



SAR Test Report

For

Applicant Name: Xwireless LLC
Address: 11565 Old Georgetown Road, Rockville, MD, USA
EUT Name: Mobile Phone
Brand Name: Vortex
Model Number: HD55

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: BTF240105R00501
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: 2ADLJ-HD55
Test Conclusion: Pass
Test Date: 2024-01-16 to 2024-01-23
Date of Issue: 2024-01-24

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

Date: 2024-01-24

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

Date: 2024-01-24



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2024-01-24	Original
<i>Note:</i>	<i>Once the revision has been made, then previous versions reports are invalid.</i>	

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1. Introduction

1.1 Identification of Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

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

1.3 Laboratory Condition

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

1.4 Announcement

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

2. Product Information

2.1 Application Information

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

2.2 Manufacturer Information

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

2.3 Factory Information

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

2.4 General Description of Equipment under Test (EUT)

EUT Name	Mobile Phone
Under Test Model Name	HD55
Sample No.	BTFSN240105006 1/4

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	2300mAh
	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 2/4/5/12/13/17/25/26/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/40) 5G WIFI 802.11a, 802.11n(HT20/40), 802.11ac(VHT20/40/80) 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 25	TX: 1850 ~ 1915 MHz	RX: 1930 ~ 1995 MHz
	LTE Band 26	TX: 814 ~ 849 MHz	RX: 859 ~ 894 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	LTE Band 41	2496 ~ 2690 MHz	
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11n(HT40)	2422 ~ 2452 MHz	
	802.11a /802.11n(HT20/40) /802.11ac(VHT20/40/80)	5150 ~ 5250 MHz 5725 ~ 5850 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	0.072	PCE	0.757
	GSM 1900	0.043		
	WCDMA Band II	0.052		
	WCDMA Band IV	0.281		
	WCDMA Band V	0.031		
	LTE Band 2	0.067		
	LTE Band 4	0.391		
	LTE Band 5	0.044		
	LTE Band 12	0.097		
	LTE Band 13	0.061		
	LTE Band 17	0.091		
	LTE Band 25	0.071		
	LTE Band 26	0.052		
	LTE Band 41	0.160		
	LTE Band 66	0.294		
	LTE Band 71	0.134		
	WLAN 2.4 GHz	0.442		
Bluetooth	0.086	DSS		
WLAN 5.2 GHz	0.340	NII		
WLAN 5.8 GHz	0.757			
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	0.140	PCB	0.753
	GSM 1900	0.087		
	WCDMA Band II	0.134		
	WCDMA Band IV	0.275		
	WCDMA Band V	0.050		
	LTE Band 2	0.082		
	LTE Band 4	0.275		
	LTE Band 5	0.042		
	LTE Band 12	0.098		
	LTE Band 13	0.048		
	LTE Band 17	0.062		
	LTE Band 25	0.126		
	LTE Band 26	0.031		
	LTE Band 41	0.753		
	LTE Band 66	0.317		
	LTE Band 71	0.129		
	WLAN 2.4 GHz	0.195		
WLAN 5.2 GHz	0.300	NII		
WLAN 5.8 GHz	0.300			

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	1.148	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 41 + 5G WIFI	0.995	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:

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

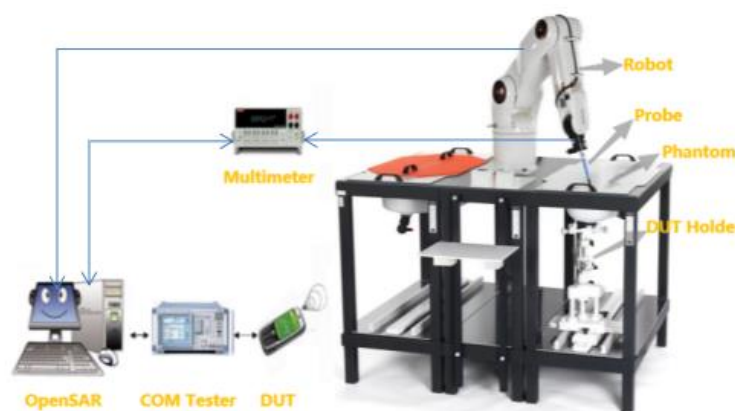
SAR is expressed in units of Watts per kilogram (W/kg) SAR measurement can be related to the electrical field in the tissue by

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

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.



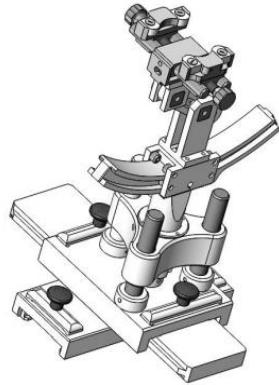
ELLI Phantom

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

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

(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°.)

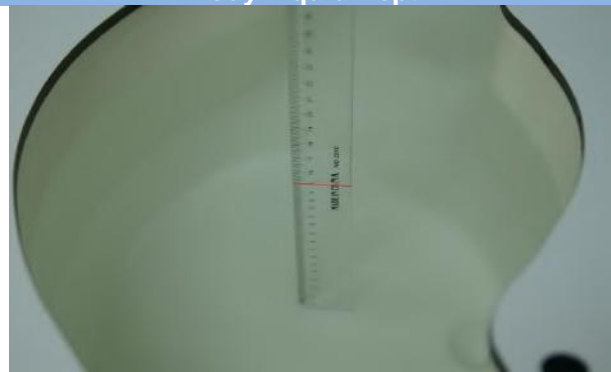
4.2.6 Simulating Liquid

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.

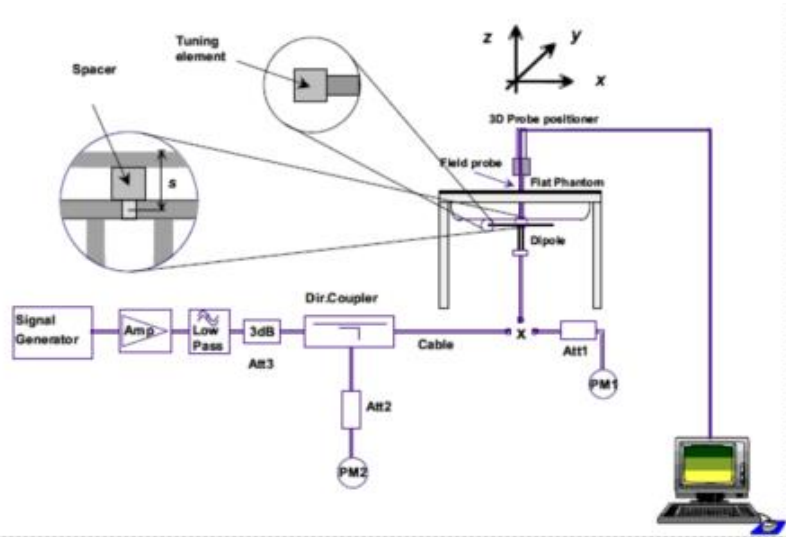
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ϵ
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5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

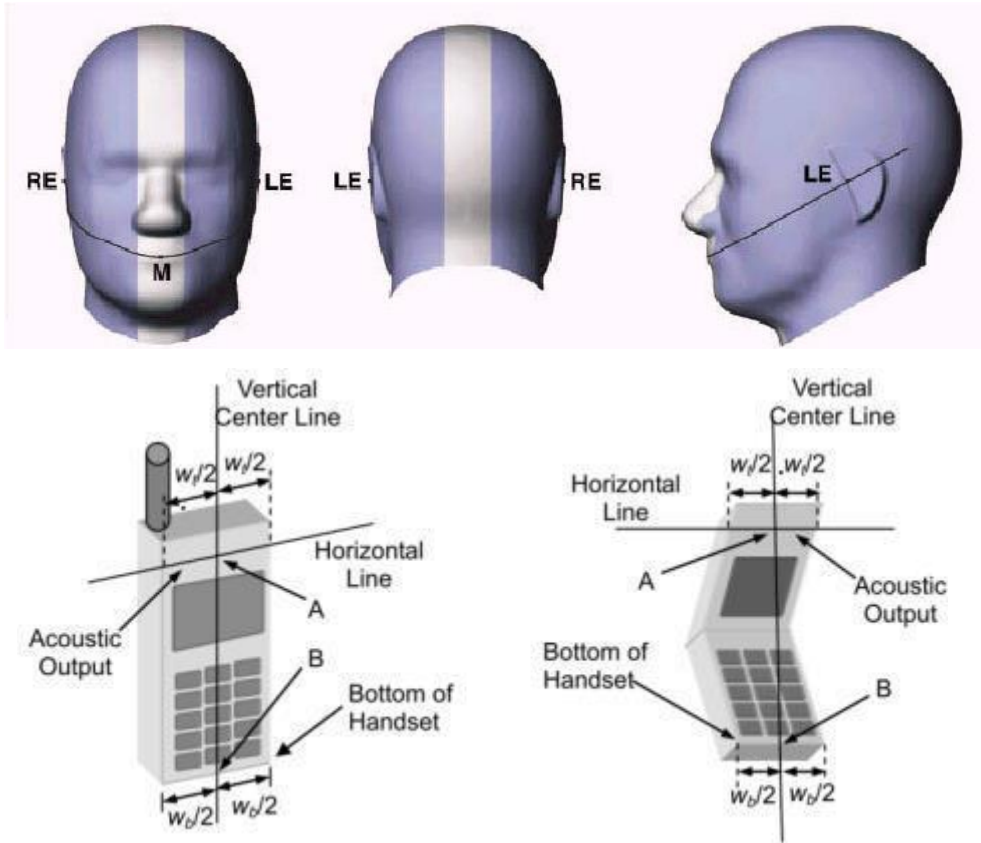
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.



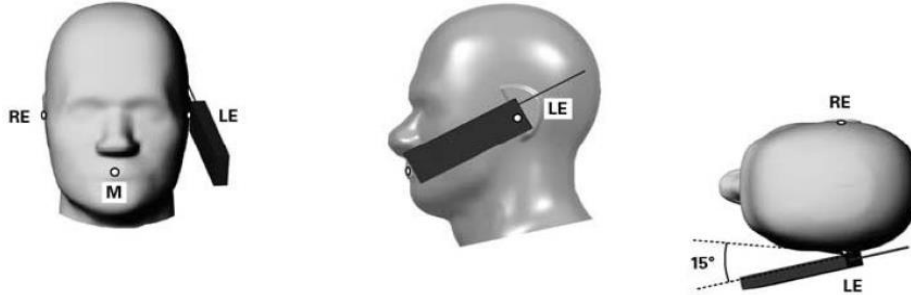
6.1.2 Two Imaginary Lines on the Handset

- (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.

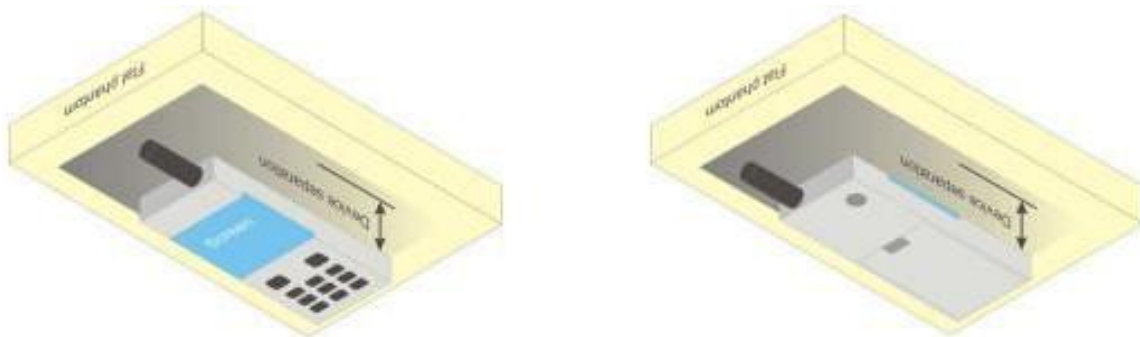


6.2 Body-worn Position Conditions

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.

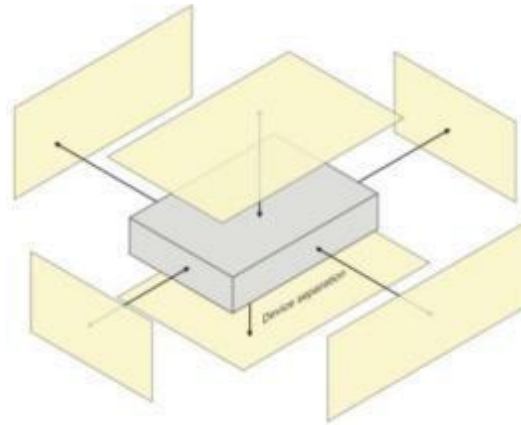
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

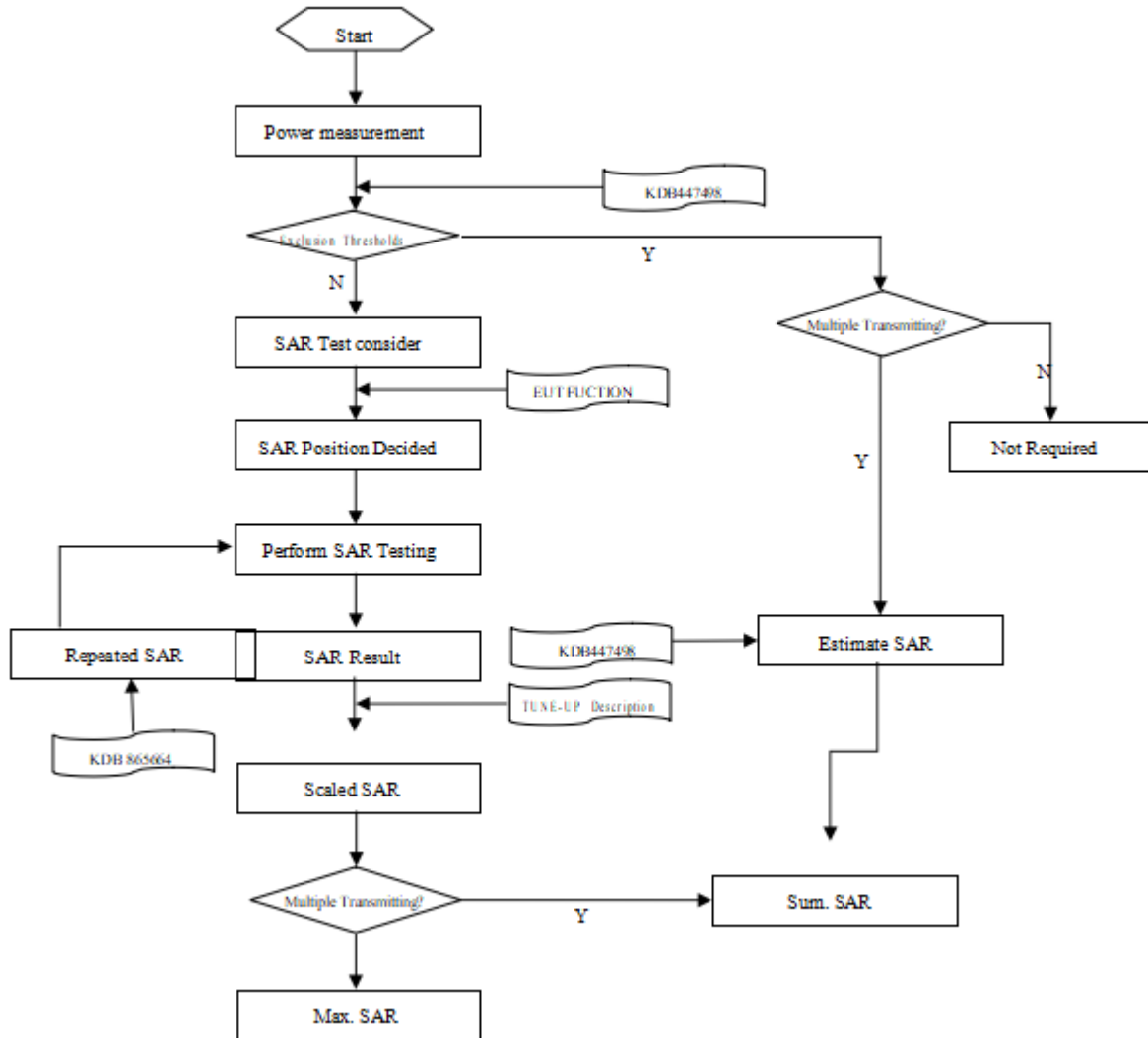
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed 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	$\frac{1}{2} \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
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	≤ 4 mm	5–6 GHz: ≤ 2 mm
			Δz Zoom (n>1): between subsequent points	≤ 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		31.00	30.03	30.39	30.54	-9.03	21.00	21.36	21.51
GPRS (GMSK)	1Tx slot	31.00	30.15	30.41	30.54	-9.03	21.12	21.38	21.51
	2Tx slots	30.00	29.34	29.66	29.81	-6.02	23.32	23.64	23.79
	3Tx slots	28.00	27.24	27.63	27.78	-4.26	22.98	23.37	23.52
	4Tx slots	27.00	26.01	26.43	26.60	-3.01	23.00	23.42	23.59
EGPRS (8PSK)	1Tx slot	25.50	25.07	25.05	24.82	-9.03	16.04	16.02	15.79
	2Tx slots	24.00	23.74	23.93	23.79	-6.02	17.72	17.91	17.77
	3Tx slots	23.50	21.90	21.97	23.03	-4.26	17.64	17.71	18.77
	4Tx slots	20.00	19.52	19.46	19.20	-3.01	16.51	16.45	16.19
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		29.50	29.20	29.14	29.09	-9.03	20.17	20.11	20.06
GPRS (GMSK)	1Tx slot	29.50	29.21	29.13	29.07	-9.03	20.18	20.10	20.04
	2Tx slots	27.50	26.95	27.08	26.96	-6.02	20.93	21.06	20.94
	3Tx slots	26.00	25.46	25.62	25.48	-4.26	21.20	21.36	21.22
	4Tx slots	24.00	23.55	23.69	23.53	-3.01	20.54	20.68	20.52
EGPRS (8PSK)	1Tx slot	25.50	25.21	25.42	25.17	-9.03	16.18	16.39	16.14
	2Tx slots	24.50	23.91	24.01	24.00	-6.02	17.89	17.99	17.98
	3Tx slots	23.00	21.26	22.75	21.58	-4.26	17.00	18.49	17.32
	4Tx slots	20.00	19.41	19.79	19.98	-3.01	16.40	16.78	16.97
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		21.00	20.69	20.25	19.74
HSDPA	Subtest-1	18.50	18.36	17.87	17.40
	Subtest-2	18.50	18.37	17.90	17.37
	Subtest-3	18.50	18.36	17.89	17.40
	Subtest-4	18.50	18.31	17.89	17.37
HSUPA	Subtest-1	16.50	16.37	15.73	15.48
	Subtest-2	16.00	15.85	15.39	15.48
	Subtest-3	16.50	16.37	15.47	15.46
	Subtest-4	16.50	16.36	15.41	15.47
	Subtest-5	16.50	16.17	15.72	15.24
Mode		Maximum Tune-up(dBm)	WCDMA Band IV		
			Conducted Power (dBm)		
			CH1312	CH1413	CH1513
RMC 12.2K		21.50	20.80	21.03	21.09
HSDPA	Subtest-1	19.00	18.47	18.70	18.78
	Subtest-2	19.00	18.49	18.69	18.77
	Subtest-3	19.00	18.46	18.69	18.75
	Subtest-4	19.00	18.48	18.70	18.76
HSUPA	Subtest-1	17.00	16.51	16.56	16.84
	Subtest-2	17.00	16.35	16.79	16.84
	Subtest-3	17.00	16.53	16.80	16.65
	Subtest-4	17.00	16.33	16.79	16.60
	Subtest-5	17.00	16.52	16.56	16.32
Mode		Maximum Tune-up(dBm)	WCDMA Band V		
			Conducted Power (dBm)		
			CH4132	CH4183	CH4233
RMC 12.2K		22.00	21.58	21.56	21.46
HSDPA	Subtest-1	19.50	19.21	19.24	19.10
	Subtest-2	19.50	19.20	19.22	19.11
	Subtest-3	19.50	19.22	19.21	19.04
	Subtest-4	19.50	19.22	19.21	19.11
HSUPA	Subtest-1	17.50	17.26	17.27	17.14
	Subtest-2	17.50	17.07	16.75	16.65
	Subtest-3	17.50	16.82	16.80	17.17
	Subtest-4	17.50	17.27	17.04	17.20
	Subtest-5	17.50	17.09	16.73	17.16
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	22.00	21.82	20.85	20.31	
			2	22.00	21.90	20.95	20.43	
			5	22.00	21.77	20.85	20.31	
		3	0	22.00	21.92	20.97	20.37	
			2	22.00	21.92	20.99	20.40	
			3	22.00	21.87	20.97	20.39	
	16QAM	6	0	21.00	20.82	19.94	19.35	
			1	21.00	20.96	19.84	19.28	
			2	21.50	21.07	20.02	19.39	
		3	5	20.50	20.41	19.84	19.32	
			0	20.50	20.43	20.17	19.48	
			2	20.50	20.44	20.21	19.47	
3	20.50	20.42	20.20	19.46				
6	0	19.50	19.35	18.97	18.30			
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185	
					1851.5MHz	1880.0MHz	1908.5MHz	
3MHz	QPSK	1	0	21.50	21.47	21.05	20.50	
			7	22.00	21.53	21.18	20.62	
			14	21.50	21.40	20.95	20.47	
		8	0	20.50	20.41	20.09	19.53	
			4	20.50	20.39	20.05	19.54	
			7	20.50	20.34	20.00	19.47	
	15	0	20.50	20.41	20.09	19.53		
	16QAM	1	0	20.50	20.47	20.21	20.07	
			7	21.00	20.53	20.33	20.23	
			14	20.50	20.35	20.16	19.93	
		8	0	20.00	19.50	19.09	18.78	
			4	20.00	19.55	19.10	18.78	
			7	19.50	19.46	19.03	18.72	
		15	0	20.00	19.54	19.06	18.65	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900
						1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	21.50	21.32	20.92	20.44	
			13	21.50	21.33	20.98	20.54	
			24	21.50	21.16	20.90	20.32	
		12	0	20.50	20.34	20.02	19.58	
			6	20.50	20.30	20.01	19.52	
			13	20.50	20.17	19.86	19.30	
	25	0	20.50	20.29	19.96	19.51		
	16QAM	1	0	20.50	20.38	20.14	19.29	
			13	20.50	20.39	20.27	19.36	
			24	20.50	20.24	20.14	19.14	
		12	0	19.50	19.45	19.13	18.67	
			6	19.50	19.41	19.15	18.62	
			13	19.50	19.28	18.94	18.45	
		25	0	19.50	19.42	18.99	18.60	

