



SAR Test Report

For

Applicant Name: FOXX Development Inc.
Address: 3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA
EUT Name: Smart Phone
Brand Name: FOXXD
Model Number: A5 Plus

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: BTF240124R00201
FCC 47 CFR§2.1093 IEEE1528-2013 IEEE C95.1-2019
Test Standards: KDB447498 D04 KDB865664 D01 KDB865664 D02
KDB941225 D01 KDB941225 D05 KDB248227 D01
KDB941225 D06 KDB648474 D04 KDB690783 D01
FCC ID: 2AQRM-A5 PLUS

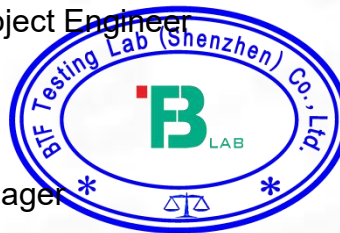
Test Conclusion: Pass
Test Date: 2024-02-20 to 2024-02-26
Date of Issue: 2024-02-27

Prepared By: *Amenda Zhong*
Amenda Zhong / Project Engineer

Date: 2024-02-27

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

Date: 2024-02-27



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-02-27	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:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.2 Manufacturer Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.3 Factory Information

Company Name:	FOXX Development Inc.
Address:	3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

2.4 General Description of Equipment under Test (EUT)

EUT Name	Smart Phone
Under Test Model Name	A5 Plus
Sample No.	BTFSN240124004/3

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	2000mAh
	Rated Voltage	3.8V

2.6 Technical Information

Network and Wireless connectivity	2G Network GSM/GPRS/EGPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/13/17/66/71 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 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 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	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 D04	Interim General RF Exposure Guidance v01
5	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB865664 D02	RF Exposure Reporting v01r02
7	KDB941225 D01	3G SAR Procedures v03r01
8	KDB941225 D05	SAR for LTE Devices v02r05
9	KDB248227 D01	802.11 Wi-Fi SAR v02r02
10	KDB941225 D06	Hotspot Mode v02r01
11	KDB648474 D04	Handset SAR v01r03
12	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	0.053	PCE	0.538
	GSM 1900	0.077		
	WCDMA Band II	0.302		
	WCDMA Band IV	0.252		
	WCDMA Band V	0.315		
	LTE Band 2	0.316		
	LTE Band 4	0.307		
	LTE Band 5	0.402		
	LTE Band 12	0.162		
	LTE Band 13	0.241		
	LTE Band 17	0.166		
	LTE Band 66	0.239		
	LTE Band 71	0.167		
WLAN 2.4 GHz	0.538	DTS		
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	0.231	PCB	0.795
	GSM 1900	0.412		
	WCDMA Band II	0.641		
	WCDMA Band IV	0.571		
	WCDMA Band V	0.272		
	LTE Band 2	0.782		
	LTE Band 4	0.795		
	LTE Band 5	0.326		
	LTE Band 12	0.219		
	LTE Band 13	0.267		
	LTE Band 17	0.227		
	LTE Band 66	0.712		
	LTE Band 71	0.188		
WLAN 2.4 GHz	0.142	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)	LTE Band 4 + 2.4G WIFI	0.940	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 5 + 2.4G WIFI	0.937	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
Measurement System								
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	∞
Test sample Related								
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	∞
Phantom and Tissue Parameters								
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
Measurement System								
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	∞
Dipole								
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	∞
Phantom and Tissue Parameters								
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 (ρ). The equation description is as below:

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

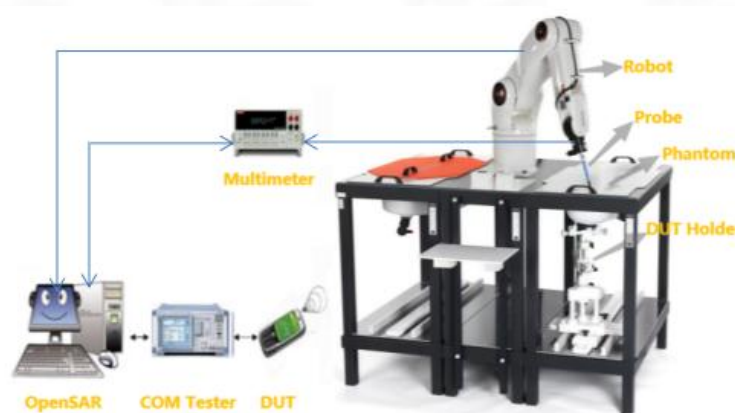
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

Where: σ is the conductivity of the tissue,
ρ is the mass density of the tissue and E is the RMS electrical field strength.

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° .



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.



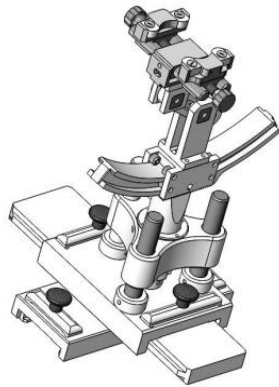
ELLI Phantom

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

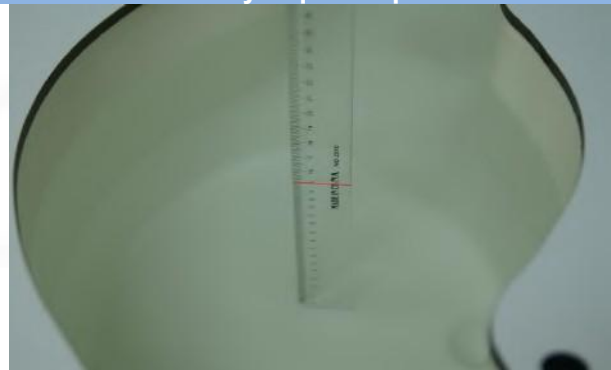
4.2.6 Simulating Liquid

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.

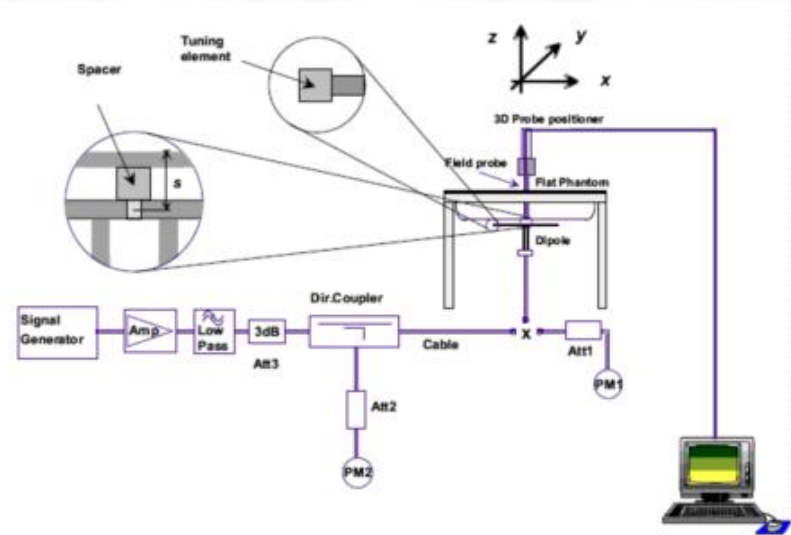
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5	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 σ (S/m)	Permittivity ϵ
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 σ (S/m)	Permittivity ϵ
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 σ (S/m)	Permittivity ϵ
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

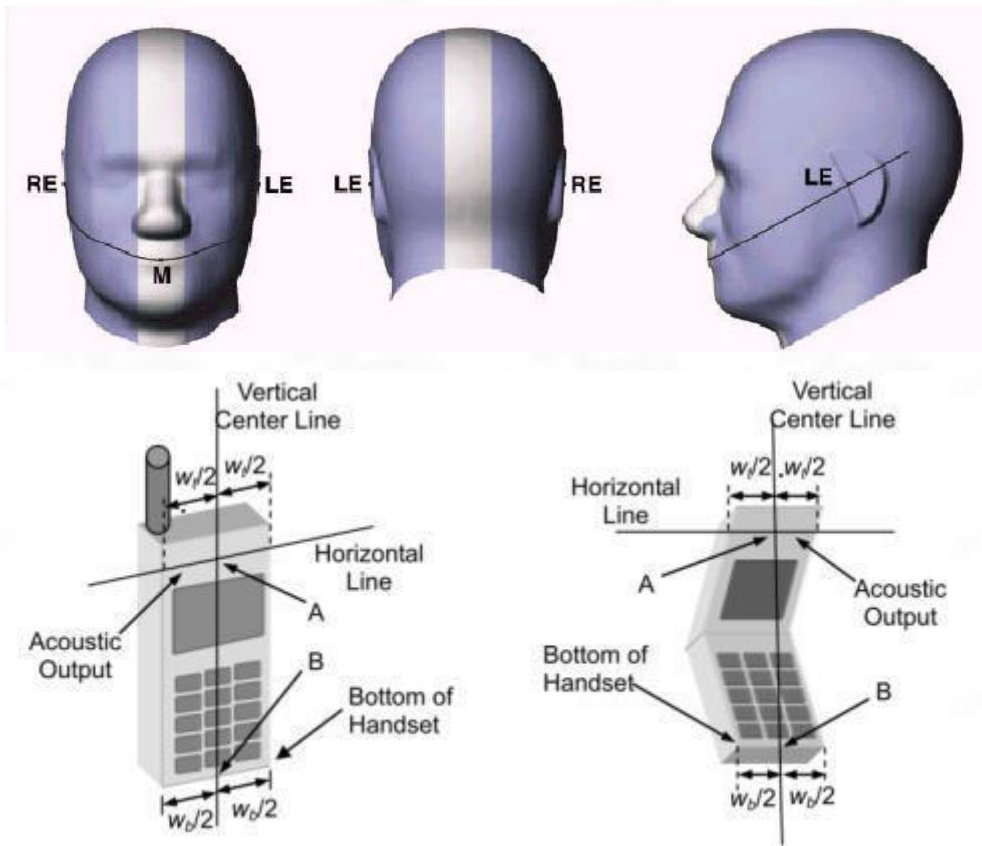
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.



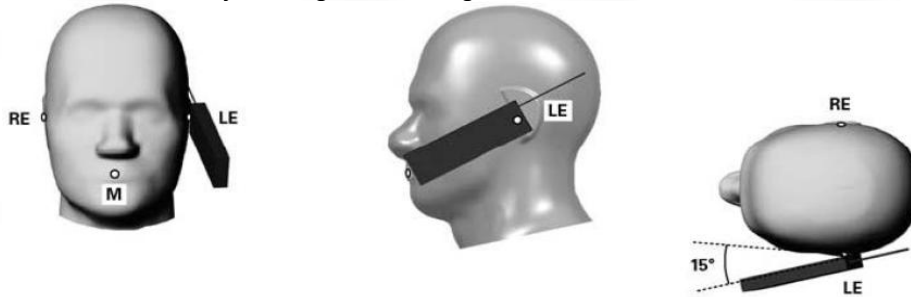
6.1.2 Two Imaginary Lines on the Handset

- (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.

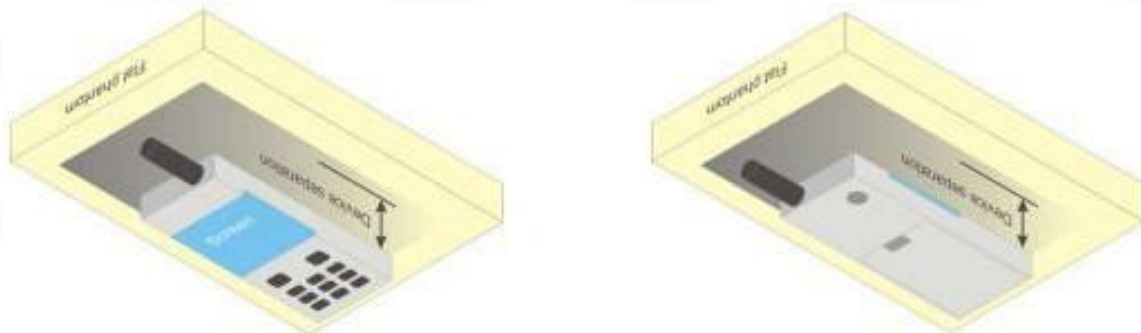


6.2 Body-worn Position Conditions

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.

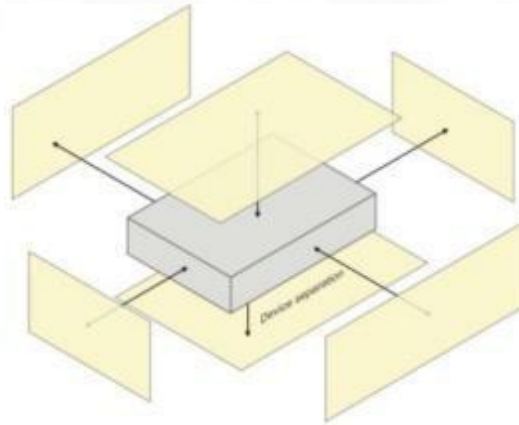
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

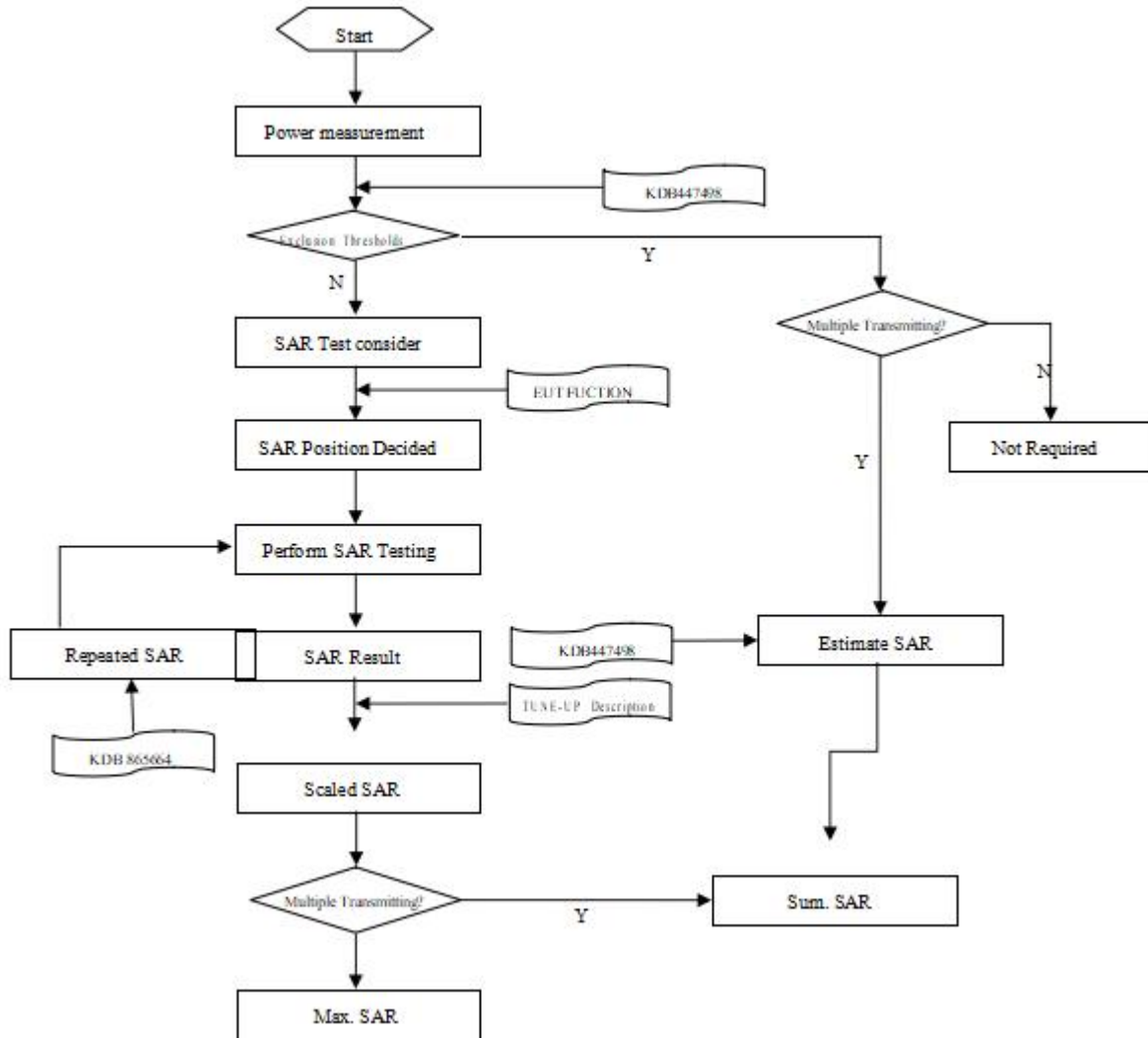
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed 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 ≤ 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
		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		31.50	31.10	31.09	30.71	-9.03	22.07	22.06	21.68
GPRS (GMSK)	1Tx slot	31.50	31.15	31.02	30.71	-9.03	22.12	21.99	21.68
	2Tx slots	29.50	29.12	28.87	28.38	-6.02	23.10	22.85	22.36
	3Tx slots	27.50	27.26	26.98	26.46	-4.26	23.00	22.72	22.20
	4Tx slots	25.50	25.25	24.93	24.40	-3.01	22.24	21.92	21.39
EGPRS (8PSK)	1Tx slot	24.50	24.38	24.33	24.12	-9.03	15.35	15.30	15.09
	2Tx slots	23.50	22.98	23.24	22.75	-6.02	16.96	17.22	16.73
	3Tx slots	21.00	20.72	20.74	20.57	-4.26	16.46	16.48	16.31
	4Tx slots	20.00	19.80	18.68	18.41	-3.01	16.79	15.67	15.40
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		28.00	27.51	27.60	27.83	-9.03	18.48	18.57	18.80
GPRS (GMSK)	1Tx slot	28.00	27.66	27.54	27.71	-9.03	18.63	18.51	18.68
	2Tx slots	26.00	25.52	25.26	25.18	-6.02	19.50	19.24	19.16
	3Tx slots	24.00	23.89	23.66	23.58	-4.26	19.63	19.40	19.32
	4Tx slots	22.00	21.84	21.59	21.53	-3.01	18.83	18.58	18.52
EGPRS (8PSK)	1Tx slot	24.00	23.99	23.67	23.74	-9.03	14.96	14.64	14.71
	2Tx slots	22.50	22.30	22.37	22.26	-6.02	16.28	16.35	16.24
	3Tx slots	20.00	19.97	19.82	19.80	-4.26	15.71	15.56	15.54
	4Tx slots	19.00	18.61	17.73	17.72	-3.01	15.60	14.72	14.71
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		22.00	21.39	21.48	21.58
HSDPA	Subtest-1	21.50	21.11	21.04	21.10
	Subtest-2	21.50	21.12	21.05	21.07
	Subtest-3	21.50	21.13	21.04	21.07
	Subtest-4	21.50	21.09	20.99	21.02
HSUPA	Subtest-1	19.50	19.12	18.58	19.10
	Subtest-2	19.50	19.09	18.85	18.85
	Subtest-3	19.50	18.84	19.05	18.55
	Subtest-4	19.50	19.07	18.83	18.86
	Subtest-5	19.00	18.83	18.87	18.90
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		22.00	21.55	21.57	21.47
HSDPA	Subtest-1	21.00	20.84	20.77	20.57
	Subtest-2	21.00	20.83	20.78	20.57
	Subtest-3	21.00	20.82	20.77	20.56
	Subtest-4	21.00	20.76	20.73	20.51
HSUPA	Subtest-1	19.00	18.77	18.51	18.48
	Subtest-2	18.50	18.24	18.21	17.93
	Subtest-3	19.00	18.51	18.20	18.44
	Subtest-4	19.00	18.16	18.53	17.97
	Subtest-5	19.00	18.20	18.52	18.43
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		22.50	22.08	22.10	22.11
HSDPA	Subtest-1	21.50	20.36	21.42	20.40
	Subtest-2	21.50	20.31	21.41	20.38
	Subtest-3	21.50	20.33	21.44	20.39
	Subtest-4	21.50	20.28	21.41	20.40
HSUPA	Subtest-1	19.50	18.20	19.43	18.47
	Subtest-2	19.00	18.21	18.99	18.55
	Subtest-3	20.00	17.99	19.50	18.04
	Subtest-4	19.50	17.98	19.26	18.04
	Subtest-5	20.00	18.20	19.50	18.08

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 ≤ 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	23.00	22.58	22.47	22.66	
			2	23.00	22.64	22.42	22.68	
			5	23.00	22.60	22.43	22.63	
		3	0	23.00	22.52	22.44	22.71	
			2	23.00	22.57	22.58	22.56	
			3	23.00	22.49	22.38	22.60	
	16QAM	6	0	22.00	21.44	21.41	21.60	
			0	22.00	21.66	21.13	21.12	
			2	22.00	21.63	21.10	21.17	
		1	5	22.00	21.65	21.15	21.11	
			0	22.00	21.62	21.27	21.48	
			2	22.00	21.59	21.26	21.49	
3	3	22.00	21.60	21.24	21.46			
	6	21.00	20.58	20.37	20.60			
	0	21.00	20.58	20.37	20.60			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185	
					1851.5MHz	1880.0MHz	1908.5MHz	
3MHz	QPSK	1	0	23.00	22.52	22.40	22.64	
			7	23.00	22.57	22.39	22.66	
			14	23.00	22.43	22.44	22.71	
		8	0	22.00	21.38	21.53	21.66	
			4	22.00	21.46	21.47	21.64	
			7	22.00	21.44	21.55	21.67	
	15	0	22.00	21.37	21.54	21.72		
	16QAM	1	0	22.50	20.93	21.92	22.06	
			7	22.50	20.95	21.92	22.09	
			14	22.50	20.89	21.97	22.09	
		8	0	21.00	20.64	20.58	20.93	
			4	21.00	20.71	20.58	20.95	
			7	21.50	21.08	20.62	21.00	
		15	0	21.00	20.54	20.49	20.80	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900
1852.5MHz							1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	23.00	22.33	22.54	22.62	
			13	23.00	22.33	22.50	22.64	
			24	23.00	22.26	22.62	22.73	
		12	0	22.00	21.42	21.47	21.69	
			6	22.00	21.38	21.59	21.65	
			13	22.00	21.41	21.54	21.68	
	25	0	22.00	21.46	21.51	21.59		
	16QAM	1	0	22.00	21.52	21.57	20.76	
			13	22.00	21.47	21.62	20.72	
			24	22.00	21.48	21.67	20.81	
		12	0	21.00	20.52	20.61	20.69	
			6	21.00	20.86	20.61	20.67	
			13	21.00	20.87	20.61	20.70	
		25	0	21.00	20.84	20.61	20.74	

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	22.50	22.46	22.43	22.49			
			25	23.00	22.33	22.48	22.54			
			49	23.00	22.35	22.58	22.67			
		25	0	22.00	21.46	21.56	21.51			
			13	22.00	21.44	21.54	21.55			
			25	22.00	21.30	21.47	21.63			
	50	0	22.00	21.47	21.55	21.66				
		16QAM	1	0	22.50	21.28	22.15	21.78		
				25	22.50	21.18	22.28	21.80		
	49			22.50	21.26	22.31	21.86			
	25	16QAM	25	0	21.50	20.93	20.60	21.05		
				13	21.00	20.61	20.68	20.63		
				25	21.00	20.62	20.64	20.68		
	50	16QAM	50	0	21.00	20.47	20.65	20.69		
				18675	18900	19125	1857.5MHz	1880.0MHz	1902.5MHz	
15MHz										QPSK
	38	23.00	22.23	22.50	22.52					
	74	23.00	22.25	22.64	22.67					
	36	QPSK	36	0	22.00	21.39	21.42	21.59		
				18	22.00	21.29	21.47	21.60		
				39	22.00	21.30	21.49	21.60		
	75	QPSK	75	0	22.00	21.43	21.47	21.56		
				16QAM	1	0	22.00	21.61	21.49	21.69
						38	22.00	21.47	21.56	21.75
	74	22.00	21.46			21.62	21.92			
	36	16QAM	36	0	21.00	20.50	20.54	20.65		
				18	21.50	20.43	20.62	21.12		
				39	21.00	20.47	20.69	20.79		
	75	16QAM	75	0	21.50	20.45	20.54	21.09		
				18700	18900	19100	1860.0MHz	1880.0MHz	1900.0MHz	
20MHz										QPSK
	50	23.00	22.28	22.58	22.59					
	99	23.00	22.42	22.63	22.82					
	50	QPSK	50	0	22.00	21.40	21.52	21.53		
				25	22.00	21.42	21.50	21.58		
				50	22.00	21.39	21.58	21.60		
	100	QPSK	100	0	22.00	21.38	21.41	21.57		
				16QAM	1	0	22.50	22.24	21.37	21.49
						50	22.50	22.04	21.45	21.52
	99	22.50	22.13			21.51	21.56			
	50	16QAM	50	0	21.00	20.36	20.47	20.64		
				25	21.00	20.39	20.58	20.65		
				50	21.00	20.43	20.63	20.71		
	100	16QAM	100	0	21.00	20.49	20.57	20.55		

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	22.50	22.25	22.38	22.42	
			2	22.50	22.40	22.39	22.32	
			5	22.50	22.46	22.42	22.39	
		3	0	22.50	22.30	22.41	22.25	
			2	22.50	22.39	22.45	22.29	
			3	22.50	22.39	22.38	22.22	
	6	0	21.50	21.37	21.30	21.28		
	16QAM	1	0	22.00	21.44	21.66	21.13	
			2	22.00	21.45	21.77	21.11	
			5	22.00	21.45	21.75	21.21	
		3	0	22.00	21.50	21.22	20.98	
			2	22.00	21.51	21.26	21.06	
			3	21.50	21.45	21.20	20.98	
		6	0	21.00	20.58	20.39	20.44	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175
						1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	22.50	22.27	22.49	22.19	
			7	22.50	22.24	22.39	22.14	
			14	22.50	22.25	22.44	22.23	
		8	0	21.50	21.37	21.31	21.24	
			4	21.50	21.37	21.45	21.31	
			7	22.00	21.33	21.50	21.27	
	15	0	22.00	21.34	21.50	21.24		
	16QAM	1	0	22.00	20.99	21.96	20.94	
			7	22.50	20.93	22.05	20.92	
			14	22.00	20.92	21.92	21.01	
		8	0	21.00	20.56	20.72	20.46	
			4	21.00	20.55	20.67	20.42	
			7	21.00	20.54	20.73	20.50	
		15	0	20.50	20.40	20.49	20.32	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175
						1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	23.00	22.24	22.50	22.32	
			13	22.50	22.25	22.48	22.31	
			24	22.50	22.34	22.42	22.37	
		12	0	21.50	21.36	21.40	21.26	
			6	22.00	21.29	21.54	21.26	
			13	21.50	21.45	21.40	21.32	
	25	0	21.50	21.33	21.41	21.30		
	16QAM	1	0	22.00	21.59	21.39	20.71	
			13	22.00	21.60	21.47	20.70	
			24	22.00	21.67	21.44	20.75	
		12	0	20.50	20.42	20.39	20.25	
			6	20.50	20.39	20.34	20.30	
			13	20.50	20.41	20.40	20.30	
		25	0	20.50	20.41	20.41	20.30	

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	22.50	22.32	22.40	22.24		
			25	22.50	22.25	22.42	22.32		
			49	22.50	22.36	22.32	22.39		
		25	0	21.50	21.43	21.46	21.18		
			13	21.50	21.31	21.45	21.35		
			25	21.50	21.47	21.44	21.32		
	16QAM	1	0	22.50	21.28	22.06	21.18		
			25	22.00	21.29	21.99	21.25		
			49	22.00	21.32	21.92	21.10		
		25	0	21.00	20.53	20.49	20.31		
			13	21.00	20.49	20.51	20.39		
			25	21.00	20.54	20.47	20.26		
		50	0	20.50	20.36	20.43	20.36		
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
							1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	23.00	22.22	22.63	22.22		
			38	23.00	22.20	22.52	22.27		
			74	22.50	22.24	22.40	22.30		
		36	0	21.50	21.40	21.46	21.23		
			18	21.50	21.34	21.44	21.15		
			39	21.50	21.45	21.38	21.29		
	75	0	21.50	21.37	21.38	21.25			
	16QAM	1	0	22.00	21.69	21.64	21.16		
			38	22.00	21.75	21.50	21.17		
			74	22.00	21.78	21.44	21.09		
		36	0	21.00	20.37	20.53	20.34		
			18	20.50	20.44	20.49	20.36		
			39	21.00	20.86	20.40	20.30		
		75	0	20.50	20.38	20.44	20.35		
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
1720.0MHz							1732.5MHz	1745.0MHz	
20MHz	QPSK	1	0	23.00	22.46	22.43	22.60		
			50	23.00	22.54	22.40	22.59		
			99	23.00	22.58	22.23	22.61		
		50	0	22.00	21.47	21.54	21.23		
			25	21.50	21.38	21.38	21.23		
			50	22.00	21.54	21.37	21.44		
	100	0	21.50	21.33	21.42	21.32			
	16QAM	1	0	22.50	21.94	22.00	20.60		
			50	22.00	21.91	21.85	20.56		
			99	22.50	22.02	21.73	20.51		
		50	0	21.00	20.39	20.57	20.38		
			25	21.00	20.44	20.54	20.36		
			50	21.00	20.52	20.50	20.57		
		100	0	21.00	20.54	20.45	20.25		

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	23.50	23.31	23.38	23.17
			2	23.50	23.32	23.43	23.44
			5	23.50	23.22	23.38	23.40
		3	0	23.50	23.31	23.32	23.20
			2	23.50	23.35	23.42	23.29
			3	23.50	23.35	23.38	23.26
	6	0	22.50	22.23	22.14	22.12	
	16QAM	1	0	23.00	21.92	22.33	22.60
			2	22.50	21.90	22.35	22.49
			5	23.00	21.83	22.43	22.58
		3	0	22.50	22.09	22.43	22.13
			2	22.50	22.11	22.35	22.15
3			22.50	22.10	22.45	22.14	
6	0	22.00	21.38	21.64	21.40		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.50	23.28	23.34	23.29
			7	23.50	23.24	23.43	23.17
			14	23.50	23.33	23.47	23.18
		8	0	22.50	22.19	22.41	22.46
			4	22.50	22.23	22.36	22.35
			7	22.50	22.35	22.33	22.39
	15	0	22.50	22.21	22.27	22.32	
	16QAM	1	0	23.00	21.89	22.97	22.24
			7	23.50	21.82	23.01	22.25
			14	23.00	21.87	22.88	22.22
		8	0	22.00	21.35	21.51	21.65
			4	22.00	21.36	21.63	21.52
			7	22.00	21.46	21.61	21.57
		15	0	21.50	21.24	21.42	21.38

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	23.50	23.24	23.35	23.29
			13	23.50	23.24	23.41	23.21
			24	23.50	23.26	23.39	23.23
		12	0	22.50	22.29	22.36	22.31
			6	22.50	22.29	22.33	22.43
			13	22.50	22.26	22.41	22.40
	25	0	22.50	22.37	22.33	22.38	
	16QAM	1	0	23.00	22.51	22.36	21.72
			13	23.00	22.57	22.35	21.85
			24	23.00	22.58	22.36	21.80
		12	0	22.00	21.23	21.26	21.82
			6	21.50	21.39	21.35	21.42
			13	21.50	21.34	21.36	21.40
		25	0	21.50	21.46	21.40	21.41

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600	
					829.0MHz	836.5MHz	844.0MHz	
10MHz	QPSK	1	0	23.50	23.20	23.35	23.27	
			25	23.50	23.24	23.46	23.23	
			49	23.50	23.30	23.48	23.23	
		25	0	22.50	22.35	22.41	22.38	
			13	22.50	22.29	22.32	22.40	
			25	22.50	22.35	22.33	22.37	
	50	0	22.50	22.36	22.42	22.37		
		16QAM	1	0	22.50	22.29	22.35	22.13
				25	22.50	22.27	22.42	22.15
	49			22.50	22.29	22.49	22.26	
	25	16QAM	25	0	22.00	21.43	21.50	21.41
				13	22.00	21.41	21.54	21.40
				25	22.00	21.40	21.92	21.41
	50	0	22.00	21.31	21.50	21.45		

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	23.50	22.96	23.09	22.93	
			2	23.50	22.97	23.12	23.12	
			5	23.50	23.10	23.13	23.13	
		3	0	23.50	22.97	23.02	23.15	
			2	23.50	22.97	23.04	23.18	
			3	23.50	22.97	23.09	23.18	
	6	0	22.50	21.83	22.20	21.95		
		16QAM	1	0	22.50	21.41	22.05	22.41
				2	23.00	21.40	22.11	22.53
	5			22.50	21.55	22.09	22.46	
	3		0	22.50	21.64	22.10	21.93	
			2	22.50	21.80	22.12	21.88	
			3	22.50	21.75	22.17	21.87	
	6	0	22.00	20.89	21.84	21.71		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
					700.5MHz	707.5MHz	714.5MHz	
3MHz	QPSK	1	0	23.50	23.13	23.17	23.09	
			7	23.50	23.06	23.13	23.11	
			14	23.50	23.12	23.12	23.09	
		8	0	22.50	21.94	22.08	22.09	
			4	22.50	22.17	22.12	22.17	
			7	22.50	21.96	22.04	21.97	
	15	0	22.50	21.96	22.08	22.13		
		16QAM	1	0	23.00	21.61	22.74	21.94
				7	23.00	21.71	22.69	21.91
	14			23.00	21.69	22.70	21.89	
	8		0	21.50	20.99	21.26	21.41	
			4	22.00	20.99	21.86	21.34	
			7	22.00	21.00	21.92	21.90	
	15	0	22.00	20.98	21.71	21.15		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
5MHz	QPSK	1	0	23.50	22.92	23.08	23.18	
			13	23.50	22.98	23.08	23.12	
			24	23.50	23.08	23.13	23.13	
		12	0	22.50	22.11	22.14	22.19	
			6	22.50	22.00	22.16	22.16	
			13	22.50	22.12	22.15	22.15	
	25	0	22.50	22.10	22.22	22.20		
	16QAM	1	0	22.50	22.21	21.98	21.62	
			13	22.50	22.25	21.97	21.61	
			24	22.50	22.37	21.94	21.62	
		12	0	22.00	20.98	20.92	21.69	
			6	22.00	20.88	21.59	21.21	
			13	22.00	20.99	21.56	21.19	
		25	0	22.00	21.02	21.65	21.26	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095
						704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	23.50	22.95	23.03	23.14	
			25	23.50	23.16	23.11	22.91	
			49	23.50	23.11	23.20	23.08	
		25	0	22.50	22.02	22.09	22.06	
			13	22.50	22.19	22.26	22.10	
			25	22.50	22.14	22.05	22.15	
	50	0	22.50	22.04	22.22	22.17		
	16QAM	1	0	22.50	21.86	22.12	21.71	
			25	22.50	21.91	22.16	21.77	
			49	22.50	21.97	22.30	21.79	
		25	0	22.00	21.00	21.15	21.67	
			13	22.00	21.14	21.71	20.94	
			25	21.50	21.14	21.11	21.23	
		50	0	22.00	21.06	21.65	21.01	

