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

**C. SAR Surface and Volume**



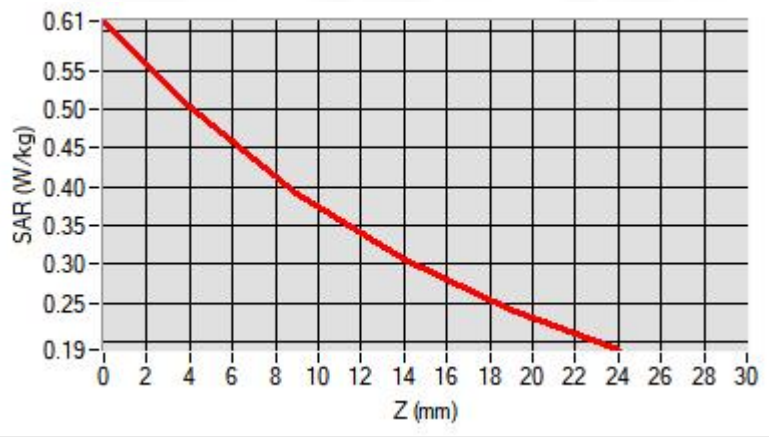
Maximum location: X=6.00, Y=-5.00 ; SAR Peak: 0.62 W/kg

**D. SAR 1g & 10g**

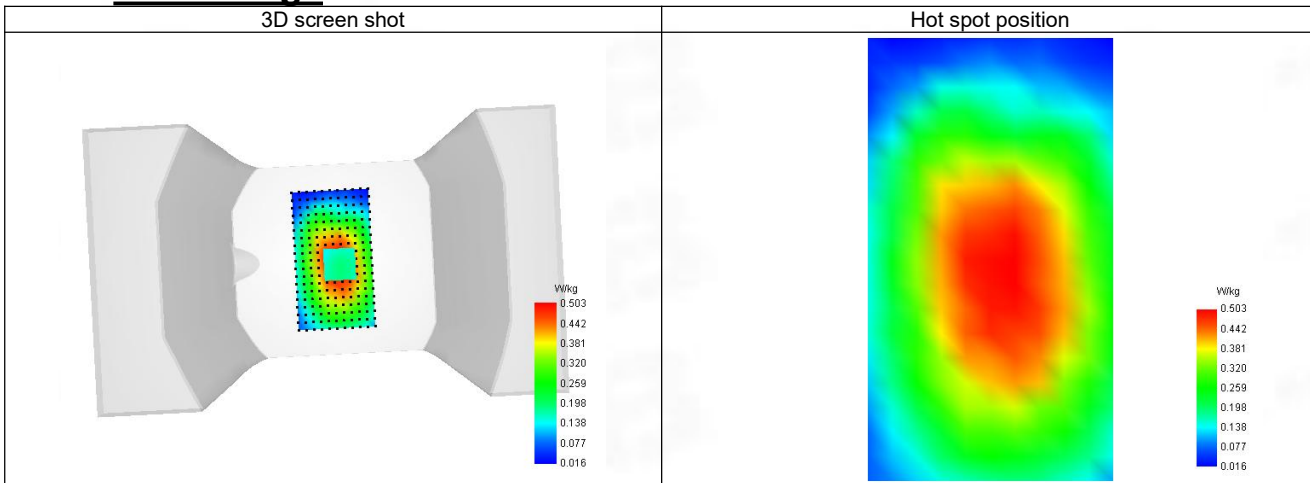
SAR 10g (W/Kg)	0.382
SAR 1g (W/Kg)	0.509
Variation (%)	-2.880
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.613	0.502	0.391	0.307	0.242