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	21.50	21.34	21.01	20.55	
			25	21.50	21.48	21.18	20.65	
			49	21.50	21.18	20.85	20.35	
		25	0	20.50	20.43	20.13	19.73	
			13	20.50	20.30	20.06	19.58	
			25	20.50	20.20	19.91	19.31	
	50	0	20.50	20.33	20.03	19.60		
		16QAM	1	0	20.50	20.32	20.14	19.93
				25	20.50	20.40	20.34	20.19
	49			20.50	20.12	20.03	19.87	
	25	16QAM	25	0	20.00	19.60	19.17	18.83
				13	19.50	19.45	19.15	18.72
				25	19.50	19.34	19.01	18.45
	50	0	19.50	19.43	19.13	18.65		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
15MHz	QPSK	1	0	21.50	21.17	20.92	20.48	
			38	21.50	21.27	20.93	20.53	
			74	21.50	21.01	20.60	20.20	
		36	0	20.50	20.32	20.08	19.59	
			18	20.50	20.26	20.06	19.63	
			39	20.50	20.24	19.79	19.30	
	75	0	20.50	20.31	19.96	19.44		
		16QAM	1	0	21.00	20.59	19.98	19.85
				38	21.00	20.60	20.14	20.02
	74			20.50	20.22	19.83	19.73	
	36	16QAM	36	0	19.50	19.34	19.09	18.60
				18	19.50	19.30	19.09	18.66
				39	19.50	19.21	18.90	18.41
	75	0	19.50	19.32	18.99	18.44		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
20MHz	QPSK	1	0	21.00	20.92	20.79	20.41	
			50	21.50	21.31	21.13	20.78	
			99	21.00	20.75	20.52	20.11	
		50	0	20.50	20.30	20.01	19.43	
			25	20.50	20.20	20.00	19.52	
			50	20.50	20.21	19.63	19.11	
	100	0	20.50	20.24	19.86	19.31		
		16QAM	1	0	20.50	20.48	19.86	19.63
				50	21.00	20.76	20.35	19.90
	99			20.50	20.14	19.69	19.35	
	50	16QAM	50	0	19.50	19.38	19.04	18.45
				25	19.50	19.25	19.05	18.61
				50	19.50	19.26	18.68	18.20
	100	0	19.50	19.33	18.94	18.34		

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	22.00	21.27	21.50	21.61	
			2	22.00	21.32	21.65	21.74	
			5	22.00	21.25	21.49	21.63	
		3	0	22.00	21.40	21.61	21.75	
			2	22.00	21.42	21.63	21.77	
			3	22.00	21.41	21.64	21.73	
	6	0	21.00	20.31	20.55	20.71		
	16QAM	1	0	21.00	20.25	20.54	20.80	
			2	21.00	20.35	20.63	20.89	
			5	21.00	20.23	20.58	20.73	
		3	0	21.00	20.64	20.71	20.70	
			2	21.00	20.62	20.71	20.75	
			3	21.00	20.65	20.70	20.75	
		6	0	20.00	19.42	19.53	19.75	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175
1711.5MHz							1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	22.00	21.43	21.60	21.73	
			7	22.00	21.53	21.74	21.84	
			14	22.00	21.43	21.59	21.71	
		8	0	21.00	20.41	20.62	20.70	
			4	21.00	20.43	20.65	20.76	
			7	21.00	20.38	20.64	20.70	
	15	0	21.00	20.43	20.62	20.68		
	16QAM	1	0	21.50	20.46	20.75	21.24	
			7	21.50	20.55	20.91	21.40	
			14	21.50	20.45	20.76	21.23	
		8	0	20.00	19.54	19.66	19.93	
			4	20.00	19.60	19.68	19.98	
			7	20.00	19.51	19.65	19.95	
		15	0	20.00	19.53	19.64	19.85	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175
1712.5MHz							1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	22.00	21.22	21.41	21.55	
			13	22.00	21.41	21.54	21.68	
			24	22.00	21.26	21.47	21.53	
		12	0	21.00	20.24	20.49	20.58	
			6	21.00	20.33	20.53	20.69	
			13	21.00	20.32	20.54	20.60	
	25	0	21.00	20.30	20.54	20.62		
	16QAM	1	0	21.00	20.34	20.67	20.36	
			13	21.00	20.46	20.81	20.50	
			24	21.00	20.37	20.74	20.41	
		12	0	20.00	19.38	19.63	19.71	
			6	20.00	19.45	19.70	19.77	
			13	20.00	19.42	19.72	19.67	
		25	0	20.00	19.44	19.61	19.72	

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	22.00	21.30	21.43	21.56		
			25	22.00	21.61	21.73	21.83		
			49	22.00	21.40	21.52	21.56		
		25	0	21.00	20.39	20.58	20.68		
			13	21.00	20.46	20.61	20.74		
			25	21.00	20.44	20.65	20.66		
		50	0	21.00	20.43	20.62	20.70		
			16QAM	1	0	21.50	20.32	20.62	21.06
					25	21.50	20.59	20.89	21.35
	49	21.50			20.38	20.72	21.08		
	25	0		20.00	19.55	19.69	19.79		
		13		20.00	19.62	19.69	19.84		
		25		20.00	19.62	19.73	19.80		
	50	0	20.00	19.53	19.70	19.77			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
1717.5MHz							1732.5MHz	1747.5MHz	
15MHz	QPSK	1	0	21.50	21.12	21.28	21.36		
			38	22.00	21.43	21.53	21.61		
			74	21.50	21.21	21.30	21.42		
		36	0	21.00	20.39	20.49	20.68		
			18	21.00	20.42	20.60	20.67		
			39	21.00	20.42	20.62	20.63		
		75	0	21.00	20.44	20.56	20.64		
			16QAM	1	0	21.00	20.56	20.49	20.95
					38	21.50	20.81	20.69	21.15
	74	21.00			20.69	20.52	20.97		
	36	0		20.00	19.42	19.60	19.70		
		18		20.00	19.50	19.63	19.73		
		39		20.00	19.44	19.66	19.72		
	75	0	20.00	19.43	19.62	19.71			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
1720.0MHz							1732.5MHz	1745.0MHz	
20MHz	QPSK	1	0	21.50	20.93	21.12	21.22		
			50	22.00	21.59	21.68	21.78		
			99	21.50	21.11	21.31	21.33		
		50	0	21.00	20.37	20.53	20.54		
			25	21.00	20.42	20.57	20.66		
			50	21.00	20.44	20.60	20.58		
		100	0	21.00	20.42	20.52	20.57		
			16QAM	1	0	21.00	20.52	20.36	20.54
					50	21.50	21.13	20.87	20.99
	99	21.00			20.68	20.47	20.56		
	50	0		20.00	19.42	19.60	19.68		
		25		20.00	19.56	19.62	19.70		
		50		20.00	19.53	19.65	19.64		
	100	0	20.00	19.52	19.61	19.64			

Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	22.50	22.15	22.07	22.00
			2	22.50	22.20	22.16	22.21
			5	22.50	22.15	22.05	22.09
		3	0	22.50	22.10	22.09	22.00
			2	22.50	22.12	22.11	22.08
			3	22.50	22.09	22.10	21.97
	16QAM	1	0	21.50	20.97	21.01	20.89
			2	21.50	21.05	21.10	20.99
			5	21.50	20.98	21.05	20.93
		3	0	21.50	21.23	21.14	21.01
			2	21.50	21.24	21.15	21.01
			3	21.50	21.22	21.13	20.94
6	0	20.50	20.14	20.05	19.96		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	22.50	22.35	22.14	22.10
			7	22.50	22.45	22.34	22.21
			14	22.50	22.38	22.20	22.23
		8	0	21.50	21.22	21.18	21.12
			4	21.50	21.30	21.23	21.12
			7	21.50	21.26	21.20	21.11
	15	0	21.50	21.17	21.16	21.11	
	16QAM	1	0	22.00	21.20	21.32	21.62
			7	22.00	21.32	21.44	21.67
			14	21.50	21.19	21.29	21.40
		8	0	20.50	20.25	20.20	20.29
			4	20.50	20.32	20.24	20.31
			7	20.50	20.28	20.17	20.25
		15	0	20.50	20.20	20.17	20.19

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625	
					826.5MHz	836.5MHz	846.5MHz	
5MHz	QPSK	1	0	22.50	22.06	21.99	21.89	
			13	22.50	22.22	22.10	22.02	
			24	22.50	22.05	21.99	21.95	
		12	0	21.50	21.02	21.07	21.03	
			6	21.50	21.11	21.09	21.01	
			13	21.50	21.11	20.93	20.87	
		25	0	21.50	21.06	21.07	20.95	
		16QAM	1	0	21.50	21.02	21.24	20.70
				13	21.50	21.17	21.28	20.84
	24			21.50	21.08	21.15	20.66	
	12		0	20.50	20.02	20.17	20.08	
			6	20.50	20.11	20.21	20.08	
			13	20.50	20.10	20.08	19.91	
	25	0	20.50	20.10	20.09	20.03		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	22.50	22.18	22.04	22.03
			25	22.50	22.37	22.25	22.21
			49	22.50	22.07	22.09	22.02
		25	0	21.50	21.09	21.23	21.00
			13	21.50	21.16	21.15	21.07
			25	21.50	21.10	21.08	20.85
	50	0	21.50	21.09	21.15	20.95	
	16QAM	1	0	21.50	21.02	21.17	21.37
			25	22.00	21.33	21.38	21.58
			49	21.50	21.05	21.11	21.31
		25	0	20.50	20.16	20.28	20.03
			13	20.50	20.27	20.22	20.13
			25	20.50	20.21	20.07	19.94
		50	0	20.50	20.13	20.19	19.99

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	22.00	21.37	21.59	21.59
			2	22.00	21.46	21.70	21.77
			5	22.00	21.35	21.57	21.68
		3	0	22.00	21.44	21.56	21.60
			2	22.00	21.46	21.59	21.62
			3	22.00	21.43	21.55	21.55
	6	0	21.00	20.45	20.59	20.76	
	16QAM	1	0	21.00	20.28	20.46	20.64
			2	21.00	20.40	20.57	20.76
			5	21.00	20.31	20.52	20.64
		3	0	21.00	20.56	20.58	20.47
			2	21.00	20.61	20.58	20.50
			3	21.00	20.61	20.54	20.47
		6	0	20.00	19.39	19.48	19.61
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095
3MHz	QPSK	1	0	22.00	21.57	21.64	21.66
			7	22.00	21.70	21.80	21.85
			14	22.00	21.60	21.69	21.64
		8	0	21.00	20.48	20.66	20.75
			4	21.00	20.55	20.71	20.79
			7	21.00	20.50	20.70	20.75
	15	0	21.00	20.47	20.63	20.70	
	16QAM	1	0	21.50	20.47	20.73	21.10
			7	21.50	20.64	20.88	21.19
			14	21.50	20.55	20.78	21.02
		8	0	20.00	19.46	19.56	19.86
			4	20.00	19.57	19.61	19.86
			7	20.00	19.53	19.61	19.79
		15	0	20.00	19.45	19.56	19.69
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	700.5MHz	707.5MHz

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155	
					701.5MHz	707.5MHz	713.5MHz	
5MHz	QPSK	1	0	21.50	21.32	21.43	21.49	
			13	22.00	21.57	21.63	21.63	
			24	22.00	21.49	21.54	21.59	
		12	0	21.00	20.29	20.51	20.74	
			6	21.00	20.48	20.57	20.63	
			13	21.00	20.27	20.69	20.47	
	25	0	21.00	20.30	20.63	20.59		
		16QAM	1	0	21.00	20.33	20.64	20.30
				13	21.00	20.57	20.75	20.42
	24			21.00	20.54	20.67	20.34	
	12	0	20.00	19.26	19.54	19.68		
		6	20.00	19.47	19.57	19.62		
		13	20.00	19.27	19.70	19.43		
	25	0	20.00	19.31	19.56	19.60		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
704.0MHz						707.5MHz	711.0MHz	
10MHz	QPSK	1	0	22.00	21.40	21.40	21.53	
			25	22.00	21.77	21.80	21.79	
			49	22.00	21.64	21.54	21.56	
		25	0	21.00	20.68	20.74	20.32	
			13	21.00	20.62	20.62	20.61	
			25	21.00	20.57	20.84	20.23	
	50	0	21.00	20.64	20.78	20.31		
		16QAM	1	0	21.00	20.31	20.54	20.95
				25	21.50	20.74	20.87	21.23
	49			21.00	20.53	20.67	20.98	
	25	0	20.00	19.69	19.73	19.31		
		13	20.00	19.63	19.63	19.62		
		25	20.00	19.60	19.84	19.25		
	50	0	20.00	19.61	19.74	19.27		

Band 13

LTE-FDD Band 13				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		23205	23230	23255	
5MHz	QPSK	1	0	22.50	22.20	22.23	22.20	
			13	22.50	22.36	22.35	22.39	
			24	22.50	22.24	22.27	22.31	
		12	0	21.50	21.26	21.24	21.42	
			6	21.50	21.40	21.39	21.38	
			13	21.50	21.35	21.34	21.38	
	25	0	21.50	21.36	21.30	21.40		
		16QAM	1	0	21.50	21.07	21.34	21.49
				13	22.00	21.23	21.47	21.68
	24			22.00	21.09	21.38	21.61	
	12	0	20.50	20.27	20.22	20.47		
		6	20.50	20.39	20.37	20.49		
		13	20.50	20.36	20.31	20.36		
	25	0	20.50	20.34	20.31	20.37		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23230
					782.0MHz
10MHz	QPSK	1	0	22.50	22.23
			25	22.50	22.49
			49	22.50	22.35
		25	0	21.50	21.28
			13	21.50	21.46
			25	21.50	21.40
	50	0	21.50	21.38	
	16QAM	1	0	22.00	21.88
			25	22.50	22.05
			49	22.00	21.99
		25	0	20.50	20.35
			13	21.00	20.51
			25	20.50	20.45
		50	0	20.50	20.38

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
					706.5MHz	710MHz	713.5MHz
5MHz	QPSK	1	0	22.50	21.90	20.54	22.38
			13	22.50	20.79	22.18	20.43
			24	22.00	21.22	21.97	18.93
		12	0	22.00	20.86	21.17	21.61
			6	22.00	20.53	21.94	20.61
			13	22.50	20.62	22.25	19.42
	25	0	22.00	20.60	21.77	20.62	
	16QAM	1	0	22.50	20.82	20.47	22.39
			13	22.50	20.12	22.13	20.48
			24	22.00	20.73	21.89	19.04
		12	0	22.00	20.45	21.08	21.54
			6	22.00	20.22	21.81	20.55
			13	22.00	20.39	21.62	19.37
		25	0	22.00	20.38	21.53	20.48
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	21.00	20.92	19.92	19.76
			25	22.00	21.36	21.75	21.97
			49	21.00	20.67	19.23	18.61
		25	0	21.00	20.39	20.45	20.94
			13	21.50	21.31	21.48	21.49
			25	22.00	21.77	21.23	20.47
	50	0	21.50	21.09	20.85	20.71	
	16QAM	1	0	20.50	20.39	19.90	20.18
			25	22.50	21.10	21.81	22.41
			49	20.50	20.31	19.28	19.11
		25	0	21.00	20.27	20.41	20.91
			13	21.50	21.22	21.42	21.47
			25	22.00	21.64	21.12	20.44
		50	0	21.00	20.96	20.77	20.66

Band 25

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26047	26365	26683	
					1850.7MHz	1882.5MHz	1914.3MHz	
1.4MHz	QPSK	1	0	21.50	21.26	20.82	19.87	
			2	21.50	21.33	20.97	19.27	
			5	21.50	21.21	20.80	18.43	
		3	0	21.50	21.34	20.94	19.23	
			2	21.50	21.36	20.96	18.82	
			3	21.50	21.34	20.96	18.50	
	6	0	20.50	20.29	19.88	18.79		
	16QAM	1	0	20.50	20.25	19.85	19.16	
			2	20.50	20.32	19.94	18.90	
			5	20.50	20.18	19.86	18.13	
		3	0	21.00	20.61	20.06	18.85	
			2	21.00	20.58	20.04	18.46	
			3	21.00	20.59	20.03	18.21	
		6	0	19.50	19.32	18.87	18.49	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26055	26365
						1851.5MHz	1882.5MHz	1913.5MHz
3MHz	QPSK	1	0	21.50	21.46	21.01	20.50	
			7	22.00	21.55	21.16	19.67	
			14	21.50	21.37	20.98	17.95	
		8	0	20.50	20.42	20.02	19.54	
			4	20.50	20.41	20.04	19.44	
			7	20.50	20.35	19.99	18.63	
	15	0	20.50	20.40	20.03	19.39		
	16QAM	1	0	20.50	20.42	20.21	19.88	
			7	21.00	20.58	20.31	19.67	
			14	20.50	20.36	20.16	17.98	
		8	0	20.00	19.53	19.08	18.99	
			4	20.00	19.51	19.10	18.67	
			7	20.00	19.50	19.02	18.57	
		15	0	20.00	19.55	19.04	18.53	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26065	26365
						1852.5MHz	1882.5MHz	1912.5MHz
5MHz	QPSK	1	0	21.50	21.29	20.87	20.31	
			13	21.50	21.35	20.99	20.30	
			24	21.50	21.21	20.78	17.65	
		12	0	20.50	20.37	19.98	19.30	
			6	20.50	20.33	19.98	19.36	
			13	20.50	20.19	19.80	18.93	
	25	0	20.50	20.29	19.97	19.17		
	16QAM	1	0	20.50	20.32	20.13	19.06	
			13	20.50	20.41	20.31	19.25	
			24	20.50	20.28	20.11	17.57	
		12	0	19.50	19.42	19.14	18.26	
			6	19.50	19.42	19.11	18.39	
			13	19.50	19.27	18.90	18.01	
		25	0	19.50	19.38	19.00	18.20	