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	23.50	23.03	23.09	23.03
			13	23.50	23.04	23.05	22.95
			24	23.50	23.12	22.99	22.96
		12	0	22.50	22.13	22.06	22.05
			6	22.50	22.06	22.17	22.06
			13	22.50	22.08	22.10	22.14
	25	0	22.50	22.05	22.10	22.04	
	16QAM	1	0	22.50	22.04	21.47	22.24
			13	22.50	21.84	21.52	22.19
			24	22.50	22.02	21.48	22.33
		12	0	21.50	20.87	21.02	20.99
			6	21.50	20.86	21.05	20.95
			13	21.50	20.88	21.06	21.10
		25	0	21.50	20.93	21.07	20.99

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230
					782.0MHz
10MHz	QPSK	1	0	23.50	23.01
			25	23.50	23.07
			49	23.50	23.10
		25	0	22.50	22.07
			13	22.50	22.20
			25	22.50	22.17
	50	0	22.50	22.07	
	16QAM	1	0	23.00	22.71
			25	23.00	22.78
			49	23.00	22.69
		25	0	21.50	21.19
			13	21.50	21.22
25			21.50	21.18	
50	0	21.50	21.16		

Band 17

LTE-FDD Band 17					Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23755	23790	23825	
					706.5MHz	710MHz	713.5MHz	
5MHz	QPSK	1	0	23.50	23.29	23.11	23.31	
			13	23.50	23.41	23.21	23.31	
			24	23.50	23.32	23.16	23.41	
		12	0	22.50	22.27	22.40	22.38	
			6	22.50	22.40	22.29	22.37	
			13	22.50	22.25	22.37	22.34	
	25	0	22.50	22.23	22.32	22.26		
	16QAM	1	0	22.50	21.59	22.42	22.38	
			13	22.50	21.76	22.37	22.31	
			24	23.00	21.79	22.56	22.35	
		12	0	22.00	21.20	21.73	21.70	
			6	21.50	21.18	21.26	21.33	
			13	22.00	21.73	21.75	21.37	
		25	0	21.50	21.19	21.24	21.39	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790
						709MHz	710MHz	711MHz
10MHz	QPSK	1	0	23.50	23.21	23.13	23.24	
			25	23.50	23.24	23.34	23.17	
			49	23.50	23.38	23.30	23.25	
		25	0	22.50	22.35	22.32	22.42	
			13	22.50	22.40	22.31	22.15	
			25	22.50	22.46	22.36	22.29	
	50	0	22.50	22.32	22.34	22.39		
	16QAM	1	0	23.00	22.17	22.89	21.95	
			25	23.00	22.09	22.88	21.99	
			49	23.00	22.23	22.95	22.03	
		25	0	22.00	21.24	21.77	21.74	
			13	22.00	21.88	21.20	21.21	
			25	22.00	21.94	21.82	21.43	
		50	0	22.00	21.78	21.18	21.25	

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	22.50	22.37	22.27	22.29	
			2	22.50	22.42	22.32	22.32	
			5	22.50	22.46	22.29	22.28	
		3	0	22.50	22.40	22.32	22.27	
			2	22.50	22.45	22.38	22.30	
			3	22.50	22.38	22.34	22.23	
	6	0	22.00	21.50	21.42	21.26		
	16QAM	1	0	22.00	21.09	21.60	21.63	
			2	22.00	21.07	21.61	21.59	
			5	22.00	21.05	21.63	21.63	
		3	0	21.50	21.34	21.19	21.13	
			2	21.50	21.40	21.25	21.14	
			3	21.50	21.35	21.20	21.10	
		6	0	21.00	20.47	20.64	20.25	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322
						1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	22.50	22.38	22.22	22.17	
			7	22.50	22.41	22.25	22.23	
			14	22.50	22.32	22.24	22.18	
		8	0	21.50	21.41	21.36	21.35	
			4	21.50	21.41	21.30	21.34	
			7	21.50	21.31	21.31	21.25	
	15	0	21.50	21.43	21.41	21.29		
	16QAM	1	0	22.00	21.12	21.54	21.19	
			7	22.00	21.05	21.60	21.24	
			14	22.00	21.04	21.50	21.22	
		8	0	21.00	20.62	20.72	20.54	
			4	21.00	20.63	20.75	20.54	
			7	21.00	20.61	20.73	20.57	
		15	0	21.00	20.46	20.50	20.37	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322
						1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	22.50	22.33	22.41	22.26	
			13	22.50	22.33	22.44	22.19	
			24	23.00	22.34	22.50	22.24	
		12	0	21.50	21.45	21.44	21.40	
			6	21.50	21.47	21.48	21.30	
			13	21.50	21.36	21.36	21.42	
	25	0	22.00	21.50	21.47	21.34		
	16QAM	1	0	22.00	21.64	21.38	20.94	
			13	22.00	21.61	21.46	20.93	
			24	22.00	21.60	21.46	20.97	
		12	0	20.50	20.44	20.35	20.42	
			6	21.00	20.42	20.52	20.36	
			13	20.50	20.44	20.39	20.30	
		25	0	21.00	20.56	20.51	20.39	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	22.50	22.35	22.34	22.34
			25	22.50	22.34	22.40	22.23
			49	22.50	22.41	22.49	22.24
		25	0	21.50	21.35	21.29	21.26
			13	21.50	21.42	21.37	21.38
			25	22.00	21.53	21.33	21.33
	50	0	21.50	21.38	21.31	21.40	
	16QAM	1	0	21.50	21.46	21.46	21.33
			25	22.00	21.37	21.62	21.20
			49	22.00	21.44	21.61	21.20
		25	0	21.00	20.57	20.34	20.47
			13	21.00	20.60	20.52	20.38
			25	20.50	20.49	20.42	20.40
		50	0	21.00	20.43	20.53	20.37

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	22.50	22.27	22.37	22.46	
			38	22.50	22.28	22.40	22.34	
			74	22.50	22.39	22.48	22.27	
		36	0	22.00	21.49	21.30	21.52	
			18	21.50	21.39	21.46	21.44	
			39	22.00	21.52	21.44	21.27	
	75	0	21.50	21.45	21.41	21.30		
	16QAM	1	0	22.00	21.75	21.51	21.31	
			38	22.00	21.76	21.61	21.30	
			74	22.00	21.73	21.68	21.20	
		36	0	21.00	20.52	20.33	20.58	
			18	21.00	20.43	20.49	20.53	
			39	21.00	20.59	20.41	20.52	
		75	0	21.00	20.41	20.52	20.48	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322
						1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	23.00	22.66	22.36	22.59	
			50	23.00	22.60	22.31	22.48	
			99	23.00	22.71	22.47	22.44	
		50	0	22.00	21.33	21.33	21.53	
			25	21.50	21.37	21.37	21.41	
			50	21.50	21.42	21.49	21.37	
	100	0	21.50	21.41	21.41	21.35		
	16QAM	1	0	22.00	21.84	21.80	21.39	
			50	22.00	21.81	21.85	21.24	
			99	22.00	21.86	21.98	21.22	
		50	0	21.00	20.43	20.46	20.59	
			25	21.00	20.45	20.57	20.60	
			50	21.00	20.52	20.46	20.45	
		100	0	21.00	20.52	20.52	20.41	

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	23.50	22.95	22.98	23.06	
			13	23.50	22.93	22.92	23.07	
			24	23.50	22.95	22.90	23.15	
		12	0	23.00	21.92	22.03	22.53	
			6	22.50	21.87	21.96	22.14	
			13	22.50	21.86	21.99	22.28	
	25	0	22.50	21.82	21.98	22.19		
	16QAM	1	0	23.00	21.82	21.45	22.66	
			13	22.50	21.76	21.45	22.39	
			24	22.50	21.96	21.41	22.33	
		12	0	21.50	20.78	21.44	21.49	
			6	21.50	21.34	21.43	21.12	
			13	21.50	21.40	20.93	21.11	
		25	0	22.00	21.36	21.51	21.24	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297
668.0MHz							680.5MHz	693.0MHz
10MHz	QPSK	1	0	23.00	22.82	22.97	22.90	
			25	23.00	22.82	22.99	22.96	
			49	23.50	22.86	23.06	23.14	
		25	0	22.00	21.86	21.92	21.95	
			13	22.50	22.00	21.93	22.15	
			25	22.50	21.90	21.84	22.23	
	50	0	22.50	22.04	21.92	22.13		
	16QAM	1	0	22.00	21.79	21.91	21.69	
			25	22.50	22.01	21.85	21.88	
			49	22.00	21.97	21.82	21.90	
		25	0	21.50	21.42	20.93	21.08	
			13	21.50	21.09	21.48	21.08	
			25	21.50	21.10	20.92	21.19	
		50	0	21.50	20.96	21.45	21.14	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297
670.5MHz							680.5MHz	690.5MHz
15MHz	QPSK	1	0	23.00	22.79	22.92	22.90	
			38	23.00	22.88	22.93	22.96	
			74	23.50	22.88	23.07	23.11	
		36	0	22.50	22.00	22.02	22.07	
			18	22.50	21.93	21.91	22.01	
			39	23.00	22.03	21.90	22.50	
	75	0	22.50	21.91	21.94	22.08		
	16QAM	1	0	22.00	21.98	21.93	21.62	
			38	22.50	22.17	21.90	21.74	
			74	22.50	22.33	22.00	21.90	
		36	0	21.50	20.83	20.99	21.44	
			18	21.50	20.93	21.49	21.12	
			39	22.00	21.40	21.56	21.58	
		75	0	21.50	20.77	21.38	21.10	

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	23.00	22.92	22.95	22.93
			50	23.00	22.92	22.84	22.98
			99	23.50	23.00	23.09	23.21
		50	0	22.50	21.89	22.01	21.97
			25	22.50	22.03	21.93	22.07
			50	22.50	22.08	22.17	22.00
	100	0	22.00	21.87	21.81	21.91	
	16QAM	1	0	23.00	22.18	22.57	21.61
			50	23.00	22.24	22.65	21.50
			99	23.00	22.35	22.62	21.84
		50	0	22.00	20.95	20.95	21.53
			25	22.00	21.49	20.94	21.55
			50	22.00	21.01	21.63	21.13
		100	0	21.50	21.46	20.84	21.45

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	14.49	14.50	No	
		6	2437	13.69	14.00	No	
		11	2462	14.51	15.00	Yes	
	802.11g	1	2412	14.43	14.50	No	
		6	2437	13.66	14.00	No	
		11	2462	15.28	15.50	No	
	802.11n(HT20)	1	2412		15.70	16.00	Yes
		6	2437		13.27	13.50	No
		11	2462		14.82	15.00	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	-9.50	-11.34	-9.58	-12.01
	$\pi/4$ QPSK	-7.00	-9.11	-7.34	-9.72
	8DPSK	-6.50	-8.67	-6.95	-9.29

BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
	1Mbps	-1.50	-1.86	-2.73	-4.59

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	2.402	-1.50	0.71	0	2.79	No
0	2.402	-1.50	0.71	10	10.39	No

Note
1. 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 ≤ 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

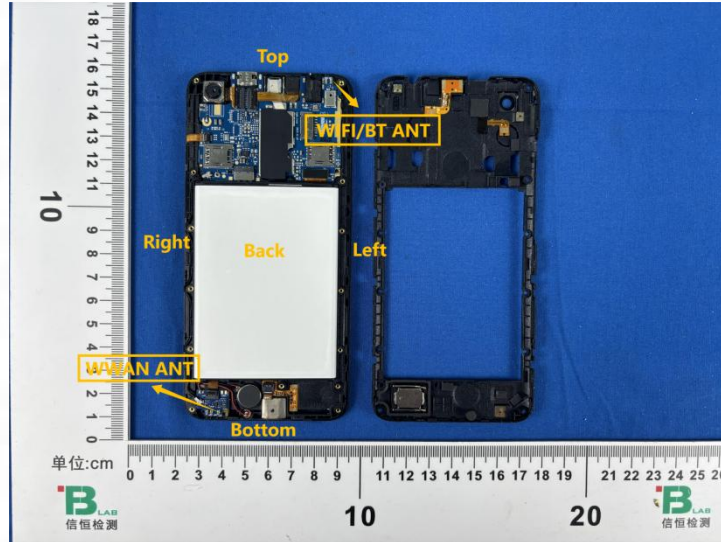
$$P_{th} (mW) = ERP_{20\text{ cm}} (mW) = \begin{cases} 2040f & 0.3\text{ GHz} \leq f < 1.5\text{ GHz} \\ 3060 & 1.5\text{ GHz} \leq f \leq 6\text{ GHz} \end{cases} \quad (B.1) \quad x = -\log_{10} \left(\frac{60}{ERP_{20\text{ cm}} \sqrt{f}} \right)$$

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.
2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
3. 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 D04v01, 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	62	<25	138	<25
BT/Wifi	<25	<25	<25	60	<25	143
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	Yes
BT/Wifi	Yes	Yes	Yes	No	Yes	No

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	0	2.402	-1.50	0.71	Estimated SAR(W/kg)	0.029	0.015

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	128	824.2	1.060	0.045	100.00	1.000	31.10	31.50	1.096	0.049	/
	Left Tilt	128	824.2	0.630	0.029	100.00	1.000	31.10	31.50	1.096	0.032	/
	Right Cheek	128	824.2	-2.900	0.048	100.00	1.000	31.10	31.50	1.096	0.053	1#
	Right Tilt	128	824.2	-2.190	0.032	100.00	1.000	31.10	31.50	1.096	0.035	/
Body(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.
GSM 850 (voice)	Front	128	824.2	3.280	0.167	100.00	1.000	31.10	31.50	1.096	0.183	/
	Back	128	824.2	-2.370	0.183	100.00	1.000	31.10	31.50	1.096	0.201	/
	Right	128	824.2	-1.800	0.116	100.00	1.000	31.10	31.50	1.096	0.127	/
	Bottom	128	824.2	2.570	0.086	100.00	1.000	31.10	31.50	1.096	0.094	/
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	3.660	0.194	100.00	1.000	29.12	29.50	1.091	0.212	/
	Back	128	824.2	0.850	0.212	100.00	1.000	29.12	29.50	1.091	0.231	2#
	Right	128	824.2	-1.930	0.134	100.00	1.000	29.12	29.50	1.091	0.146	/
	Bottom	128	824.2	2.210	0.103	100.00	1.000	29.12	29.50	1.091	0.112	/
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	810	1909.8	-0.030	0.071	100.00	1.000	27.83	28.00	1.040	0.074	/
	Left Tilt	810	1909.8	1.420	0.040	100.00	1.000	27.83	28.00	1.040	0.042	/
	Right Cheek	810	1909.8	-3.890	0.074	100.00	1.000	27.83	28.00	1.040	0.077	3#
	Right Tilt	810	1909.8	1.610	0.043	100.00	1.000	27.83	28.00	1.040	0.045	/
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.
GSM 1900 (voice)	Front	810	1909.8	1.940	0.088	100.00	1.000	27.83	28.00	1.040	0.092	/
	Back	810	1909.8	1.790	0.115	100.00	1.000	27.83	28.00	1.040	0.120	/
	Right	810	1909.8	4.170	0.076	100.00	1.000	27.83	28.00	1.040	0.079	/
	Bottom	810	1909.8	-1.660	0.103	100.00	1.000	27.83	28.00	1.040	0.107	/
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+3slots	Front	512	1850.2	0.050	0.316	100.00	1.000	23.89	24.00	1.026	0.324	/
	Back	512	1850.2	3.500	0.402	100.00	1.000	23.89	24.00	1.026	0.412	4#
	Right	512	1850.2	3.840	0.261	100.00	1.000	23.89	24.00	1.026	0.268	/
	Bottom	512	1850.2	-3.580	0.377	100.00	1.000	23.89	24.00	1.026	0.387	/
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	9538	1907.6	-0.210	0.265	100.00	1.000	21.58	22.00	1.102	0.292	/
	Left Tilt	9538	1907.6	1.700	0.136	100.00	1.000	21.58	22.00	1.102	0.150	/
	Right Cheek	9538	1907.6	2.550	0.274	100.00	1.000	21.58	22.00	1.102	0.302	5#
	Right Tilt	9538	1907.6	0.060	0.143	100.00	1.000	21.58	22.00	1.102	0.158	/
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	9538	1907.6	-4.540	0.409	100.00	1.000	21.58	22.00	1.102	0.451	/
	Back	9538	1907.6	1.560	0.582	100.00	1.000	21.58	22.00	1.102	0.641	6#
	Right	9538	1907.6	-2.260	0.239	100.00	1.000	21.58	22.00	1.102	0.263	/
	Bottom	9538	1907.6	-1.360	0.458	100.00	1.000	21.58	22.00	1.102	0.505	/
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	1413	1732.6	2.050	0.223	100.00	1.000	21.57	22.00	1.104	0.246	/
	Left Tilt	1413	1732.6	1.600	0.123	100.00	1.000	21.57	22.00	1.104	0.136	/
	Right Cheek	1413	1732.6	-0.480	0.228	100.00	1.000	21.57	22.00	1.104	0.252	7#
	Right Tilt	1413	1732.6	-2.120	0.128	100.00	1.000	21.57	22.00	1.104	0.141	/
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	1413	1732.6	-2.510	0.368	100.00	1.000	21.57	22.00	1.104	0.406	/
	Back	1413	1732.6	4.530	0.517	100.00	1.000	21.57	22.00	1.104	0.571	8#
	Right	1413	1732.6	0.360	0.225	100.00	1.000	21.57	22.00	1.104	0.248	/
	Bottom	1413	1732.6	0.710	0.435	100.00	1.000	21.57	22.00	1.104	0.480	/

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	2.030	0.282	100.00	1.000	22.11	22.50	1.094	0.309	/
	Left Tilt	4233	846.6	1.680	0.131	100.00	1.000	22.11	22.50	1.094	0.143	/
	Right Cheek	4233	846.6	4.130	0.288	100.00	1.000	22.11	22.50	1.094	0.315	9#
	Right Tilt	4233	846.6	-3.620	0.136	100.00	1.000	22.11	22.50	1.094	0.149	/
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	-2.000	0.227	100.00	1.000	22.11	22.50	1.094	0.248	/
	Back	4233	846.6	0.040	0.249	100.00	1.000	22.11	22.50	1.094	0.272	10#
	Right	4233	846.6	-2.160	0.102	100.00	1.000	22.11	22.50	1.094	0.112	/
	Bottom	4233	846.6	-2.150	0.070	100.00	1.000	22.11	22.50	1.094	0.077	/

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	-0.660	0.291	100.00	1.000	22.82	23.00	1.042	0.303	/
		Left Tilt	19100	1900.0	2.220	0.159	100.00	1.000	22.82	23.00	1.042	0.166	/
		Right Cheek	19100	1900.0	-3.320	0.303	100.00	1.000	22.82	23.00	1.042	0.316	11#
		Right Tilt	19100	1900.0	-0.300	0.165	100.00	1.000	22.82	23.00	1.042	0.172	/
	50%RB	Left Cheek	19100	1900.0	2.180	0.276	100.00	1.000	21.60	22.00	1.096	0.302	/
		Left Tilt	19100	1900.0	-1.710	0.138	100.00	1.000	21.60	22.00	1.096	0.151	/
		Right Cheek	19100	1900.0	2.080	0.288	100.00	1.000	21.60	22.00	1.096	0.316	/
		Right Tilt	19100	1900.0	1.700	0.144	100.00	1.000	21.60	22.00	1.096	0.158	/
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	-1.840	0.612	100.00	1.000	22.82	23.00	1.042	0.638	/
		Back	19100	1900.0	-0.180	0.750	100.00	1.000	22.82	23.00	1.042	0.782	12#
		Right	19100	1900.0	2.470	0.486	100.00	1.000	22.82	23.00	1.042	0.506	/
		Bottom	19100	1900.0	-3.080	0.667	100.00	1.000	22.82	23.00	1.042	0.695	/
	50%RB	Front	19100	1900.0	-2.020	0.584	100.00	1.000	21.60	22.00	1.096	0.640	/
		Back	19100	1900.0	-1.610	0.723	100.00	1.000	21.60	22.00	1.096	0.792	/
		Right	19100	1900.0	-1.060	0.462	100.00	1.000	21.60	22.00	1.096	0.506	/
		Bottom	19100	1900.0	2.030	0.641	100.00	1.000	21.60	22.00	1.096	0.703	/

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	-2.660	0.272	100.00	1.000	22.61	23.00	1.094	0.298	/
		Left Tilt	20300	1745.0	2.540	0.151	100.00	1.000	22.61	23.00	1.094	0.165	/
		Right Cheek	20300	1745.0	-2.610	0.281	100.00	1.000	22.61	23.00	1.094	0.307	13#
		Right Tilt	20300	1745.0	-3.770	0.157	100.00	1.000	22.61	23.00	1.094	0.172	/
	50%RB	Left Cheek	20300	1745.0	-2.470	0.259	100.00	1.000	21.44	22.00	1.138	0.295	/
		Left Tilt	20300	1745.0	-2.810	0.137	100.00	1.000	21.44	22.00	1.138	0.156	/
		Right Cheek	20300	1745.0	-1.570	0.265	100.00	1.000	21.44	22.00	1.138	0.302	/
		Right Tilt	20300	1745.0	1.880	0.142	100.00	1.000	21.44	22.00	1.138	0.162	/
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	-0.110	0.574	100.00	1.000	22.61	23.00	1.094	0.628	/
		Back	20300	1745.0	-2.750	0.727	100.00	1.000	22.61	23.00	1.094	0.795	14#
		Right	20300	1745.0	-2.730	0.423	100.00	1.000	22.61	23.00	1.094	0.463	/
		Bottom	20300	1745.0	-0.400	0.635	100.00	1.000	22.61	23.00	1.094	0.695	/
	50%RB	Front	20300	1745.0	-2.020	0.546	100.00	1.000	21.44	22.00	1.138	0.621	/
		Back	20300	1745.0	-1.610	0.702	100.00	1.000	21.44	22.00	1.138	0.799	/
		Right	20300	1745.0	-1.060	0.403	100.00	1.000	21.44	22.00	1.138	0.459	/
		Bottom	20300	1745.0	-4.820	0.612	100.00	1.000	21.44	22.00	1.138	0.696	/

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	20525	836.5	-0.660	0.386	100.00	1.000	23.48	23.50	1.005	0.388	/
		Left Tilt	20525	836.5	2.220	0.222	100.00	1.000	23.48	23.50	1.005	0.223	/
		Right Cheek	20525	836.5	-3.730	0.400	100.00	1.000	23.48	23.50	1.005	0.402	15#
		Right Tilt	20525	836.5	-1.590	0.231	100.00	1.000	23.48	23.50	1.005	0.232	/
	50%RB	Left Cheek	20525	836.5	2.180	0.370	100.00	1.000	22.41	22.50	1.021	0.378	/
		Left Tilt	20525	836.5	-1.730	0.204	100.00	1.000	22.41	22.50	1.021	0.208	/
		Right Cheek	20525	836.5	0.500	0.379	100.00	1.000	22.41	22.50	1.021	0.387	/
		Right Tilt	20525	836.5	1.730	0.210	100.00	1.000	22.41	22.50	1.021	0.214	/

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	20525	836.5	0.460	0.292	100.00	1.000	23.48	23.50	1.005	0.293	/
		Back	20525	836.5	-1.320	0.324	100.00	1.000	23.48	23.50	1.005	0.326	16#
		Right	20525	836.5	0.820	0.135	100.00	1.000	23.48	23.50	1.005	0.136	/
		Bottom	20525	836.5	-2.170	0.093	100.00	1.000	23.48	23.50	1.005	0.093	/
	50%RB	Front	20525	836.5	1.340	0.277	100.00	1.000	22.41	22.50	1.021	0.283	/
		Back	20525	836.5	-2.840	0.308	100.00	1.000	22.41	22.50	1.021	0.314	/
		Right	20525	836.5	0.090	0.121	100.00	1.000	22.41	22.50	1.021	0.124	/
		Bottom	20525	836.5	1.250	0.081	100.00	1.000	22.41	22.50	1.021	0.083	/

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	23095	707.5	2.500	0.147	100.00	1.000	23.20	23.50	1.072	0.158	/
		Left Tilt	23095	707.5	3.670	0.083	100.00	1.000	23.20	23.50	1.072	0.089	/
		Right Cheek	23095	707.5	-1.820	0.151	100.00	1.000	23.20	23.50	1.072	0.162	17#
		Right Tilt	23095	707.5	-2.690	0.086	100.00	1.000	23.20	23.50	1.072	0.092	/
	50%RB	Left Cheek	23095	707.5	-1.050	0.141	100.00	1.000	22.26	22.50	1.057	0.149	/
		Left Tilt	23095	707.5	-2.760	0.072	100.00	1.000	22.26	22.50	1.057	0.076	/
		Right Cheek	23095	707.5	-1.570	0.145	100.00	1.000	22.26	22.50	1.057	0.153	/
		Right Tilt	23095	707.5	1.880	0.076	100.00	1.000	22.26	22.50	1.057	0.080	/

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	23095	707.5	3.620	0.185	100.00	1.000	23.20	23.50	1.072	0.198	/
		Back	23095	707.5	-2.940	0.204	100.00	1.000	23.20	23.50	1.072	0.219	18#
		Right	23095	707.5	-4.330	0.122	100.00	1.000	23.20	23.50	1.072	0.131	/
		Bottom	23095	707.5	-3.270	0.089	100.00	1.000	23.20	23.50	1.072	0.095	/
	50%RB	Front	23095	707.5	-1.890	0.171	100.00	1.000	22.26	22.50	1.057	0.181	/
		Back	23095	707.5	-3.870	0.186	100.00	1.000	22.26	22.50	1.057	0.197	/
		Right	23095	707.5	-1.950	0.105	100.00	1.000	22.26	22.50	1.057	0.111	/
		Bottom	23095	707.5	1.400	0.076	100.00	1.000	22.26	22.50	1.057	0.080	/

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	4.740	0.214	100.00	1.000	23.10	23.50	1.096	0.235	/
		Left Tilt	23230	782.0	2.410	0.121	100.00	1.000	23.10	23.50	1.096	0.133	/
		Right Cheek	23230	782.0	-1.210	0.220	100.00	1.000	23.10	23.50	1.096	0.241	19#

50%RB	Right Tilt	23230	782.0	-3.850	0.127	100.00	1.000	23.10	23.50	1.096	0.139	/
	Left Cheek	23230	782.0	-0.490	0.192	100.00	1.000	22.20	22.50	1.072	0.206	/
	Left Tilt	23230	782.0	-4.980	0.101	100.00	1.000	22.20	22.50	1.072	0.108	/
	Right Cheek	23230	782.0	-2.330	0.201	100.00	1.000	22.20	22.50	1.072	0.215	/
	Right Tilt	23230	782.0	0.920	0.106	100.00	1.000	22.20	22.50	1.072	0.114	/

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	4.960	0.220	100.00	1.000	23.10	23.50	1.096	0.241	/
		Back	23230	782.0	-4.610	0.244	100.00	1.000	23.10	23.50	1.096	0.267	20#
		Right	23230	782.0	-1.050	0.142	100.00	1.000	23.10	23.50	1.096	0.156	/
		Bottom	23230	782.0	-2.430	0.112	100.00	1.000	23.10	23.50	1.096	0.123	/
	50%RB	Front	23230	782.0	-3.570	0.202	100.00	1.000	22.20	22.50	1.072	0.217	/
		Back	23230	782.0	-2.090	0.221	100.00	1.000	22.20	22.50	1.072	0.237	/
		Right	23230	782.0	-2.710	0.122	100.00	1.000	22.20	22.50	1.072	0.131	/
		Bottom	23230	782.0	0.440	0.100	100.00	1.000	22.20	22.50	1.072	0.107	/

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 17 (BW: 10MHz)	1RB	Left Cheek	23780	709.0	-0.320	0.154	100.00	1.000	23.38	23.50	1.028	0.158	/
		Left Tilt	23780	709.0	3.150	0.080	100.00	1.000	23.38	23.50	1.028	0.082	/
		Right Cheek	23780	709.0	-2.190	0.161	100.00	1.000	23.38	23.50	1.028	0.166	21#
		Right Tilt	23780	709.0	-3.010	0.085	100.00	1.000	23.38	23.50	1.028	0.087	/
	50%RB	Left Cheek	23780	709.0	-4.410	0.143	100.00	1.000	22.46	22.50	1.009	0.144	/
		Left Tilt	23780	709.0	-3.200	0.066	100.00	1.000	22.46	22.50	1.009	0.067	/
		Right Cheek	23780	709.0	-3.090	0.151	100.00	1.000	22.46	22.50	1.009	0.152	/
		Right Tilt	23780	709.0	-0.040	0.074	100.00	1.000	22.46	22.50	1.009	0.075	/

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 17 (BW: 10MHz)	1RB	Front	23780	709.0	0.800	0.201	100.00	1.000	23.38	23.50	1.028	0.207	/
		Back	23780	709.0	-3.170	0.221	100.00	1.000	23.38	23.50	1.028	0.227	22#
		Right	23780	709.0	-1.770	0.125	100.00	1.000	23.38	23.50	1.028	0.129	/
		Bottom	23780	709.0	2.350	0.101	100.00	1.000	23.38	23.50	1.028	0.104	/
	50%RB	Front	23780	709.0	-2.250	0.191	100.00	1.000	22.46	22.50	1.009	0.193	/
		Back	23780	709.0	-4.310	0.206	100.00	1.000	22.46	22.50	1.009	0.208	/
		Right	23780	709.0	-3.470	0.106	100.00	1.000	22.46	22.50	1.009	0.107	/
		Bottom	23780	709.0	-0.520	0.089	100.00	1.000	22.46	22.50	1.009	0.090	/

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	132072	1720.0	3.640	0.218	100.00	1.000	22.71	23.00	1.069	0.233	/
		Left Tilt	132072	1720.0	-0.330	0.107	100.00	1.000	22.71	23.00	1.069	0.114	/
		Right Cheek	132072	1720.0	3.460	0.224	100.00	1.000	22.71	23.00	1.069	0.239	23#
		Right Tilt	132072	1720.0	-1.710	0.113	100.00	1.000	22.71	23.00	1.069	0.121	/
	50%RB	Left Cheek	132072	1720.0	-3.810	0.211	100.00	1.000	21.42	21.50	1.019	0.215	/
		Left Tilt	132072	1720.0	-1.360	0.097	100.00	1.000	21.42	21.50	1.019	0.099	/
		Right Cheek	132072	1720.0	0.630	0.216	100.00	1.000	21.42	21.50	1.019	0.220	/
		Right Tilt	132072	1720.0	-3.880	0.102	100.00	1.000	21.42	21.50	1.019	0.104	/

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	132072	1720.0	4.760	0.451	100.00	1.000	22.71	23.00	1.069	0.482	/
		Back	132072	1720.0	-1.030	0.666	100.00	1.000	22.71	23.00	1.069	0.712	24#
		Right	132072	1720.0	0.830	0.266	100.00	1.000	22.71	23.00	1.069	0.284	/
		Bottom	132072	1720.0	-4.700	0.523	100.00	1.000	22.71	23.00	1.069	0.559	/
	50%RB	Front	132072	1720.0	-1.650	0.429	100.00	1.000	21.42	21.50	1.019	0.437	/
		Back	132072	1720.0	2.350	0.637	100.00	1.000	21.42	21.50	1.019	0.649	/
		Right	132072	1720.0	0.250	0.239	100.00	1.000	21.42	21.50	1.019	0.244	/
		Bottom	132072	1720.0	-4.360	0.503	100.00	1.000	21.42	21.50	1.019	0.513	/

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	133372	688.0	3.120	0.142	100.00	1.000	23.21	23.50	1.069	0.152	/
		Left Tilt	133372	688.0	2.450	0.080	100.00	1.000	23.21	23.50	1.069	0.086	/
		Right Cheek	133372	688.0	1.240	0.156	100.00	1.000	23.21	23.50	1.069	0.167	25#
		Right Tilt	133372	688.0	-1.780	0.084	100.00	1.000	23.21	23.50	1.069	0.090	/
	50%RB	Left Cheek	133372	688.0	-2.290	0.136	100.00	1.000	22.07	22.50	1.104	0.150	/
		Left Tilt	133372	688.0	-3.280	0.069	100.00	1.000	22.07	22.50	1.104	0.076	/
		Right Cheek	133372	688.0	-0.990	0.141	100.00	1.000	22.07	22.50	1.104	0.156	/
		Right Tilt	133372	688.0	-1.170	0.072	100.00	1.000	22.07	22.50	1.104	0.079	/

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	133372	688.0	4.240	0.156	100.00	1.000	23.21	23.50	1.069	0.167	/
		Back	133372	688.0	-2.640	0.176	100.00	1.000	23.21	23.50	1.069	0.188	26#
		Right	133372	688.0	-1.490	0.097	100.00	1.000	23.21	23.50	1.069	0.104	/
		Bottom	133372	688.0	-2.360	0.075	100.00	1.000	23.21	23.50	1.069	0.080	/
	50%RB	Front	133372	688.0	-3.130	0.149	100.00	1.000	22.07	22.50	1.104	0.164	/
		Back	133372	688.0	-4.390	0.168	100.00	1.000	22.07	22.50	1.104	0.185	/
		Right	133372	688.0	-1.370	0.091	100.00	1.000	22.07	22.50	1.104	0.100	/
		Bottom	133372	688.0	-1.650	0.067	100.00	1.000	22.07	22.50	1.104	0.074	/

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	11	2462.0	2.430	0.475	100.00	1.000	14.51	15.00	1.119	0.532	/	
	Left Tilt	11	2462.0	1.100	0.247	100.00	1.000	14.51	15.00	1.119	0.276	/	
	Right Cheek	11	2462.0	-3.130	0.481	100.00	1.000	14.51	15.00	1.119	0.538	27#	
	Right Tilt	11	2462.0	0.910	0.251	100.00	1.000	14.51	15.00	1.119	0.281	/	

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	11	2462.0	3.920	0.091	100.00	1.000	14.51	15.00	1.119	0.102	/	
	Back	11	2462.0	-1.650	0.127	100.00	1.000	14.51	15.00	1.119	0.142	28#	
	Left	11	2462.0	-3.770	0.073	100.00	1.000	14.51	15.00	1.119	0.082	/	
	Top	11	2462.0	0.520	0.102	100.00	1.000	14.51	15.00	1.119	0.114	/	

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) 802.11n(HT20)	Left Cheek	1	2412	0.940	0.291	100.00	1.000	15.70	16.00	1.072	0.312	/	
	Left Tilt	1	2412	-0.670	0.136	100.00	1.000	15.70	16.00	1.072	0.146	/	
	Right Cheek	1	2412	1.540	0.296	100.00	1.000	15.70	16.00	1.072	0.317	/	
	Right Tilt	1	2412	1.320	0.142	100.00	1.000	15.70	16.00	1.072	0.152	/	

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) 802.11n(HT20)	Front	1	2412	4.800	0.082	100.00	1.000	15.70	16.00	1.072	0.088	/	
	Back	1	2412	3.390	0.101	100.00	1.000	15.70	16.00	1.072	0.108	/	
	Left	1	2412	-4.180	0.068	100.00	1.000	15.70	16.00	1.072	0.073	/	
	Top	1	2412	-0.100	0.092	100.00	1.000	15.70	16.00	1.072	0.099	/	

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 D04 v01, for each exposure position, if the highest output power Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.
- Per KDB 447498 D04 v01, 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 ≥ 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 D04 v01, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^{0.1}[(tune-up limit power(dBm) - 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 ≤ 1.45 W/kg and the ratio of these highest SAR values, i.e., largest divided by smallest value, is ≤ 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:

1. When the highest measured SAR is < 0.80 W/kg, repeated measurement is not required.
2. When the highest measured SAR is ≥ 0.80 W/kg, repeat that measurement once.
3. If the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 , or when the original or repeated measurement is ≥ 1.45 W/kg, perform a second repeated measurement.
4. 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 ≥ 1.5 W/kg, perform a third repeated measurement.