### F. 3D Image



**31-Head with front position in dist. 0mm on Channel 6 in IEEE 802.11b ISM**

**SAR Measurement at IEEE 802.11b ISM (Cheek, Right)**

Date of measurement: 20/11/2023

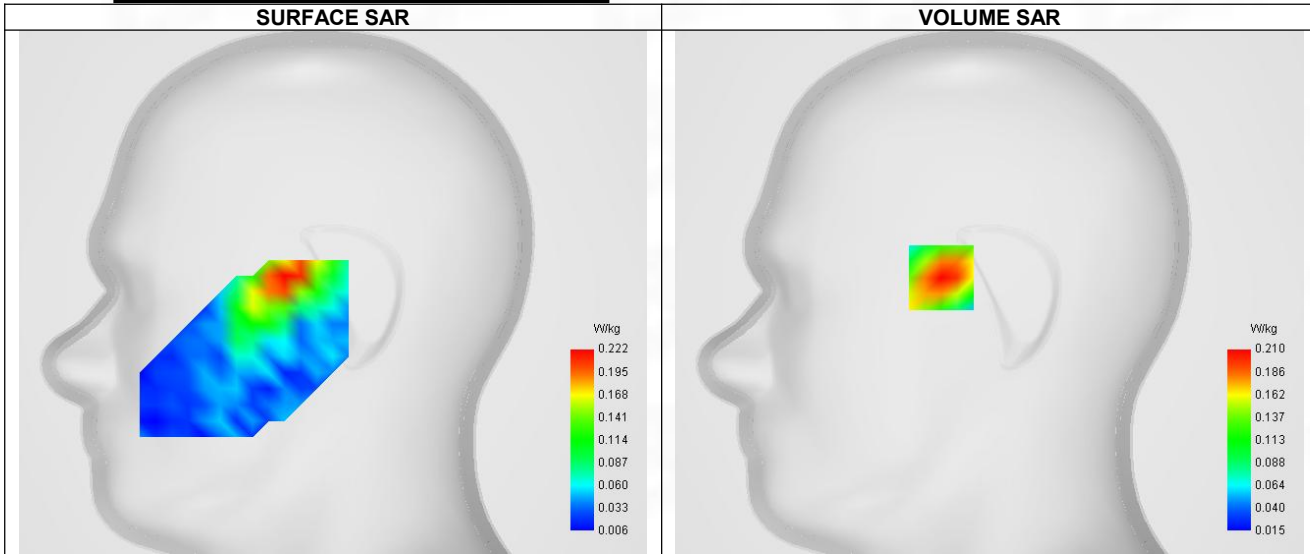
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Middle (6)
Signal	IEEE 802.11

**B. Permittivity**

Frequency (MHz)	2437.000
Relative permittivity (real part)	41.354
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

**C. SAR Surface and Volume**



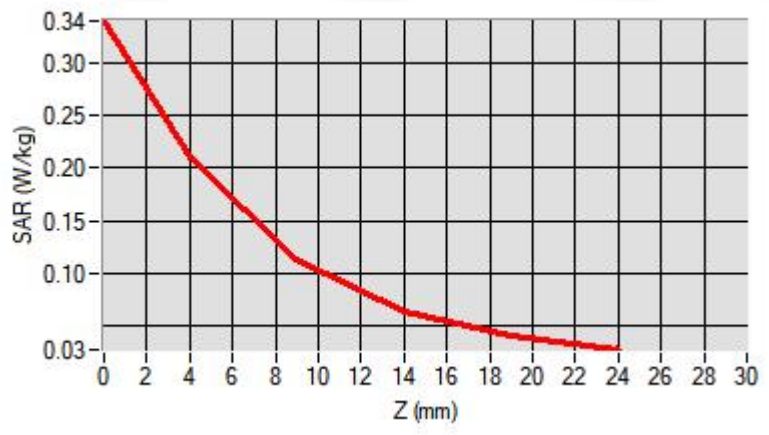
Maximum location: X=-24.00, Y=7.00 ; SAR Peak: 0.35 W/kg