LTE-FDD Band 25				Maximum Tune-up(dBm)	Conducted Power(dBm)				
Bandwidth	Modulation	RB allocation	RB offset		26090	26365	26640		
					1855.0MHz	1882.5MHz	1910.0MHz		
10MHz	QPSK	1	0	21.50	21.32	20.91	20.43		
			25	21.50	21.48	21.11	20.64		
			49	21.50	21.22	20.76	18.47		
		25	0	20.50	20.41	20.14	19.60		
			13	20.50	20.31	20.04	19.49		
			25	20.50	20.24	19.83	19.16		
		50	0	20.50	20.36	20.01	19.53		
			16QAM	1	0	20.50	20.26	20.07	20.01
					25	20.50	20.45	20.29	20.02
	49	20.50			20.14	19.96	18.74		
	25	0		20.00	19.57	19.21	18.76		
		13		19.50	19.47	19.14	18.59		
		25		19.50	19.38	18.93	18.36		
	50	0	19.50	19.43	19.05	18.58			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26115	26365	26615
1857.5MHz							1882.5MHz	1907.5MHz	
15MHz	QPSK	1	0	21.50	21.13	20.83	20.35		
			38	21.50	21.28	20.89	20.41		
			74	21.00	20.99	20.57	19.07		
		36	0	20.50	20.33	20.04	19.69		
			18	20.50	20.29	19.95	19.54		
			39	20.50	20.26	19.77	19.45		
		75	0	20.50	20.31	19.98	19.69		
			16QAM	1	0	21.00	20.55	19.98	19.77
					38	21.00	20.61	20.12	19.99
	74	20.50			20.18	19.78	19.33		
	36	0		19.50	19.37	19.12	18.79		
		18		19.50	19.33	19.05	18.65		
		39		19.50	19.26	18.79	18.54		
	75	0	19.50	19.31	19.00	18.66			
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26140	26365	26590
1860.0MHz							1882.5MHz	1905.0MHz	
20MHz	QPSK	1	0	21.00	20.93	20.74	20.34		
			50	21.50	21.33	21.11	20.64		
			99	21.00	20.76	20.41	19.49		
		50	0	20.50	20.30	20.07	19.52		
			25	20.50	20.23	19.95	19.50		
			50	20.50	20.22	19.69	19.41		
		100	0	20.50	20.29	19.92	19.51		
			16QAM	1	0	20.50	20.48	19.86	19.51
					50	21.00	20.80	20.28	19.93
	99	20.50			20.18	19.63	19.20		
	50	0		19.50	19.39	19.11	18.55		
		25		19.50	19.28	19.00	18.61		
		50		19.50	19.25	18.79	18.45		
	100	0	19.50	19.39	18.99	18.57			

Band 26

LTE-FDD Band 26a				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26697 814.7MHz	26740 819.0MHz	26783 823.3MHz
1.4MHz	QPSK	1	0	23.50	22.67	22.72	23.38
			2	24.00	22.81	22.87	23.53
			5	23.50	22.59	22.70	23.35
		3	0	23.50	22.73	23.33	22.78
			2	23.00	22.75	22.83	22.79
			3	23.00	22.72	22.78	22.72
	6	0	22.00	21.70	21.82	21.87	
	16QAM	1	0	22.50	21.57	22.19	21.63
			2	22.50	22.46	22.45	22.28
			5	22.50	22.22	22.30	21.60
		3	0	22.50	22.41	22.48	21.76
			2	23.00	22.27	22.55	21.90
3			22.50	22.28	22.30	21.66	
6	0	21.50	20.90	21.37	21.27		
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26705 815.5MHz	26740 819.0MHz	26775 822.5MHz
3MHz	QPSK	1	0	23.00	22.99	22.82	22.93
			7	23.50	22.98	23.01	23.01
			14	23.50	22.85	22.89	23.00
		8	0	22.00	21.85	21.83	21.88
			4	22.00	21.87	21.90	21.92
			7	22.00	21.81	21.86	21.89
	15	0	22.00	21.82	21.85	21.82	
	16QAM	1	0	22.50	22.30	21.83	21.95
			7	22.50	22.11	22.42	21.92
			14	22.50	21.80	21.98	22.14
		8	0	21.00	20.98	20.90	20.81
			4	21.50	20.90	21.05	20.93
7			21.00	20.92	20.85	20.97	
15	0	21.00	20.93	20.92	20.77		

LTE-FDD Band 26a				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26715 816.5MHz	26740 819.0MHz	26765 821.5MHz
5MHz	QPSK	1	0	23.00	22.68	22.59	22.63
			13	23.00	22.74	22.79	22.82
			24	23.00	22.67	22.68	22.72
		12	0	22.00	21.68	21.70	21.63
			6	22.00	21.72	21.76	21.75
			13	22.00	21.63	21.61	21.65
	25	0	22.00	21.67	21.72	21.67	
	16QAM	1	0	22.00	21.44	21.67	21.82
			13	22.00	21.92	21.54	21.77
			24	22.00	21.71	21.81	21.39
		12	0	21.00	20.70	20.74	20.78
			6	21.00	20.82	20.79	20.75
13			21.00	20.71	20.69	20.66	
25	0	21.00	20.76	20.75	20.67		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26740
					819.0MHz
10MHz	QPSK	1	0	23.00	22.69
			25	23.00	22.96
			49	23.00	22.83
		25	0	22.00	21.78
			13	22.00	21.80
			25	22.00	21.74
	50	0	22.00	21.78	
	16QAM	1	0	22.00	21.80
			25	22.00	21.92
			49	22.50	22.00
		25	0	21.00	20.87
			13	21.00	20.91
			25	21.00	20.80
		50	0	21.00	20.81

LTE-FDD Band 26b				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		26797	26915	27033	
					824.7MHz	836.5MHz	848.3MHz	
1.4MHz	QPSK	1	0	23.50	22.78	22.64	23.13	
			2	23.50	22.83	22.73	23.31	
			5	23.50	22.80	22.84	23.31	
		3	0	23.00	22.65	22.73	22.67	
			2	23.00	22.69	22.76	22.71	
			3	23.00	22.65	22.72	22.65	
	6	0	22.50	21.82	21.68	22.29		
	16QAM	1	0	22.50	22.16	22.15	21.55	
			2	22.50	22.20	22.24	21.80	
			5	22.50	22.28	22.33	21.58	
		3	0	22.50	22.17	22.24	21.64	
			2	22.50	22.32	22.33	21.66	
			3	22.50	22.03	22.26	21.73	
		6	0	21.50	20.72	21.15	20.68	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26805	26915
						825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.92	22.75	22.74	
			7	23.50	23.10	22.89	22.83	
			14	23.00	22.94	22.79	22.83	
		8	0	22.00	21.89	21.77	21.75	
			4	22.00	21.93	21.80	21.76	
			7	22.00	21.91	21.75	21.75	
	15	0	22.00	21.80	21.76	21.69		
	16QAM	1	0	22.50	21.80	21.91	22.20	
			7	22.50	22.29	21.91	21.96	
			14	22.50	21.91	22.16	21.63	
		8	0	21.00	20.86	20.82	20.94	
			4	21.00	20.99	20.90	20.73	
			7	21.00	20.81	20.95	20.76	
		15	0	21.00	20.81	20.78	20.80	

LTE-FDD Band 26b				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26815	26915	27015
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.70	22.60	22.53
			13	23.00	22.82	22.68	22.60
			24	23.00	22.67	22.61	22.61
		12	0	22.00	21.60	21.66	21.59
			6	22.00	21.72	21.70	21.63
			13	22.00	21.68	21.56	21.45
	25	0	22.00	21.63	21.65	21.52	
	16QAM	1	0	22.00	21.61	21.83	21.30
			13	22.00	21.52	21.74	21.83
			24	22.00	21.80	21.35	21.51
		12	0	21.00	20.60	20.78	20.67
			6	21.00	20.73	20.72	20.75
			13	21.00	20.74	20.61	20.48
		25	0	21.00	20.65	20.68	20.60
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	26840	26915
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.75	22.69	22.68
			25	23.00	22.98	22.88	22.84
			49	23.00	22.66	22.69	22.71
		25	0	22.00	21.68	21.81	21.56
			13	22.00	21.73	21.73	21.61
			25	22.00	21.74	21.65	21.44
	50	0	22.00	21.67	21.76	21.51	
	16QAM	1	0	22.50	21.74	22.14	21.50
			25	22.50	22.02	21.94	21.72
			49	22.00	21.81	21.53	21.50
		25	0	21.00	20.68	20.89	20.59
			13	21.00	20.78	20.78	20.70
			25	21.00	20.76	20.70	20.55
		50	0	21.00	20.71	20.79	20.55

LTE-TDD Band 26c				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		26765	26865	26965
					821.5MHz	831.5MHz	841.5MHz
15MHz	QPSK	1	0	23.00	22.57	22.64	22.49
			38	23.00	22.81	22.68	22.74
			74	23.00	22.58	22.46	22.46
		36	0	22.00	21.77	21.73	21.72
			18	22.00	21.82	21.76	21.78
			39	22.00	21.83	21.65	21.63
	75	0	22.00	21.82	21.69	21.65	
	16QAM	1	0	22.50	22.02	21.66	21.63
			38	22.50	22.12	22.04	21.68
			74	22.00	21.89	21.68	21.50
		36	0	21.00	20.80	20.69	20.68
			18	21.00	20.82	20.77	20.72
			39	21.00	20.83	20.57	20.57
		75	0	21.00	20.79	20.68	20.65

Band 41

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		39675	40620	41565	
					2498.5MHz	2593.0MHz	2687.5MHz	
5MHz	QPSK	1	0	23.50	23.16	21.80	23.15	
			13	24.00	23.21	21.94	23.55	
			24	23.50	23.09	21.82	23.10	
		12	0	22.50	22.10	20.79	22.09	
			6	22.50	22.14	20.86	22.07	
			13	22.50	22.10	20.73	22.16	
	25	0	22.50	22.17	20.85	22.11		
	16QAM	1	0	22.50	22.05	20.68	22.08	
			13	22.50	22.18	20.57	22.13	
			24	22.50	21.98	20.75	22.11	
		12	0	21.50	21.05	19.71	20.96	
			6	21.50	21.14	19.82	21.04	
			13	21.50	20.99	19.73	21.07	
		25	0	21.50	21.06	19.71	20.94	
		Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39700	40620
						2501.0MHz	2593.0MHz	2685.0MHz
10MHz	QPSK	1	0	23.50	23.31	21.92	22.72	
			25	24.00	23.52	22.18	23.33	
			49	23.50	23.14	21.89	23.29	
		25	0	22.50	22.20	20.94	21.93	
			13	22.50	22.18	20.87	22.03	
			25	22.50	22.14	20.90	22.05	
	50	0	22.50	22.13	20.83	21.94		
	16QAM	1	0	22.00	21.85	20.60	21.53	
			25	22.50	22.06	20.80	22.01	
			49	22.00	21.71	20.55	21.97	
		25	0	21.50	21.08	19.84	20.84	
			13	21.50	21.07	19.84	20.95	
			25	21.50	21.08	19.86	21.06	
		50	0	21.50	21.02	19.82	20.88	

LTE-TDD Band 41				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		39725	40620	41515
					2503.5MHz	2593.0MHz	2682.5MHz
15MHz	QPSK	1	0	23.50	23.28	21.75	22.37
			38	23.50	23.17	21.90	23.02
			74	23.50	23.03	21.72	23.30
		36	0	22.50	22.16	20.90	21.80
			18	22.50	22.18	20.97	21.95
			39	22.50	22.09	20.91	22.14
	75	0	22.50	22.19	20.93	22.02	
	16QAM	1	0	22.00	21.96	20.45	21.07
			38	22.50	22.06	20.78	21.63
			74	22.00	21.76	20.48	21.97
		36	0	21.50	21.08	19.86	20.69
			18	21.50	21.11	19.92	20.84
			39	21.50	21.04	19.82	21.02
		75	0	21.50	21.05	19.88	20.79

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	39750	40620	41490
					2506.0MHz	2593.0MHz	2680.0MHz
20MHz	QPSK	1	0	23.00	22.96	21.98	21.90
			50	23.50	23.30	22.48	22.54
			99	23.00	22.67	21.90	22.67
		50	0	22.00	21.94	21.15	21.37
			25	22.00	21.96	21.16	21.52
			50	22.00	21.85	21.13	21.71
	100	0	22.00	21.89	21.11	21.46	
	16QAM	1	0	22.00	21.74	20.87	20.92
			50	22.50	22.03	21.42	21.72
			99	22.00	21.48	20.81	21.70
		50	0	21.00	20.86	19.60	20.30
			25	21.00	20.91	19.70	20.51
			50	21.00	20.71	19.62	20.67
		100	0	21.00	20.86	19.57	20.52

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	21.49	21.85	22.03
			2	22.50	21.70	22.05	22.26
			5	22.50	21.44	21.88	22.01
		3	0	22.50	21.70	21.97	22.16
			2	22.50	21.66	21.95	22.08
			3	22.50	21.72	22.00	22.11
	6	0	21.50	20.58	20.90	21.05	
	16QAM	1	0	21.50	20.58	21.20	20.91
			2	21.50	20.76	21.36	21.09
			5	21.50	20.60	21.14	20.88
		3	0	21.00	20.81	20.94	20.97
			2	21.00	20.79	20.97	20.94
			3	21.50	20.80	21.05	21.01
		6	0	20.50	19.72	19.95	20.08
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131987	132322
					1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	22.50	21.70	21.99	22.06
			7	22.00	21.57	21.95	21.92
			14	22.50	21.72	22.00	22.03
		8	0	21.50	20.66	20.92	21.07
			4	21.50	20.67	20.97	21.10
			7	21.50	20.64	20.90	21.06
	15	0	21.50	20.63	20.89	21.05	
	16QAM	1	0	21.50	21.06	20.87	21.08
			7	21.00	20.92	20.79	20.94
			14	21.50	21.16	20.87	21.06
		8	0	20.50	19.77	19.93	20.11
			4	20.50	19.81	19.96	20.14
			7	20.50	19.77	19.92	20.05
		15	0	20.50	19.75	19.97	20.01

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	22.00	21.46	21.75	21.89
			13	22.50	21.59	21.87	22.01
			24	22.00	21.51	21.76	21.90
		12	0	21.00	20.56	20.81	20.98
			6	21.50	20.60	20.87	21.04
			13	21.00	20.57	20.81	20.91
	25	0	21.50	20.61	20.84	21.00	
	16QAM	1	0	21.50	20.45	21.15	21.00
			13	21.50	20.58	21.24	21.11
			24	21.50	20.47	21.16	20.98
		12	0	20.50	19.69	19.88	20.05
			6	20.50	19.78	19.98	20.14
			13	20.50	19.71	19.87	20.00
		25	0	20.50	19.76	19.89	20.04
Bandwidth		Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	22.00	21.57	21.91	21.86
			25	22.50	21.79	22.08	22.08
			49	22.00	21.63	21.95	21.94
		25	0	21.50	20.64	20.92	21.09
			13	21.50	20.68	20.95	21.08
			25	21.50	20.67	20.94	21.00
	50	0	21.50	20.66	20.95	21.07	
	16QAM	1	0	21.00	20.97	20.75	20.91
			25	21.50	21.14	20.91	21.10
			49	21.50	21.04	20.79	20.95
		25	0	20.50	19.73	20.02	20.21
			13	20.50	19.77	20.02	20.19
			25	20.50	19.76	20.07	20.10
		50	0	20.50	19.71	20.06	20.09

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	22.00	21.42	21.72	21.76
			38	22.50	21.72	22.01	21.98
			74	22.00	21.51	21.77	21.78
		36	0	21.00	20.58	20.90	20.99
			18	21.50	20.64	20.95	21.05
			39	21.50	20.66	20.92	21.00
	75	0	21.50	20.63	20.93	21.06	
	16QAM	1	0	21.00	20.36	20.61	20.77
			38	21.50	20.60	20.85	21.02
			74	21.00	20.46	20.67	20.82
		36	0	20.50	19.64	19.93	20.02
			18	20.50	19.71	19.99	20.12
			39	20.00	19.72	19.95	19.96
		75	0	20.50	19.68	19.92	20.08

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	22.00	21.25	21.49	21.58
			50	22.50	21.68	21.98	22.06
			99	22.00	21.39	21.59	21.65
		50	0	21.00	20.57	20.88	20.99
			25	21.50	20.65	20.96	21.01
			50	21.00	20.62	20.86	20.90
	100	0	21.00	20.58	20.76	20.92	
	16QAM	1	0	21.00	20.34	20.32	20.97
			50	21.50	20.73	20.80	21.42
			99	21.50	20.47	20.46	21.06
		50	0	20.50	19.65	19.85	20.07
			25	20.50	19.71	19.99	20.06
			50	20.00	19.69	19.90	19.95
		100	0	20.00	19.71	19.82	19.96

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	22.00	21.57	21.43	21.36
			13	22.00	21.67	21.53	21.52
			24	22.00	21.59	21.40	21.49
		12	0	21.00	20.54	20.43	20.44
			6	21.00	20.65	20.50	20.50
			13	21.00	20.63	20.40	20.47
	25	0	21.00	20.60	20.48	20.51	
	16QAM	1	0	21.00	20.61	20.32	20.73
			13	21.00	20.75	20.45	20.89
			24	21.00	20.64	20.34	20.83
		12	0	20.00	19.50	19.50	19.44
			6	20.00	19.63	19.57	19.51
			13	20.00	19.58	19.47	19.47
		25	0	20.00	19.52	19.52	19.46
						668.0MHz	680.5MHz
10MHz	QPSK	1	0	22.00	21.66	21.57	21.39
			25	22.00	21.86	21.66	21.58
			49	22.00	21.67	21.58	21.52
		25	0	21.00	20.66	20.56	20.49
			13	21.00	20.72	20.55	20.56
			25	21.00	20.72	20.48	20.49
	50	0	21.00	20.66	20.48	20.47	
	16QAM	1	0	21.00	20.95	20.41	20.38
			25	21.50	21.13	20.56	20.58
			49	21.00	20.97	20.41	20.51
		25	0	20.00	19.59	19.55	19.47
			13	20.00	19.69	19.56	19.56
			25	20.00	19.70	19.47	19.48
		50	0	20.00	19.63	19.46	19.45

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz
15MHz	QPSK	1	0	22.00	21.51	21.47	21.30
			38	22.00	21.65	21.56	21.44
			74	21.50	21.42	21.34	21.37
		36	0	21.00	20.54	20.45	20.44
			18	21.00	20.66	20.49	20.48
			39	21.00	20.64	20.40	20.49
	75	0	21.00	20.66	20.46	20.49	
	16QAM	1	0	20.50	20.37	20.33	20.26
			38	21.00	20.61	20.42	20.43
			74	20.50	20.36	20.24	20.37
		36	0	20.00	19.54	19.45	19.37
			18	20.00	19.64	19.50	19.44
			39	20.00	19.65	19.41	19.46
	75	0	20.00	19.61	19.40	19.43	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	21.50	21.28	21.25	21.17
			50	22.00	21.71	21.52	21.53
			99	21.50	21.24	21.18	21.27
		50	0	21.00	20.54	20.40	20.53
			25	21.00	20.57	20.47	20.43
			50	21.00	20.58	20.44	20.51
	100	0	21.00	20.53	20.42	20.48	
	16QAM	1	0	21.00	20.63	20.25	19.99
			50	21.50	21.05	20.51	20.38
			99	21.00	20.62	20.19	20.08
		50	0	19.50	19.46	19.39	19.47
			25	20.00	19.54	19.44	19.42
			50	20.00	19.53	19.42	19.43
	100	0	19.50	19.49	19.39	19.45	

8.4 Wi-Fi

2.4G

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	16.12	16.50	No
		6	2437	16.38	16.50	Yes
		11	2462	16.31	16.50	No
	802.11g	1	2412	14.37	14.50	No
		6	2437	14.67	15.00	No
		11	2462	14.81	15.00	No
	802.11n(HT20)	1	2412	14.71	15.00	No
		6	2437	14.65	15.00	No
		11	2462	14.89	15.00	No
	802.11n(HT40)	3	2422	14.98	15.00	No
		6	2437	14.86	15.00	No
		9	2452	14.70	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 $\leq 1.2W/kg$.