Note: For 1g SAR, the highest measured 1g SAR is $0.750 < 0.80$ 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/5G Wi-Fi 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	RB allocation	Scaled			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	Bluetooth				
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.388	0.532	0.029	0.920	0.417	N/A	N/A
	Left Tilt		0.223	0.276	0.029	0.499	0.252	N/A	N/A
	Right Cheek		0.402	0.538	0.029	0.940	0.431	N/A	N/A
	Right Tilt		0.232	0.281	0.029	0.513	0.261	N/A	N/A
	Left Cheek	50%RB	0.378	0.532	0.029	0.910	0.407	N/A	N/A
	Left Tilt		0.208	0.276	0.029	0.484	0.237	N/A	N/A
	Right Cheek		0.387	0.538	0.029	0.925	0.416	N/A	N/A
	Right Tilt		0.214	0.281	0.029	0.495	0.243	N/A	N/A

Hotspot(body-worn)

Band	Test Position	RB allocation	Scaled			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	Bluetooth				
LTE Band 5 QPSK (10MHz)	Front	1RB	0.628	0.102	0.015	0.730	0.643	N/A	N/A
	Back		0.795	0.142	0.015	0.937	0.810	N/A	N/A
	Left		/	0.082	0.015	0.082	0.015	N/A	N/A
	Right		0.463	/	/	0.463	0.463	N/A	N/A
	Top		/	0.114	0.015	0.114	0.015	N/A	N/A
	Bottom		0.695	/	/	0.695	0.695	N/A	N/A
	Front	50%RB	0.628	0.102	0.015	0.730	0.643	N/A	N/A
	Back		0.795	0.142	0.015	0.937	0.810	N/A	N/A
	Left		/	0.082	0.015	0.082	0.015	N/A	N/A
	Right		0.463	/	/	0.463	0.463	N/A	N/A
	Top		/	0.114	0.015	0.114	0.015	N/A	N/A
	Bottom		0.695	/	/	0.695	0.695	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 EPGO365	2024/02/06	2025/02/05
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	2025/02/05
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2023/02/06	2025/02/05
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2023/02/06	2025/02/05
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2023/02/06	2025/02/05
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2023/02/06	2025/02/05
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 is within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) is 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)	ϵ_r		σ (s/m)		Delta (ϵ_r)	Delta (σ)	Limit	Temp (°C)	Date
	Target	Measured	Target	Measured					
750	41.90	41.80	0.89	0.86	0.24%	3.37%	±5%	20.0	20/2/2024
835	41.50	41.41	0.90	0.87	0.22%	3.33%	±5%	20.0	21/2/2024
1800	40.00	39.91	1.40	1.37	0.23%	2.14%	±5%	20.0	22/2/2024
1900	40.00	39.88	1.40	1.41	0.30%	-0.71%	±5%	20.0	23/2/2024
2450	39.20	39.08	1.80	1.81	0.31%	-0.56%	±5%	20.0	26/2/2024

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)	10g SAR (W/Kg)	1g SAR (W/Kg)	10g SAR 1W input power normalized (W/Kg)	1g SAR 1W input power normalized (W/Kg)	10g SAR Standard target (1W) (W/Kg)	1g SAR Standard target (1W) (W/Kg)	1g SAR Deviation	10g SAR Deviation
750	16	0.092	0.138	5.80	8.70	5.55	8.49	-4.50%	-2.47%
835	16	0.106	0.163	6.68	10.28	6.22	9.56	-7.40%	-7.53%
1800	16	0.312	0.588	19.68	37.10	20.10	38.40	2.09%	3.39%
1900	16	0.322	0.630	20.32	39.75	20.50	39.70	0.88%	-0.13%
2450	16	0.352	0.793	22.21	50.03	24.00	52.40	7.46%	4.52%

System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 20/2/2024

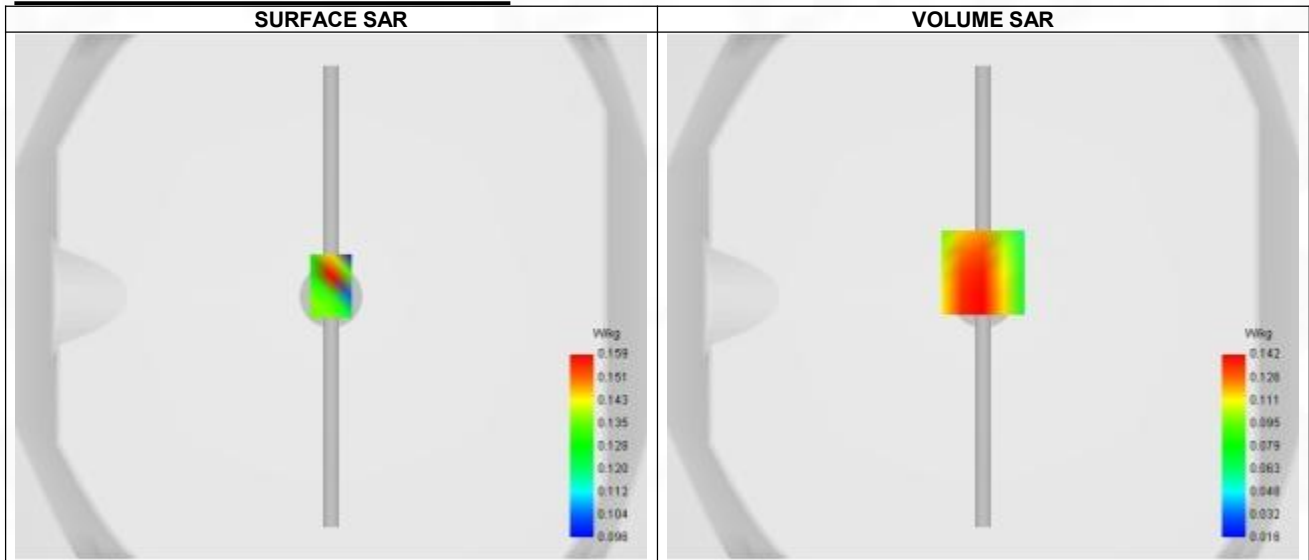
A. Experimental conditions.

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)	41.800
Relative permittivity (imaginary part)	21.460
Conductivity (S/m)	0.860

C. SAR Surface and Volume



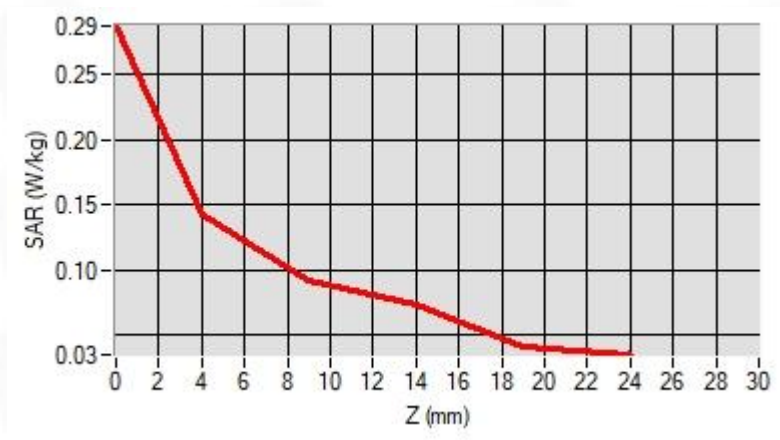
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

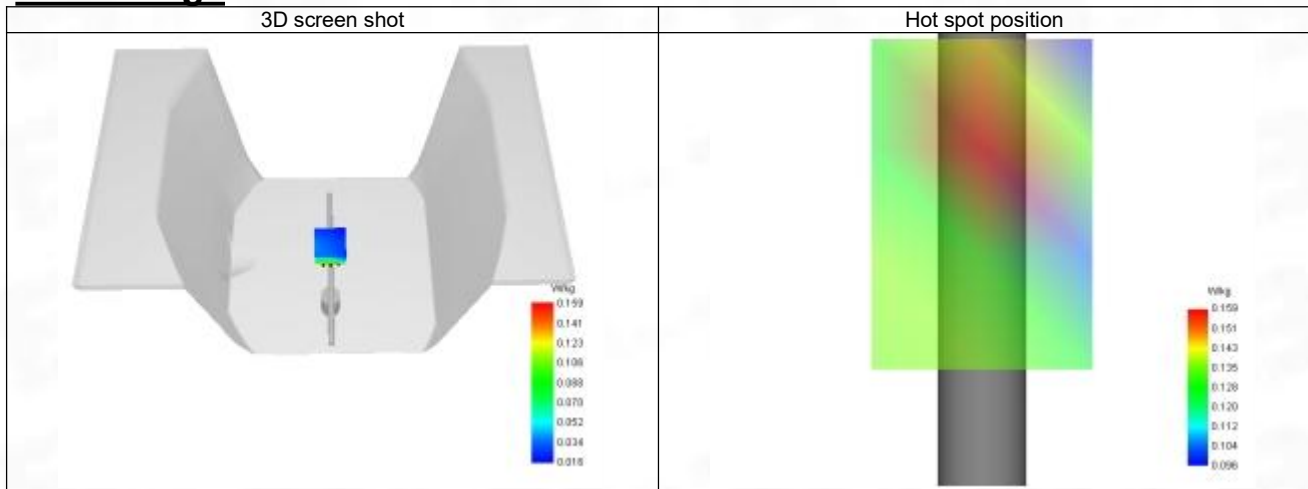
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.138
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 21/2/2024

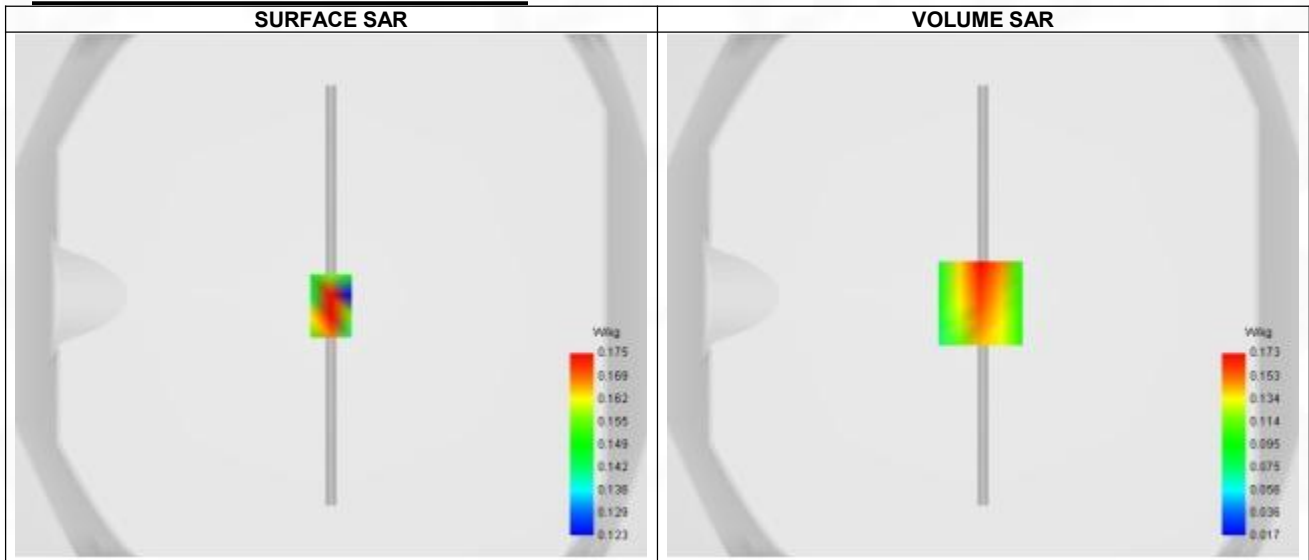
A. Experimental conditions.

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)	41.410
Relative permittivity (imaginary part)	19.490
Conductivity (S/m)	0.870

C. SAR Surface and Volume



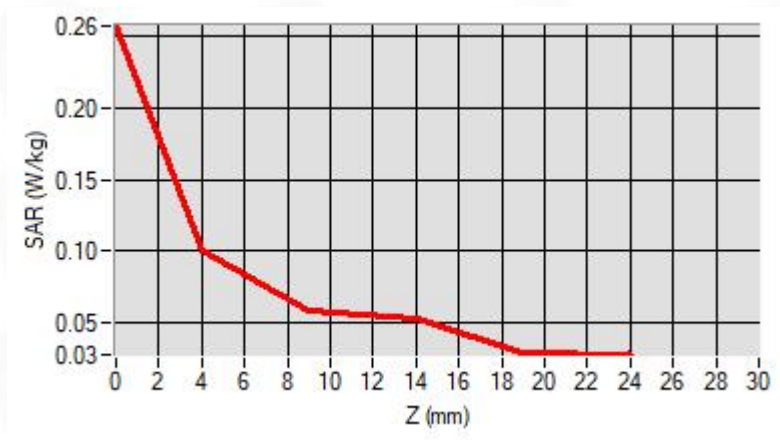
Maximum location: X=-1.00, Y=-3.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

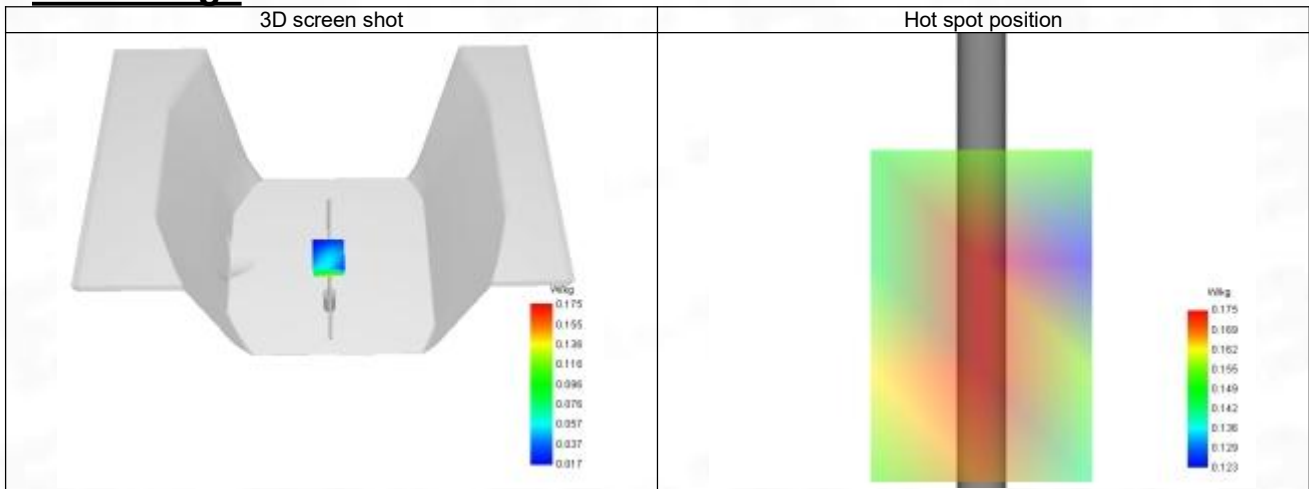
SAR 10g (W/Kg)	0.106
SAR 1g (W/Kg)	0.163
Variation (%)	-3.390
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 22/2/2024

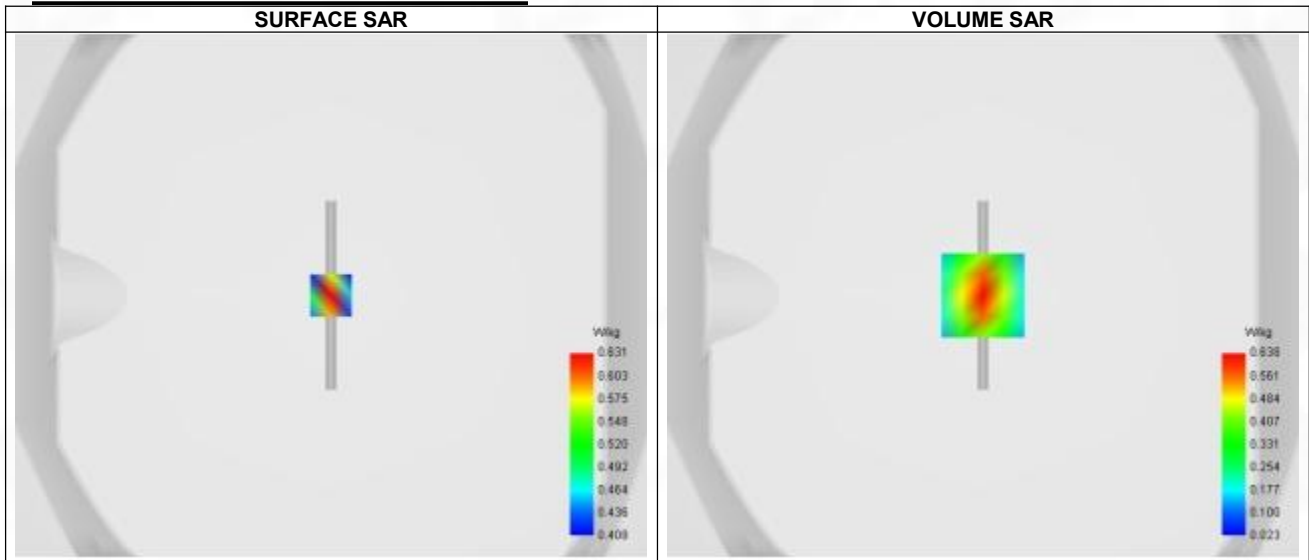
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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)	39.910
Relative permittivity (imaginary part)	14.090
Conductivity (S/m)	1.370

C. SAR Surface and Volume



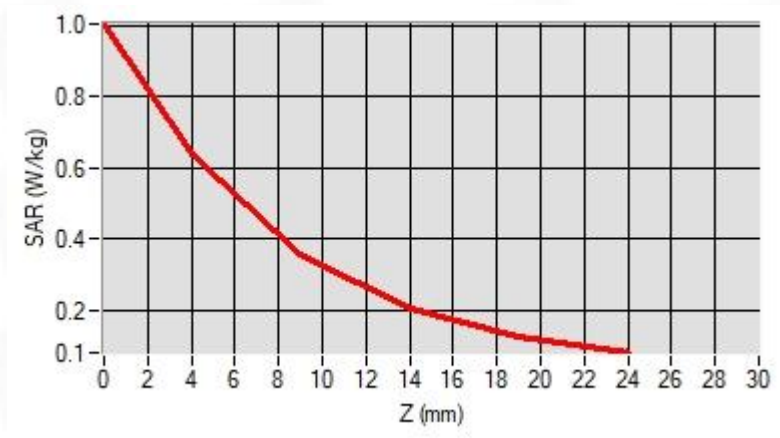
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

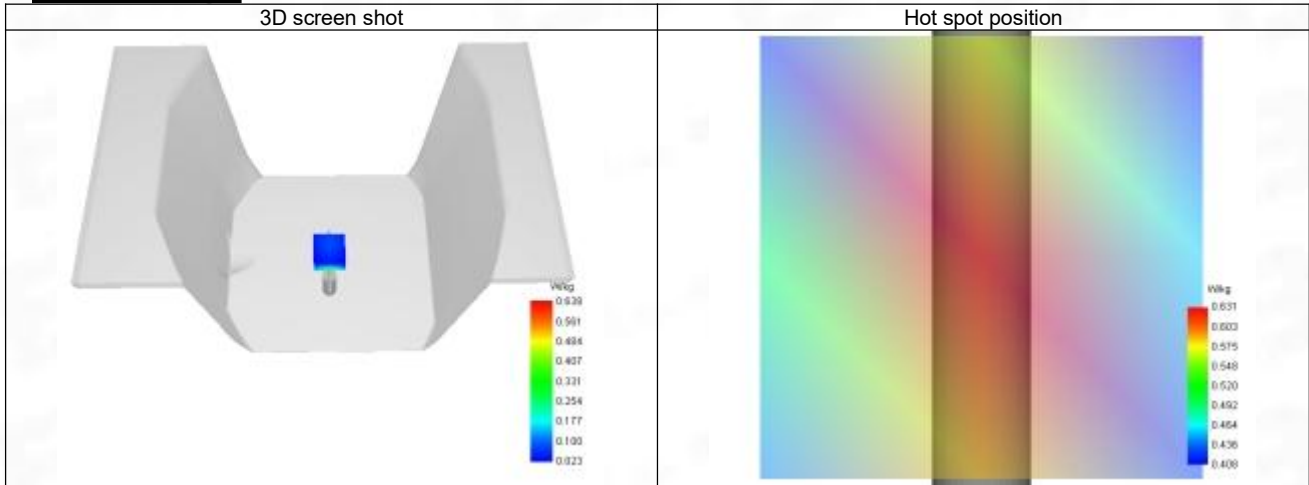
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.588
Variation (%)	-0.250
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 23/2/2024

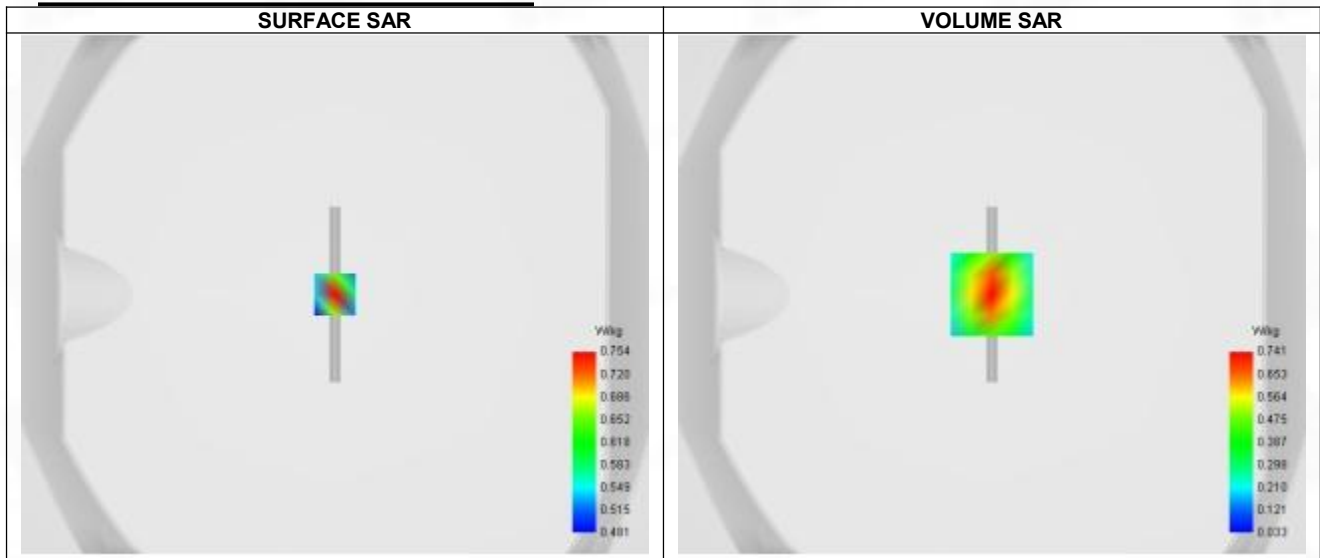
A. Experimental conditions.

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)	39.880
Relative permittivity (imaginary part)	13.380
Conductivity (S/m)	1.410

C. SAR Surface and Volume



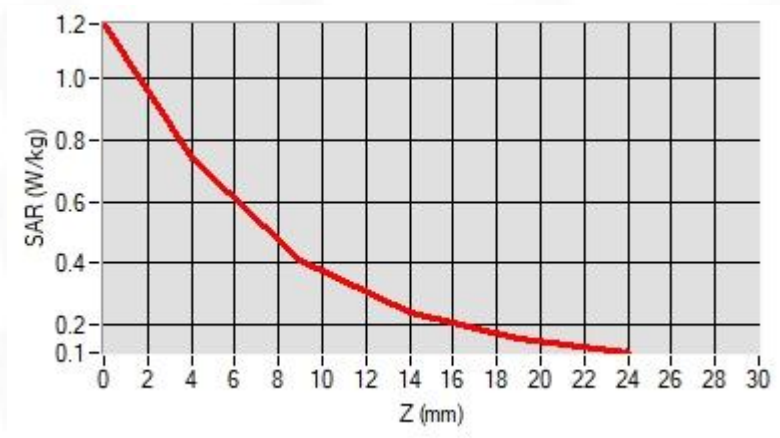
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

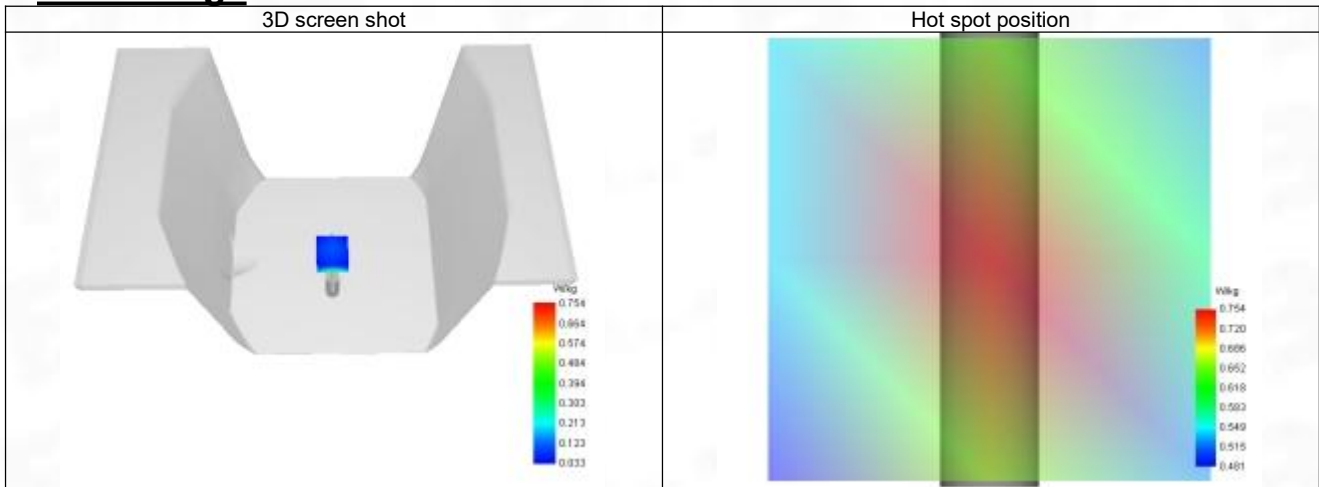
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.630
Variation (%)	-2.080
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 26/2/2024

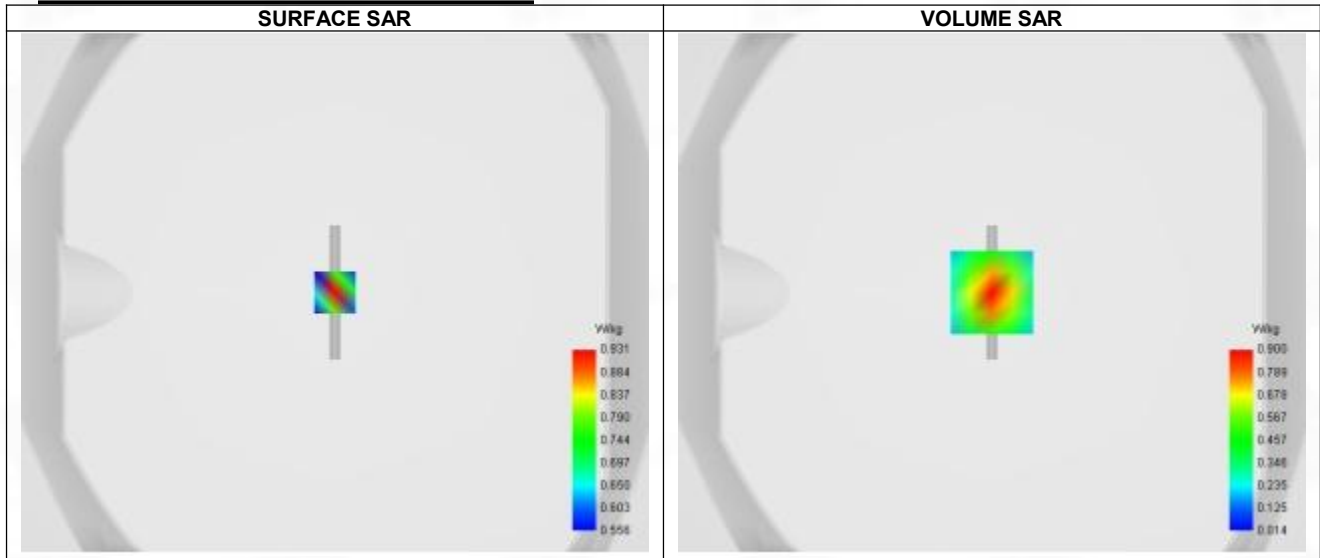
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	5x5x7, dx=5mm dy=5mm 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)	39.080
Relative permittivity (imaginary part)	13.340
Conductivity (S/m)	1.810

C. SAR Surface and Volume



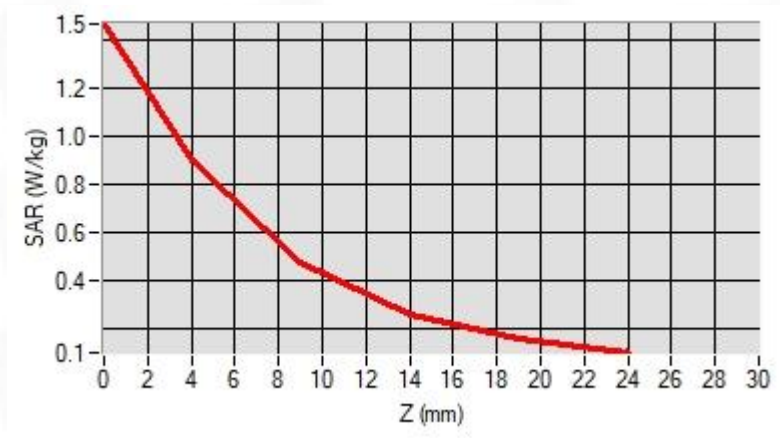
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

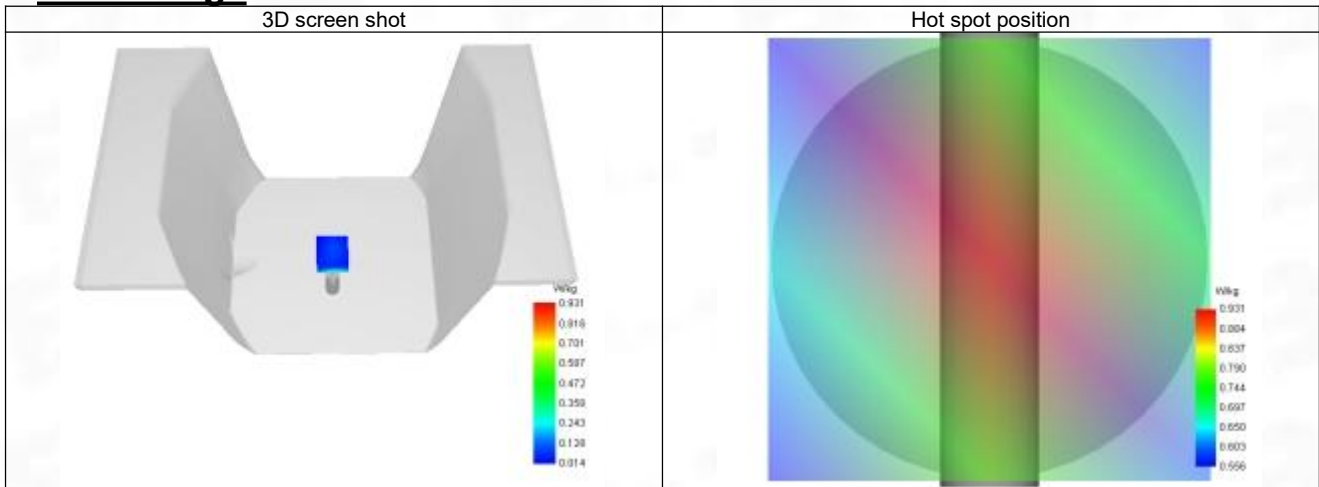
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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



ANNEX C Test Data

1-Head with front position in dist. 0mm on Channel 128 in GSM850 voice

SAR Measurement at GSM850 (Cheek, Right)

Date of measurement: 21/2/2024

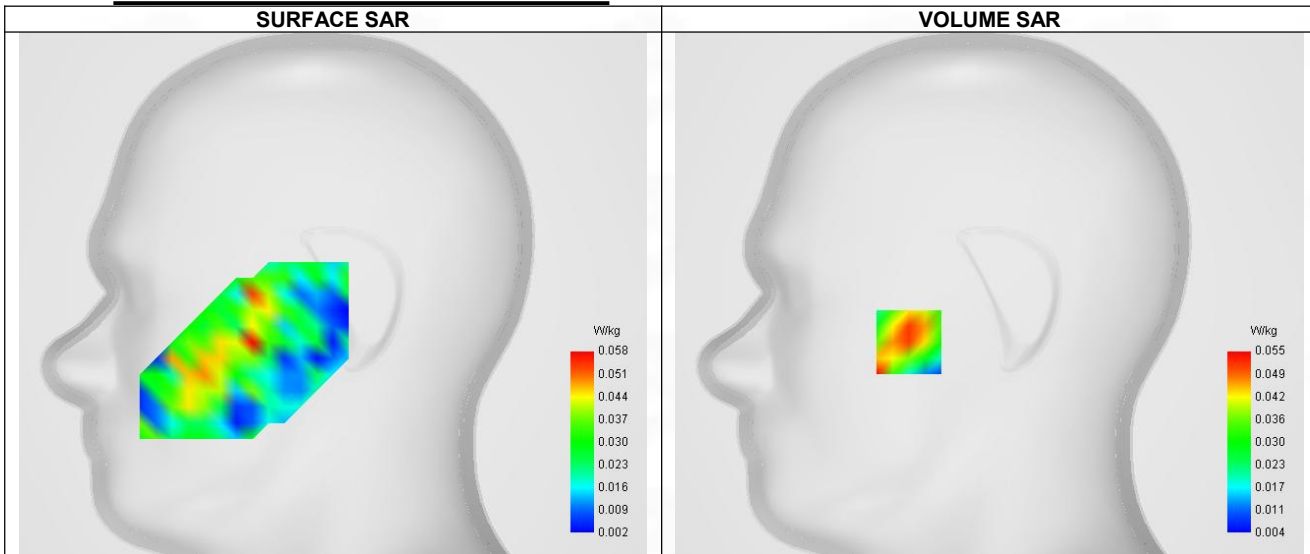
A. Experimental conditions.