**D. SAR 1g & 10g**

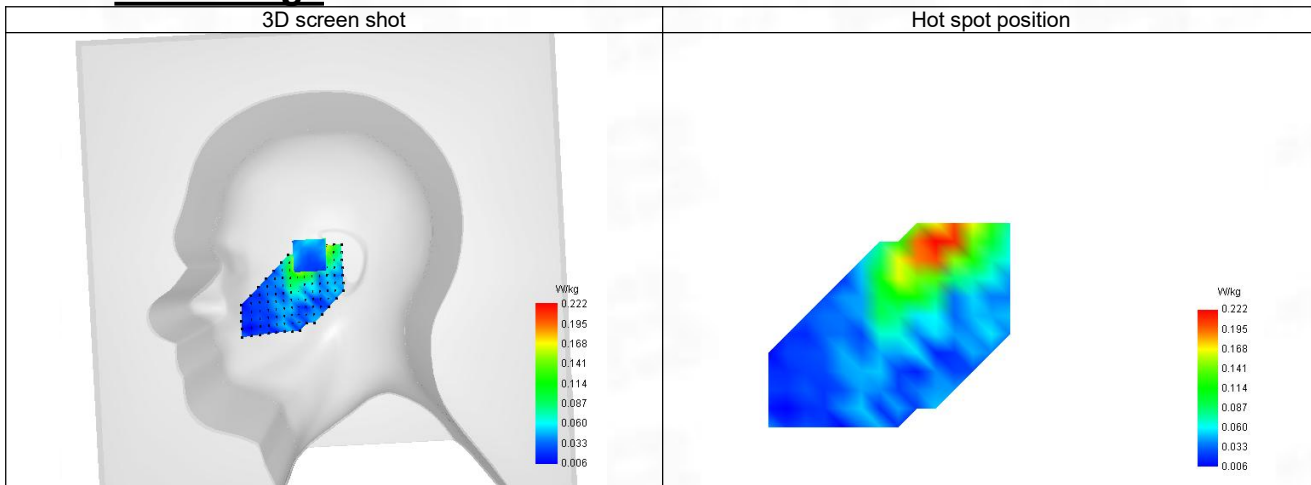
SAR 10g (W/Kg)	0.117
SAR 1g (W/Kg)	0.222
Variation (%)	-0.482
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.340	0.210	0.113	0.064	0.040



### F. 3D Image



**32-Body with back position in dist. 10mm on Channel 6 in IEEE 802.11b ISM**

**SAR Measurement at IEEE 802.11b ISM (Body, Validation Plane)**

Date of measurement: 20/11/2023

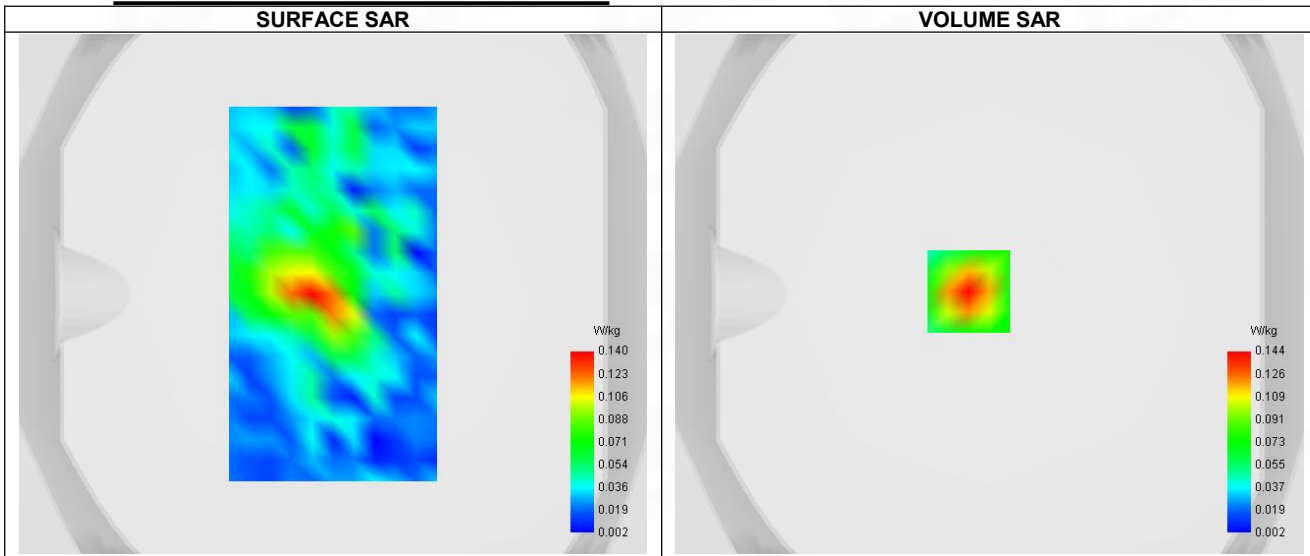
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle (6)
Signal	IEEE 802.11

**B. Permittivity**

Frequency (MHz)	2437.000
Relative permittivity (real part)	41.354
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