5G

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.	
U-NII-1 (5.150~5.250)	802.11a	36	5180	10.31	10.50	No	
		40	5200	10.13	10.50	No	
		48	5240	9.70	10.00	No	
	802.11n(HT20)	36	5180	10.37	10.50	No	
		40	5200	10.03	10.50	No	
		48	5240	9.75	10.00	No	
	802.11ac(VHT20)	36	5180	10.47	10.50	No	
		40	5200	10.05	10.50	No	
		48	5240	9.78	10.00	No	
	802.11n(HT40)	38	5190	10.88	11.00	Yes	
		46	5230	10.32	10.50	No	
	802.11ac(VHT40)	38	5190	10.88	11.00	No	
		46	5230	10.36	10.50	No	
	Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
	U-NII-3 (5.725~5.850)	802.11a	149	5745	11.39	11.50	No
157			5785	11.47	11.50	No	
165			5825	12.14	12.50	No	
802.11n(HT20)		149	5745	11.43	11.50	No	
		157	5785	11.69	12.00	No	
		165	5825	12.13	12.50	No	
802.11ac(VHT20)		149	5745	11.37	11.50	No	
		157	5785	11.44	11.50	No	
		165	5825	12.09	12.50	No	
802.11n(HT40)		151	5755	12.17	12.50	No	
		159	5795	12.33	12.50	No	
802.11ac(VHT40)		151	5755	12.27	12.50	No	
		159	5795	12.56	13.00	Yes	

8.5 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
GFSK	6.50	6.23	6.34	5.50	
$\pi/4$ QPSK	5.50	5.44	5.44	4.82	
8DPSK	6.00	5.61	5.62	5.01	

BLE	Mode	Maximum Tune-up(dBm)	Average Conducted Output Power (dBm)		
			0	20	39
			2402MHz	2440MHz	2480MHz
1Mbps	6.00	5.81	5.86	5.36	

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
39	2.441	6.50	4.47	0	2.72	Yes
39	2.441	6.50	4.47	10	10.17	No

Note

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

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

where

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

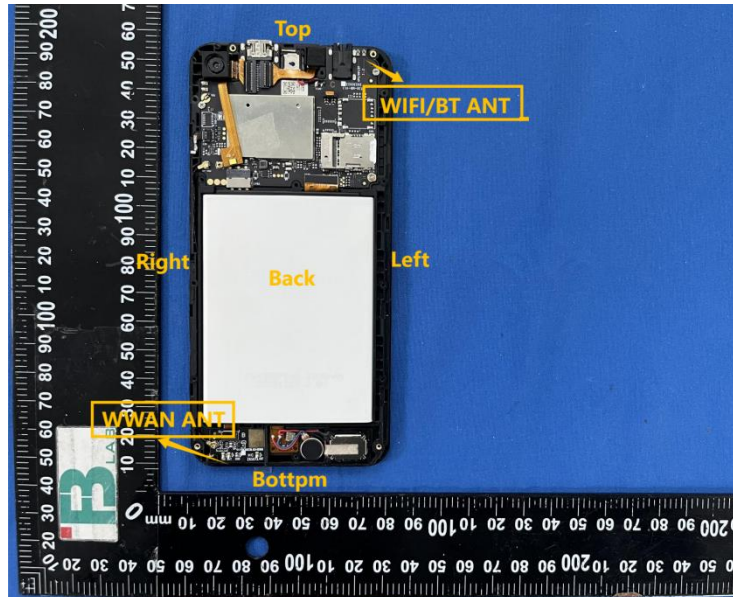
$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

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

9. Test Exclusion Consideration

Antenna information:



WWAN Main Antenna	GSM/WCDMA/LTE TX/RX
WLAN/BT Antenna	WLAN/BT TX/RX
Note: 1. KDB 447498 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	55	<25	142	<25
BT/Wifi	<25	<25	<25	58	<25	144
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	39	2.441	6.50	4.47	Estimated SAR(W/kg)	/	0.093

10. Test Result

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 850 (voice)	Left Cheek	251	848.8	3.060	0.062	100.00	1.000	30.54	31.00	1.112	0.069	/
	Left Tilt	251	848.8	3.630	0.039	100.00	1.000	30.54	31.00	1.112	0.043	/
	Right Cheek	251	848.8	-2.380	0.065	100.00	1.000	30.54	31.00	1.112	0.072	1#
	Right Tilt	251	848.8	-2.190	0.041	100.00	1.000	30.54	31.00	1.112	0.046	/
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	251	848.8	3.280	0.056	100.00	1.000	30.54	31.00	1.112	0.062	/
	Back	251	848.8	-3.970	0.061	100.00	1.000	30.54	31.00	1.112	0.068	/
	Right	251	848.8	-1.800	0.042	100.00	1.000	30.54	31.00	1.112	0.047	/
	Bottom	251	848.8	2.570	0.048	100.00	1.000	30.54	31.00	1.112	0.053	/
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+4slots	Front	251	848.8	3.660	0.112	100.00	1.000	26.60	27.00	1.096	0.123	/
	Back	251	848.8	-2.790	0.128	100.00	1.000	26.60	27.00	1.096	0.140	2#
	Right	251	848.8	-1.930	0.085	100.00	1.000	26.60	27.00	1.096	0.093	/
	Bottom	251	848.8	2.210	0.094	100.00	1.000	26.60	27.00	1.096	0.103	/
Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
GSM 1900 (voice)	Left Cheek	512	1850.2	-0.910	0.037	100.00	1.000	29.20	29.50	1.072	0.040	/
	Left Tilt	512	1850.2	0.710	0.020	100.00	1.000	29.20	29.50	1.072	0.021	/
	Right Cheek	512	1850.2	0.810	0.040	100.00	1.000	29.20	29.50	1.072	0.043	3#
	Right Tilt	512	1850.2	2.230	0.023	100.00	1.000	29.20	29.50	1.072	0.025	/
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	512	1850.2	1.060	0.010	100.00	1.000	29.20	29.50	1.072	0.011	/
	Back	512	1850.2	1.230	0.013	100.00	1.000	29.20	29.50	1.072	0.014	/
	Right	512	1850.2	4.580	0.009	100.00	1.000	29.20	29.50	1.072	0.010	/
	Bottom	512	1850.2	-1.040	0.016	100.00	1.000	29.20	29.50	1.072	0.017	/
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	661	1880.0	0.660	0.066	100.00	1.000	25.62	26.00	1.091	0.072	/
	Back	661	1880.0	-1.090	0.074	100.00	1.000	25.62	26.00	1.091	0.081	/
	Right	661	1880.0	4.070	0.060	100.00	1.000	25.62	26.00	1.091	0.065	/
	Bottom	661	1880.0	-3.370	0.080	100.00	1.000	25.62	26.00	1.091	0.087	4#
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	9262	1852.4	-1.090	0.043	100.00	1.000	20.69	21.00	1.074	0.046	/
	Left Tilt	9262	1852.4	0.990	0.017	100.00	1.000	20.69	21.00	1.074	0.018	/
	Right Cheek	9262	1852.4	-2.900	0.048	100.00	1.000	20.69	21.00	1.074	0.052	5#
	Right Tilt	9262	1852.4	-3.360	0.019	100.00	1.000	20.69	21.00	1.074	0.020	/
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	9262	1852.4	1.870	0.069	100.00	1.000	20.69	21.00	1.074	0.074	/
	Back	9262	1852.4	-2.730	0.101	100.00	1.000	20.69	21.00	1.074	0.108	/
	Right	9262	1852.4	2.940	0.057	100.00	1.000	20.69	21.00	1.074	0.061	/
	Bottom	9262	1852.4	-3.850	0.125	100.00	1.000	20.69	21.00	1.074	0.134	6#

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Left Cheek	1513	1752.6	1.170	0.253	100.00	1.000	21.09	21.50	1.099	0.278	/
	Left Tilt	1513	1752.6	0.890	0.157	100.00	1.000	21.09	21.50	1.099	0.173	/
	Right Cheek	1513	1752.6	3.740	0.256	100.00	1.000	21.09	21.50	1.099	0.281	7#
	Right Tilt	1513	1752.6	-1.500	0.161	100.00	1.000	21.09	21.50	1.099	0.177	/

Body(hotspot open, 10mm Gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas. SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
WCDMA Band 4 (RMC*)	Front	1513	1752.6	-3.390	0.204	100.00	1.000	21.09	21.50	1.099	0.224	/
	Back	1513	1752.6	1.660	0.223	100.00	1.000	21.09	21.50	1.099	0.245	/
	Right	1513	1752.6	0.770	0.184	100.00	1.000	21.09	21.50	1.099	0.202	/
	Bottom	1513	1752.6	1.330	0.250	100.00	1.000	21.09	21.50	1.099	0.275	8#

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	4132	826.4	1.150	0.026	100.00	1.000	21.58	22.00	1.102	0.029	/
	Left Tilt	4132	826.4	0.970	0.015	100.00	1.000	21.58	22.00	1.102	0.017	/
	Right Cheek	4132	826.4	2.830	0.028	100.00	1.000	21.58	22.00	1.102	0.031	9#
	Right Tilt	4132	826.4	1.240	0.018	100.00	1.000	21.58	22.00	1.102	0.020	/

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	4132	826.4	2.870	0.039	100.00	1.000	21.58	22.00	1.102	0.043	/
	Back	4132	826.4	-2.250	0.045	100.00	1.000	21.58	22.00	1.102	0.050	10#
	Right	4132	826.4	-3.680	0.026	100.00	1.000	21.58	22.00	1.102	0.029	/
	Bottom	4132	826.4	-3.380	0.030	100.00	1.000	21.58	22.00	1.102	0.033	/

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	18700	1860.0	-1.540	0.061	100.00	1.000	21.31	21.50	1.045	0.064	/
		Left Tilt	18700	1860.0	1.510	0.033	100.00	1.000	21.31	21.50	1.045	0.034	/
		Right Cheek	18700	1860.0	1.780	0.064	100.00	1.000	21.31	21.50	1.045	0.067	11#
		Right Tilt	18700	1860.0	0.320	0.036	100.00	1.000	21.31	21.50	1.045	0.038	/
	50%RB	Left Cheek	18700	1860.0	2.790	0.056	100.00	1.000	20.30	20.50	1.047	0.059	/
		Left Tilt	18700	1860.0	-0.650	0.029	100.00	1.000	20.30	20.50	1.047	0.030	/
		Right Cheek	18700	1860.0	2.310	0.059	100.00	1.000	20.30	20.50	1.047	0.062	/
		Right Tilt	18700	1860.0	1.910	0.031	100.00	1.000	20.30	20.50	1.047	0.032	/

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	18700	1860.0	-2.720	0.065	100.00	1.000	21.31	21.50	1.045	0.068	/
		Back	18700	1860.0	1.210	0.071	100.00	1.000	21.31	21.50	1.045	0.074	/
		Right	18700	1860.0	2.880	0.059	100.00	1.000	21.31	21.50	1.045	0.062	/
		Bottom	18700	1860.0	-2.460	0.078	100.00	1.000	21.31	21.50	1.045	0.082	12#
	50%RB	Front	18700	1860.0	-1.410	0.060	100.00	1.000	20.30	20.50	1.047	0.063	/
		Back	18700	1860.0	-0.550	0.067	100.00	1.000	20.30	20.50	1.047	0.070	/
		Right	18700	1860.0	-0.830	0.052	100.00	1.000	20.30	20.50	1.047	0.054	/
		Bottom	18700	1860.0	2.240	0.072	100.00	1.000	20.30	20.50	1.047	0.075	/

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	-3.540	0.358	100.00	1.000	21.78	22.00	1.052	0.377	/
		Left Tilt	20300	1745.0	1.830	0.173	100.00	1.000	21.78	22.00	1.052	0.182	/
		Right Cheek	20300	1745.0	3.370	0.372	100.00	1.000	21.78	22.00	1.052	0.391	13#
		Right Tilt	20300	1745.0	-3.150	0.176	100.00	1.000	21.78	22.00	1.052	0.185	/

	50%RB	Left Cheek	20300	1745.0	-1.860	0.347	100.00	1.000	20.66	21.00	1.081	0.375	/
		Left Tilt	20300	1745.0	-1.750	0.161	100.00	1.000	20.66	21.00	1.081	0.174	/
		Right Cheek	20300	1745.0	-1.340	0.352	100.00	1.000	20.66	21.00	1.081	0.381	/
		Right Tilt	20300	1745.0	2.090	0.165	100.00	1.000	20.66	21.00	1.081	0.178	/
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	-0.990	0.214	100.00	1.000	21.78	22.00	1.052	0.225	/
		Back	20300	1745.0	-2.550	0.235	100.00	1.000	21.78	22.00	1.052	0.247	/
		Right	20300	1745.0	-2.320	0.192	100.00	1.000	21.78	22.00	1.052	0.202	/
		Bottom	20300	1745.0	0.220	0.261	100.00	1.000	21.78	22.00	1.052	0.275	14#
	50%RB	Front	20300	1745.0	-1.410	0.207	100.00	1.000	20.66	21.00	1.081	0.224	/
		Back	20300	1745.0	-0.550	0.227	100.00	1.000	20.66	21.00	1.081	0.245	/
		Right	20300	1745.0	-0.830	0.184	100.00	1.000	20.66	21.00	1.081	0.199	/
		Bottom	20300	1745.0	-4.610	0.252	100.00	1.000	20.66	21.00	1.081	0.272	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Left Cheek	20450	829.0	-1.540	0.040	100.00	1.000	22.37	22.50	1.030	0.041	/
		Left Tilt	20450	829.0	1.510	0.021	100.00	1.000	22.37	22.50	1.030	0.022	/
		Right Cheek	20450	829.0	1.590	0.043	100.00	1.000	22.37	22.50	1.030	0.044	15#
		Right Tilt	20450	829.0	-0.970	0.023	100.00	1.000	22.37	22.50	1.030	0.024	/
	50%RB	Left Cheek	20450	829.0	2.790	0.036	100.00	1.000	21.16	21.50	1.081	0.039	/
		Left Tilt	20450	829.0	-0.670	0.016	100.00	1.000	21.16	21.50	1.081	0.017	/
		Right Cheek	20450	829.0	0.730	0.040	100.00	1.000	21.16	21.50	1.081	0.043	/
		Right Tilt	20450	829.0	1.940	0.018	100.00	1.000	21.16	21.50	1.081	0.019	/
Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20450	829.0	-0.420	0.038	100.00	1.000	22.37	22.50	1.030	0.039	/
		Back	20450	829.0	-1.660	0.041	100.00	1.000	22.37	22.50	1.030	0.042	16#
		Right	20450	829.0	1.230	0.028	100.00	1.000	22.37	22.50	1.030	0.029	/
		Bottom	20450	829.0	-1.550	0.032	100.00	1.000	22.37	22.50	1.030	0.033	/
	50%RB	Front	20450	829.0	1.950	0.034	100.00	1.000	21.16	21.50	1.081	0.037	/
		Back	20450	829.0	-1.780	0.037	100.00	1.000	21.16	21.50	1.081	0.040	/
		Right	20450	829.0	0.320	0.023	100.00	1.000	21.16	21.50	1.081	0.025	/
		Bottom	20450	829.0	1.460	0.028	100.00	1.000	21.16	21.50	1.081	0.030	/

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	1.620	0.090	100.00	1.000	21.80	22.00	1.047	0.094	/
		Left Tilt	23095	707.5	2.960	0.047	100.00	1.000	21.80	22.00	1.047	0.049	/
		Right Cheek	23095	707.5	-1.560	0.093	100.00	1.000	21.80	22.00	1.047	0.097	17#
		Right Tilt	23095	707.5	-2.070	0.050	100.00	1.000	21.80	22.00	1.047	0.052	/
	50%RB	Left Cheek	23095	707.5	-0.440	0.086	100.00	1.000	20.84	21.00	1.038	0.089	/
		Left Tilt	23095	707.5	-1.700	0.040	100.00	1.000	20.84	21.00	1.038	0.042	/
		Right Cheek	23095	707.5	-1.340	0.088	100.00	1.000	20.84	21.00	1.038	0.091	/
		Right Tilt	23095	707.5	2.090	0.042	100.00	1.000	20.84	21.00	1.038	0.044	/
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	2.740	0.091	100.00	1.000	21.80	22.00	1.047	0.095	/
		Back	23095	707.5	-4.870	0.094	100.00	1.000	21.80	22.00	1.047	0.098	18#
		Right	23095	707.5	-3.920	0.077	100.00	1.000	21.80	22.00	1.047	0.081	/
		Bottom	23095	707.5	-2.650	0.086	100.00	1.000	21.80	22.00	1.047	0.090	/
	50%RB	Front	23095	707.5	-1.280	0.086	100.00	1.000	20.84	21.00	1.038	0.089	/
		Back	23095	707.5	-2.810	0.089	100.00	1.000	20.84	21.00	1.038	0.092	/

	Right	23095	707.5	-1.720	0.074	100.00	1.000	20.84	21.00	1.038	0.077	/
	Bottom	23095	707.5	1.610	0.082	100.00	1.000	20.84	21.00	1.038	0.085	/

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	3.860	0.057	100.00	1.000	22.49	22.50	1.002	0.057	/
		Left Tilt	23230	782.0	4.700	0.029	100.00	1.000	22.49	22.50	1.002	0.029	/
		Right Cheek	23230	782.0	4.650	0.061	100.00	1.000	22.49	22.50	1.002	0.061	19#
		Right Tilt	23230	782.0	-3.230	0.033	100.00	1.000	22.49	22.50	1.002	0.033	/
	50%RB	Left Cheek	23230	782.0	0.120	0.050	100.00	1.000	21.46	21.50	1.009	0.050	/
		Left Tilt	23230	782.0	-3.920	0.023	100.00	1.000	21.46	21.50	1.009	0.023	/
		Right Cheek	23230	782.0	-2.100	0.054	100.00	1.000	21.46	21.50	1.009	0.054	/
		Right Tilt	23230	782.0	1.130	0.027	100.00	1.000	21.46	21.50	1.009	0.027	/

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	4.080	0.043	100.00	1.000	22.49	22.50	1.002	0.043	/
		Back	23230	782.0	1.370	0.048	100.00	1.000	22.49	22.50	1.002	0.048	20#
		Right	23230	782.0	-0.640	0.030	100.00	1.000	22.49	22.50	1.002	0.030	/
		Bottom	23230	782.0	-1.810	0.038	100.00	1.000	22.49	22.50	1.002	0.038	/
	50%RB	Front	23230	782.0	-2.960	0.036	100.00	1.000	21.46	21.50	1.009	0.036	/
		Back	23230	782.0	-1.030	0.041	100.00	1.000	21.46	21.50	1.009	0.041	/
		Right	23230	782.0	-2.480	0.023	100.00	1.000	21.46	21.50	1.009	0.023	/
		Bottom	23230	782.0	0.650	0.034	100.00	1.000	21.46	21.50	1.009	0.034	/

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	23800	711.0	-1.200	0.087	100.00	1.000	21.97	22.00	1.007	0.088	/
		Left Tilt	23800	711.0	2.440	0.047	100.00	1.000	21.97	22.00	1.007	0.047	/
		Right Cheek	23800	711.0	-1.130	0.090	100.00	1.000	21.97	22.00	1.007	0.091	21#
		Right Tilt	23800	711.0	-2.390	0.050	100.00	1.000	21.97	22.00	1.007	0.050	/
	50%RB	Left Cheek	23800	711.0	-3.800	0.078	100.00	1.000	21.49	21.50	1.002	0.078	/
		Left Tilt	23800	711.0	-2.140	0.037	100.00	1.000	21.49	21.50	1.002	0.037	/
		Right Cheek	23800	711.0	-2.860	0.082	100.00	1.000	21.49	21.50	1.002	0.082	/
		Right Tilt	23800	711.0	0.170	0.041	100.00	1.000	21.49	21.50	1.002	0.041	/

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	23800	711.0	-0.080	0.058	100.00	1.000	21.97	22.00	1.007	0.058	/
		Back	23800	711.0	-0.710	0.062	100.00	1.000	21.97	22.00	1.007	0.062	22#
		Right	23800	711.0	-1.360	0.043	100.00	1.000	21.97	22.00	1.007	0.043	/
		Bottom	23800	711.0	2.970	0.051	100.00	1.000	21.97	22.00	1.007	0.051	/
	50%RB	Front	23800	711.0	-1.640	0.053	100.00	1.000	21.49	21.50	1.002	0.053	/
		Back	23800	711.0	-3.250	0.059	100.00	1.000	21.49	21.50	1.002	0.059	/
		Right	23800	711.0	-3.240	0.038	100.00	1.000	21.49	21.50	1.002	0.038	/
		Bottom	23800	711.0	-0.310	0.046	100.00	1.000	21.49	21.50	1.002	0.046	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Left Cheek	26140	1860.0	1.040	0.063	100.00	1.000	21.33	21.50	1.040	0.066	/
		Left Tilt	26140	1860.0	-1.180	0.038	100.00	1.000	21.33	21.50	1.040	0.040	/
		Right Cheek	26140	1860.0	0.700	0.068	100.00	1.000	21.33	21.50	1.040	0.071	23#
		Right Tilt	26140	1860.0	2.390	0.041	100.00	1.000	21.33	21.50	1.040	0.043	/
	50%RB	Left Cheek	26140	1860.0	-2.480	0.056	100.00	1.000	20.30	20.50	1.047	0.059	/
		Left Tilt	26140	1860.0	0.360	0.031	100.00	1.000	20.30	20.50	1.047	0.032	/
		Right Cheek	26140	1860.0	-3.620	0.059	100.00	1.000	20.30	20.50	1.047	0.062	/
		Right Tilt	26140	1860.0	-0.790	0.034	100.00	1.000	20.30	20.50	1.047	0.036	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 25 (BW: 20MHz)	1RB	Front	26140	1860.0	2.160	0.101	100.00	1.000	21.33	21.50	1.040	0.105	/
		Back	26140	1860.0	-0.310	0.112	100.00	1.000	21.33	21.50	1.040	0.116	/
		Right	26140	1860.0	-2.080	0.094	100.00	1.000	21.33	21.50	1.040	0.098	/
		Bottom	26140	1860.0	-1.210	0.121	100.00	1.000	21.33	21.50	1.040	0.126	24#
	50%RB	Front	26140	1860.0	-3.320	0.096	100.00	1.000	20.30	20.50	1.047	0.101	/
		Back	26140	1860.0	-0.750	0.103	100.00	1.000	20.30	20.50	1.047	0.108	/
		Right	26140	1860.0	-4.000	0.086	100.00	1.000	20.30	20.50	1.047	0.090	/
		Bottom	26140	1860.0	-1.270	0.114	100.00	1.000	20.30	20.50	1.047	0.119	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 (BW:15MHz)	1RB	Left Cheek	26765	821.5	3.280	0.048	100.00	1.000	22.81	23.00	1.045	0.050	/
		Left Tilt	26765	821.5	0.560	0.027	100.00	1.000	22.81	23.00	1.045	0.028	/
		Right Cheek	26765	821.5	-2.380	0.050	100.00	1.000	22.81	23.00	1.045	0.052	25#
		Right Tilt	26765	821.5	1.230	0.030	100.00	1.000	22.81	23.00	1.045	0.031	/
	50%RB	Left Cheek	26765	821.5	0.160	0.040	100.00	1.000	21.83	22.00	1.040	0.042	/
		Left Tilt	26765	821.5	-1.860	0.022	100.00	1.000	21.83	22.00	1.040	0.023	/
		Right Cheek	26765	821.5	2.380	0.043	100.00	1.000	21.83	22.00	1.040	0.045	/
		Right Tilt	26765	821.5	-1.750	0.024	100.00	1.000	21.83	22.00	1.040	0.025	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 26 (BW: 15MHz)	1RB	Front	26765	821.5	4.400	0.027	100.00	1.000	22.81	23.00	1.045	0.028	/
		Back	26765	821.5	-1.700	0.030	100.00	1.000	22.81	23.00	1.045	0.031	26#
		Right	26765	821.5	-2.800	0.018	100.00	1.000	22.81	23.00	1.045	0.019	/
		Bottom	26765	821.5	0.650	0.023	100.00	1.000	22.81	23.00	1.045	0.024	/
	50%RB	Front	26765	821.5	-0.680	0.020	100.00	1.000	21.83	22.00	1.040	0.021	/
		Back	26765	821.5	-2.970	0.024	100.00	1.000	21.83	22.00	1.040	0.025	/
		Right	26765	821.5	2.000	0.016	100.00	1.000	21.83	22.00	1.040	0.017	/
		Bottom	26765	821.5	-2.230	0.019	100.00	1.000	21.83	22.00	1.040	0.020	/