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	Lower (128)
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Frequency (MHz)	824.200
Relative permittivity (real part)	41.460
Relative permittivity (imaginary part)	19.740
Conductivity (S/m)	0.869

C. SAR Surface and Volume



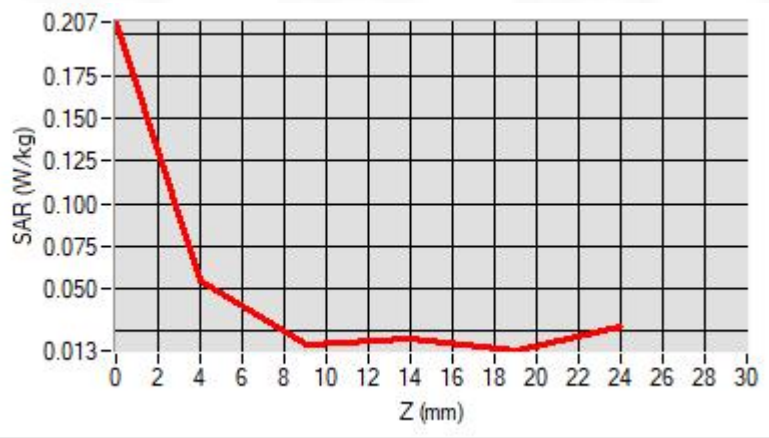
Maximum location: X=-40.00, Y=-24.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

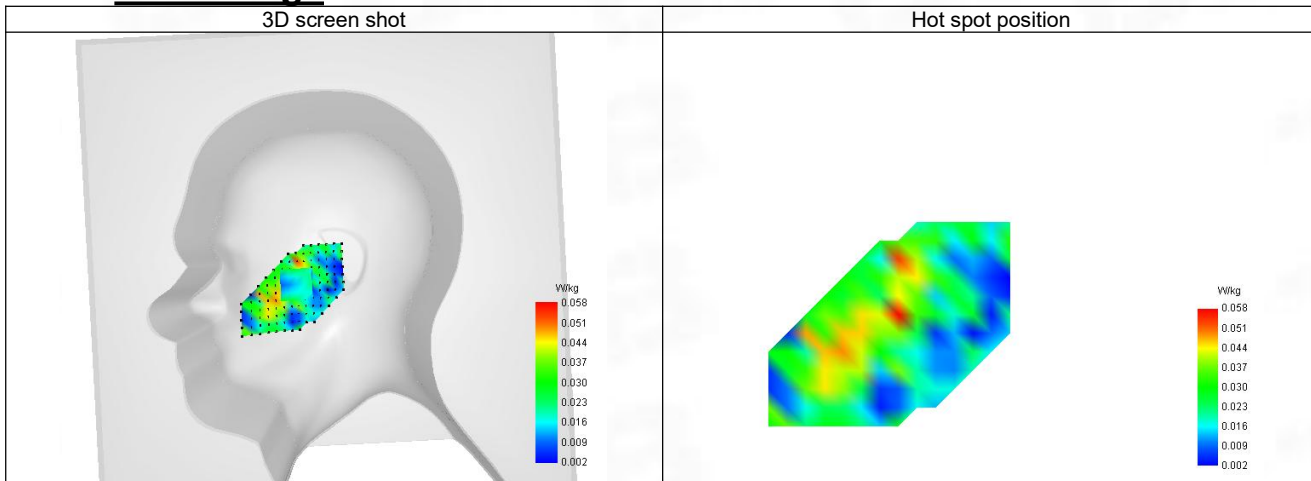
SAR 10g (W/Kg)	0.035
SAR 1g (W/Kg)	0.048
Variation (%)	-2.900
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.207	0.055	0.016	0.020	0.013



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: 21/2/2024

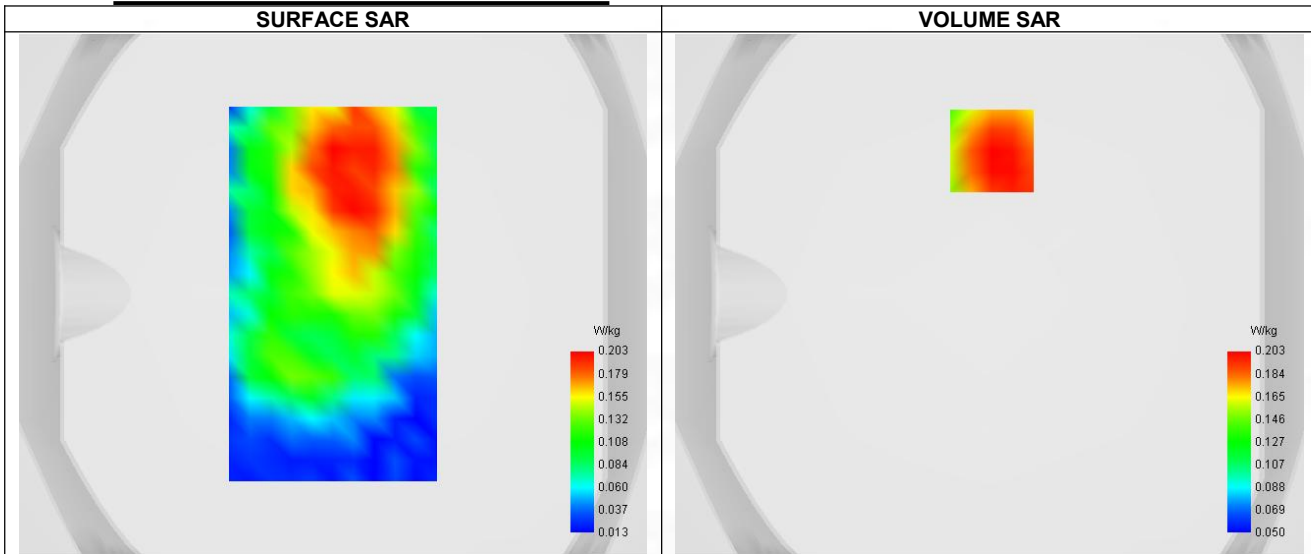
A. Experimental conditions.

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)	41.460
Relative permittivity (imaginary part)	19.740
Conductivity (S/m)	0.869

C. SAR Surface and Volume



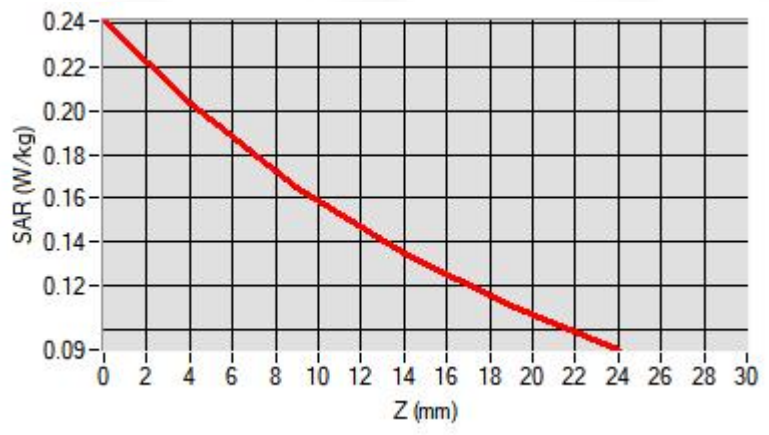
Maximum location: X=1.00, Y=55.00 ; SAR Peak: 0.25 W/kg

D. SAR 1g & 10g

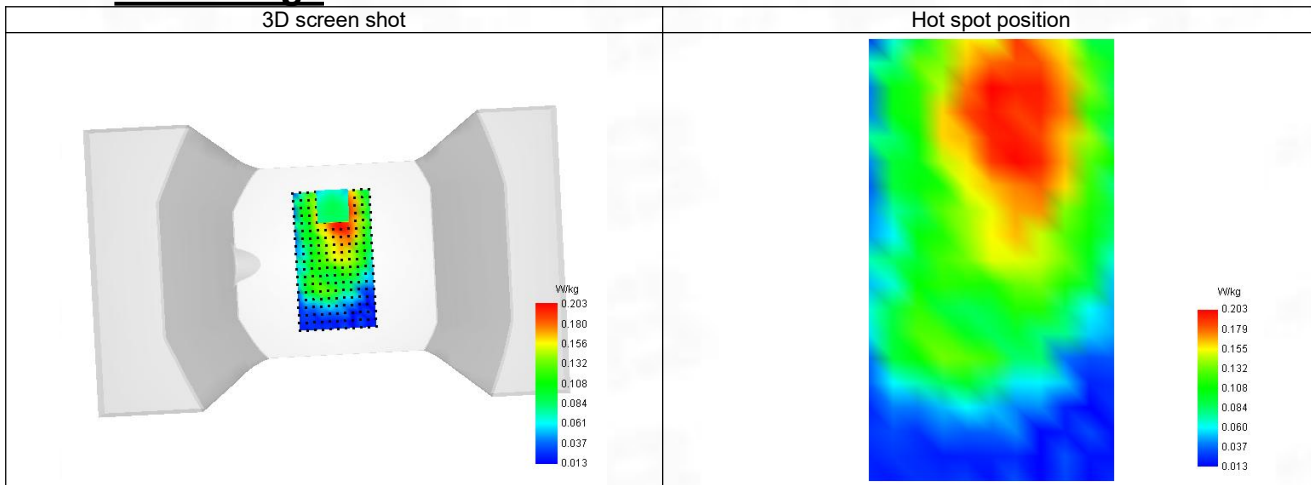
SAR 10g (W/Kg)	0.162
SAR 1g (W/Kg)	0.212
Variation (%)	0.850
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.241	0.203	0.165	0.134	0.110



F. 3D Image



3-Head with front position in dist. 0mm on Channel 810 in GSM1900 voice

SAR Measurement at GSM1900 (Cheek, Right)

Date of measurement: 23/2/2024

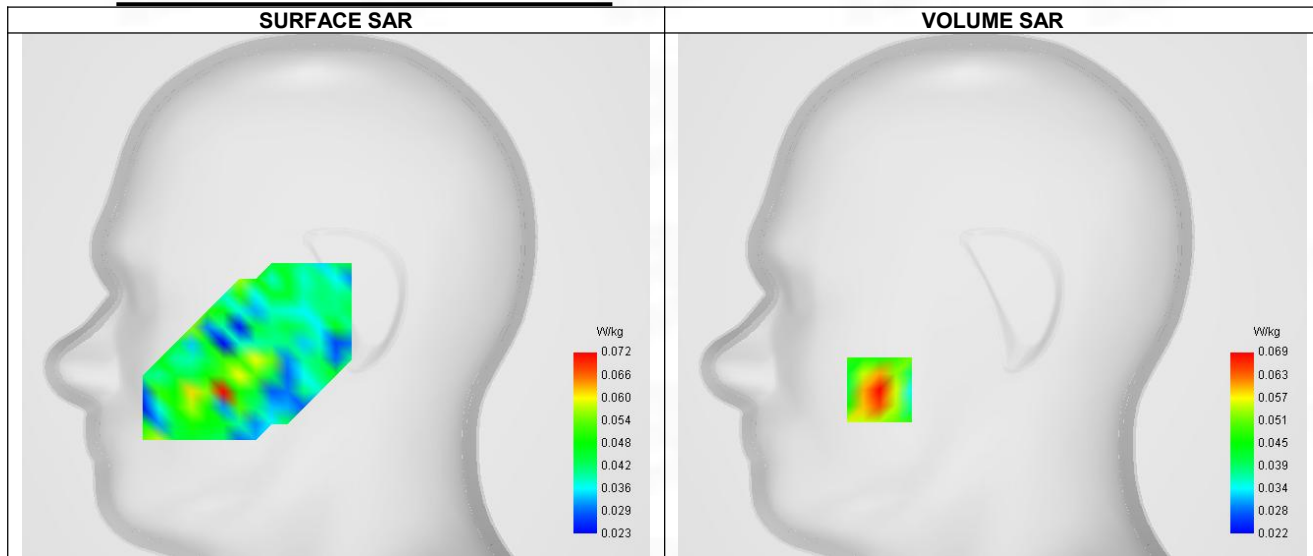
A. Experimental conditions.

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	GSM1900
Channels	Higher (810)
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Frequency (MHz)	1909.800
Relative permittivity (real part)	39.866
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.417

C. SAR Surface and Volume



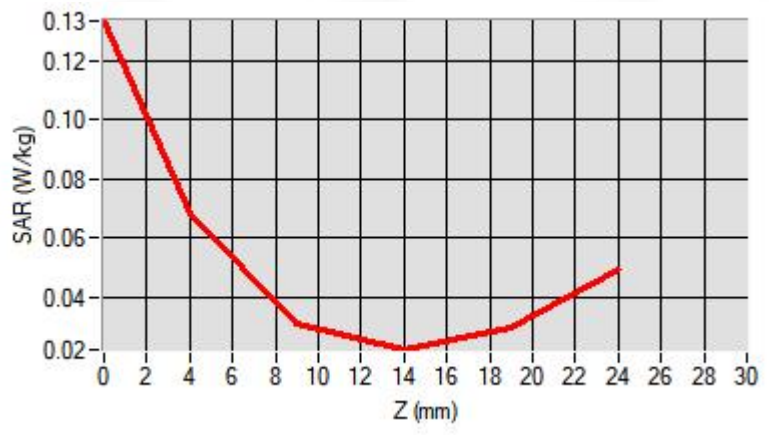
Maximum location: X=-56.00, Y=-47.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

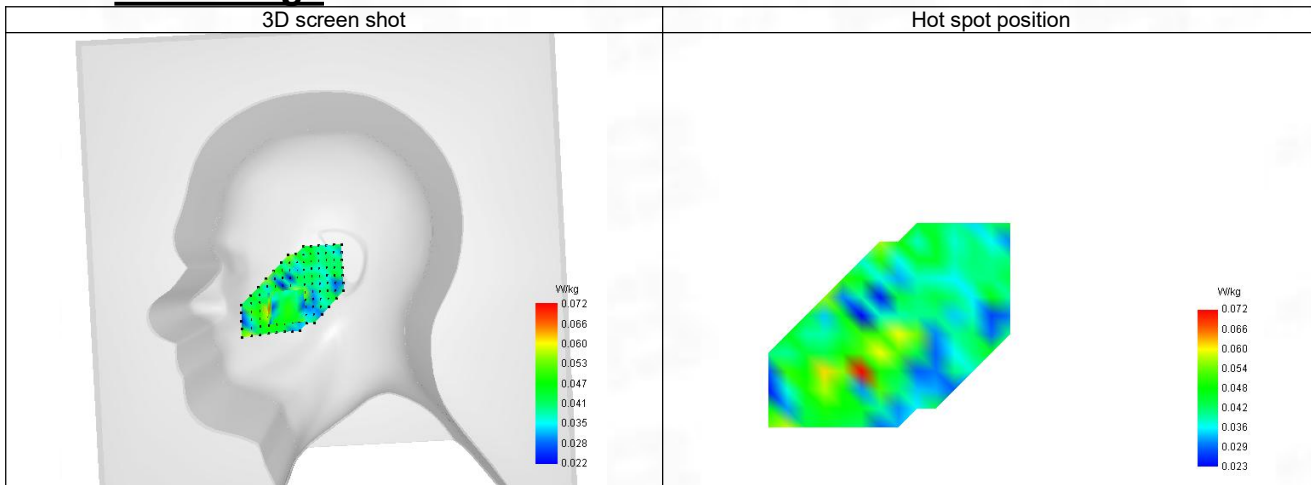
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.074
Variation (%)	-3.890
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.133	0.069	0.031	0.022	0.030



F. 3D Image



4-Body with back position in dist. 10mm on Channel 512 in GPRS1900+3slots

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 23/2/2024

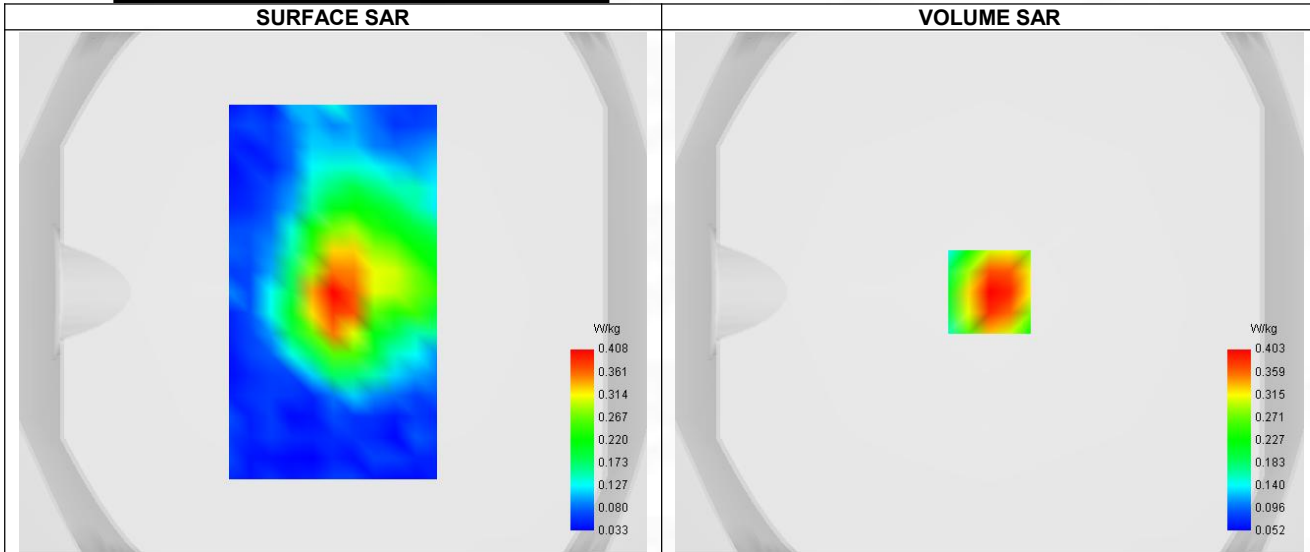
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	3

B. Permittivity

Frequency (MHz)	1850.200
Relative permittivity (real part)	39.895
Relative permittivity (imaginary part)	13.734
Conductivity (S/m)	1.390

C. SAR Surface and Volume



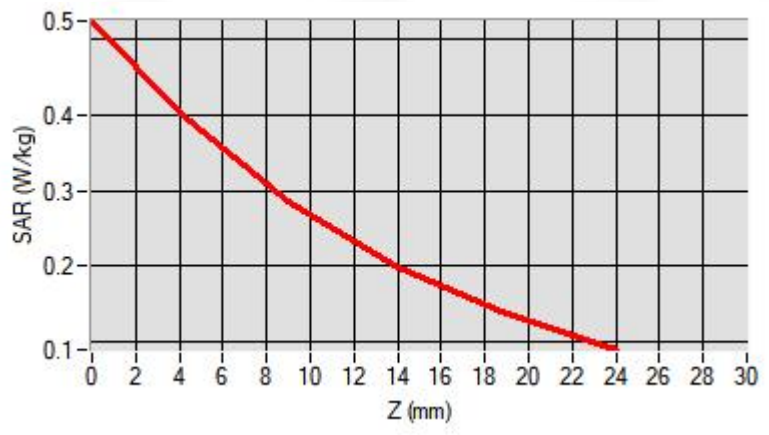
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.54 W/kg

D. SAR 1g & 10g

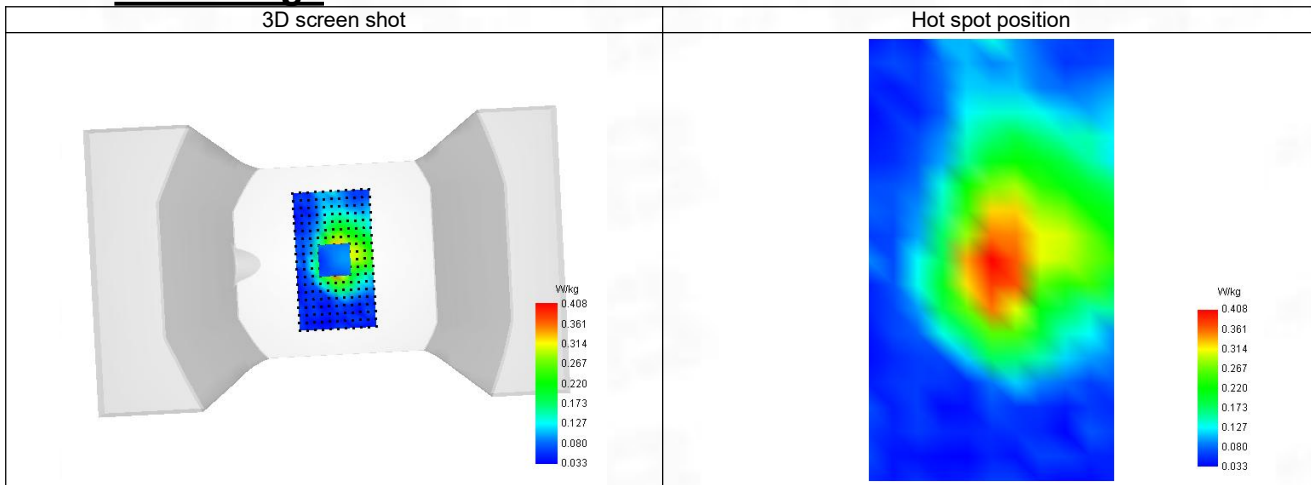
SAR 10g (W/Kg)	0.262
SAR 1g (W/Kg)	0.402
Variation (%)	3.500
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.525	0.403	0.285	0.199	0.137



F. 3D Image



5-Head with front position in dist. 0mm on Channel 9538 in WCDMA Band 2

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

Date of measurement: 23/2/2024

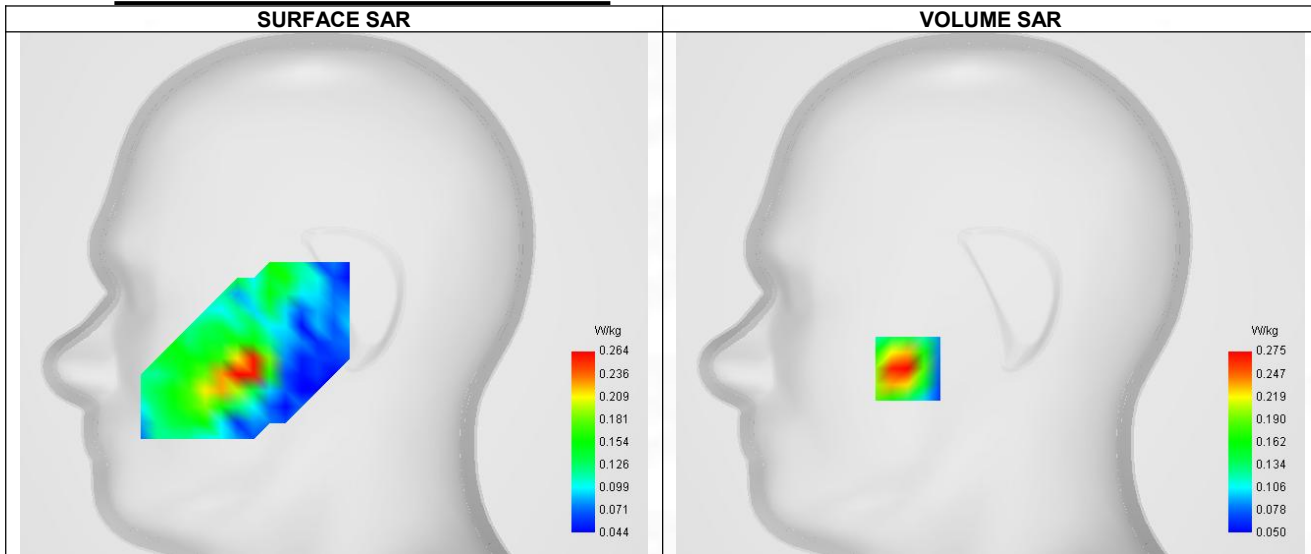
A. Experimental conditions.

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	Band 2 (1900)
Channels	Higher (9538)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	39.869
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.416

C. SAR Surface and Volume



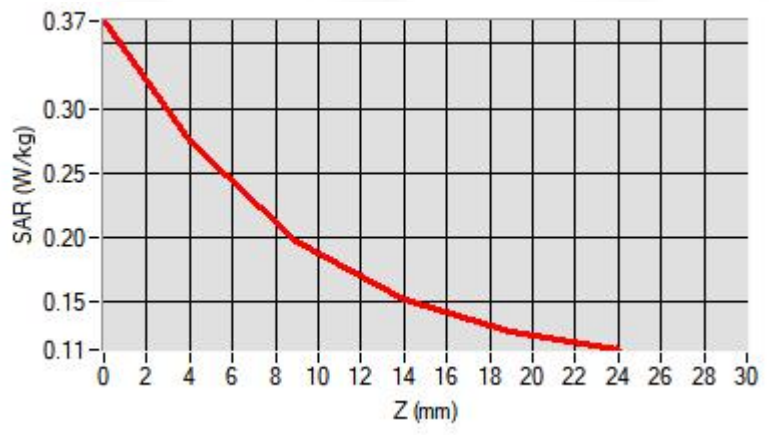
Maximum location: X=-41.00, Y=-37.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

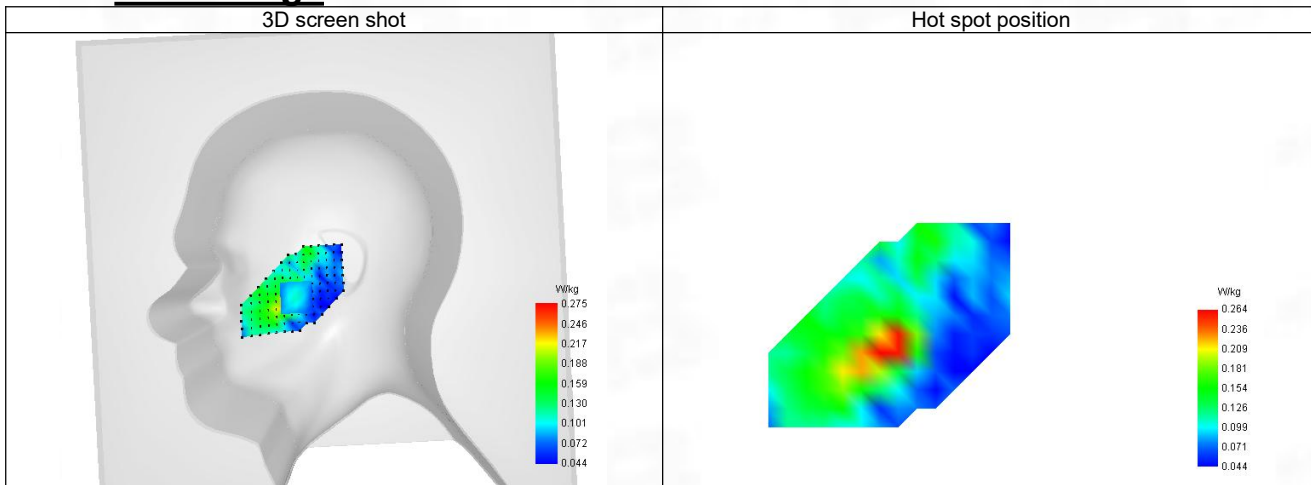
SAR 10g (W/Kg)	0.176
SAR 1g (W/Kg)	0.274
Variation (%)	2.550
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.368	0.275	0.197	0.151	0.128



F. 3D Image



6-Body with back position in dist. 10mm on Channel 9538 in WCDMA Band 2

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

Date of measurement: 23/2/2024

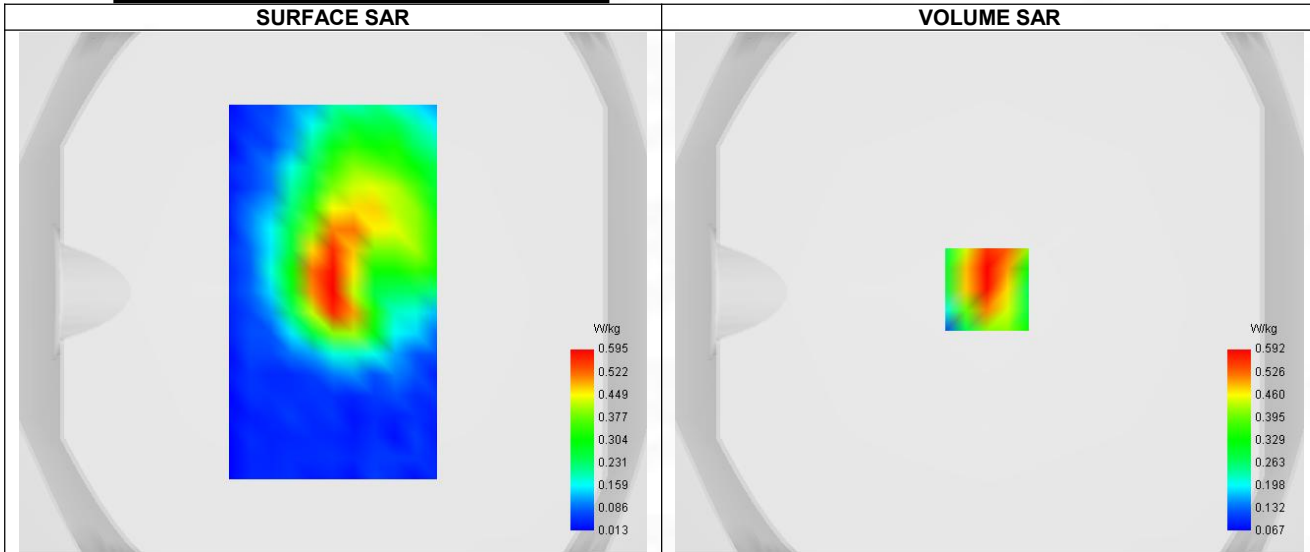
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Higher (9538)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1907.600
Relative permittivity (real part)	39.869
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.416

C. SAR Surface and Volume



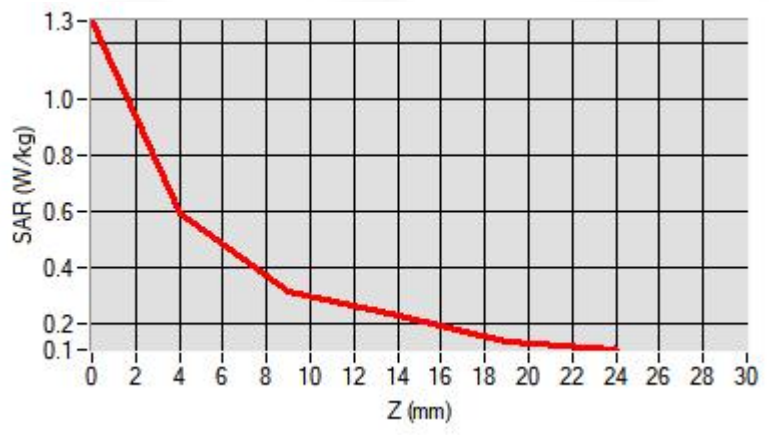
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 0.89 W/kg

D. SAR 1g & 10g

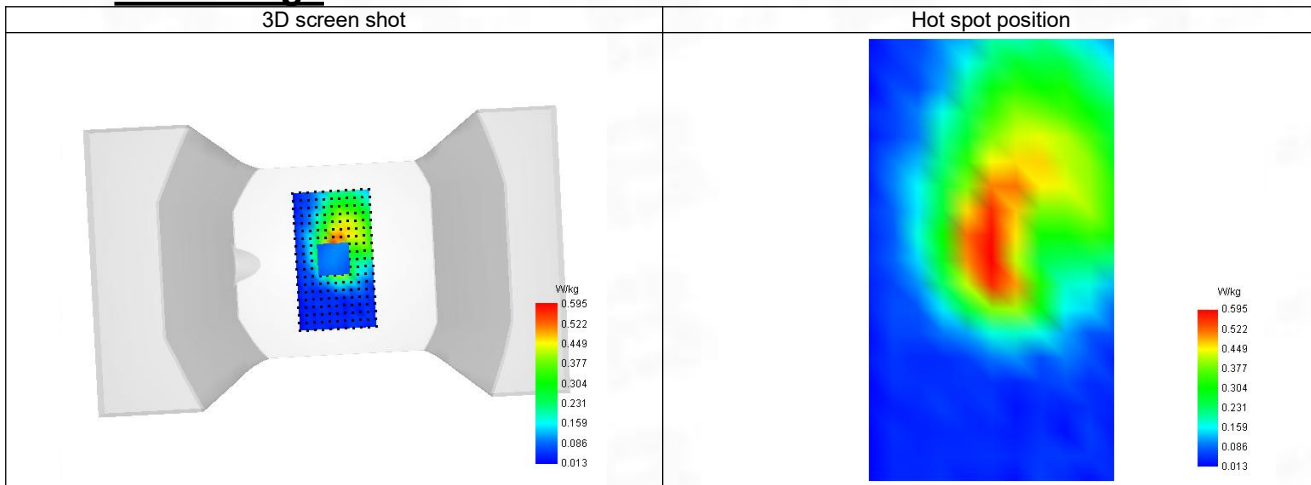
SAR 10g (W/Kg)	0.342
SAR 1g (W/Kg)	0.582
Variation (%)	1.560
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.276	0.592	0.309	0.226	0.135



F. 3D Image



7-Head with front position in dist. 0mm on Channel 1413 in WCDMA Band 4

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

Date of measurement: 22/2/2024

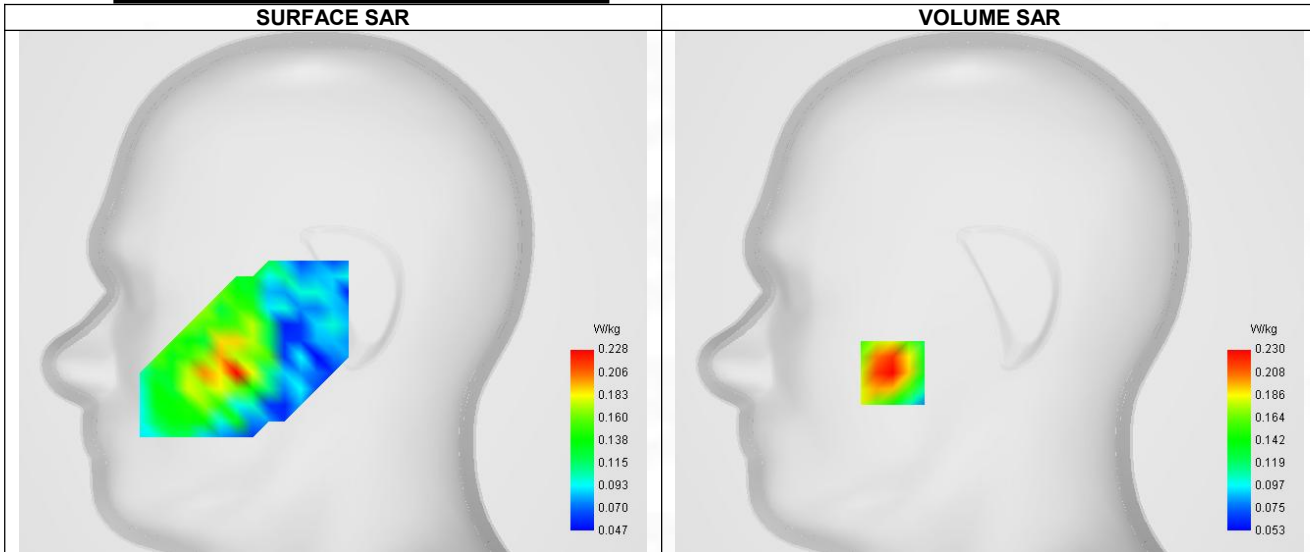
A. Experimental conditions.