**C. SAR Surface and Volume**



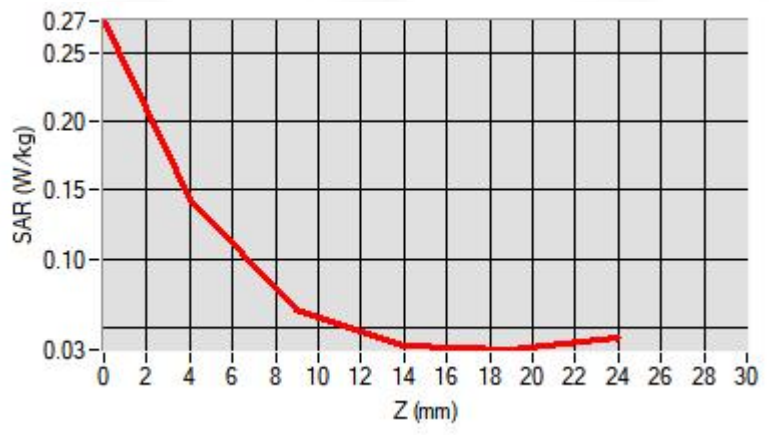
Maximum location: X=-8.00, Y=1.00 ; SAR Peak: 0.27 W/kg

**D. SAR 1g & 10g**

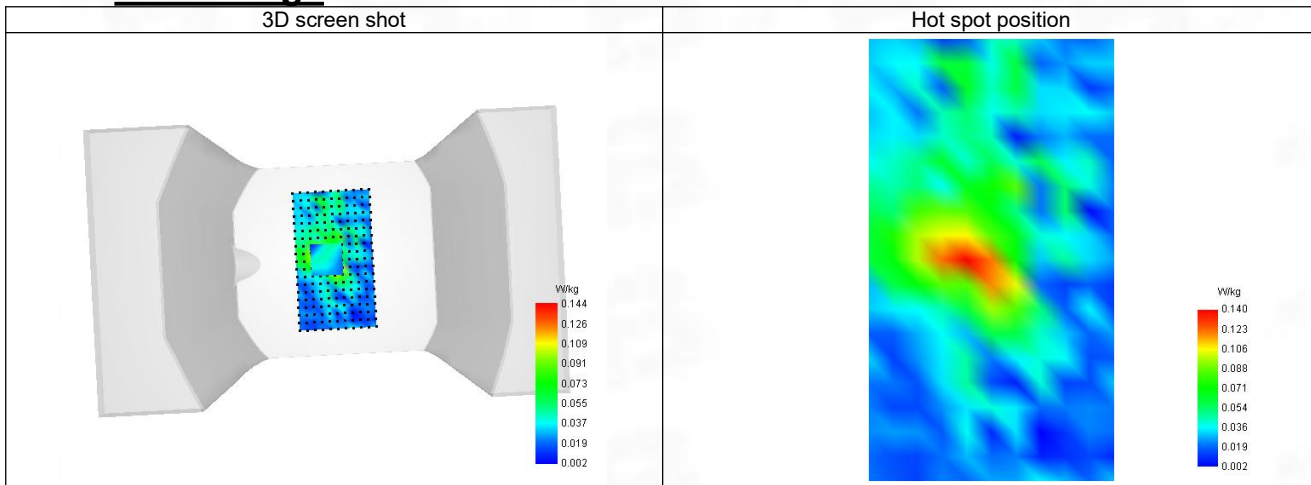
SAR 10g (W/Kg)	0.076
SAR 1g (W/Kg)	0.141
Variation (%)	4.830
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.273	0.144	0.064	0.037	0.035