Head(0mm gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Left Cheek	39750	2506.0	0.520	0.147	100.00	1.000	23.30	23.50	1.047	0.154	/
		Left Tilt	39750	2506.0	2.300	0.076	100.00	1.000	23.30	23.50	1.047	0.080	/
		Right Cheek	39750	2506.0	-2.940	0.153	100.00	1.000	23.30	23.50	1.047	0.160	27#
		Right Tilt	39750	2506.0	0.070	0.081	100.00	1.000	23.30	23.50	1.047	0.085	/
	50%RB	Left Cheek	39750	2506.0	-1.520	0.139	100.00	1.000	21.96	22.00	1.009	0.140	/
		Left Tilt	39750	2506.0	-2.080	0.067	100.00	1.000	21.96	22.00	1.009	0.068	/
		Right Cheek	39750	2506.0	1.620	0.142	100.00	1.000	21.96	22.00	1.009	0.143	/
		Right Tilt	39750	2506.0	-2.710	0.070	100.00	1.000	21.96	22.00	1.009	0.071	/

Body(hotspot open, 10mm Gap)													
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 41 (BW: 20MHz)	1RB	Front	39750	2506.0	1.640	0.621	100.00	1.000	23.30	23.50	1.047	0.650	/
		Back	39750	2506.0	3.170	0.664	100.00	1.000	23.30	23.50	1.047	0.695	/
		Right	39750	2506.0	-3.520	0.586	100.00	1.000	23.30	23.50	1.047	0.614	/
		Bottom	39750	2506.0	1.410	0.719	100.00	1.000	23.30	23.50	1.047	0.753	28#
	50%RB	Front	39750	2506.0	-2.360	0.602	100.00	1.000	21.96	22.00	1.009	0.607	/
		Back	39750	2506.0	-3.190	0.623	100.00	1.000	21.96	22.00	1.009	0.629	/
		Right	39750	2506.0	1.240	0.534	100.00	1.000	21.96	22.00	1.009	0.539	/
		Bottom	39750	2506.0	-3.190	0.699	100.00	1.000	21.96	22.00	1.009	0.705	/

Head(0mm gap)													
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Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Left Cheek	132572	1770.0	2.760	0.263	100.00	1.000	22.06	22.50	1.107	0.291	/
		Left Tilt	132572	1770.0	-1.040	0.130	100.00	1.000	22.06	22.50	1.107	0.144	/
		Right Cheek	132572	1770.0	1.540	0.266	100.00	1.000	22.06	22.50	1.107	0.294	29#
		Right Tilt	132572	1770.0	-1.090	0.133	100.00	1.000	22.06	22.50	1.107	0.147	/
	50%RB	Left Cheek	132572	1770.0	-3.200	0.245	100.00	1.000	21.01	21.50	1.119	0.274	/
		Left Tilt	132572	1770.0	-0.300	0.111	100.00	1.000	21.01	21.50	1.119	0.124	/
		Right Cheek	132572	1770.0	0.860	0.248	100.00	1.000	21.01	21.50	1.119	0.278	/
		Right Tilt	132572	1770.0	-3.670	0.115	100.00	1.000	21.01	21.50	1.119	0.129	/

Body(hotspot open, 10mm Gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 66 (BW: 20MHz)	1RB	Front	132572	1770.0	3.880	0.240	100.00	1.000	22.06	22.50	1.107	0.266	/
		Back	132572	1770.0	-0.170	0.261	100.00	1.000	22.06	22.50	1.107	0.289	/
		Right	132572	1770.0	1.240	0.211	100.00	1.000	22.06	22.50	1.107	0.234	/
		Bottom	132572	1770.0	-4.080	0.286	100.00	1.000	22.06	22.50	1.107	0.317	30#
	50%RB	Front	132572	1770.0	-1.040	0.233	100.00	1.000	21.01	21.50	1.119	0.261	/
		Back	132572	1770.0	3.410	0.253	100.00	1.000	21.01	21.50	1.119	0.283	/
		Right	132572	1770.0	0.480	0.202	100.00	1.000	21.01	21.50	1.119	0.226	/
		Bottom	132572	1770.0	-4.150	0.274	100.00	1.000	21.01	21.50	1.119	0.307	/

Head(0mm gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Left Cheek	133222	673.0	2.240	0.121	100.00	1.000	21.71	22.00	1.069	0.129	/
		Left Tilt	133222	673.0	1.740	0.068	100.00	1.000	21.71	22.00	1.069	0.073	/
		Right Cheek	133222	673.0	2.050	0.125	100.00	1.000	21.71	22.00	1.069	0.134	31#
		Right Tilt	133222	673.0	-1.160	0.072	100.00	1.000	21.71	22.00	1.069	0.077	/
	50%RB	Left Cheek	133222	673.0	-1.680	0.107	100.00	1.000	20.58	21.00	1.102	0.118	/
		Left Tilt	133222	673.0	-2.220	0.057	100.00	1.000	20.58	21.00	1.102	0.063	/
		Right Cheek	133222	673.0	-0.760	0.111	100.00	1.000	20.58	21.00	1.102	0.122	/
		Right Tilt	133222	673.0	-0.960	0.061	100.00	1.000	20.58	21.00	1.102	0.067	/

Body(hotspot open, 10mm Gap)

Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Front	133222	673.0	3.360	0.116	100.00	1.000	21.71	22.00	1.069	0.124	/
		Back	133222	673.0	2.910	0.121	100.00	1.000	21.71	22.00	1.069	0.129	32#
		Right	133222	673.0	-1.080	0.092	100.00	1.000	21.71	22.00	1.069	0.098	/
		Bottom	133222	673.0	-1.740	0.107	100.00	1.000	21.71	22.00	1.069	0.114	/
	50%RB	Front	133222	673.0	-2.520	0.108	100.00	1.000	20.58	21.00	1.102	0.119	/
		Back	133222	673.0	-3.330	0.115	100.00	1.000	20.58	21.00	1.102	0.127	/
		Right	133222	673.0	-1.140	0.085	100.00	1.000	20.58	21.00	1.102	0.094	/
		Bottom	133222	673.0	-1.440	0.102	100.00	1.000	20.58	21.00	1.102	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.
2.4g (2.4-2.4835) 802.11b	Left Cheek	6	2437.0	1.550	0.423	100.00	1.000	16.38	16.50	1.028	0.435	/
	Left Tilt	6	2437.0	0.390	0.225	100.00	1.000	16.38	16.50	1.028	0.231	/
	Right Cheek	6	2437.0	3.550	0.430	100.00	1.000	16.38	16.50	1.028	0.442	33#
	Right Tilt	6	2437.0	1.530	0.231	100.00	1.000	16.38	16.50	1.028	0.237	/

Body(hotspot open, 10mm Gap)

Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
2.4g (2.4-2.4835) 802.11b	Front	6	2437.0	3.920	0.106	100.00	1.000	16.38	16.50	1.028	0.109	/
	Back	6	2437.0	-1.310	0.190	100.00	1.000	16.38	16.50	1.028	0.195	34#
	Left	6	2437.0	-3.770	0.099	100.00	1.000	16.38	16.50	1.028	0.102	/
	Top	6	2437.0	0.520	0.079	100.00	1.000	16.38	16.50	1.028	0.081	/

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.
U-NII-1 (5.150-5.250) 802.11n(HT40)	Left Cheek	38	5190.0	-1.350	0.320	100.00	1.000	10.88	11.00	1.028	0.329	/
	Left Tilt	38	5190.0	0.300	0.160	100.00	1.000	10.88	11.00	1.028	0.164	/
	Right Cheek	38	5190.0	-2.020	0.331	100.00	1.000	10.88	11.00	1.028	0.340	35#
	Right Tilt	38	5190.0	1.400	0.164	100.00	1.000	10.88	11.00	1.028	0.169	/
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.
U-NII-1 (5.150-5.250) 802.11n(HT40)	Front	38	5190.0	0.430	0.277	100.00	1.000	10.88	11.00	1.028	0.285	/
	Back	38	5190.0	1.470	0.292	100.00	1.000	10.88	11.00	1.028	0.300	36#
	Left	38	5190.0	-1.380	0.202	100.00	1.000	10.88	11.00	1.028	0.208	/
	Top	38	5190.0	2.560	0.234	100.00	1.000	10.88	11.00	1.028	0.241	/

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.
U-NII-3 (5.725-5.850) 802.11ac(VHT40)	Left Cheek	159	5795.0	-1.350	0.642	100.00	1.000	12.56	13.00	1.107	0.711	/
	Left Tilt	159	5795.0	0.300	0.361	100.00	1.000	12.56	13.00	1.107	0.400	/
	Right Cheek	159	5795.0	-1.910	0.684	100.00	1.000	12.56	13.00	1.107	0.757	37#
	Right Tilt	159	5795.0	1.400	0.385	100.00	1.000	12.56	13.00	1.107	0.426	/
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.
U-NII-3 (5.725-5.850) 802.11ac(VHT40)	Front	159	5795.0	0.630	0.233	100.00	1.000	12.56	13.00	1.107	0.258	/
	Back	159	5795.0	-1.590	0.271	100.00	1.000	12.56	13.00	1.107	0.300	38#
	Left	159	5795.0	-1.380	0.191	100.00	1.000	12.56	13.00	1.107	0.211	/
	Top	159	5795.0	2.560	0.207	100.00	1.000	12.56	13.00	1.107	0.229	/

Head(0mm gap)												
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Duty cycle (%)	Duty cycle Factor	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Bluetooth	Left Cheek	39	2441.0	3.025	0.078	100.00	1.000	6.34	6.50	1.038	0.081	/
	Left Tilt	39	2441.0	1.010	0.049	100.00	1.000	6.34	6.50	1.038	0.051	/
	Right Cheek	39	2441.0	-1.430	0.083	100.00	1.000	6.34	6.50	1.038	0.086	39#
	Right Tilt	39	2441.0	-1.360	0.052	100.00	1.000	6.34	6.50	1.038	0.054	/

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 channel Reported SAR $\leq 0.8W/kg$, 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 = $10^{(tune-up\ limit\ power(dBm) - Ave.power\ power(dBm))/10}$, 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 $0.719 < 0.80$ 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+WIFI(5g)	Yes	Yes
3	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 + WIFI 5G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	WIFI 5G	Bluetooth					
LTE Band 4 QPSK (20MHz)	Left Cheek	1RB	0.377	0.435	0.711	0.081	0.812	1.088	0.458	N/A	N/A
	Left Tilt		0.182	0.231	0.400	0.051	0.413	0.582	0.233	N/A	N/A
	Right Cheek		0.391	0.442	0.757	0.086	0.833	1.148	0.477	N/A	N/A
	Right Tilt		0.185	0.237	0.426	0.054	0.422	0.611	0.239	N/A	N/A
	Left Cheek	50%RB	0.375	0.435	0.711	0.081	0.810	1.086	0.456	N/A	N/A
	Left Tilt		0.174	0.231	0.400	0.051	0.405	0.574	0.225	N/A	N/A
	Right Cheek		0.381	0.442	0.757	0.086	0.823	1.138	0.467	N/A	N/A
	Right Tilt		0.178	0.237	0.426	0.054	0.415	0.604	0.232	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 + WIFI 5G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	WIFI 5G	Bluetooth					
LTE Band 41 QPSK (20MHz)	Front	1RB	0.650	0.109	0.285	0.093	0.759	0.935	0.743	N/A	N/A
	Back		0.695	0.195	0.300	0.093	0.890	0.995	0.788	N/A	N/A
	Left		/	0.102	0.208	0.093	0.102	0.208	0.093	N/A	N/A
	Right		0.614	/	/	/	0.614	0.614	0.614	N/A	N/A
	Top		/	0.081	0.241	0.093	0.081	0.241	0.093	N/A	N/A
	Bottom		0.753	/	/	/	0.753	0.753	0.753	N/A	N/A
	Front	50%RB	0.607	0.109	0.285	0.093	0.716	0.892	0.700	N/A	N/A
	Back		0.629	0.195	0.300	0.093	0.824	0.929	0.722	N/A	N/A
	Left		/	0.102	0.208	0.093	0.102	0.208	0.093	N/A	N/A
	Right		0.539	/	/	/	0.539	0.539	0.539	N/A	N/A
	Top		/	0.081	0.241	0.093	0.081	0.241	0.093	N/A	N/A
	Bottom		0.705	/	/	/	0.705	0.705	0.705	N/A	N/A

13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	04/22 EPG0365	2023/02/06	2024/02/05
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2023/11/16	2024/11/15
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2023/11/16	2024/11/15
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2023/11/16	2024/11/15
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2023/03/24	2024/03/23
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2023/03/24	2024/03/23
10dB Attenuator	MIDWEST MICROWAVE	263-10dB	/	2023/03/24	2024/03/23
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	2023/03/24	2024/03/23
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2023/02/06	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
2600MHz Validation Dipole	MVG	SID2600	07/22 DIP 2G600-663	2023/02/06	2025/02/05
5200MHz-5800MHz Validation Dipole	MVG	SID5000	07/22 DIP5G000-670	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 in within 20% of calibrated measurement.
4. Impedance (real or imaginary parts) in within 5 Ohms of calibrated measurement.

ANNEX A Simulating Liquid Verification Result

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

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	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	16/1/2024
835	41.50	41.41	0.90	0.87	0.22%	3.33%	±5%	20.0	17/1/2024
1800	40.00	39.91	1.40	1.37	0.23%	2.14%	±5%	20.0	18/1/2024
1900	40.00	39.88	1.40	1.41	0.30%	-0.71%	±5%	20.0	19/1/2024
2450	39.20	39.08	1.80	1.81	0.31%	-0.56%	±5%	20.0	22/1/2024
2600	39.00	38.88	1.96	1.97	0.31%	-0.51%	±5%	20.0	22/1/2024
5200	36.00	35.88	4.66	4.70	0.33%	-0.86%	±5%	20.0	23/1/2024
5800	35.30	35.18	5.27	5.31	0.34%	-0.76%	±5%	20.0	23/1/2024

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%
2600	16	0.421	0.866	26.56	54.64	24.60	55.30	-7.97%	1.19%
5200	13	0.288	1.019	22.15	78.38	21.29	73.88	4.05%	6.09%
5800	13	0.277	0.981	21.31	75.46	21.5	74.21	-0.90%	1.68%

System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 16/1/2024

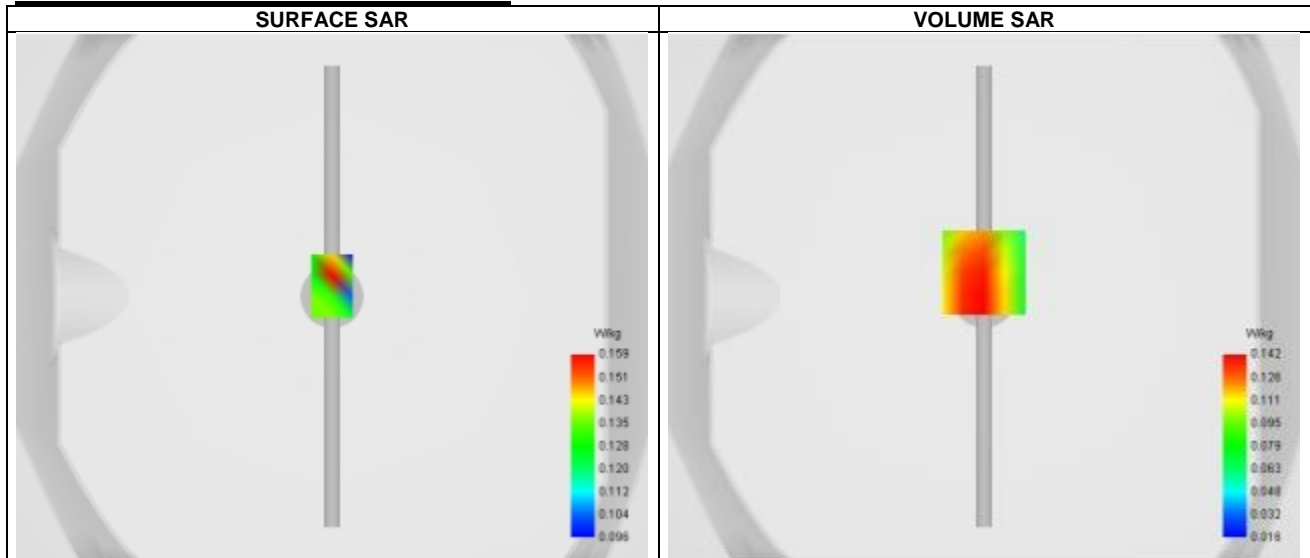
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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



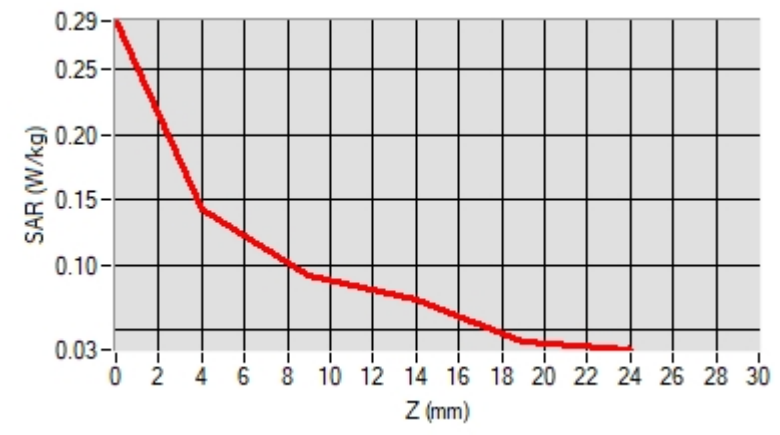
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

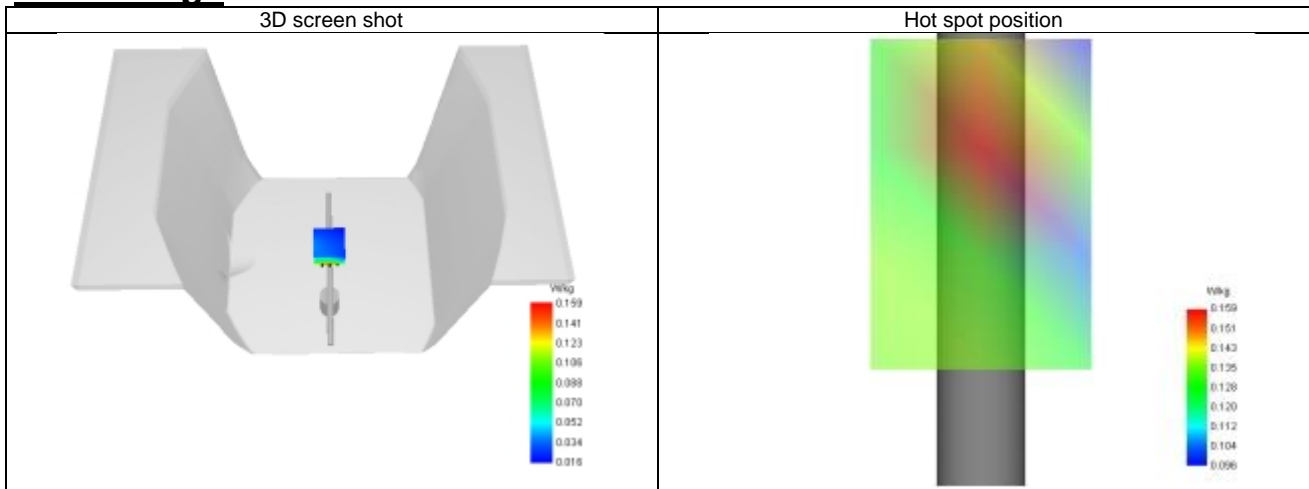
SAR 10g (W/Kg)	0.092
SAR 1g (W/Kg)	0.138
Variation (%)	-2.190
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 17/1/2024