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	Middle (1413)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1732.600
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume



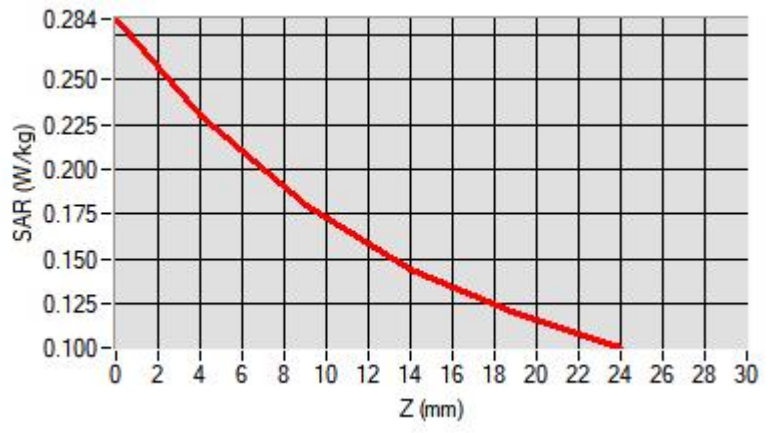
Maximum location: X=-48.00, Y=-40.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

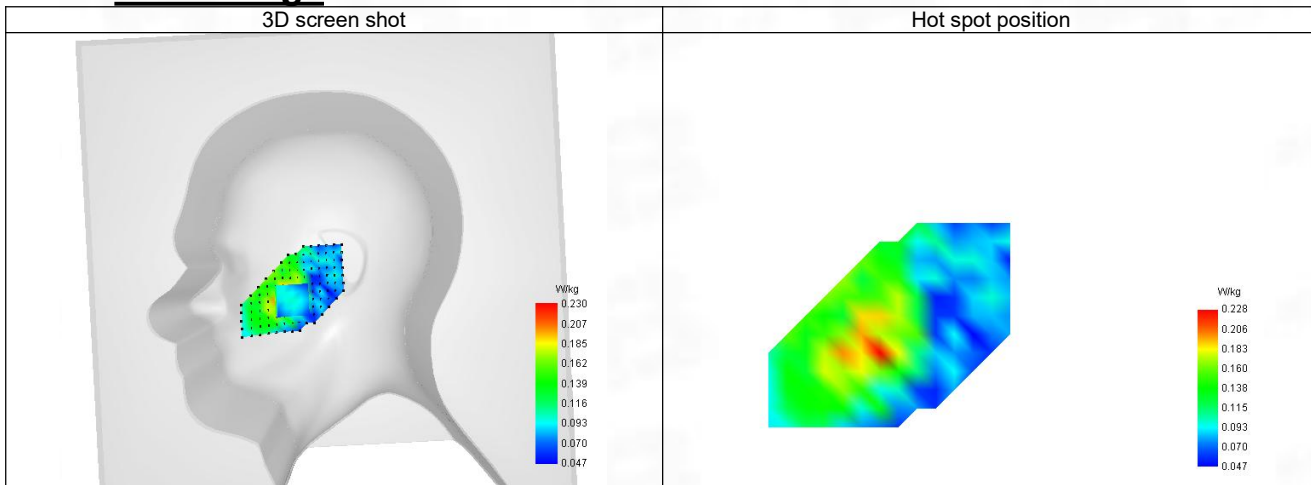
SAR 10g (W/Kg)	0.165
SAR 1g (W/Kg)	0.228
Variation (%)	-0.480
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.284	0.230	0.180	0.144	0.120



F. 3D Image



8-Body with back position in dist. 10mm on Channel 1413 in WCDMA Band 4

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

Date of measurement: 22/2/2024

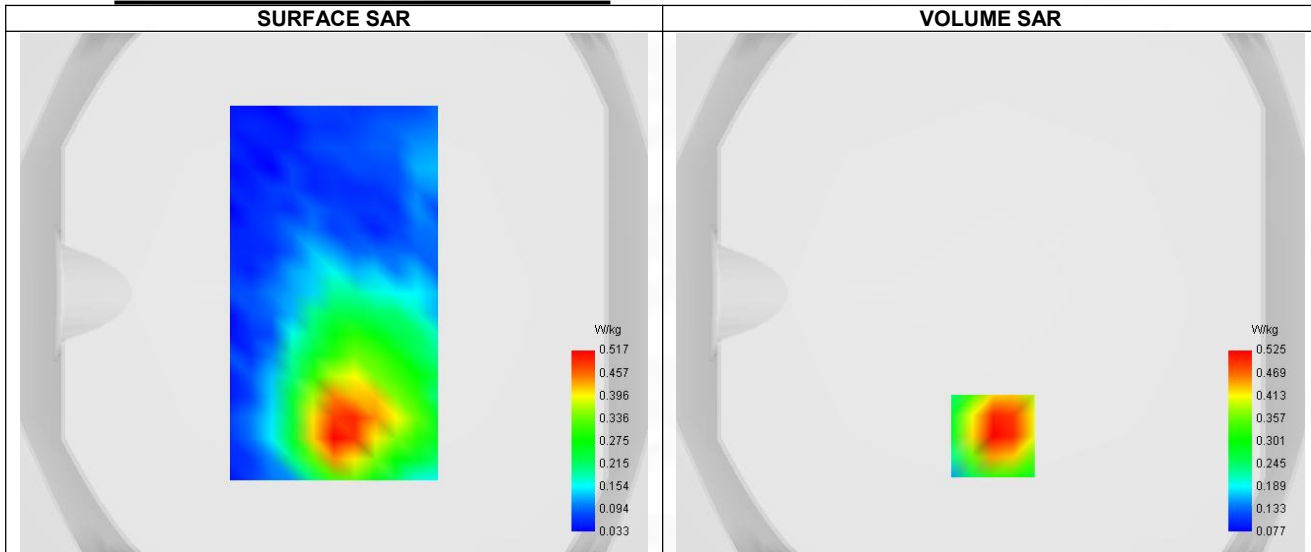
A. Experimental conditions.

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	Middle (1413)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1732.600
Relative permittivity (real part)	40.015
Relative permittivity (imaginary part)	14.467
Conductivity (S/m)	1.335

C. SAR Surface and Volume



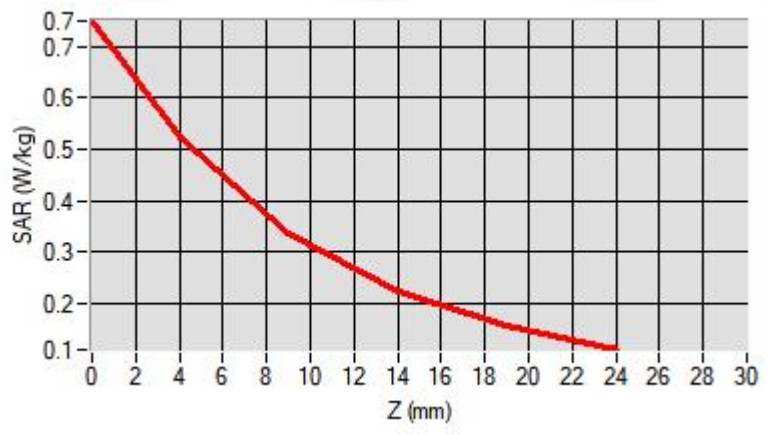
Maximum location: X=1.00, Y=-55.00 ; SAR Peak: 0.76 W/kg

D. SAR 1g & 10g

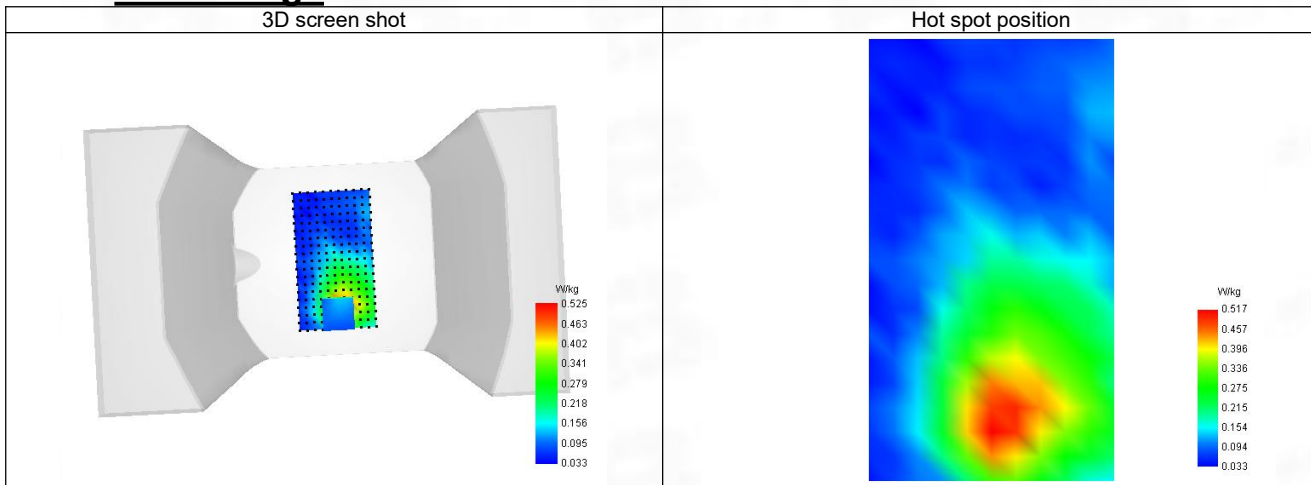
SAR 10g (W/Kg)	0.326
SAR 1g (W/Kg)	0.517
Variation (%)	4.530
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.749	0.525	0.337	0.223	0.156



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: 21/2/2024

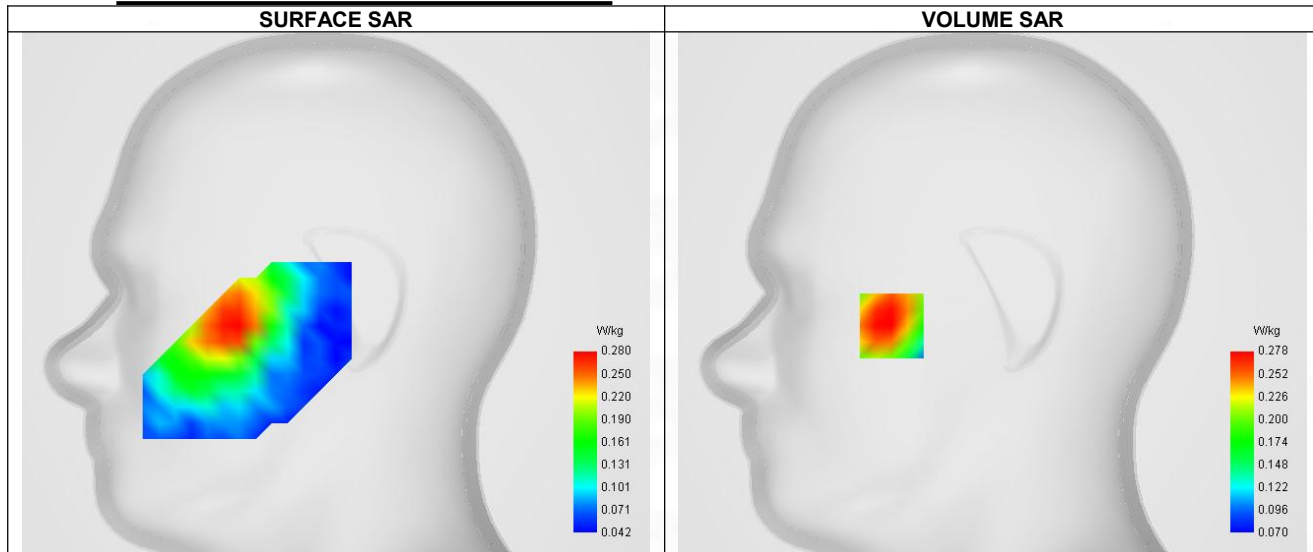
A. Experimental conditions.

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)	41.392
Relative permittivity (imaginary part)	19.425
Conductivity (S/m)	0.876

C. SAR Surface and Volume



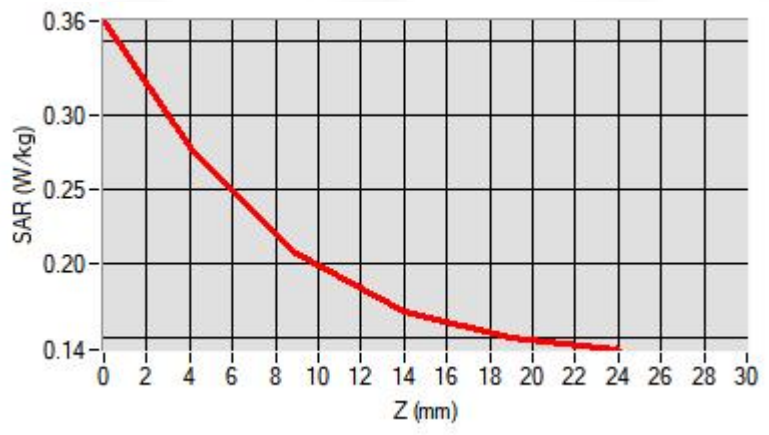
Maximum location: X=-50.00, Y=-16.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

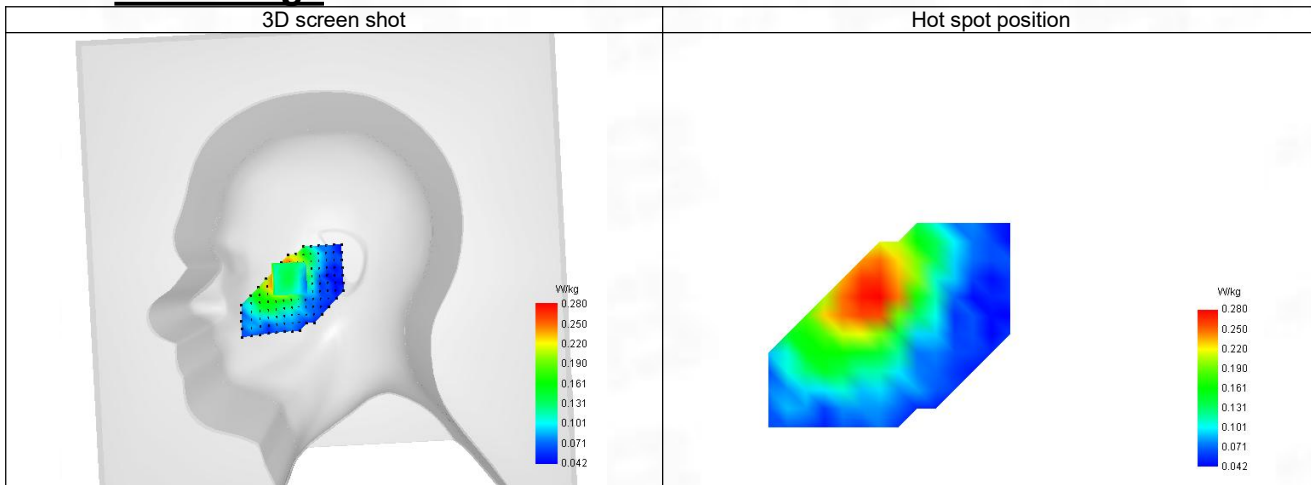
SAR 10g (W/Kg)	0.215
SAR 1g (W/Kg)	0.288
Variation (%)	4.130
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.363	0.278	0.208	0.169	0.151



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: 21/2/2024

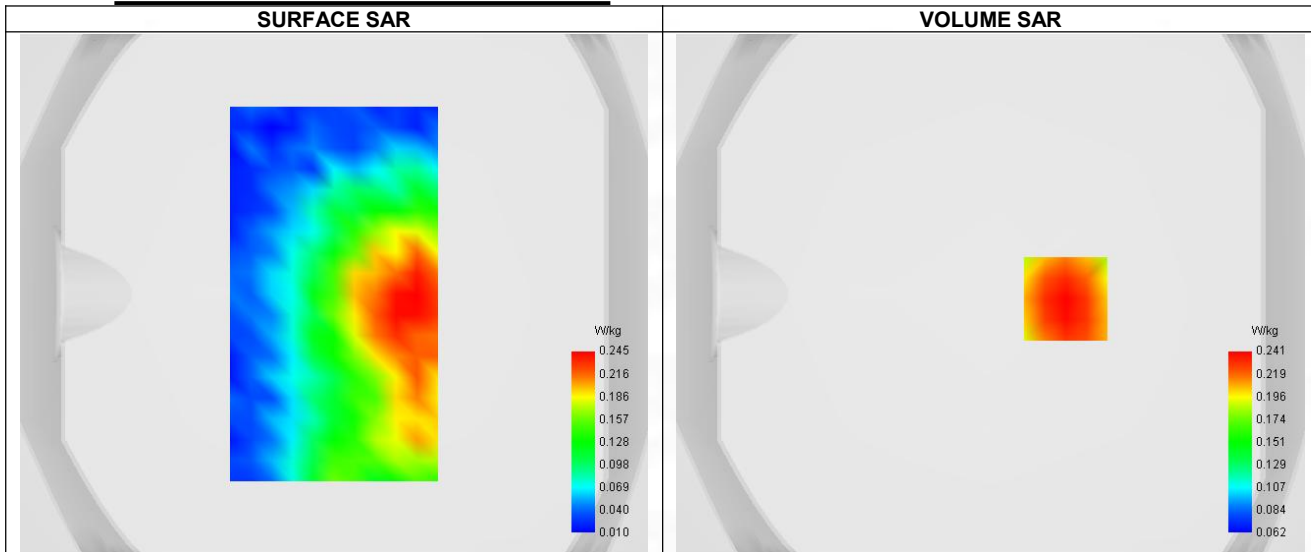
A. Experimental conditions.

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)	41.392
Relative permittivity (imaginary part)	19.425
Conductivity (S/m)	0.876

C. SAR Surface and Volume



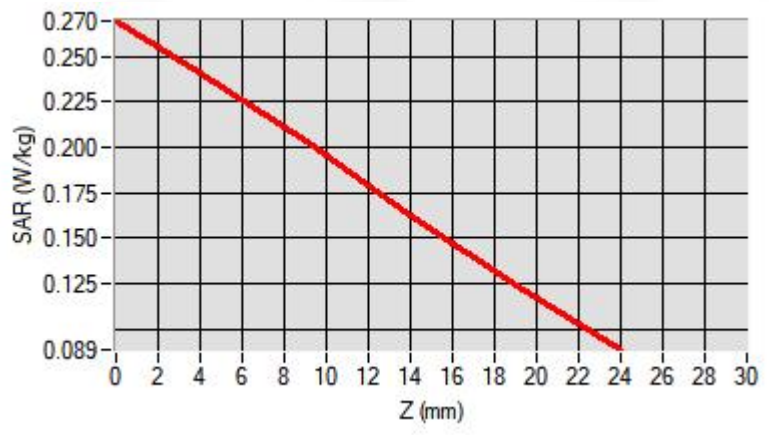
Maximum location: X=29.00, Y=-2.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

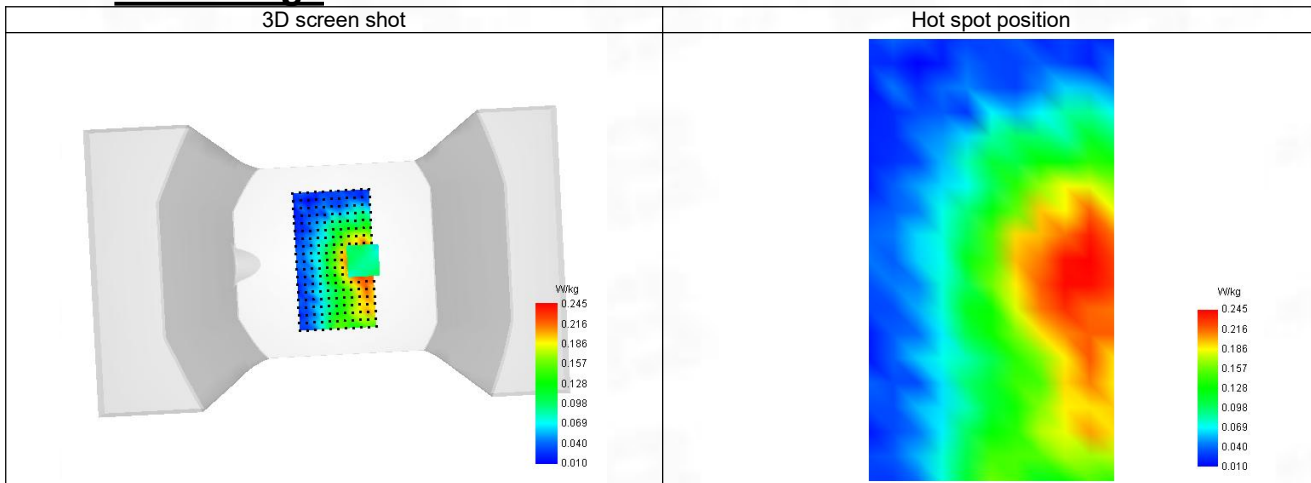
SAR 10g (W/Kg)	0.190
SAR 1g (W/Kg)	0.249
Variation (%)	0.040
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.270	0.241	0.203	0.163	0.124



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: 23/2/2024

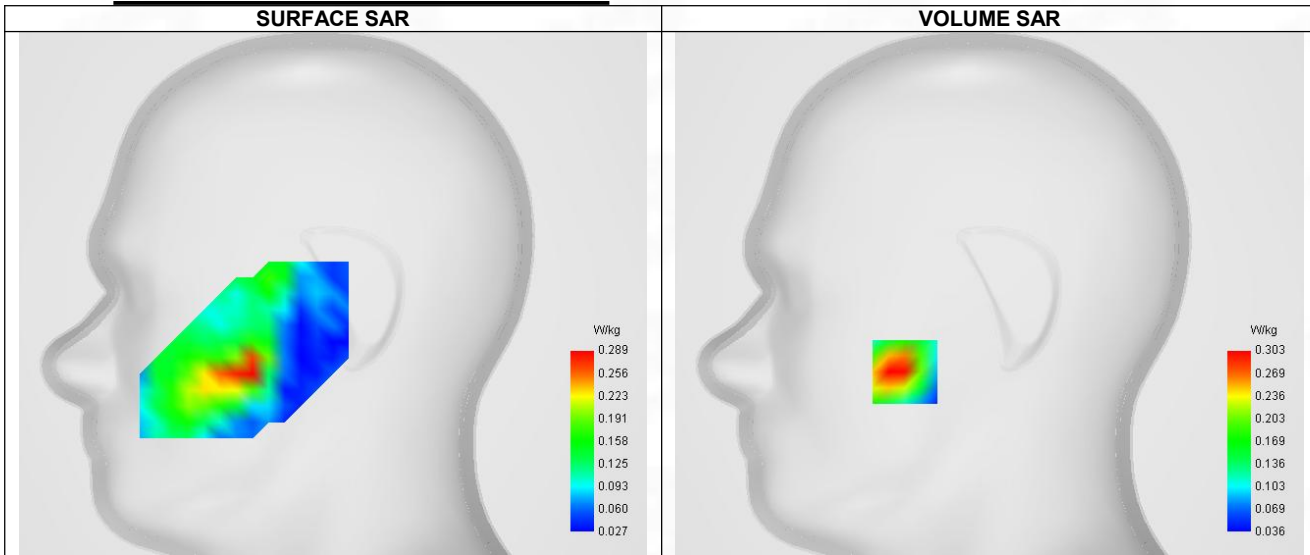
A. Experimental conditions.

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	LTE band 2
Channels	Higher (19100)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	1908.910
Relative permittivity (real part)	39.867
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.416

C. SAR Surface and Volume



Maximum location: X=-42.00, Y=-39.00 ; SAR Peak: 0.42 W/kg

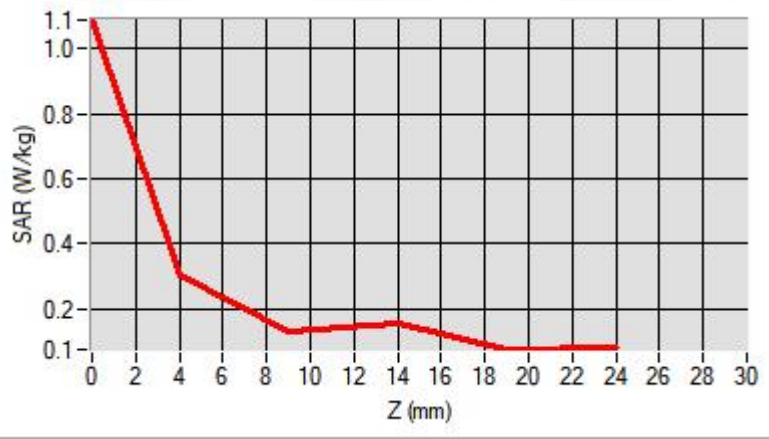
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.186
SAR 1g (W/Kg)	0.303
Variation (%)	-3.320
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

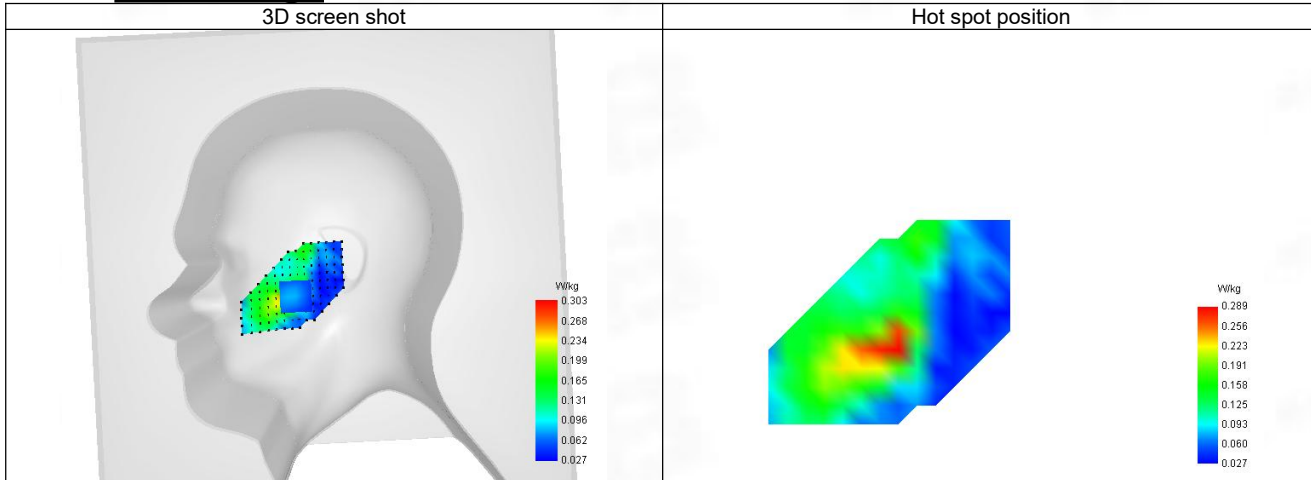
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	1.088	0.303	0.131	0.154	0.075
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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: 23/2/2024

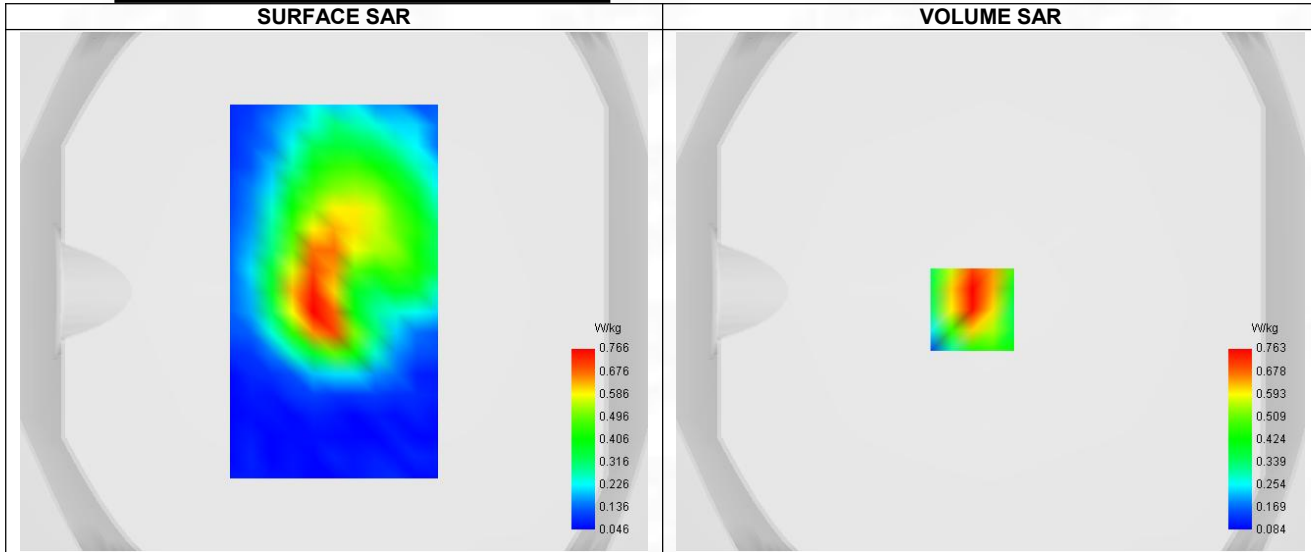
A. Experimental conditions.

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	99
RB size	1

B. Permittivity

Frequency (MHz)	1908.910
Relative permittivity (real part)	39.867
Relative permittivity (imaginary part)	13.379
Conductivity (S/m)	1.416

C. SAR Surface and Volume



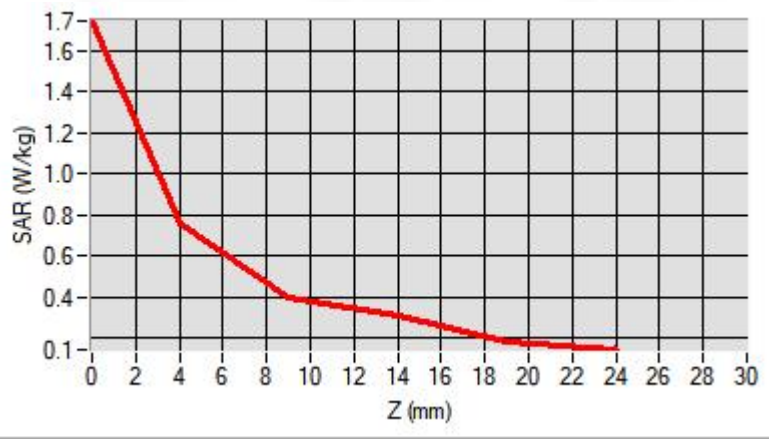
Maximum location: X=-7.00, Y=-7.00 ; SAR Peak: 1.13 W/kg

D. SAR 1g & 10g

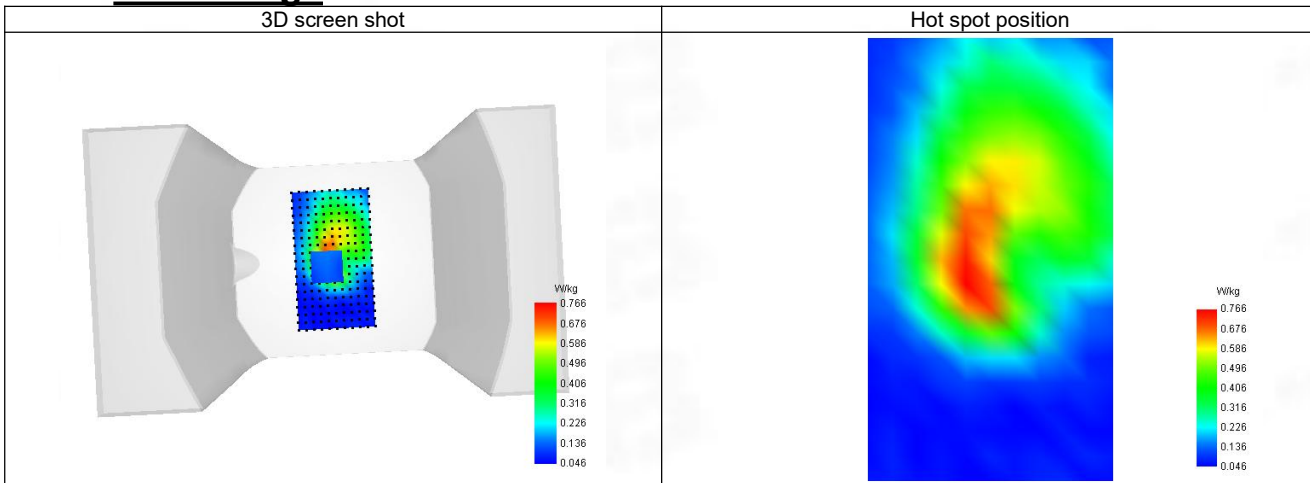
SAR 10g (W/Kg)	0.444
SAR 1g (W/Kg)	0.750
Variation (%)	-0.180
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.745	0.763	0.395	0.308	0.185



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: 22/2/2024

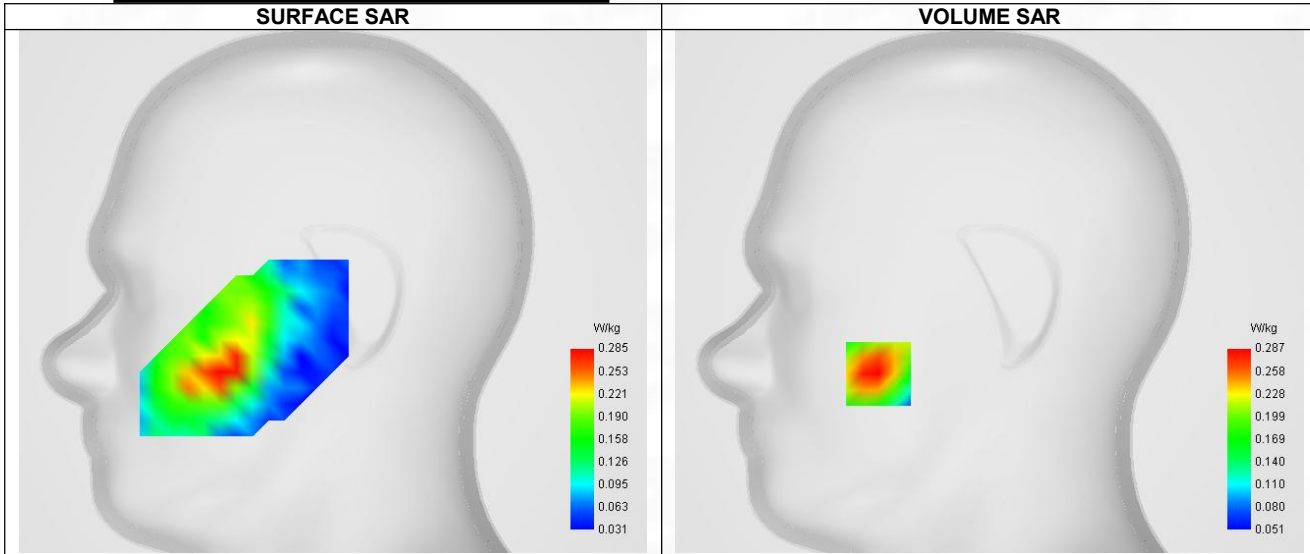
A. Experimental conditions.