### F. 3D Image





**33-Head with front position in dist. 0mm on Channel 78 in Bluetooth**

**SAR Measurement at Bluetooth (Cheek, Right)**

Date of measurement: 20/11/2023

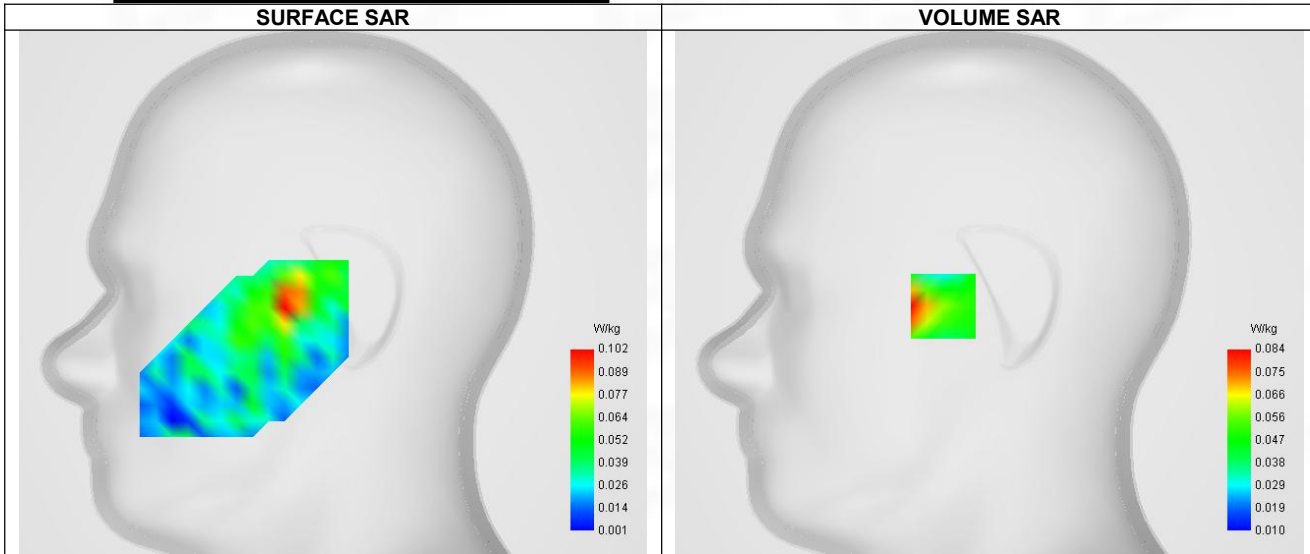
**A. Experimental conditions.**

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Bluetooth
Channels	Higher (78)
Signal	Bluetooth

**B. Permittivity**

Frequency (MHz)	2480.000
Relative permittivity (real part)	41.350
Relative permittivity (imaginary part)	13.210
Conductivity (S/m)	1.842

**C. SAR Surface and Volume**



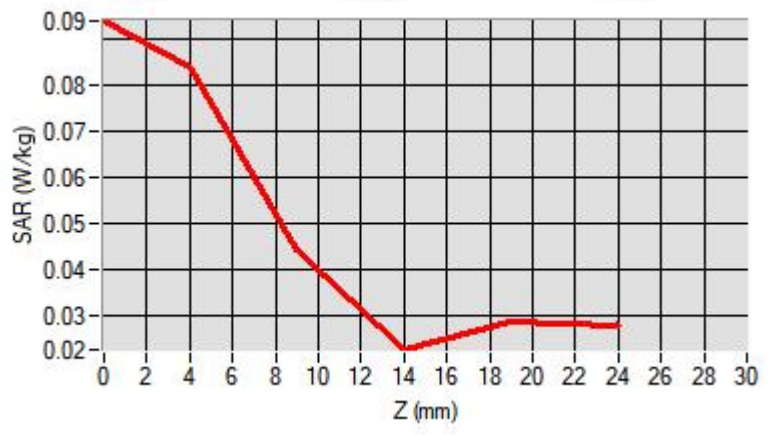
Maximum location: X=-23.00, Y=-7.00 ; SAR Peak: 0.16 W/kg

**D. SAR 1g & 10g**

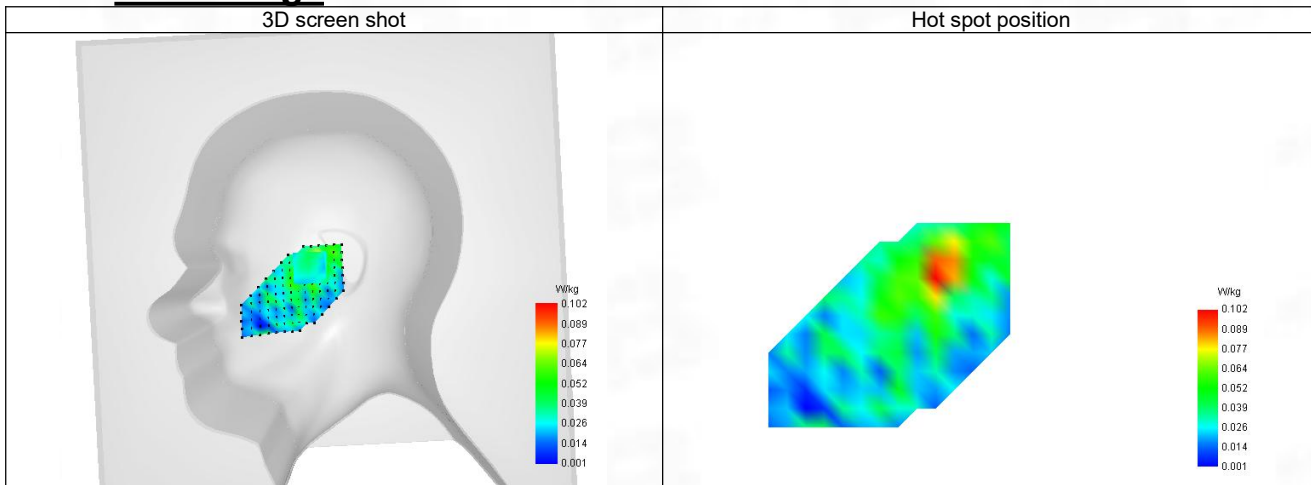
SAR 10g (W/Kg)	0.052
SAR 1g (W/Kg)	0.095
Variation (%)	-4.150
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