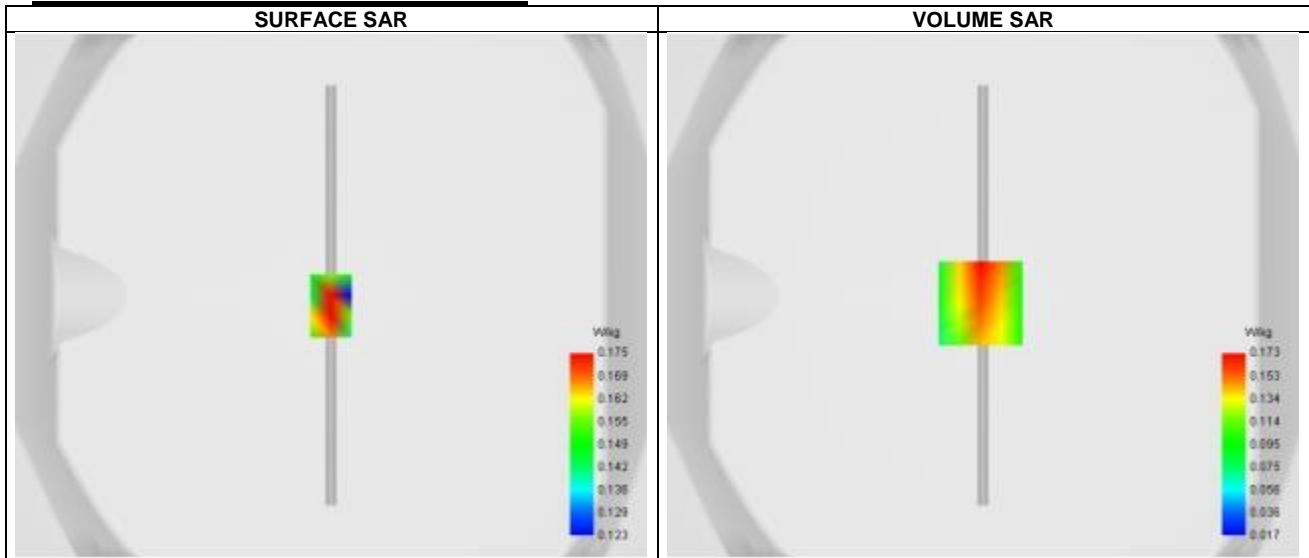
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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



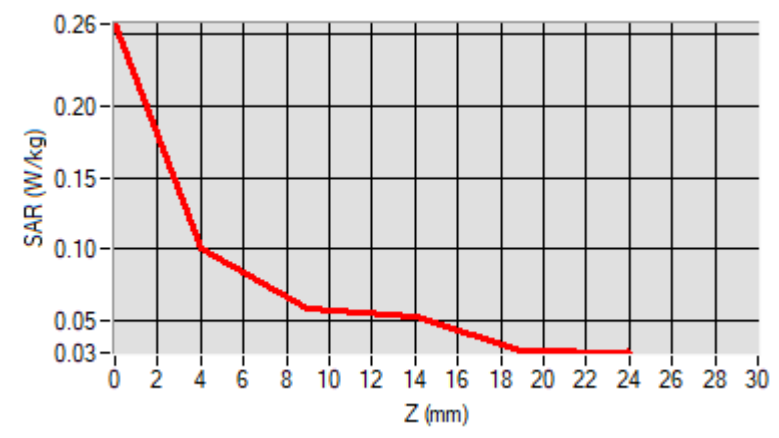
Maximum location: X=-1.00, Y=-3.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

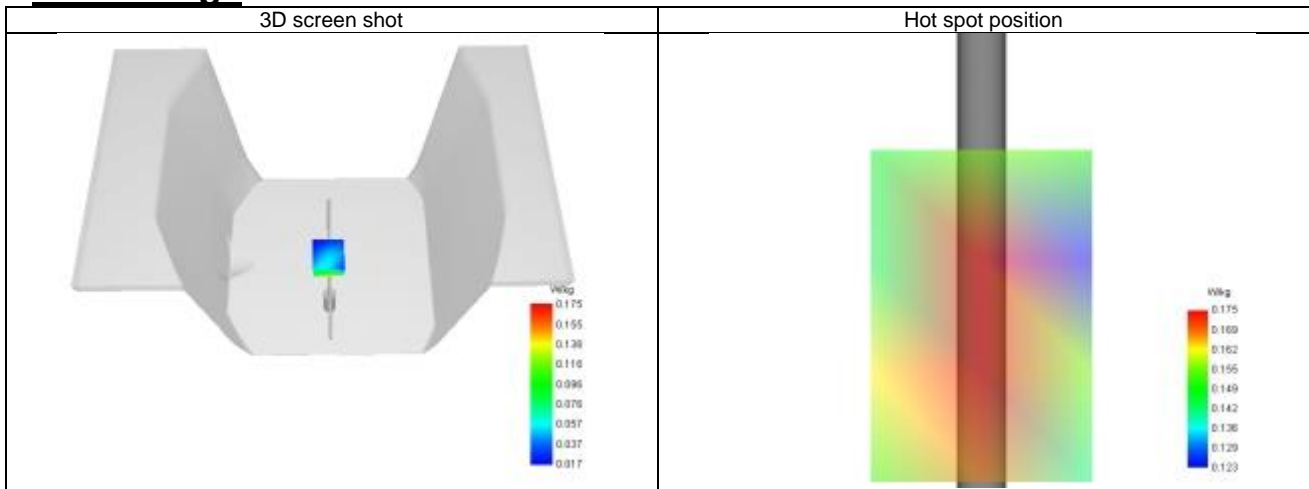
SAR 10g (W/Kg)	0.106
SAR 1g (W/Kg)	0.163
Variation (%)	-3.390
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 18/1/2024

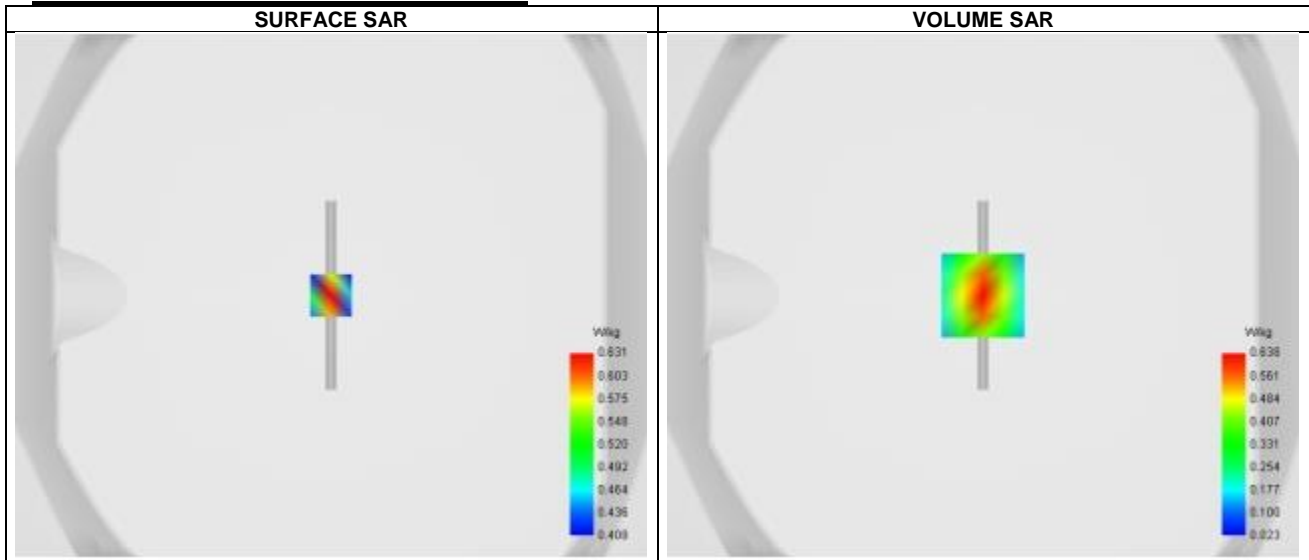
A. Experimental conditions.

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

B. Permittivity

Frequency (MHz)	1800.000
Relative permittivity (real part)	39.910
Relative permittivity (imaginary part)	14.090
Conductivity (S/m)	1.370

C. SAR Surface and Volume



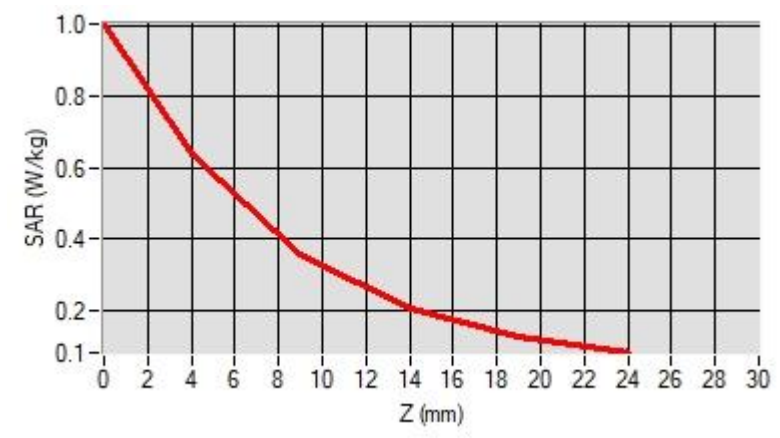
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

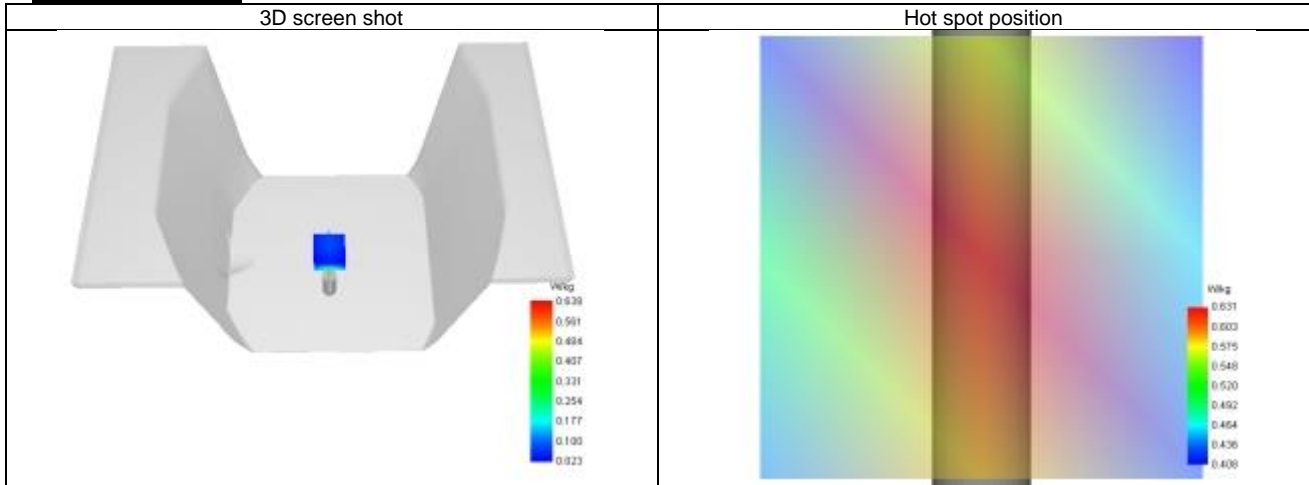
SAR 10g (W/Kg)	0.312
SAR 1g (W/Kg)	0.588
Variation (%)	-0.250
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 19/1/2024

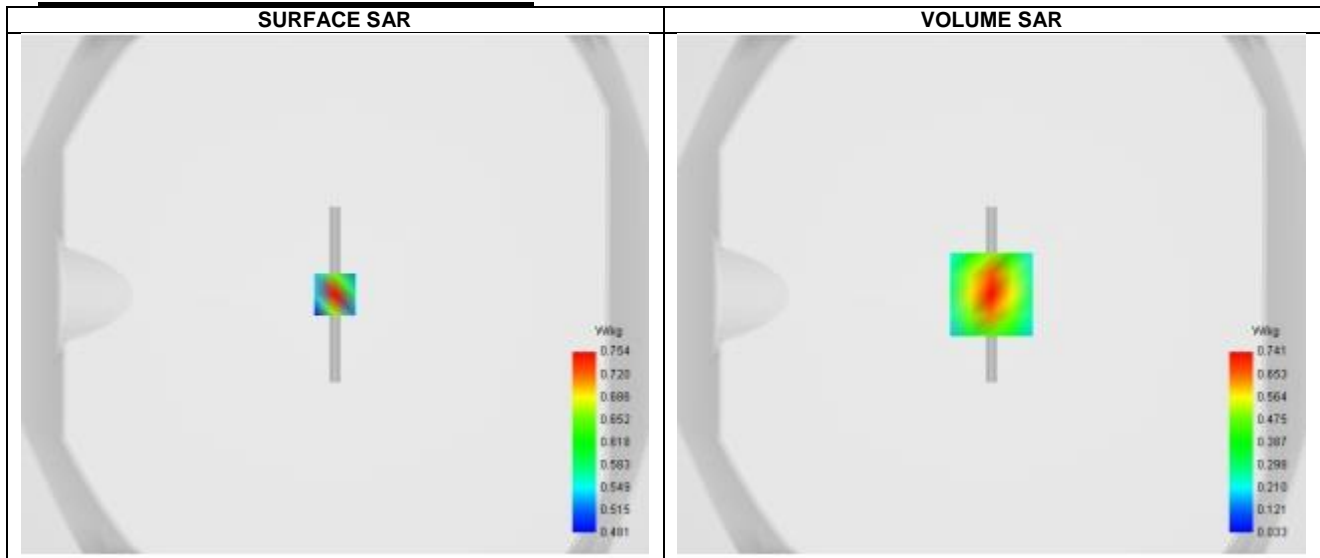
A. Experimental conditions.

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



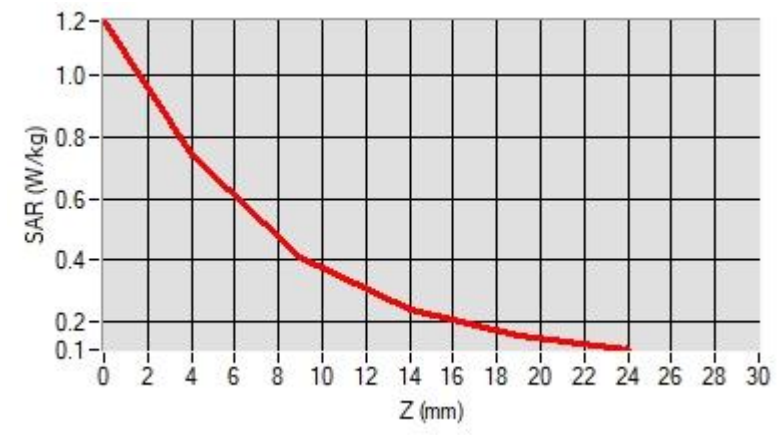
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

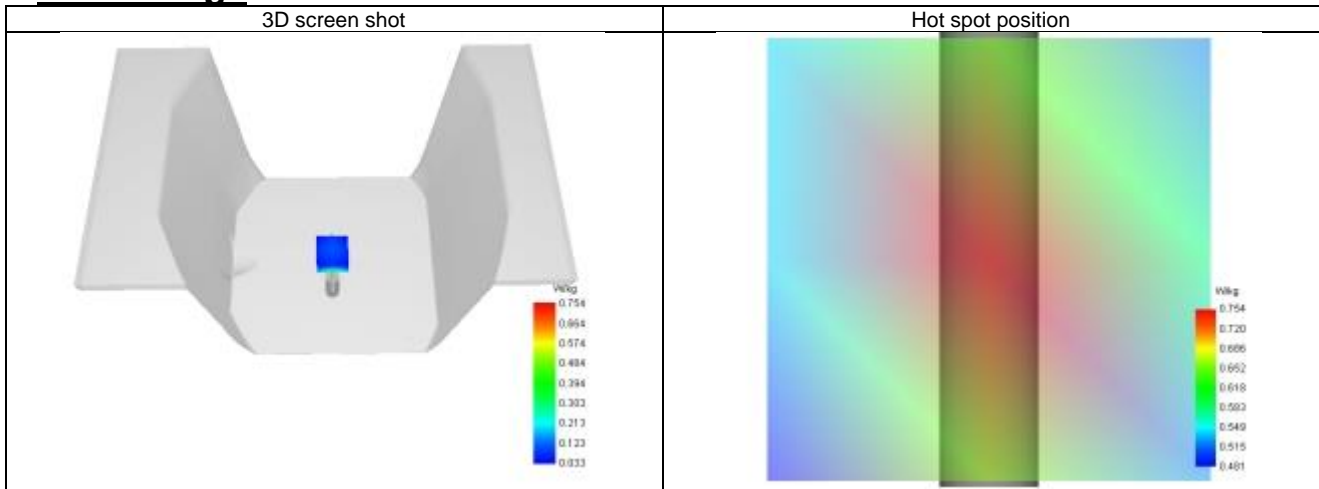
SAR 10g (W/Kg)	0.322
SAR 1g (W/Kg)	0.630
Variation (%)	-2.080
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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: 22/1/2024

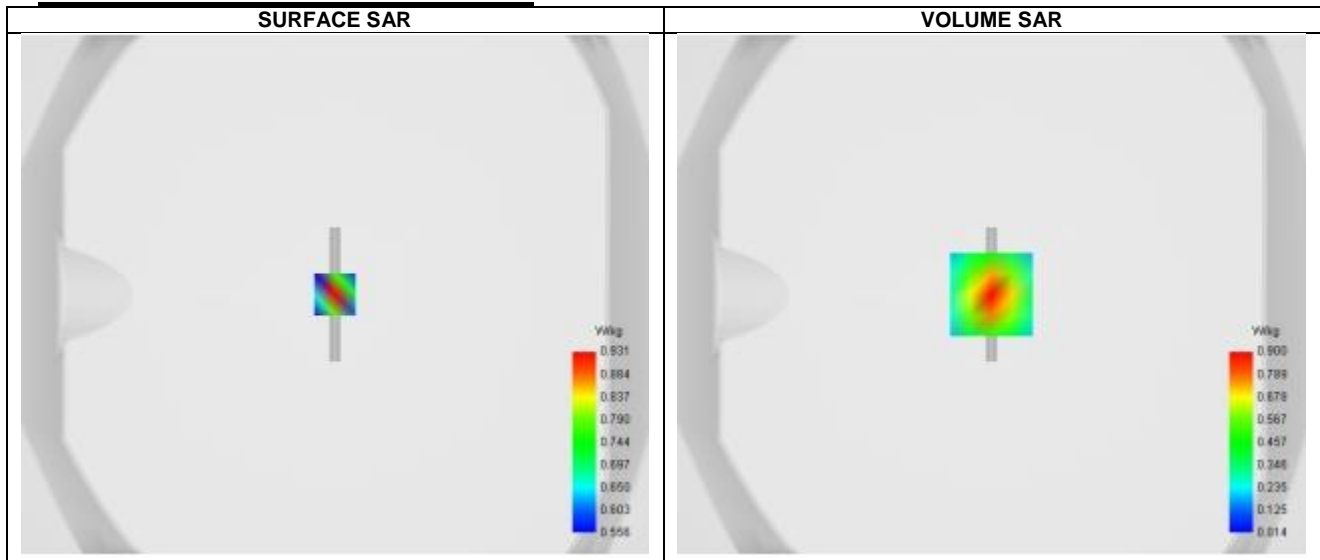
A. Experimental conditions.