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 4
Channels	Higher (20300)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	1753.910
Relative permittivity (real part)	39.982
Relative permittivity (imaginary part)	14.348
Conductivity (S/m)	1.346

C. SAR Surface and Volume



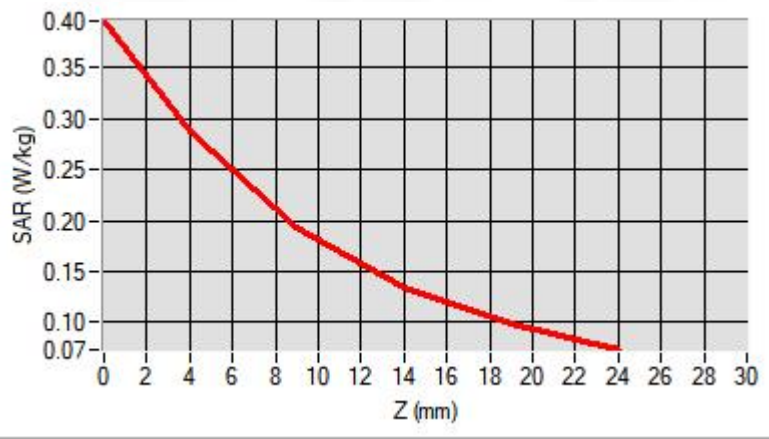
Maximum location: X=-55.00, Y=-41.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

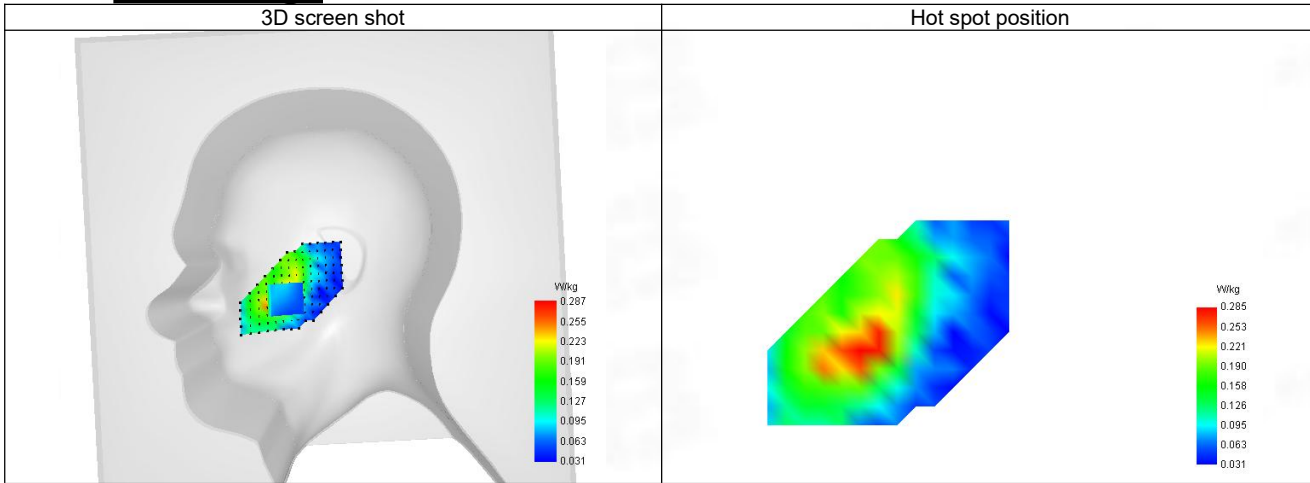
SAR 10g (W/Kg)	0.184
SAR 1g (W/Kg)	0.281
Variation (%)	-2.610
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.396	0.287	0.193	0.134	0.098



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: 22/2/2024

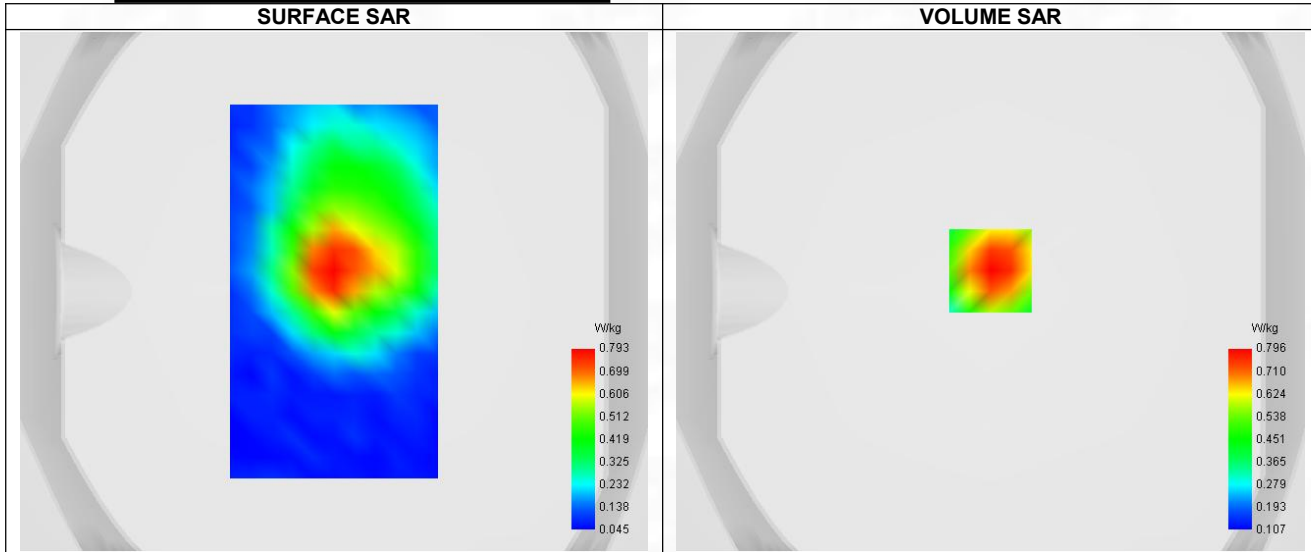
A. Experimental conditions.

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	99
RB size	1

B. Permittivity

Frequency (MHz)	1753.910
Relative permittivity (real part)	39.982
Relative permittivity (imaginary part)	14.348
Conductivity (S/m)	1.346

C. SAR Surface and Volume



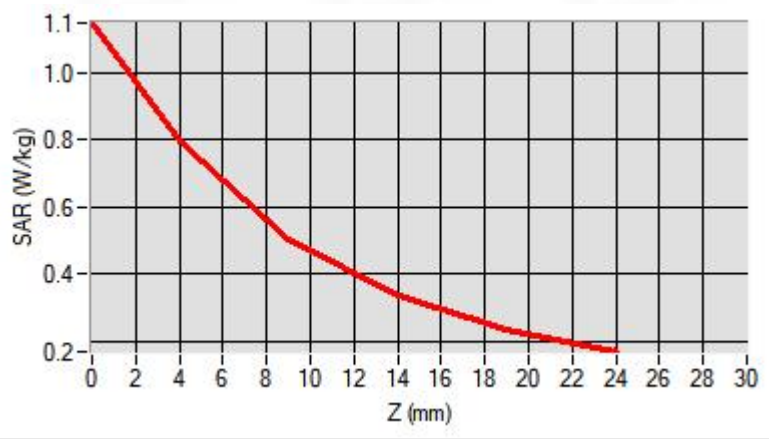
Maximum location: X=0.00, Y=8.00 ; SAR Peak: 1.15 W/kg

D. SAR 1g & 10g

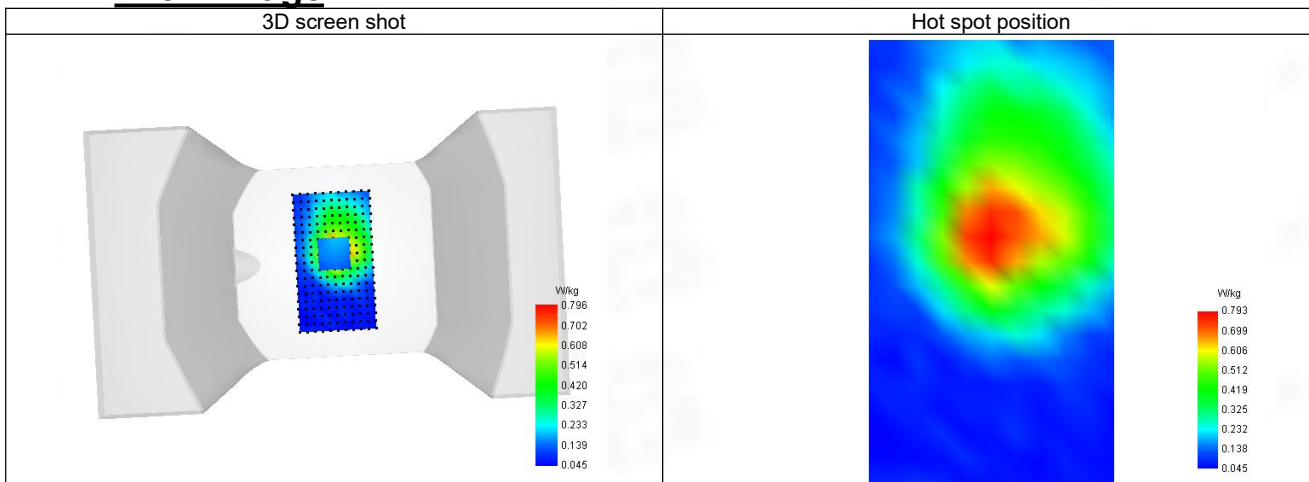
SAR 10g (W/Kg)	0.494
SAR 1g (W/Kg)	0.727
Variation (%)	-2.750
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.146	0.796	0.506	0.334	0.235



F. 3D Image



15-Head with front position in dist. 0mm on Channel 20525 in LTE band 5

SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 21/2/2024

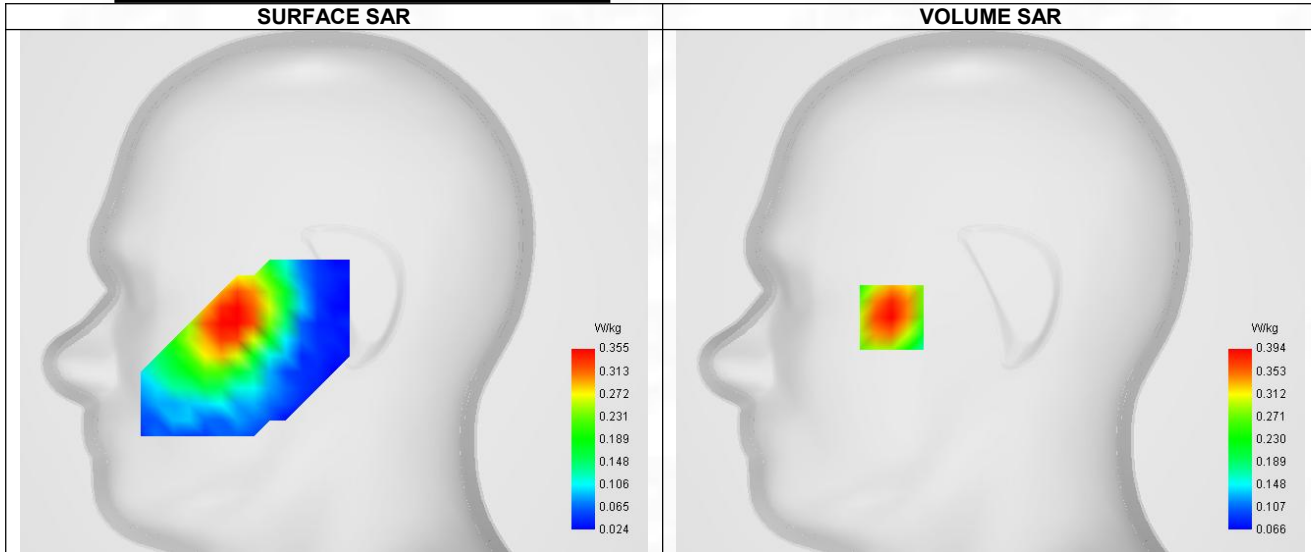
A. Experimental conditions.

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	Middle (20525)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	840.910
Relative permittivity (real part)	41.401
Relative permittivity (imaginary part)	19.457
Conductivity (S/m)	0.873

C. SAR Surface and Volume



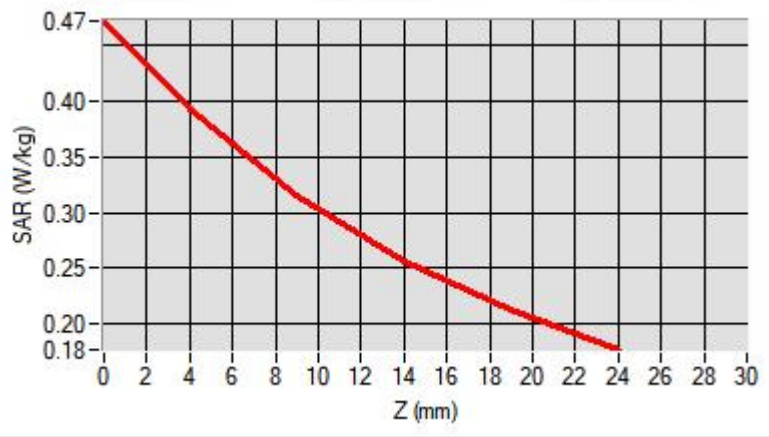
Maximum location: X=-49.00, Y=-13.00 ; SAR Peak: 0.47 W/kg

D. SAR 1g & 10g

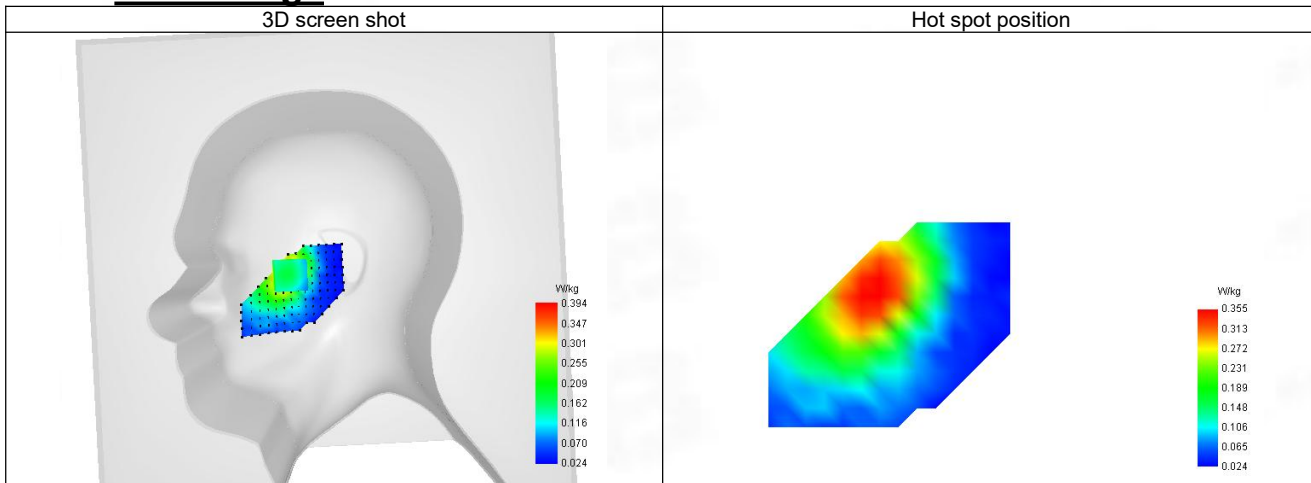
SAR 10g (W/Kg)	0.296
SAR 1g (W/Kg)	0.400
Variation (%)	-3.730
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.473	0.394	0.315	0.257	0.213



F. 3D Image



16-Body with back position in dist. 10mm on Channel 20525 in LTE band 5

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

Date of measurement: 21/2/2024

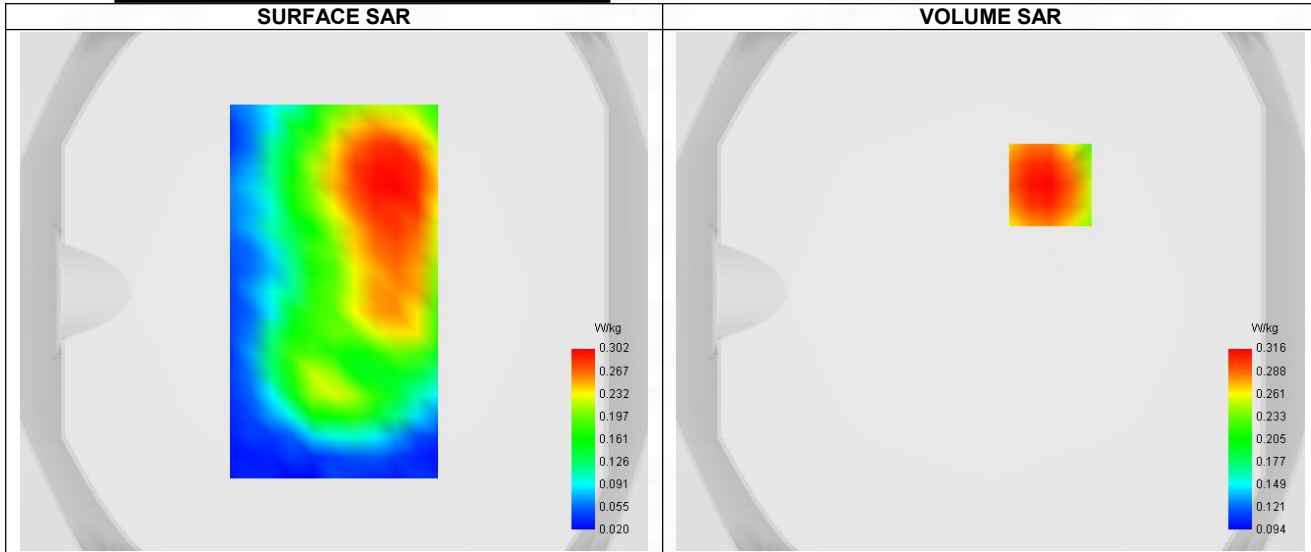
A. Experimental conditions.

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	Middle (20525)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	840.910
Relative permittivity (real part)	41.401
Relative permittivity (imaginary part)	19.457
Conductivity (S/m)	0.873

C. SAR Surface and Volume



Maximum location: X=23.00, Y=41.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

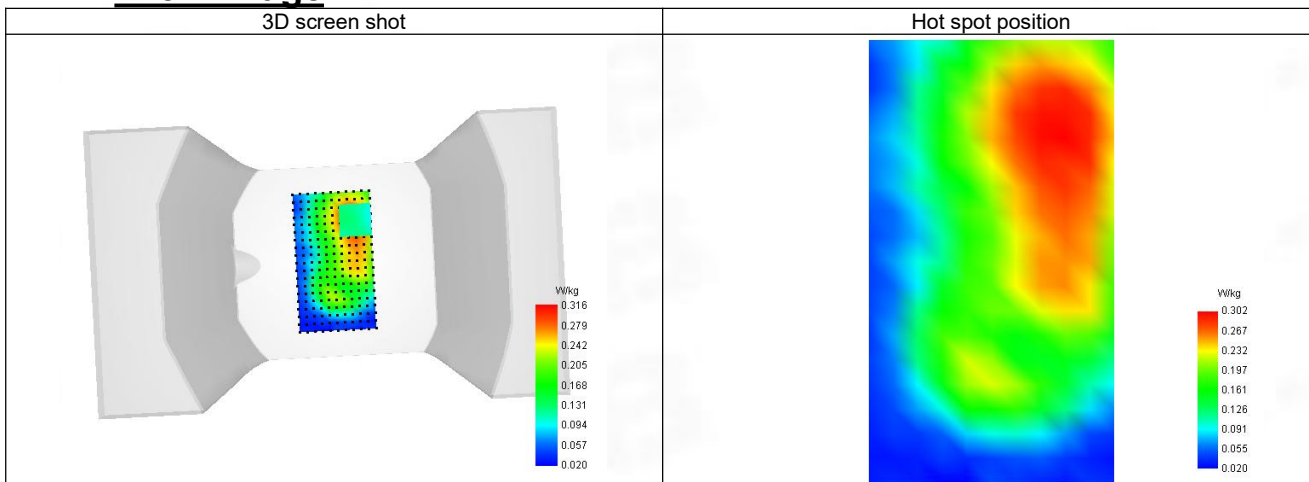
SAR 10g (W/Kg)	0.241
SAR 1g (W/Kg)	0.324
Variation (%)	-1.320
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.394	0.316	0.243	0.190	0.153



F. 3D Image



17-Head with front position in dist. 0mm on Channel 23095 in LTE band 12

SAR Measurement at LTE band 12 (Cheek, Right)

Date of measurement: 20/2/2024

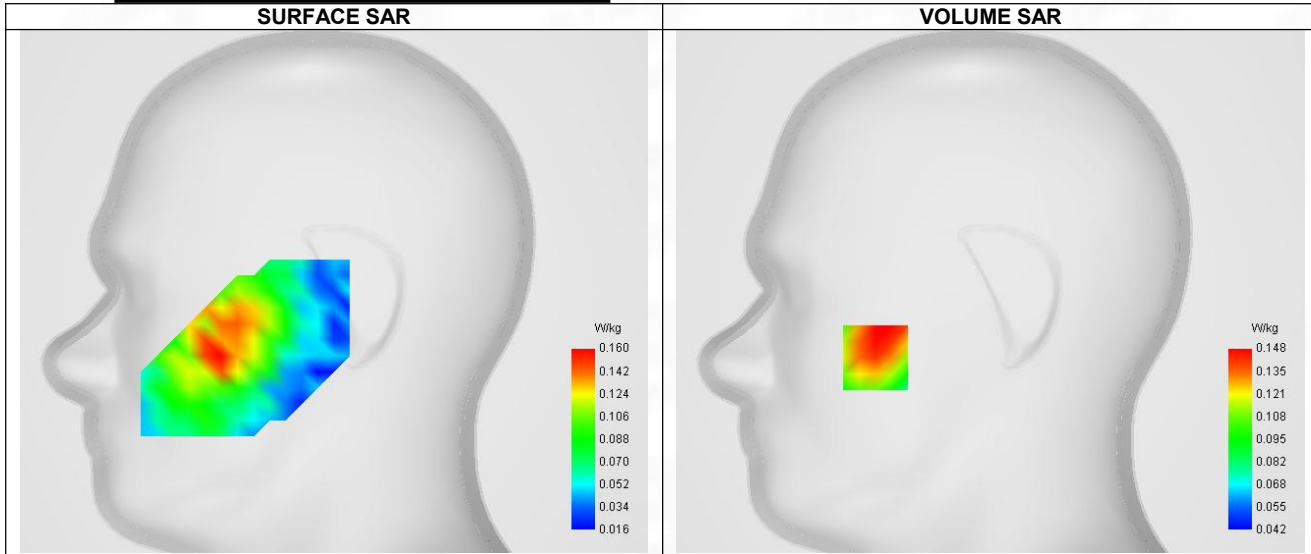
A. Experimental conditions.

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	Middle (23095)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	711.910
Relative permittivity (real part)	41.975
Relative permittivity (imaginary part)	22.343
Conductivity (S/m)	0.856

C. SAR Surface and Volume



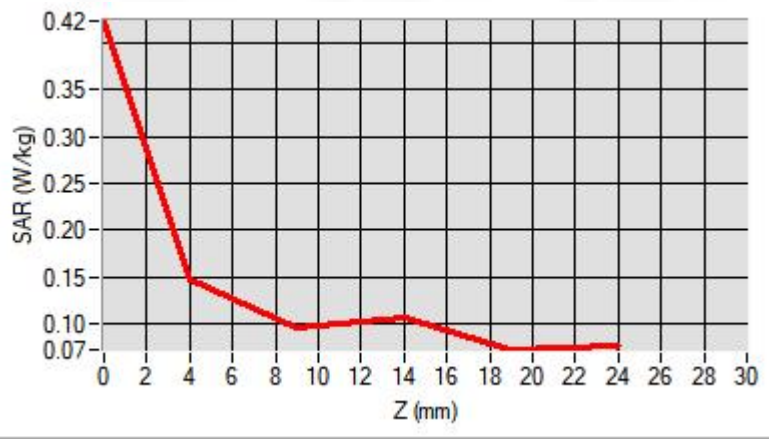
Maximum location: X=-57.00, Y=-33.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

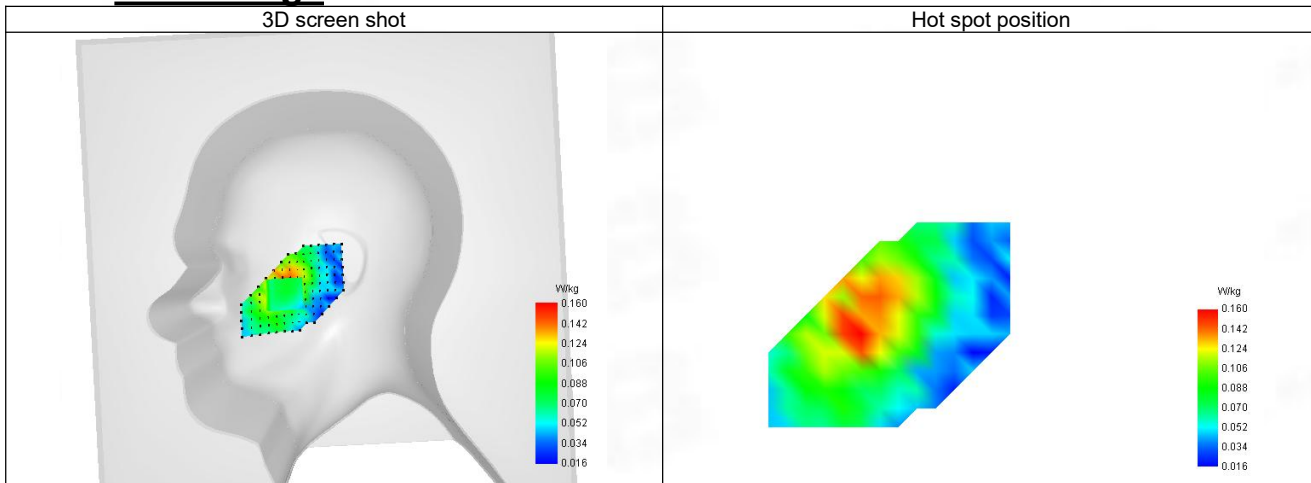
SAR 10g (W/Kg)	0.121
SAR 1g (W/Kg)	0.151
Variation (%)	-1.820
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.424	0.148	0.097	0.107	0.072



F. 3D Image



18-Body with back position in dist. 10mm on Channel 23095 in LTE band 12

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

Date of measurement: 20/2/2024

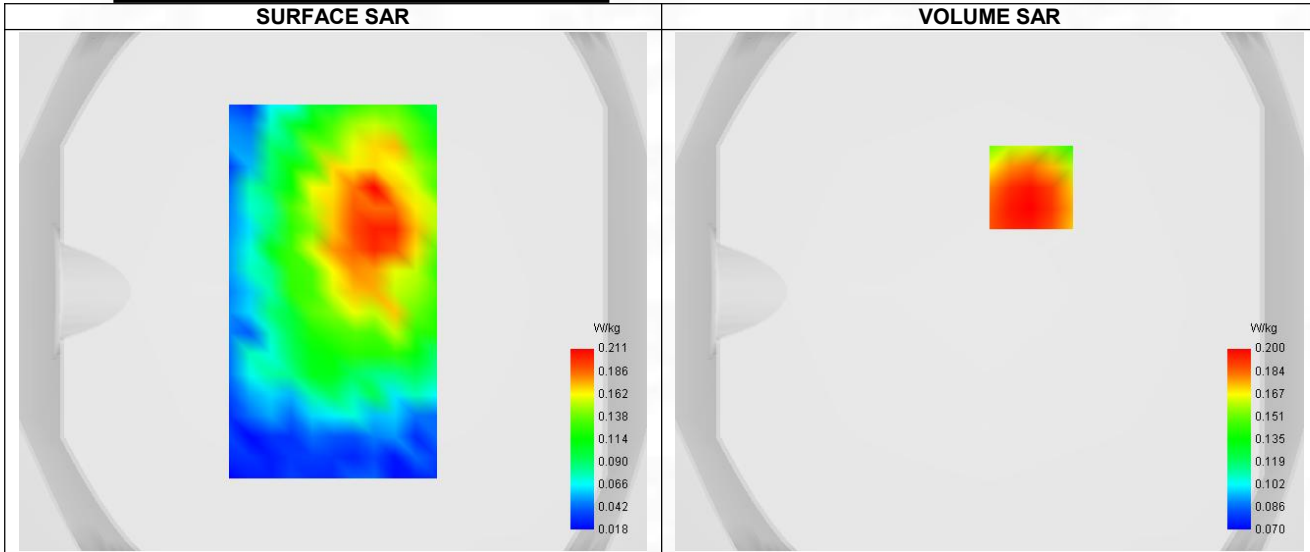
A. Experimental conditions.

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	Middle (23095)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	711.910
Relative permittivity (real part)	41.975
Relative permittivity (imaginary part)	22.343
Conductivity (S/m)	0.856

C. SAR Surface and Volume

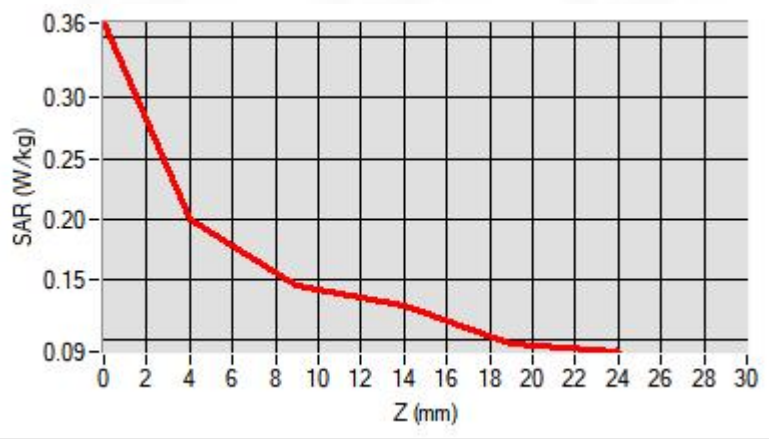


D. SAR 1g & 10g

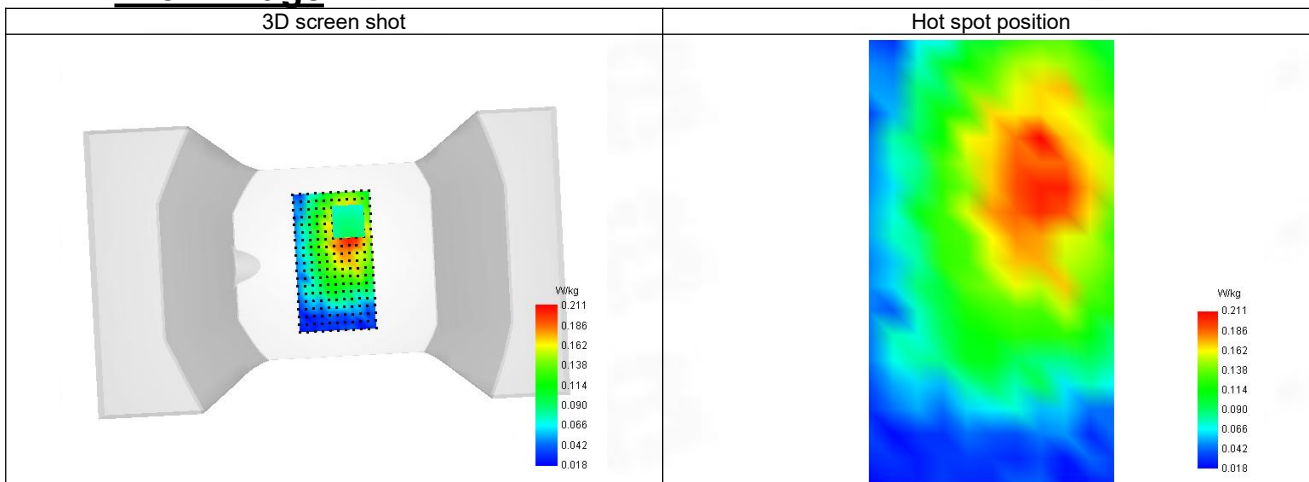
SAR 10g (W/Kg)	0.157
SAR 1g (W/Kg)	0.204
Variation (%)	-2.940
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.362	0.200	0.146	0.128	0.097



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: 20/2/2024

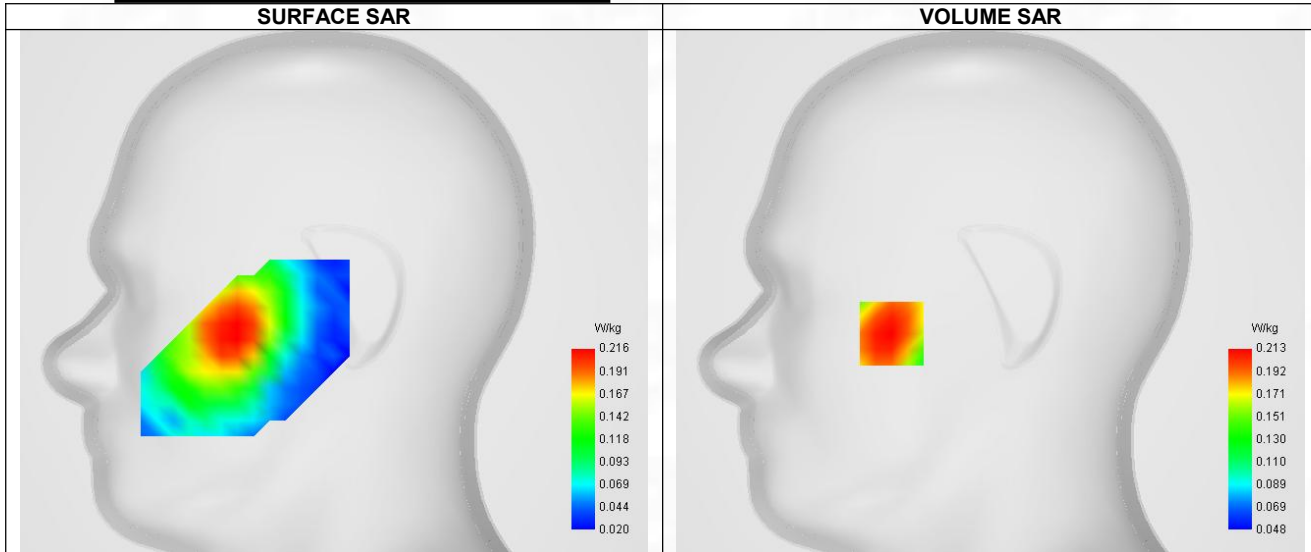
A. Experimental conditions.