**E. Z Axis Scan**

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.094	0.084	0.044	0.023	0.029

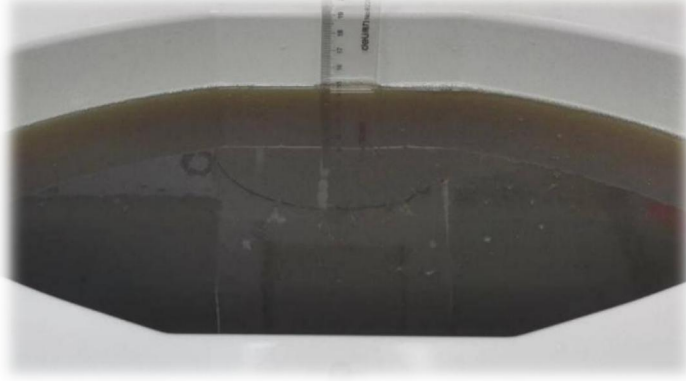


### F. 3D Image

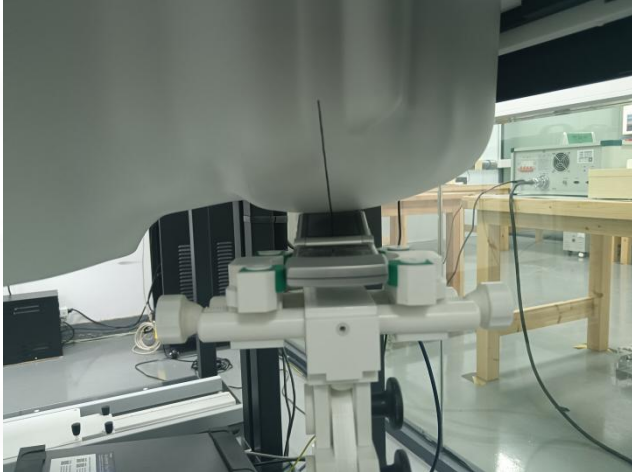


## ANNEX D SAR Test Setup Photos

Reference Photo: simulation liquid depth 15cm



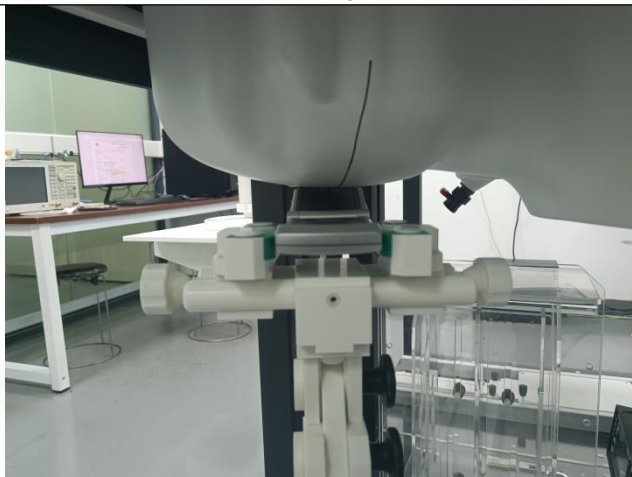
Reference Photos



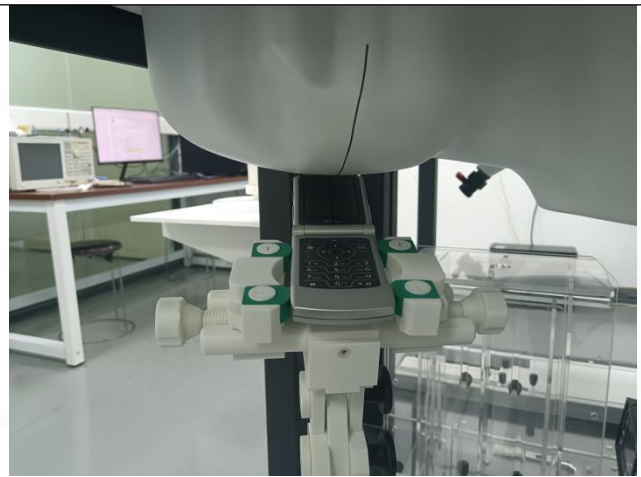
Left Head - Cheek



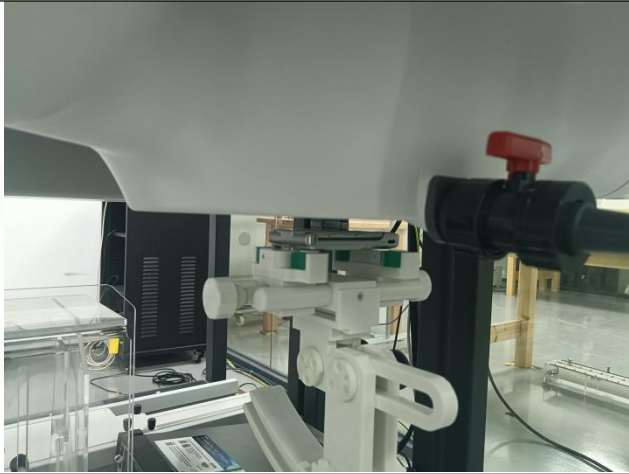
Left Head - Tilt