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



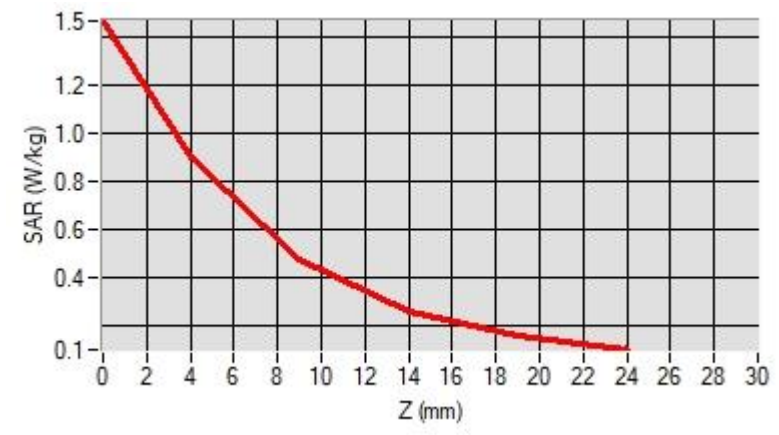
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

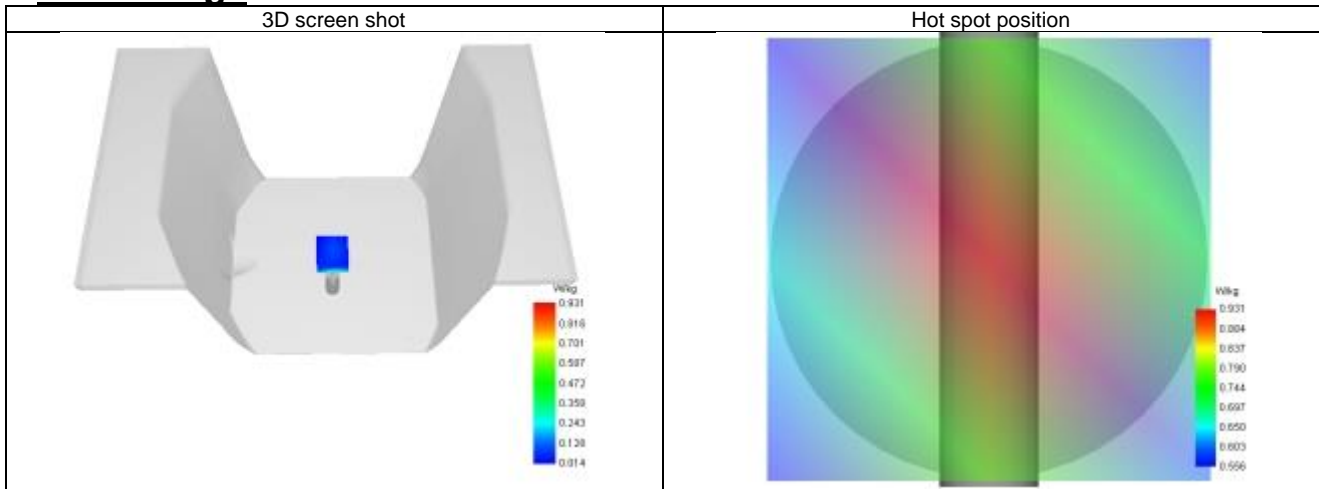
SAR 10g (W/Kg)	0.352
SAR 1g (W/Kg)	0.793
Variation (%)	-2.570
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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



System Performance Check Data (2600 MHz)

System check at 2600 MHz

Date of measurement: 22/1/2024

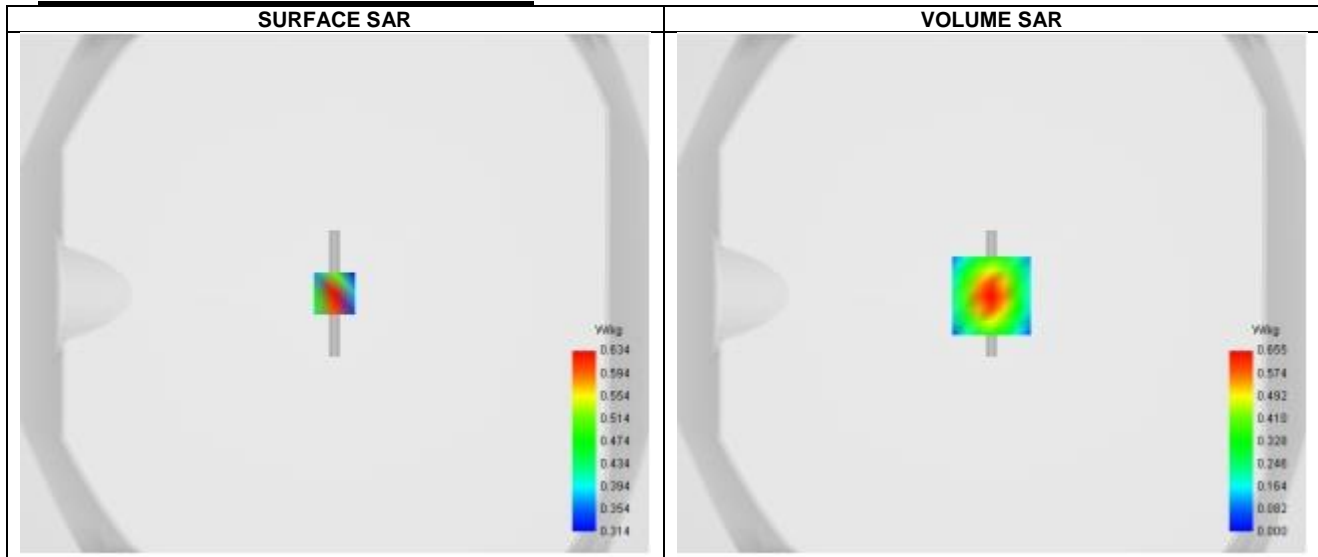
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.40
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	CW2600
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	2600.000
Relative permittivity (real part)	38.880
Relative permittivity (imaginary part)	12.690
Conductivity (S/m)	1.970

C. SAR Surface and Volume



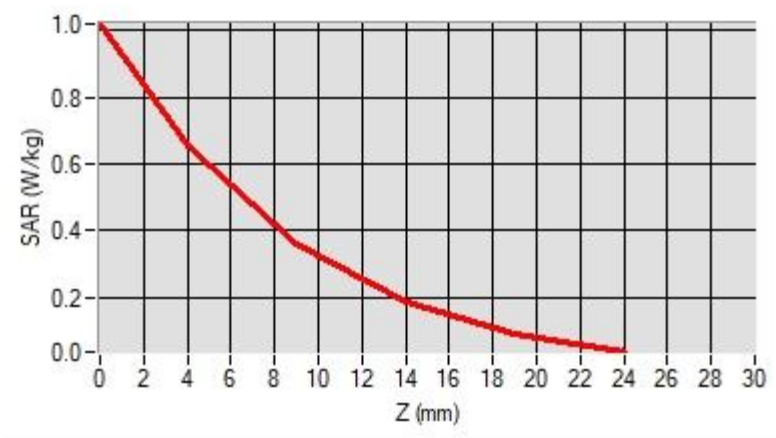
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

D. SAR 1g & 10g

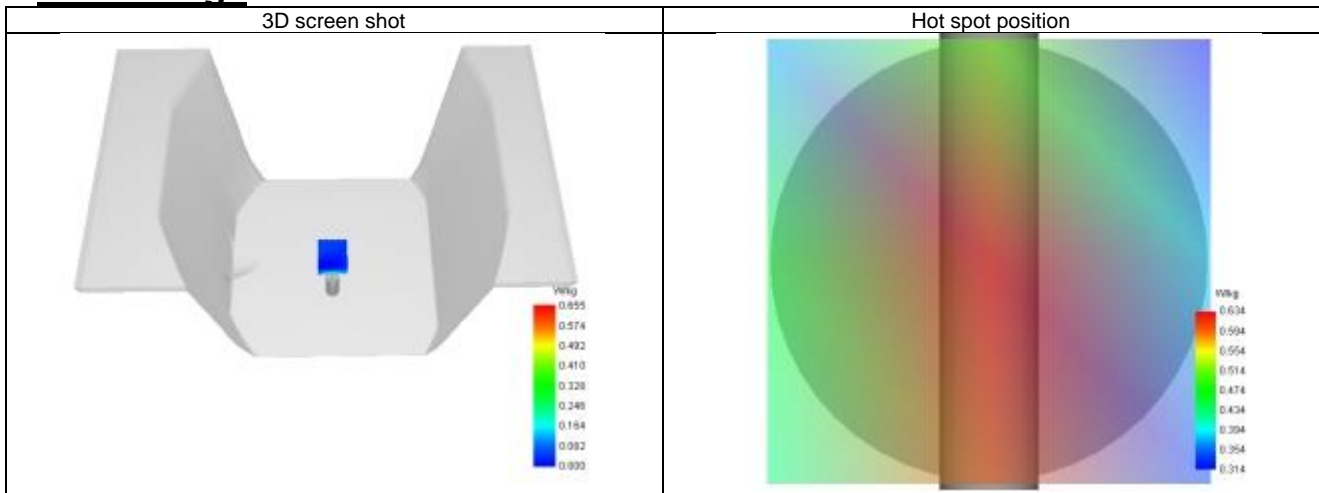
SAR 10g (W/Kg)	0.421
SAR 1g (W/Kg)	0.866
Variation (%)	2.980
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (5200 MHz)

System check at 5200 MHz

Date of measurement: 23/1/2024

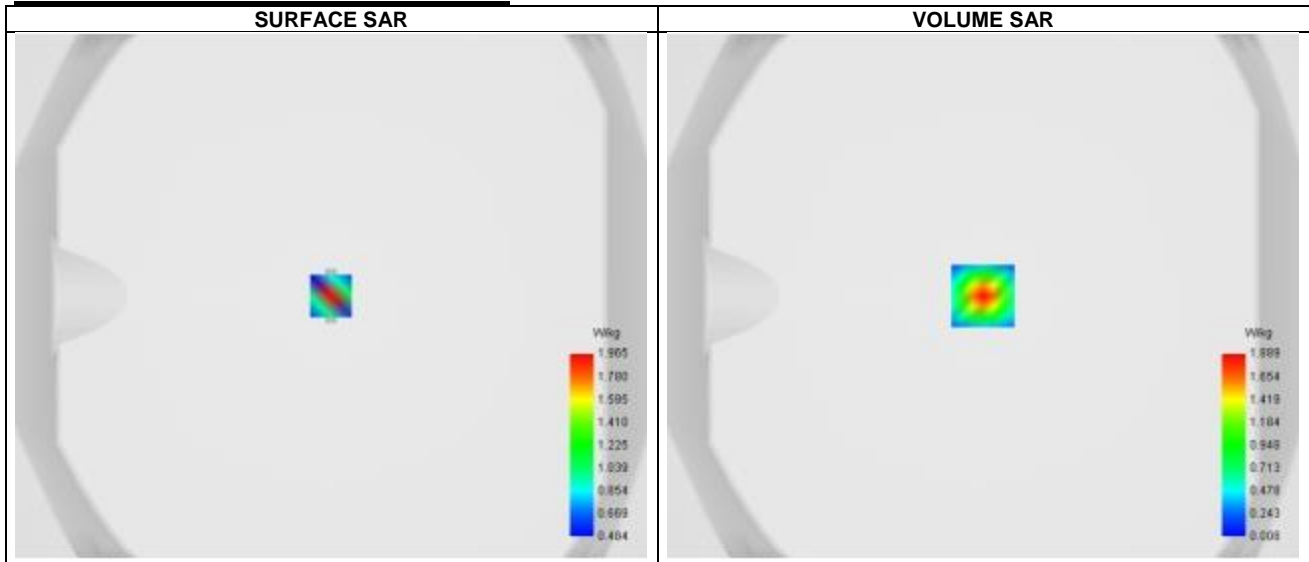
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5200
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5200.000
Relative permittivity (real part)	35.880
Relative permittivity (imaginary part)	16.250
Conductivity (S/m)	4.700

C. SAR Surface and Volume



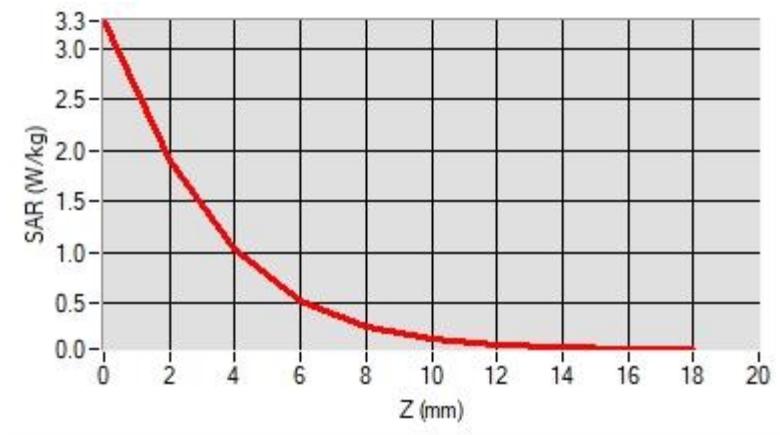
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.38 W/kg

D. SAR 1g & 10g

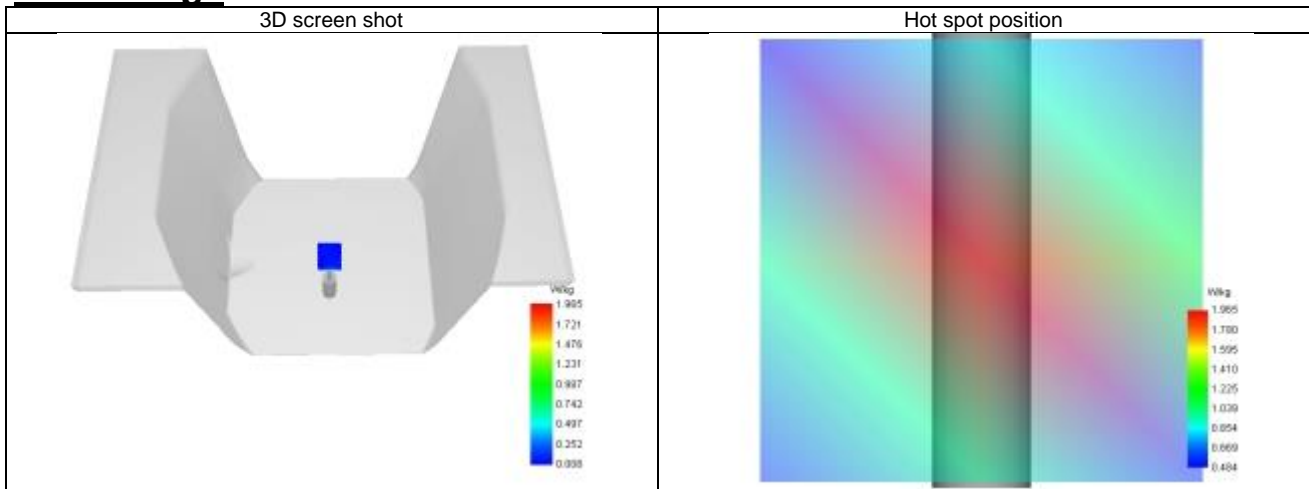
SAR 10g (W/Kg)	0.288
SAR 1g (W/Kg)	1.019
Variation (%)	-3.400
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	3.268	1.889	1.021	0.523	0.266	0.142	0.085	0.060	0.052



F. 3D Image



System Performance Check Data (5800 MHz)

System check at 5800 MHz

Date of measurement: 23/1/2024

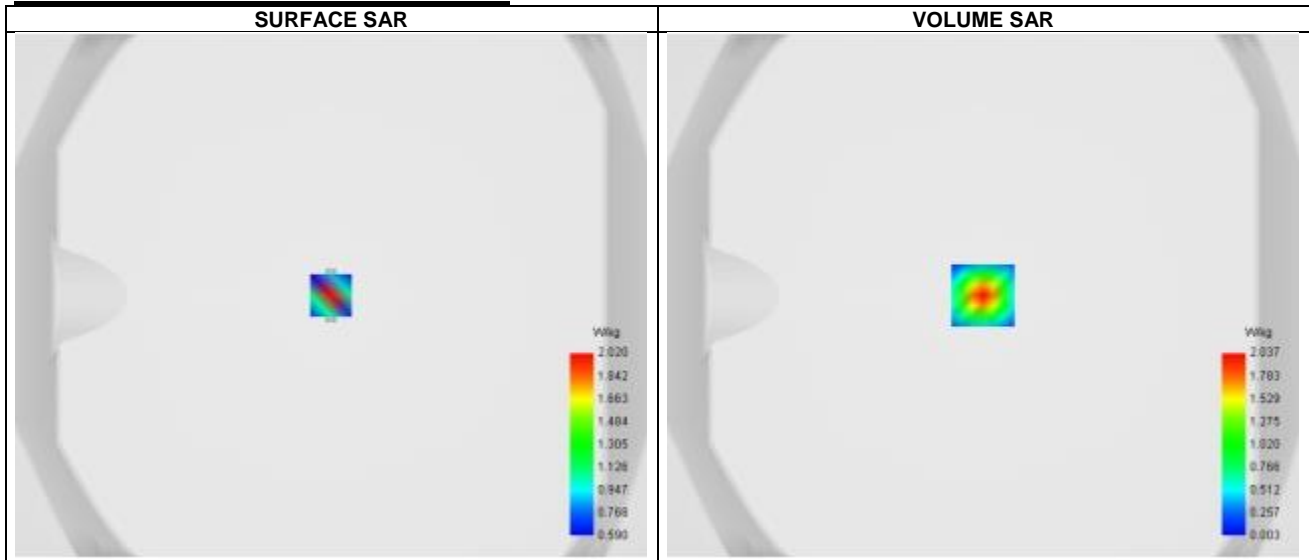
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.04
Area Scan	dx=8mm dy=8mm, Adaptive 1 max
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW5800
Channels	Middle
Signal	CW

B. Permittivity

Frequency (MHz)	5800.000
Relative permittivity (real part)	35.180
Relative permittivity (imaginary part)	16.480
Conductivity (S/m)	5.310

C. SAR Surface and Volume



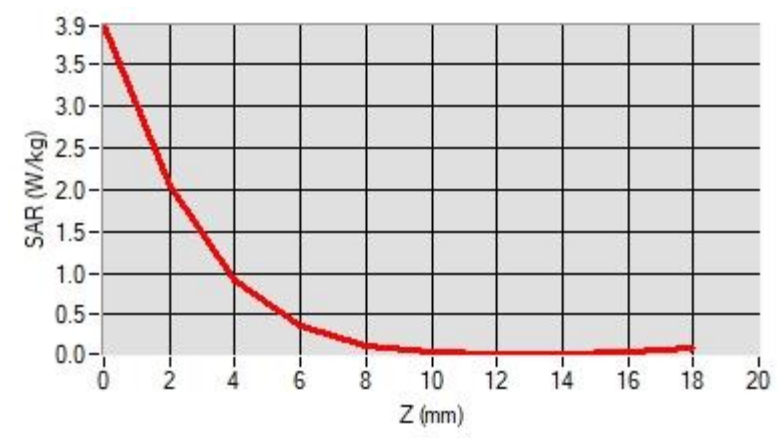
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.17 W/kg

D. SAR 1g & 10g

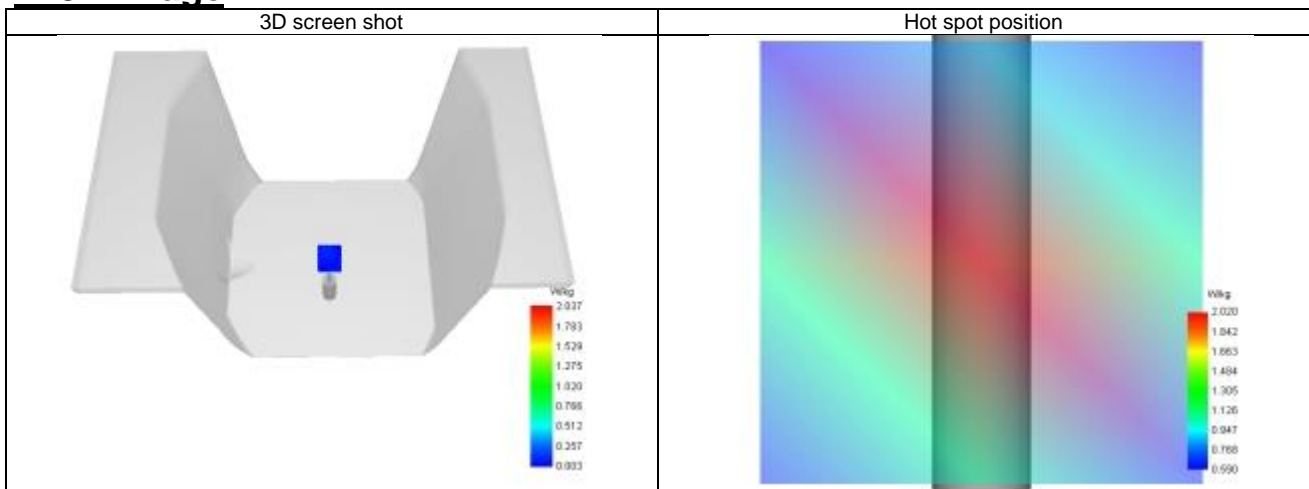
SAR 10g (W/Kg)	0.277
SAR 1g (W/Kg)	0.981
Variation (%)	0.490
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	3.948	2.037	0.915	0.361	0.135	0.055	0.033	0.037	0.059



F. 3D Image



ANNEX C Test Data

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

SAR Measurement at GSM850 (Cheek, Right)

Date of measurement: 17/1/2024

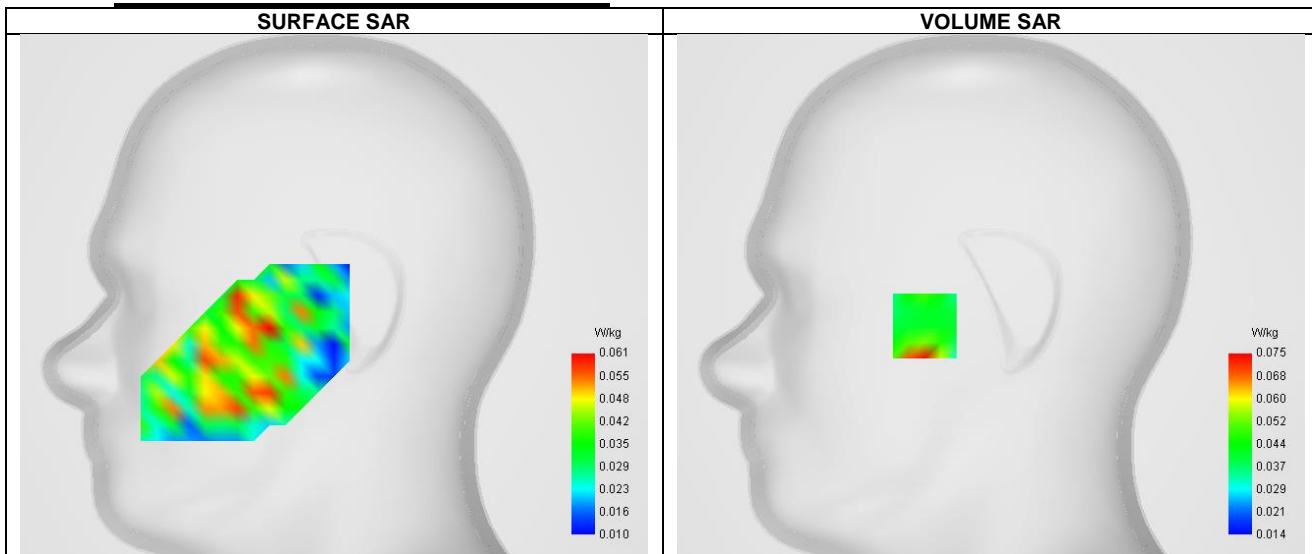
A. Experimental conditions.