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	49
RB size	1

B. Permittivity

Frequency (MHz)	786.410
Relative permittivity (real part)	41.633
Relative permittivity (imaginary part)	20.616
Conductivity (S/m)	0.864

C. SAR Surface and Volume



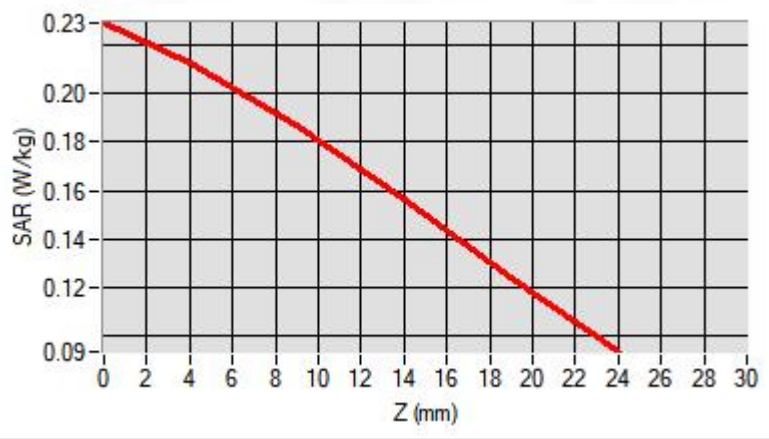
Maximum location: X=-49.00, Y=-21.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

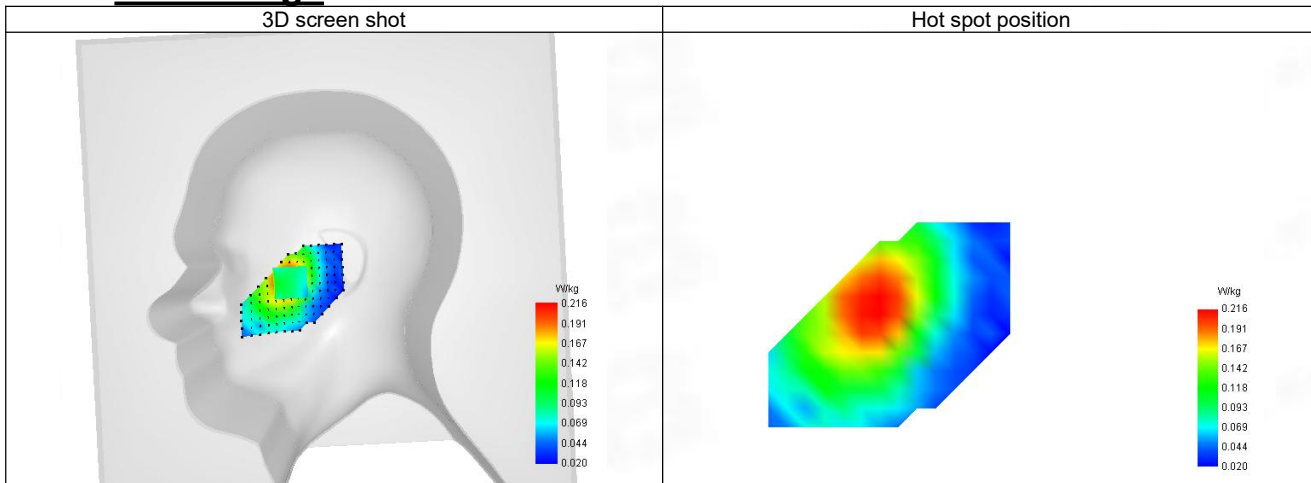
SAR 10g (W/Kg)	0.174
SAR 1g (W/Kg)	0.220
Variation (%)	-1.210
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.229	0.213	0.187	0.156	0.124



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: 20/2/2024

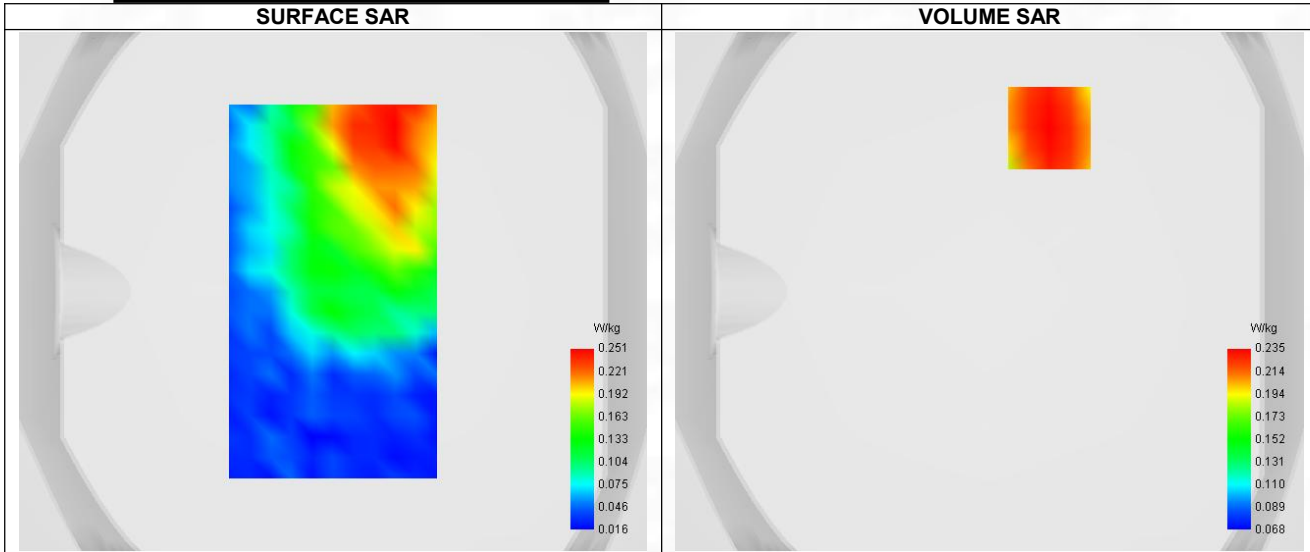
A. Experimental conditions.

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	49
RB size	1

B. Permittivity

Frequency (MHz)	786.410
Relative permittivity (real part)	41.633
Relative permittivity (imaginary part)	20.616
Conductivity (S/m)	0.864

C. SAR Surface and Volume



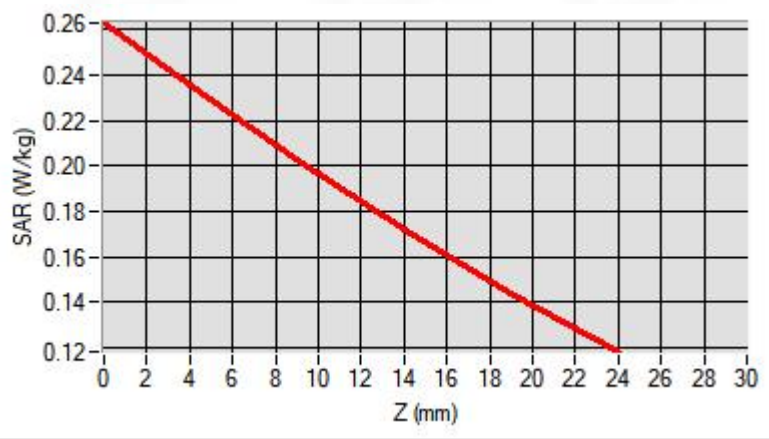
Maximum location: X=23.00, Y=63.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

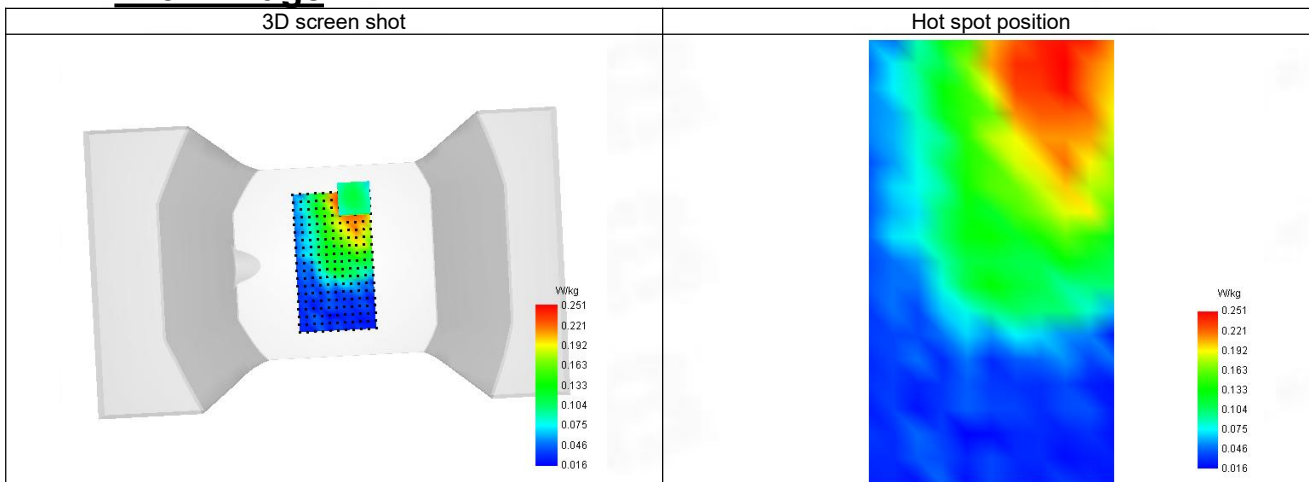
SAR 10g (W/Kg)	0.194
SAR 1g (W/Kg)	0.244
Variation (%)	-4.610
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.263	0.235	0.203	0.172	0.144



F. 3D Image



21-Head with front position in dist. 0mm on Channel 23780 in LTE band 17

SAR Measurement at LTE band 17 (Cheek, Right)

Date of measurement: 20/2/2024

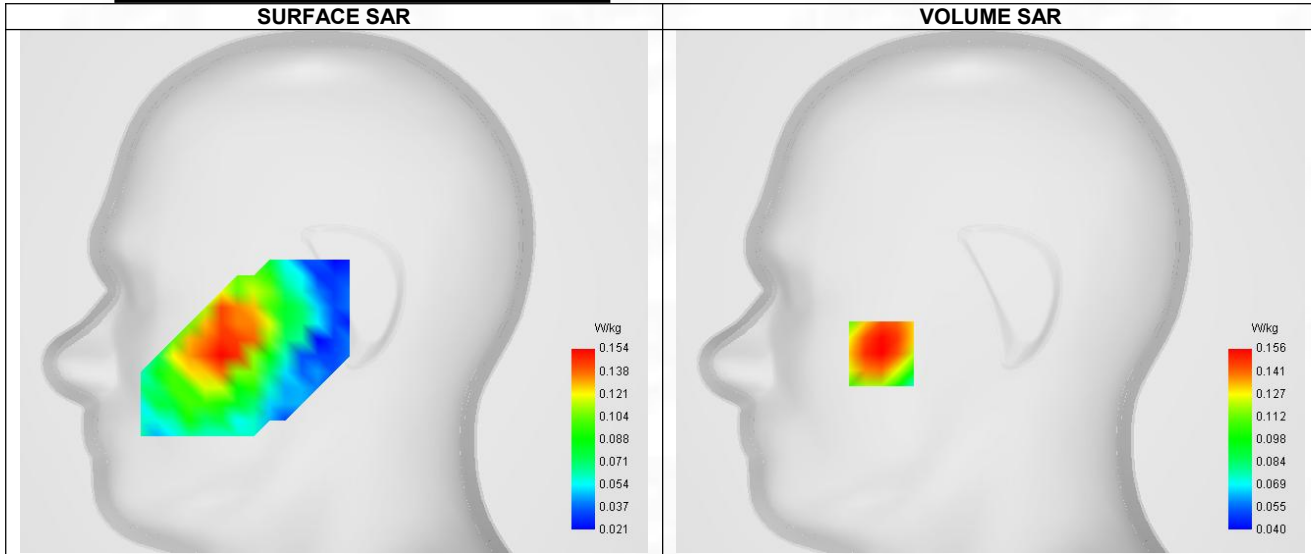
A. Experimental conditions.

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 17
Channels	Lower (23780)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	713.410
Relative permittivity (real part)	41.968
Relative permittivity (imaginary part)	22.308
Conductivity (S/m)	0.856

C. SAR Surface and Volume



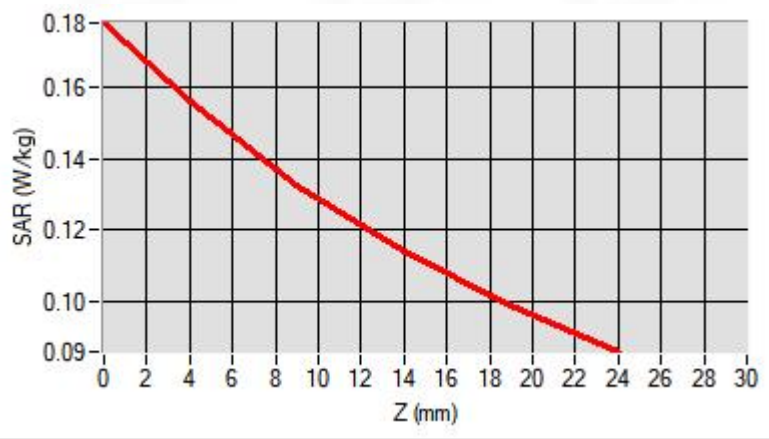
Maximum location: X=-54.00, Y=-31.00 ; SAR Peak: 0.18 W/kg

D. SAR 1g & 10g

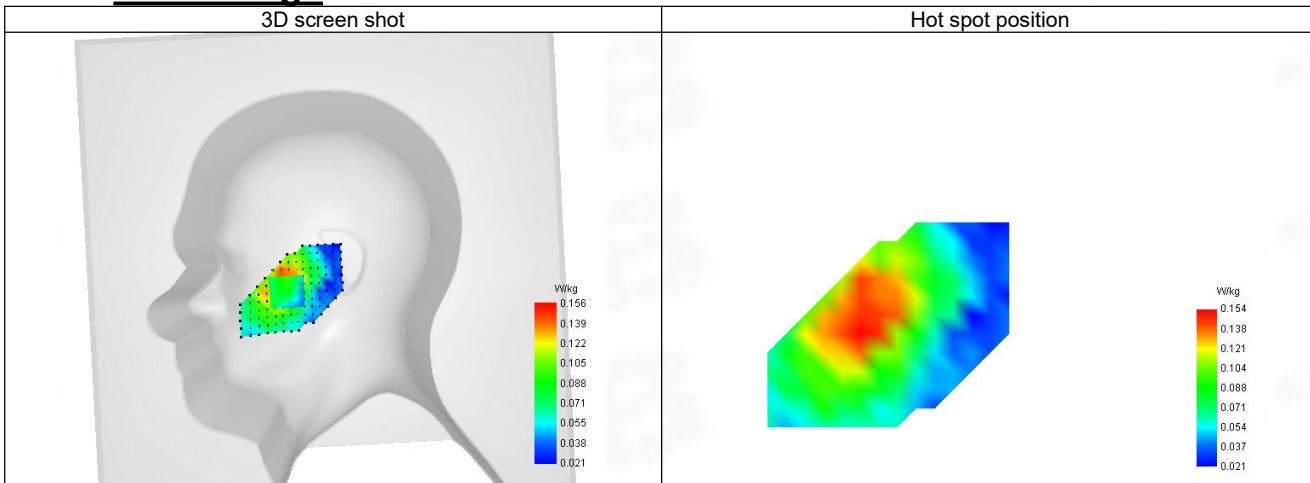
SAR 10g (W/Kg)	0.132
SAR 1g (W/Kg)	0.161
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.178	0.156	0.133	0.114	0.099



F. 3D Image



22-Body with back position in dist. 10mm on Channel 23780 in LTE band 17

SAR Measurement at LTE band 17 (Body, Validation Plane)

Date of measurement: 20/2/2024

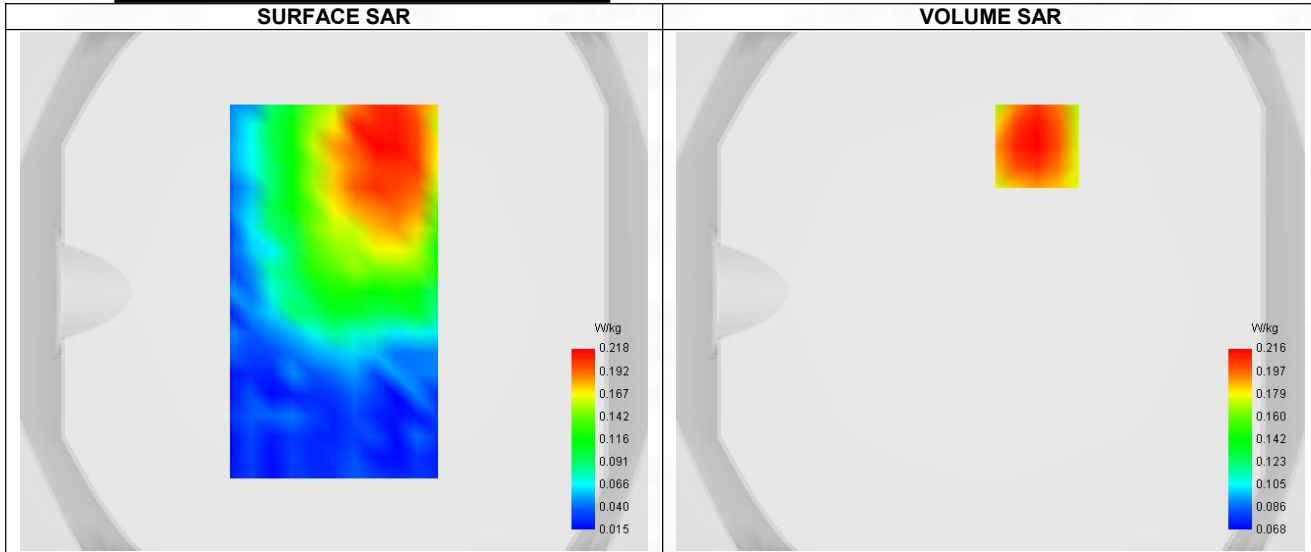
A. Experimental conditions.

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 17
Channels	Lower (23780)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Frequency (MHz)	713.410
Relative permittivity (real part)	41.968
Relative permittivity (imaginary part)	22.308
Conductivity (S/m)	0.856

C. SAR Surface and Volume



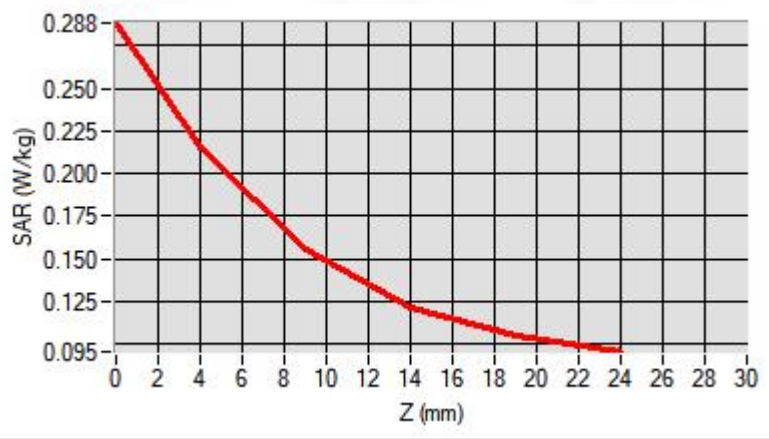
Maximum location: X=18.00, Y=56.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

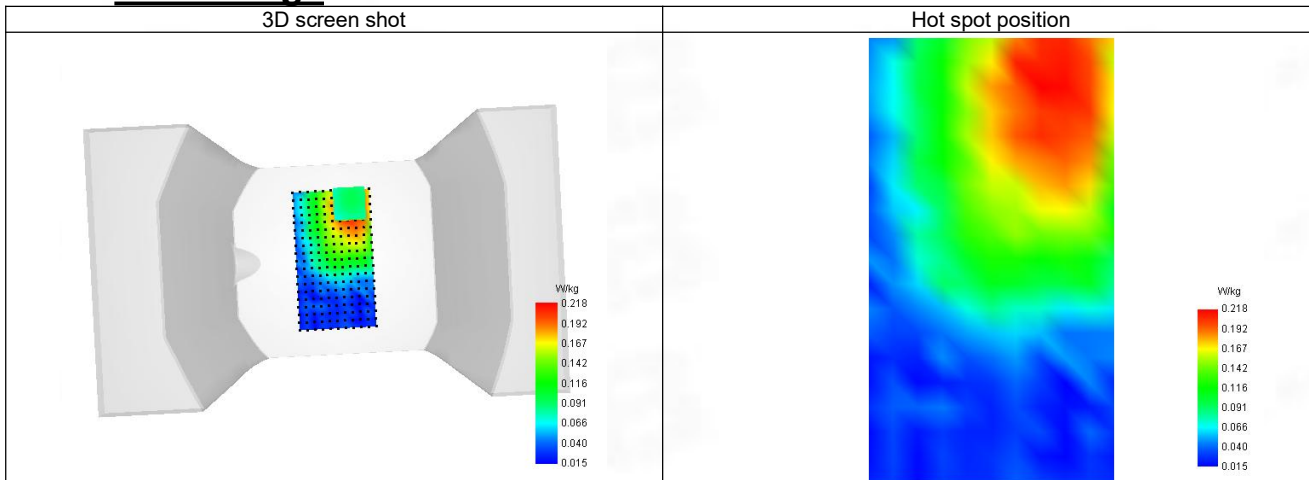
SAR 10g (W/Kg)	0.164
SAR 1g (W/Kg)	0.221
Variation (%)	-3.170
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.288	0.216	0.155	0.121	0.105



F. 3D Image



23-Head with front position in dist. 0mm on Channel 132072 in LTE band 66

SAR Measurement at LTE band 66 (Cheek, Right)

Date of measurement: 22/2/2024

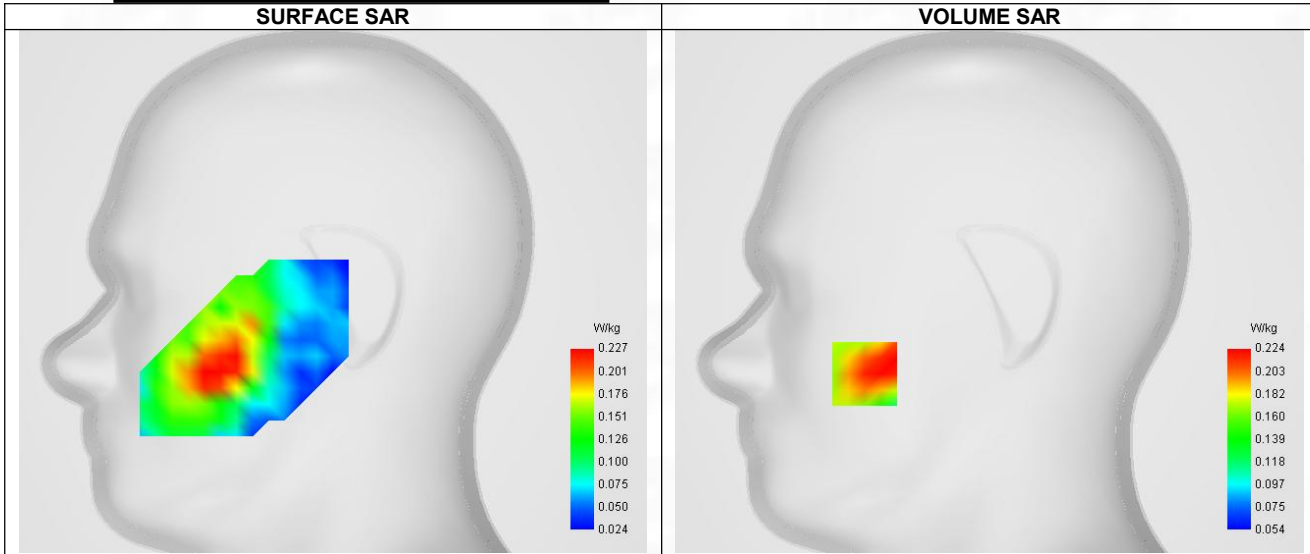
A. Experimental conditions.

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	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	1728.910
Relative permittivity (real part)	40.021
Relative permittivity (imaginary part)	14.488
Conductivity (S/m)	1.333

C. SAR Surface and Volume



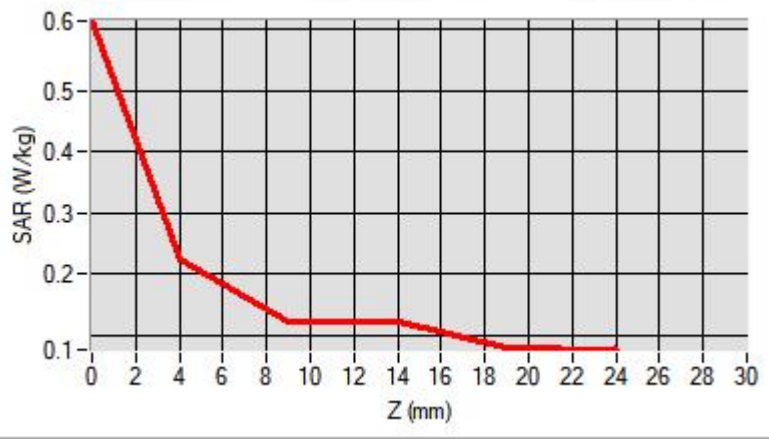
Maximum location: X=-62.00, Y=-41.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

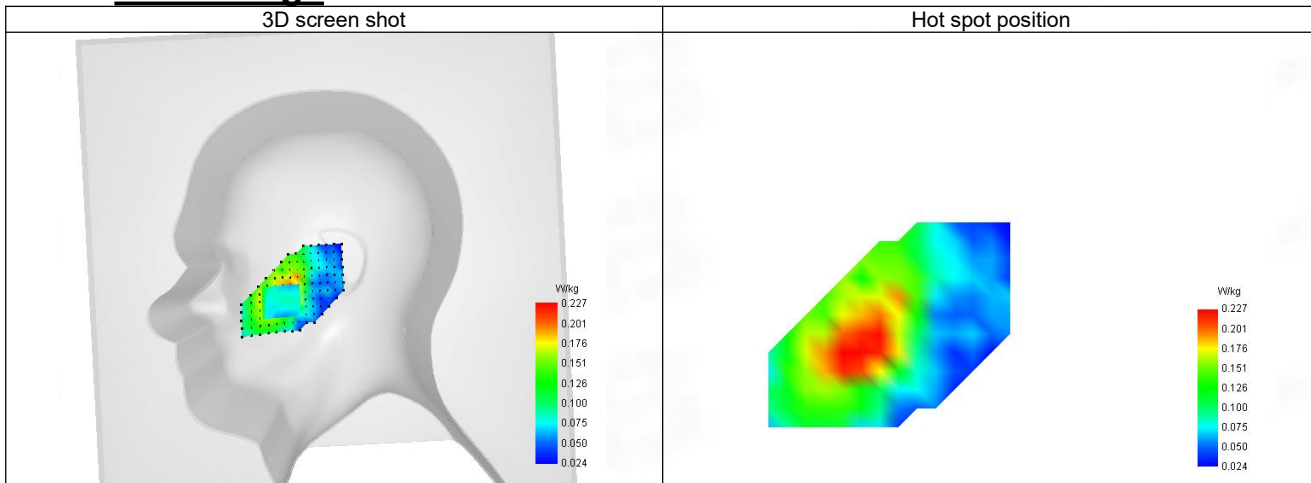
SAR 10g (W/Kg)	0.161
SAR 1g (W/Kg)	0.224
Variation (%)	3.460
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.614	0.224	0.122	0.121	0.080



F. 3D Image



24-Body with back position in dist. 10mm on Channel 132072 in LTE band 66

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

Date of measurement: 22/2/2024

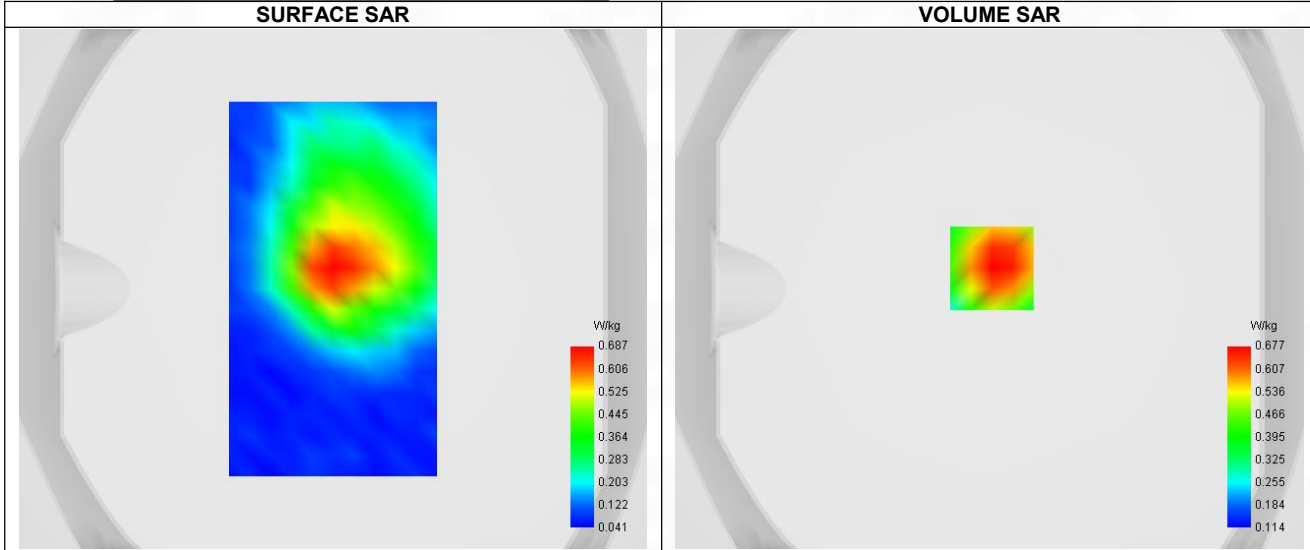
A. Experimental conditions.