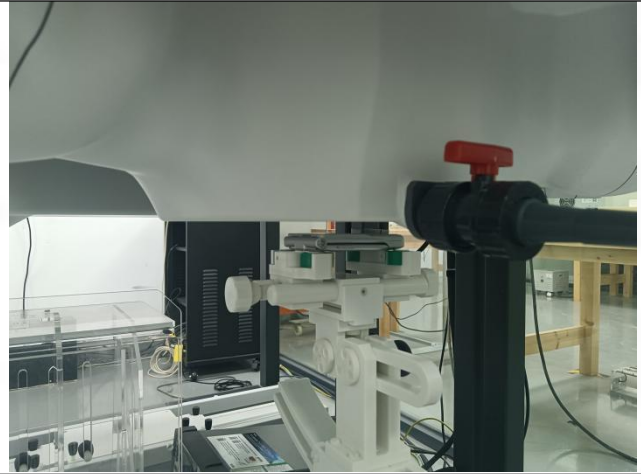
Right Head - Cheek



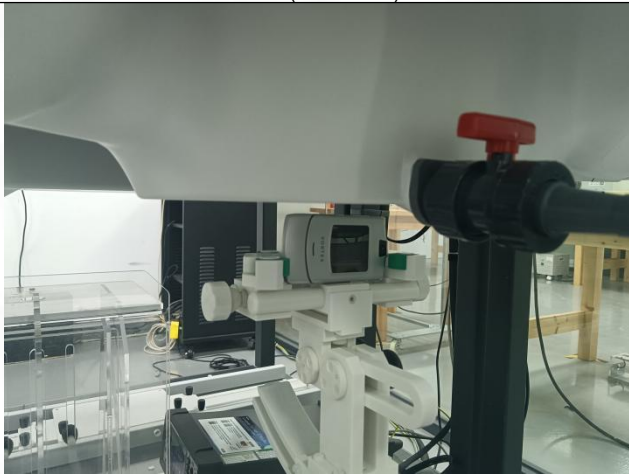
Right Head - Tilt



Front (dist. 10mm)



Back (dist. 10mm)



Left (dist. 10mm)



Right (dist. 10mm)



Bottom (dist. 10mm)

## ANNEX E EUT External and Internal Photos

Please refer to RF Report.

## ANNEX F Calibration Information

Please refer to the document "Calibration.pdf".



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**--END OF REPORT--**