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	LTE band 66
Channels	Lower (132072)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	1728.910
Relative permittivity (real part)	40.021
Relative permittivity (imaginary part)	14.488
Conductivity (S/m)	1.333

C. SAR Surface and Volume



Maximum location: X=1.00, Y=8.00 ; SAR Peak: 0.90 W/kg

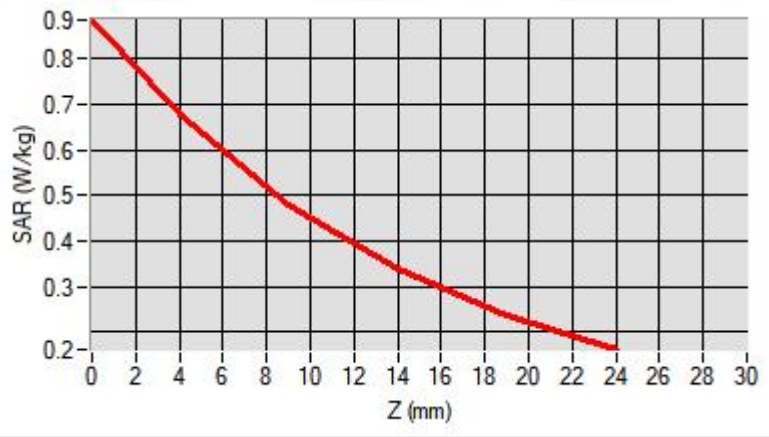
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.440
SAR 1g (W/Kg)	0.666
Variation (%)	-1.030
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

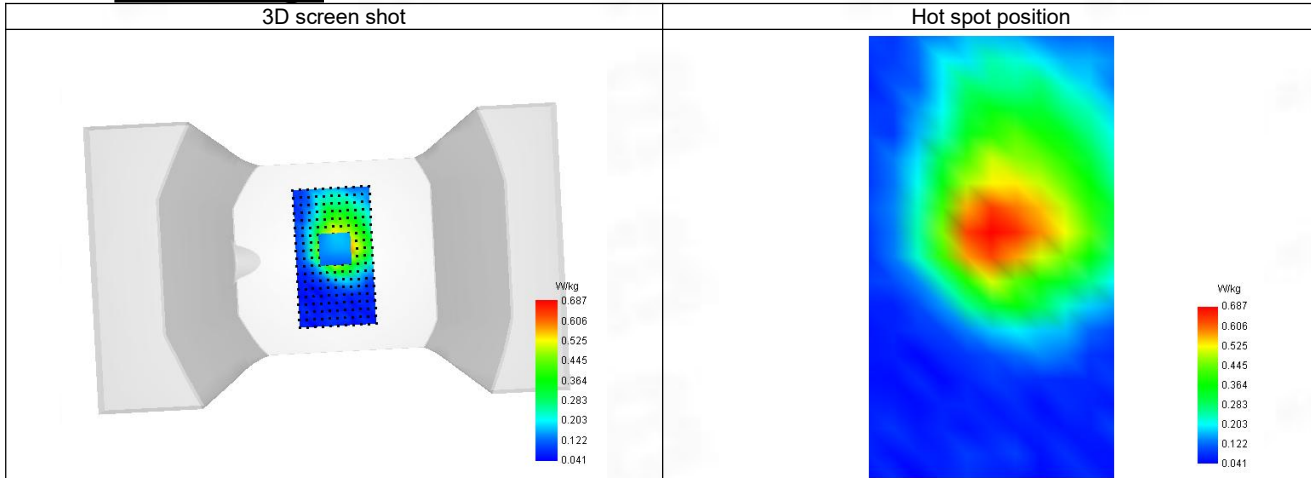
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.884	0.677	0.480	0.339	0.238
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F. 3D Image



25-Head with front position in dist. 0mm on Channel 133372 in LTE band 71

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 20/2/2024

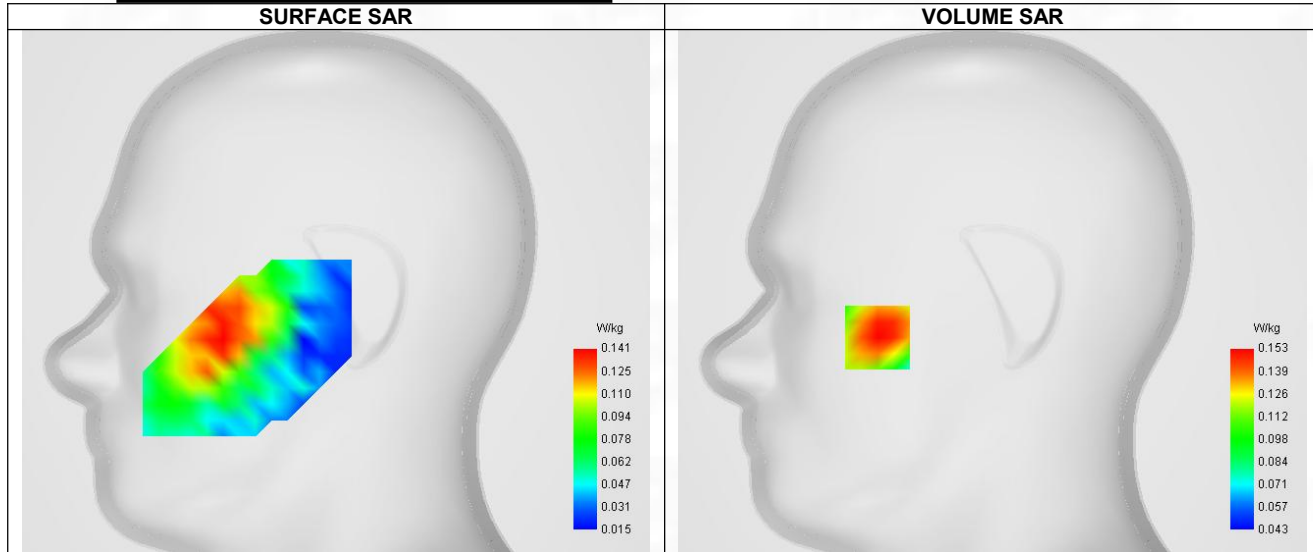
A. Experimental conditions.

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	Higher (133372)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	696.910
Relative permittivity (real part)	42.044
Relative permittivity (imaginary part)	22.690
Conductivity (S/m)	0.854

C. SAR Surface and Volume

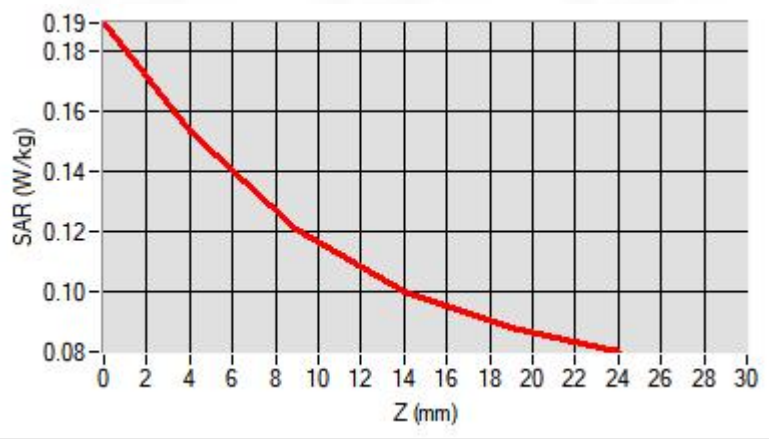


D. SAR 1g & 10g

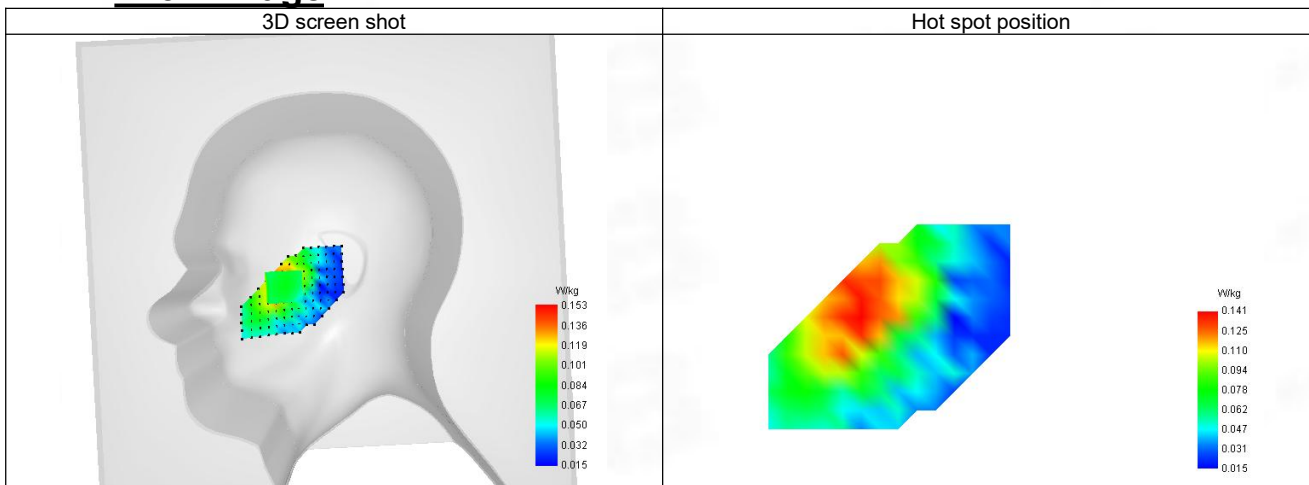
SAR 10g (W/Kg)	0.120
SAR 1g (W/Kg)	0.156
Variation (%)	1.240
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.189	0.153	0.121	0.100	0.089



F. 3D Image



26-Body with back position in dist. 10mm on Channel 133372 in LTE band 71

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

Date of measurement: 20/2/2024

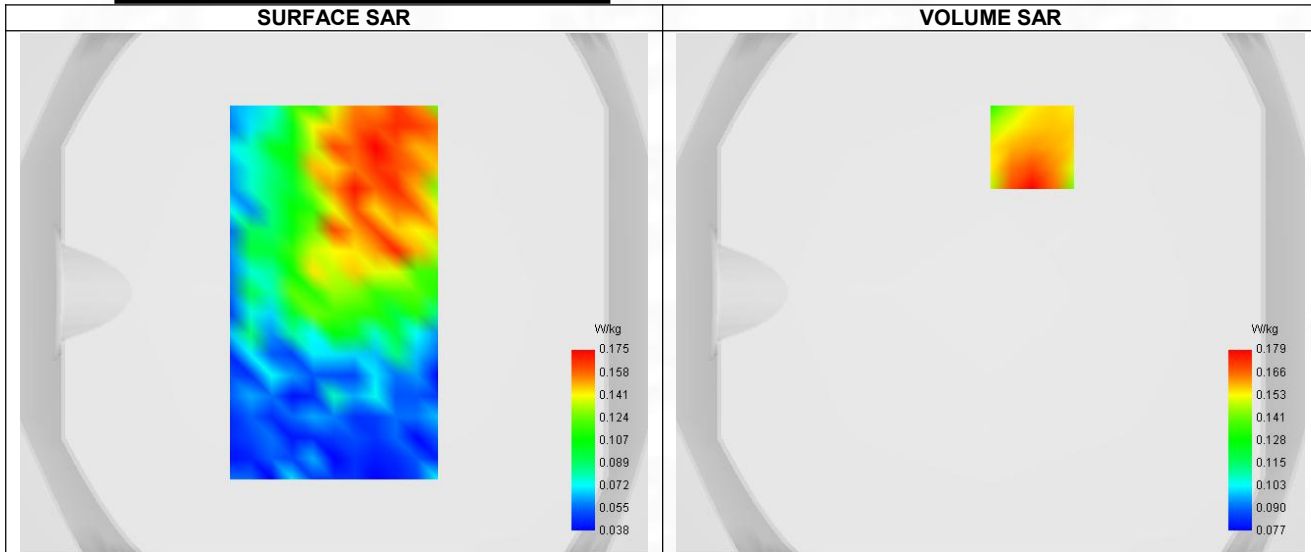
A. Experimental conditions.

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	Higher (133372)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Frequency (MHz)	696.910
Relative permittivity (real part)	42.044
Relative permittivity (imaginary part)	22.690
Conductivity (S/m)	0.854

C. SAR Surface and Volume



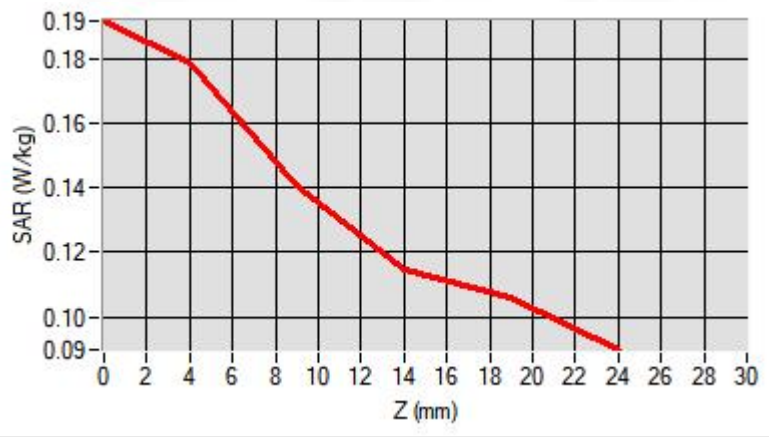
Maximum location: X=16.00, Y=56.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

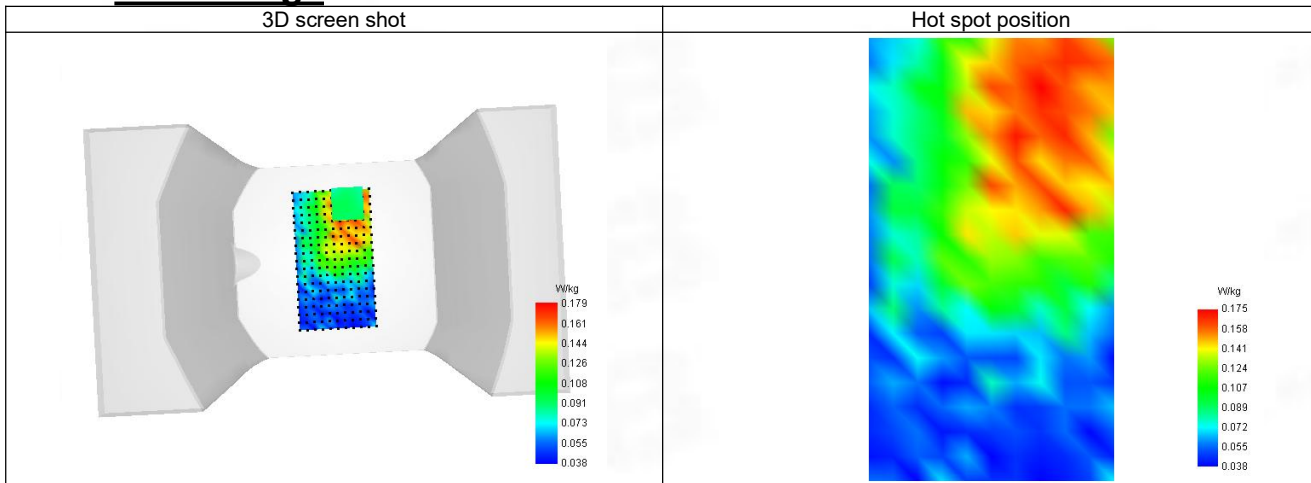
SAR 10g (W/Kg)	0.142
SAR 1g (W/Kg)	0.176
Variation (%)	-2.640
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.192	0.179	0.141	0.115	0.106



F. 3D Image



27-Head with front position in dist. 0mm on Channel 11 in IEEE 802.11b ISM

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

Date of measurement: 26/2/2024

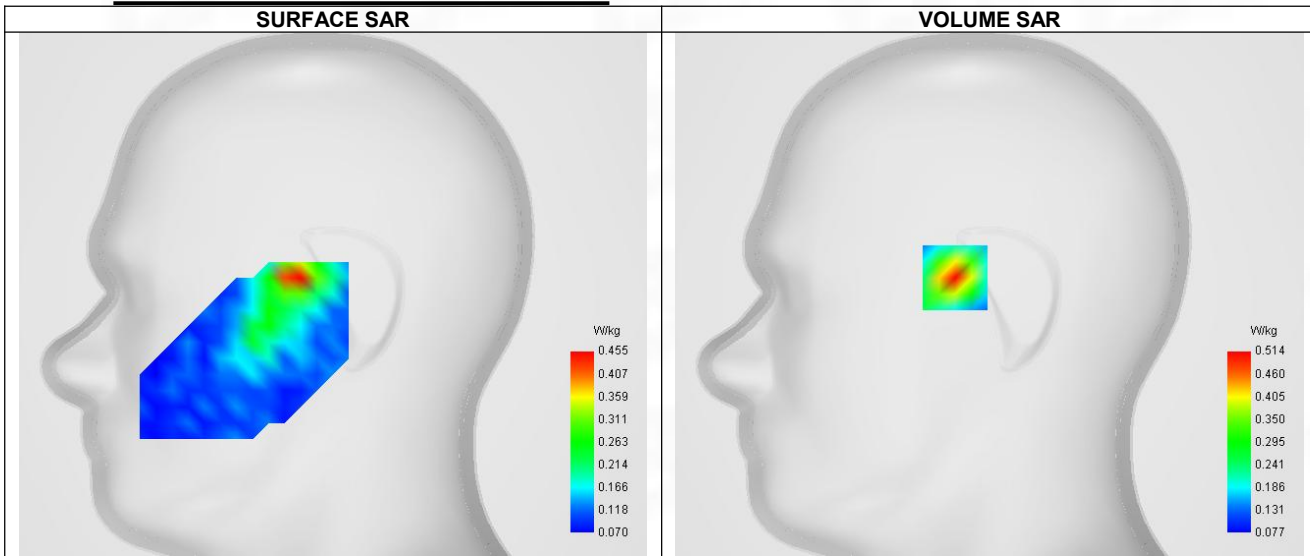
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.064
Relative permittivity (imaginary part)	13.288
Conductivity (S/m)	1.823

C. SAR Surface and Volume



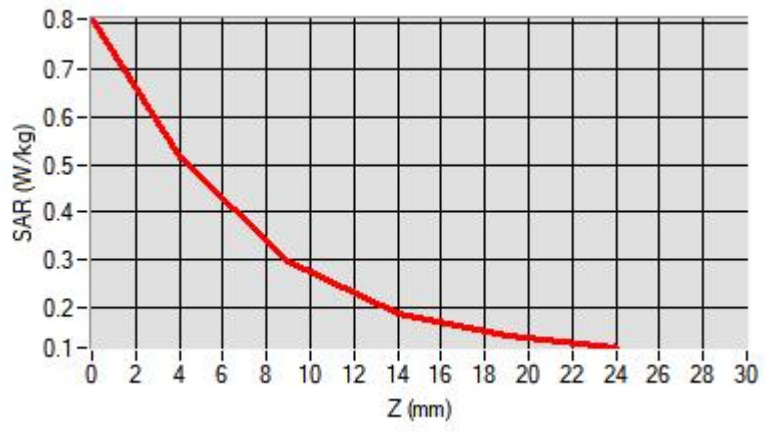
Maximum location: X=-17.00, Y=8.00 ; SAR Peak: 0.81 W/kg

D. SAR 1g & 10g

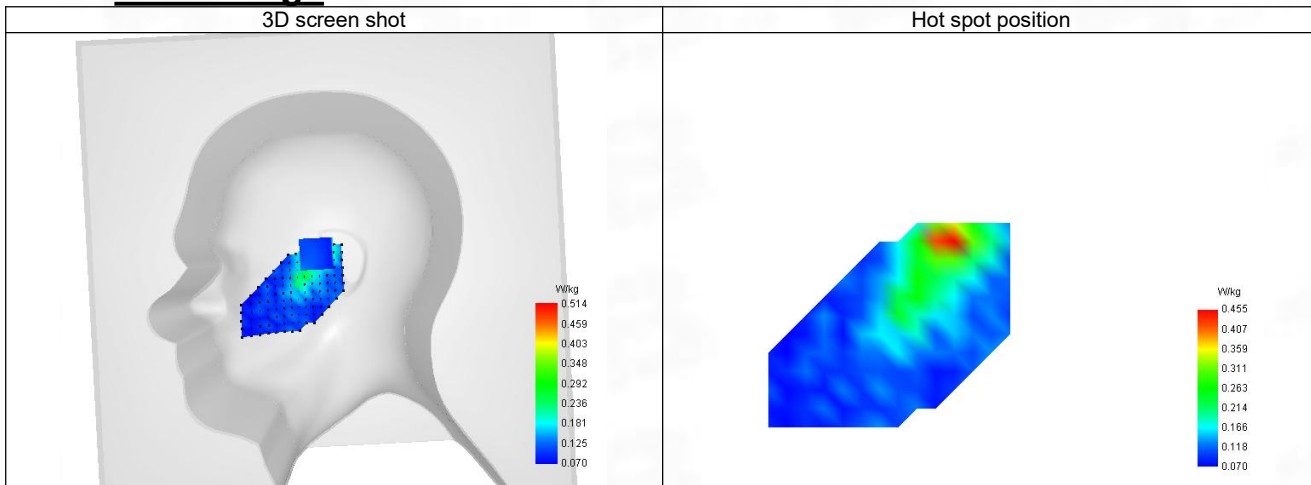
SAR 10g (W/Kg)	0.269
SAR 1g (W/Kg)	0.481
Variation (%)	-3.130
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.807	0.514	0.296	0.187	0.139



F. 3D Image



28-Body with back position in dist. 10mm on Channel 11 in IEEE 802.11b ISM

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

Date of measurement: 26/2/2024

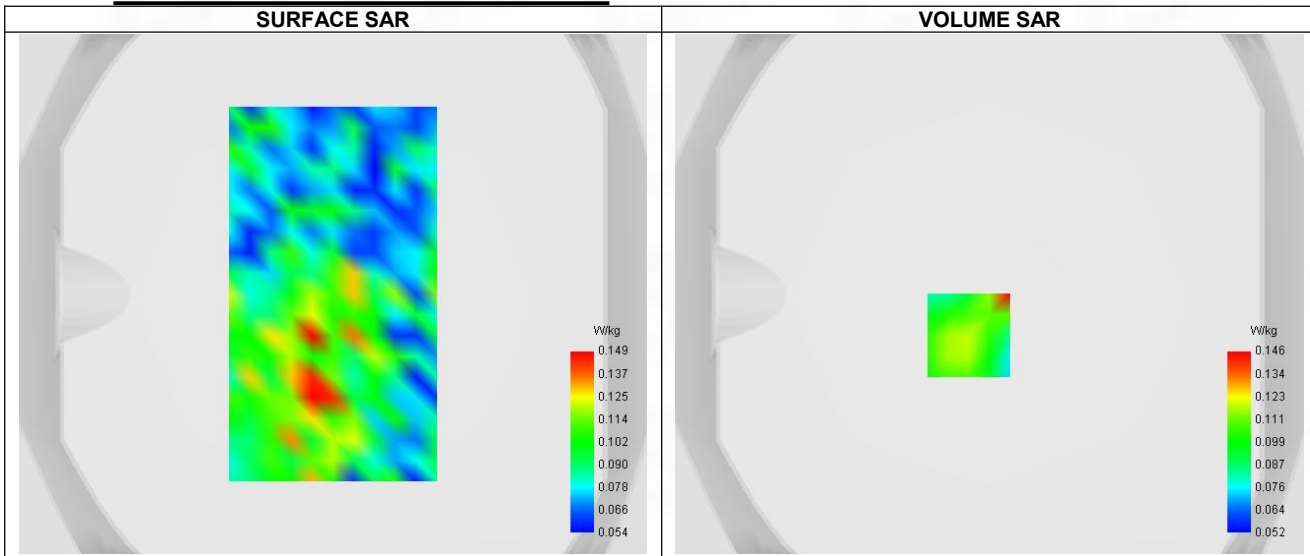
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Higher (11)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2462.000
Relative permittivity (real part)	39.064
Relative permittivity (imaginary part)	13.288
Conductivity (S/m)	1.823

C. SAR Surface and Volume



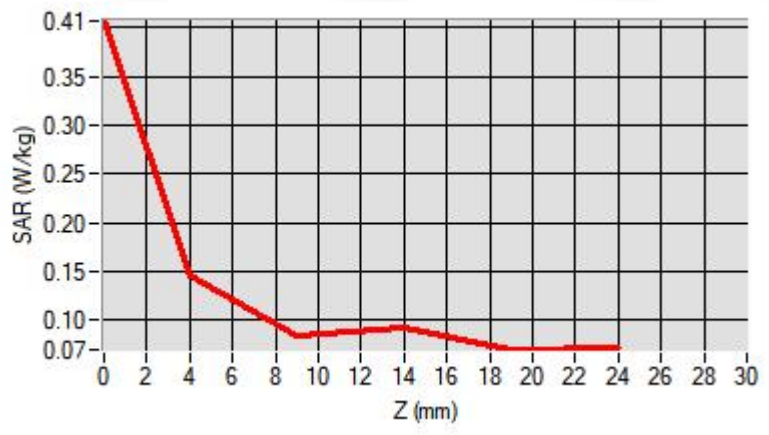
Maximum location: X=-8.00, Y=-16.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

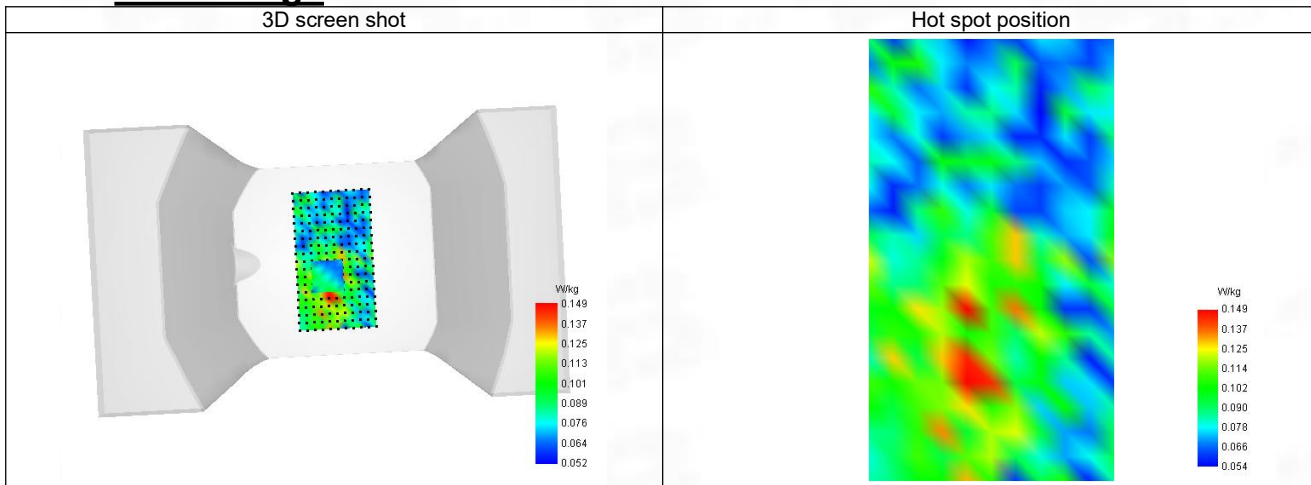
SAR 10g (W/Kg)	0.091
SAR 1g (W/Kg)	0.127
Variation (%)	-1.650
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.407	0.146	0.085	0.092	0.070

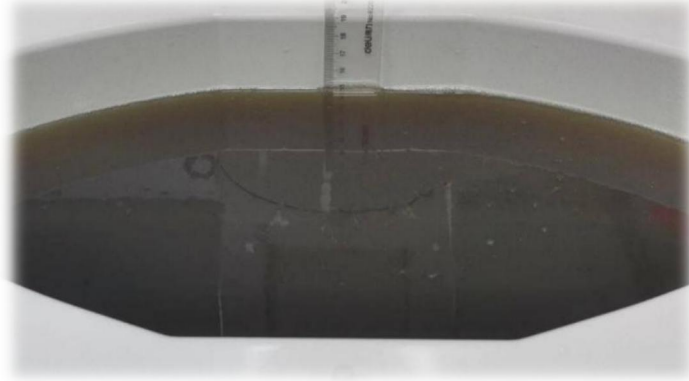


F. 3D Image

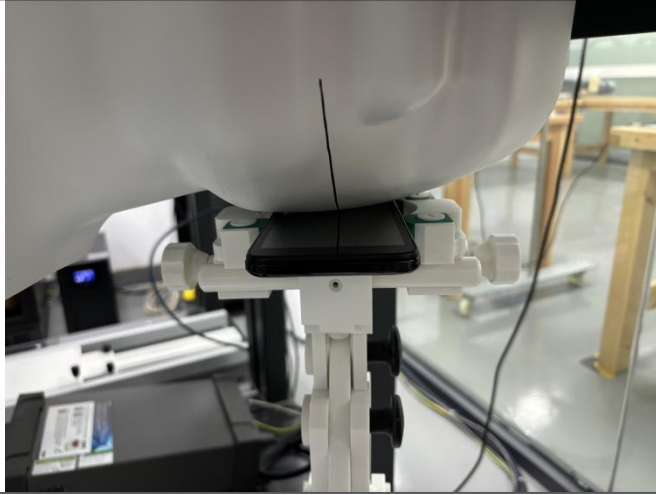


ANNEX D SAR Test Setup Photos

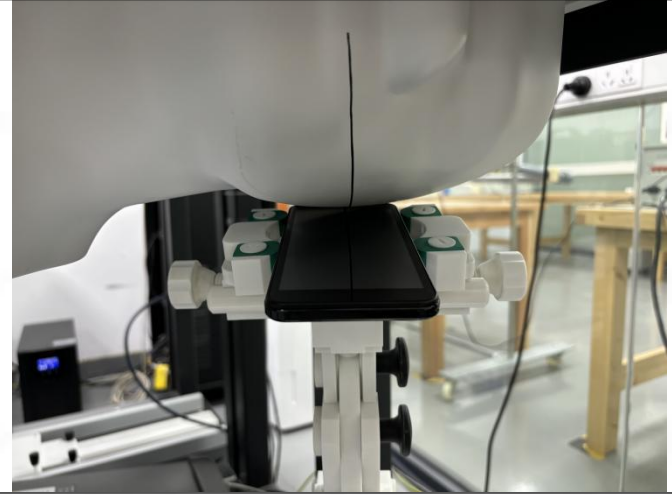
Reference Photo: simulation liquid depth 15cm



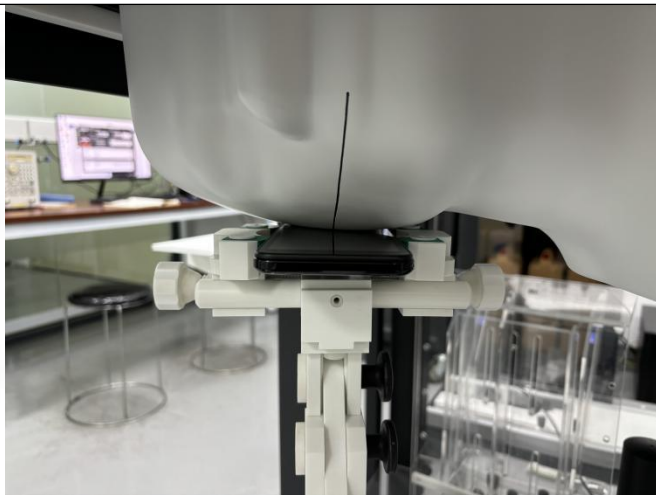
Reference Photos



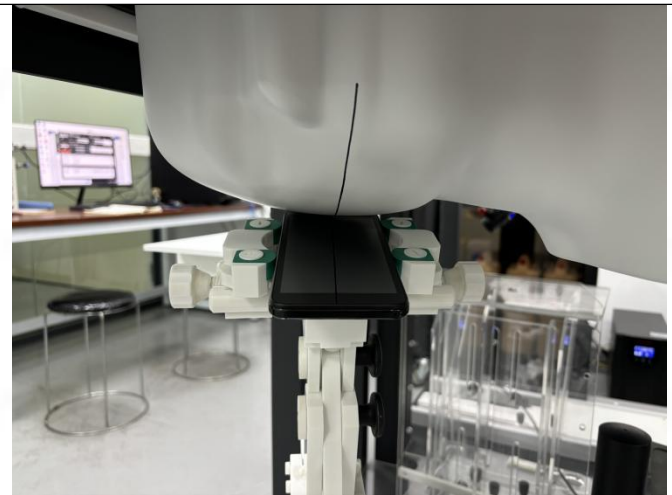
Left Head - Cheek



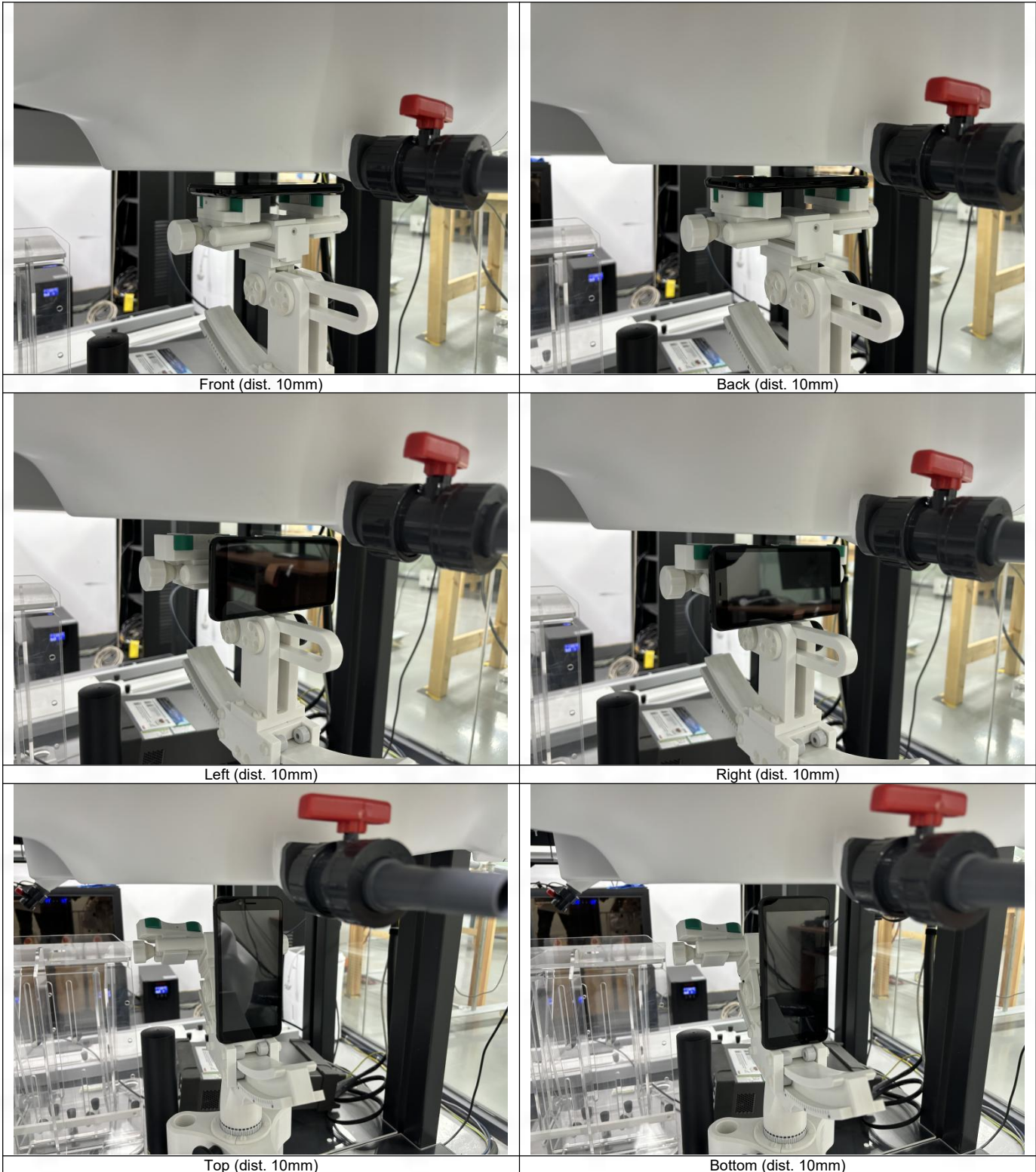
Left Head - Tilt



Right Head - Cheek



Right Head - Tilt



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--