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	GSM850
Channels	Higher (251)
Signal	TDMA (GSM)
Modulation	GMSK

B. Permittivity

Frequency (MHz)	848.800
Relative permittivity (real part)	41.389
Relative permittivity (imaginary part)	19.413
Conductivity (S/m)	0.877

C. SAR Surface and Volume



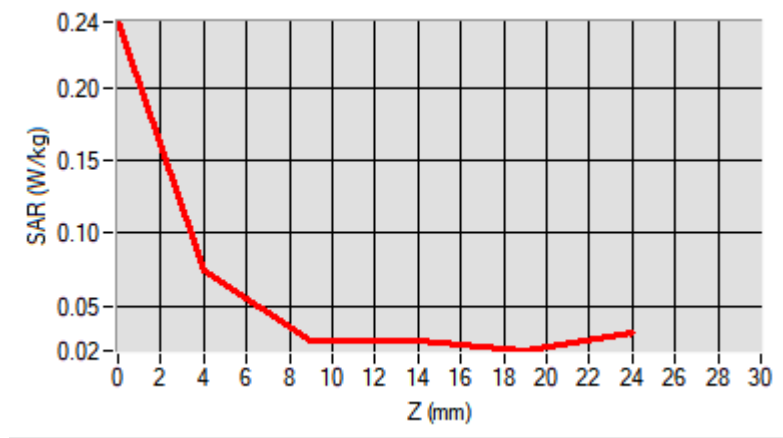
Maximum location: X=-33.00, Y=-15.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

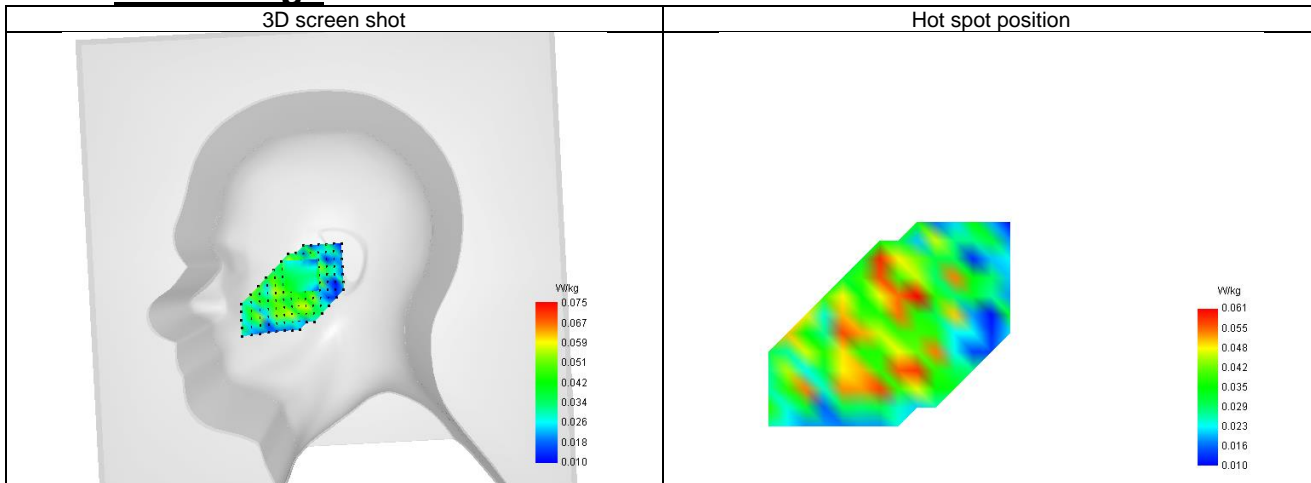
SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.065
Variation (%)	-2.380
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.245	0.075	0.026	0.027	0.020



F. 3D Image



2-Body with back position in dist. 10mm on Channel 251 in GPRS850+4slots

SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 17/1/2024

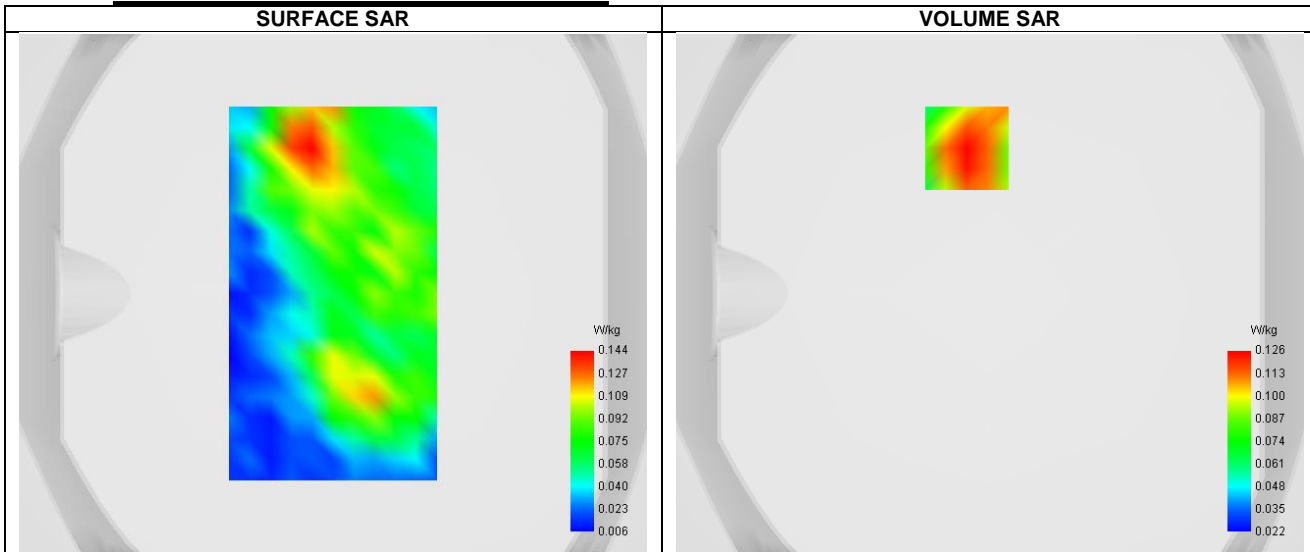
A. Experimental conditions.

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	Higher (251)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	4

B. Permittivity

Frequency (MHz)	848.800
Relative permittivity (real part)	41.389
Relative permittivity (imaginary part)	19.413
Conductivity (S/m)	0.877

C. SAR Surface and Volume



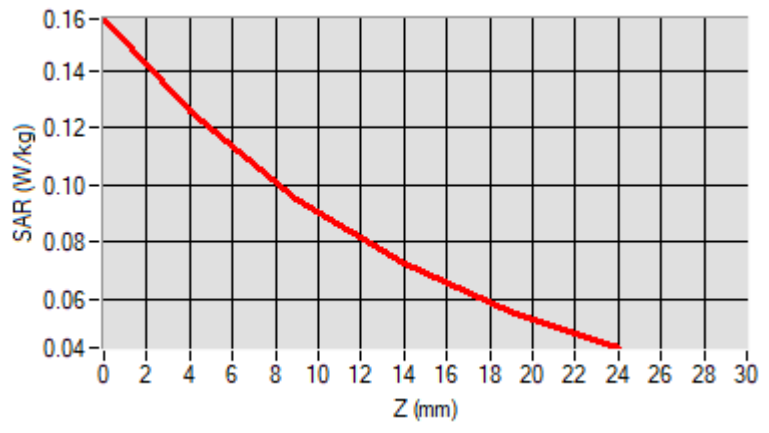
Maximum location: X=-9.00, Y=56.00 ; SAR Peak: 0.16 W/kg

D. SAR 1g & 10g

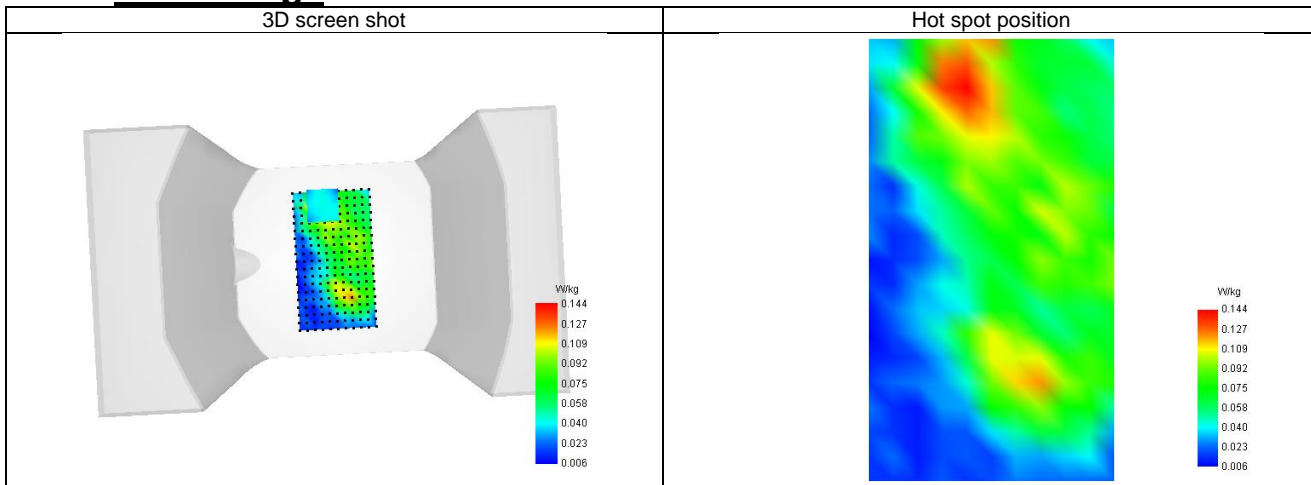
SAR 10g (W/Kg)	0.090
SAR 1g (W/Kg)	0.128
Variation (%)	-2.790
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.158	0.126	0.095	0.072	0.056



F. 3D Image



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

SAR Measurement at GSM1900 (Cheek, Right)

Date of measurement: 18/1/2024

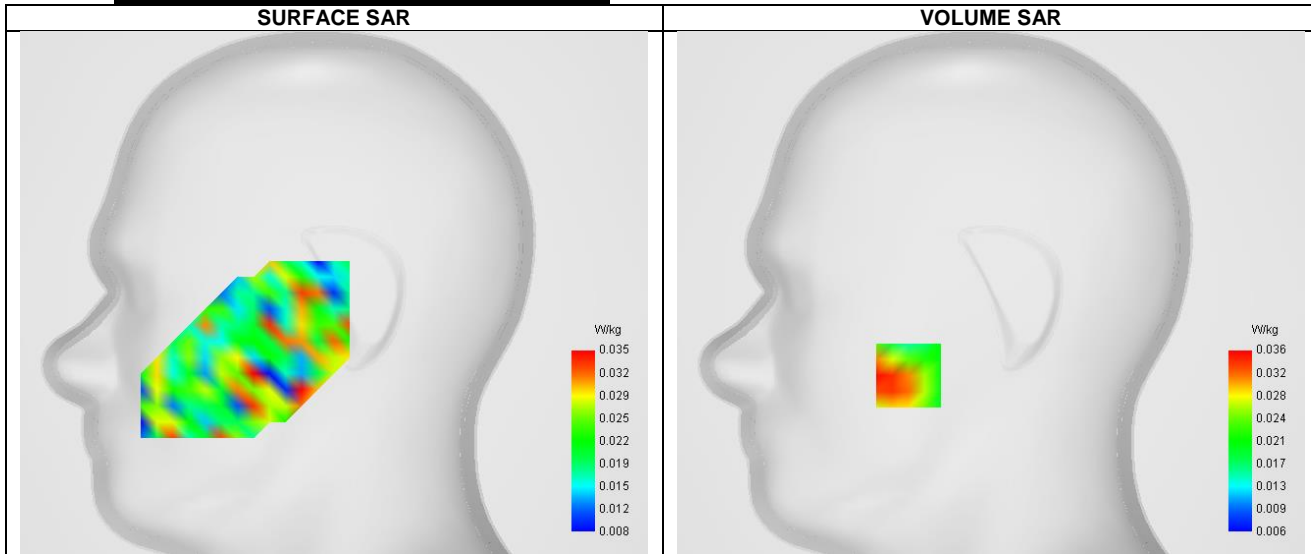
A. Experimental conditions.

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	GSM1900
Channels	Lower (512)
Signal	TDMA (GSM)
Modulation	GMSK

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



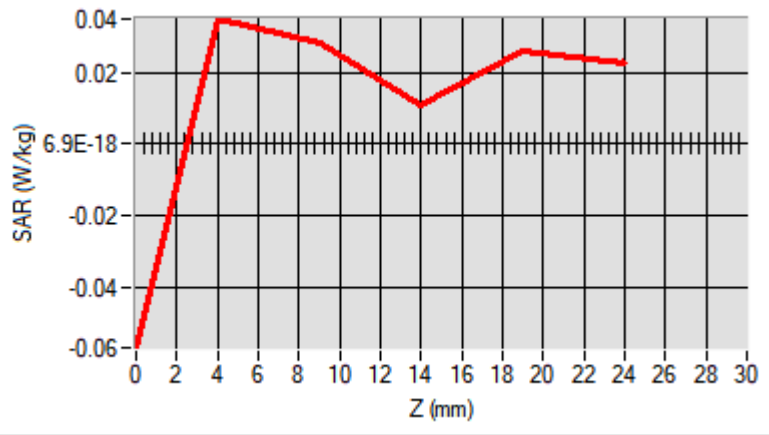
Maximum location: X=-41.00, Y=-41.00 ; SAR Peak: 0.07 W/kg

D. SAR 1g & 10g

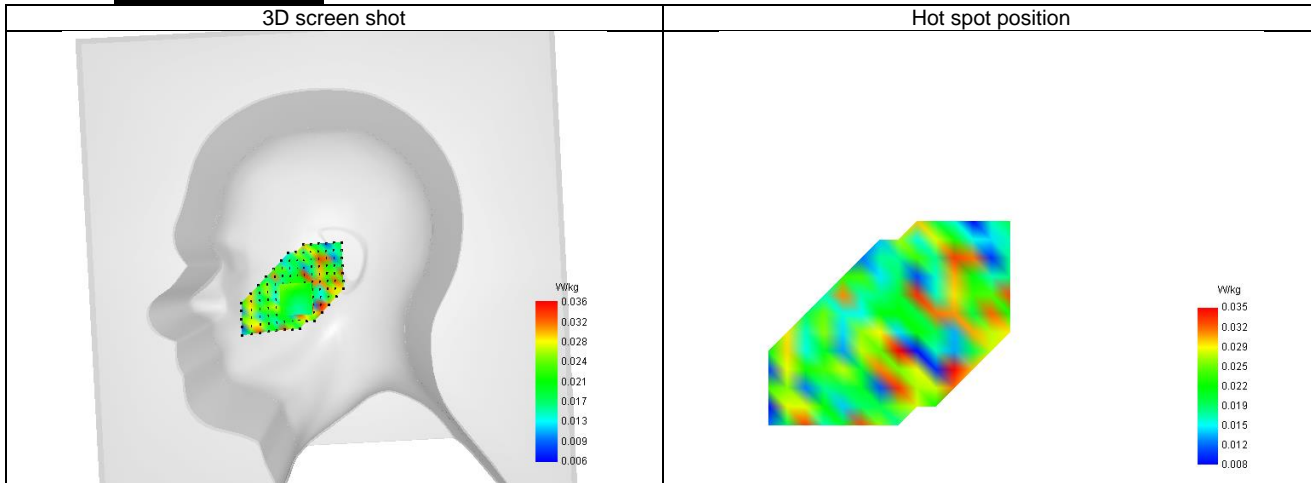
SAR 10g (W/Kg)	0.027
SAR 1g (W/Kg)	0.040
Variation (%)	0.810
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	-0.057	0.035	0.029	0.011	0.026



F. 3D Image



4-Body with bottom position in dist. 10mm on Channel 661 in GPRS1900+3slots

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 18/1/2024

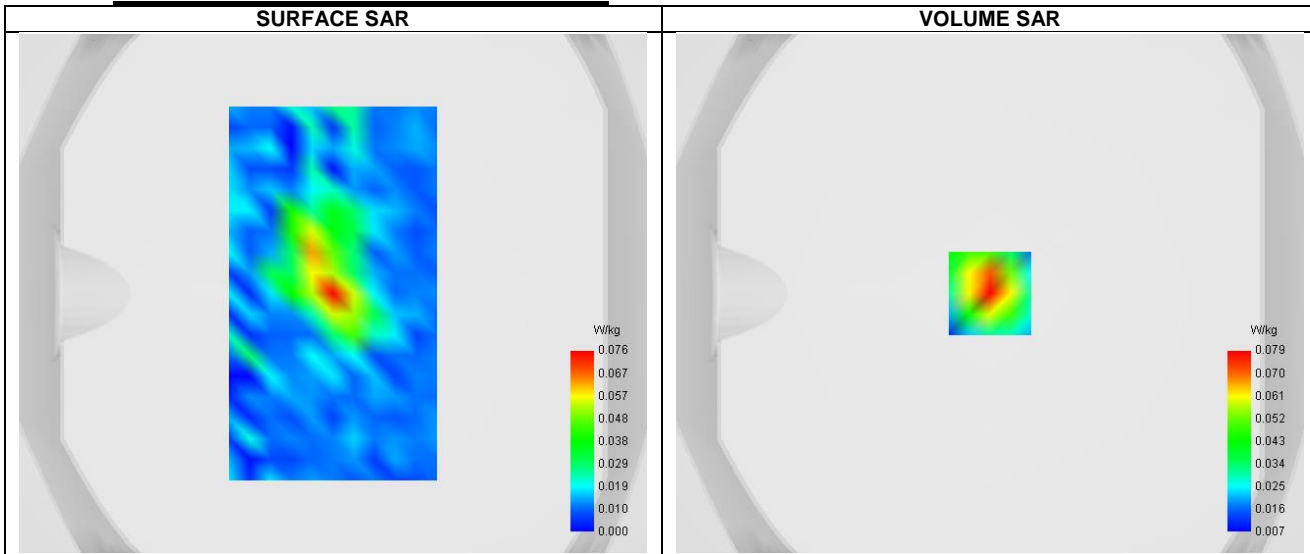
A. Experimental conditions.

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	Middle (661)
Signal	TDMA (GPRS)
Modulation	GMSK (CS-1)
TX-slots	3

B. Permittivity

Frequency (MHz)	1880.000
Relative permittivity (real part)	39.886
Relative permittivity (imaginary part)	13.522
Conductivity (S/m)	1.402

C. SAR Surface and Volume



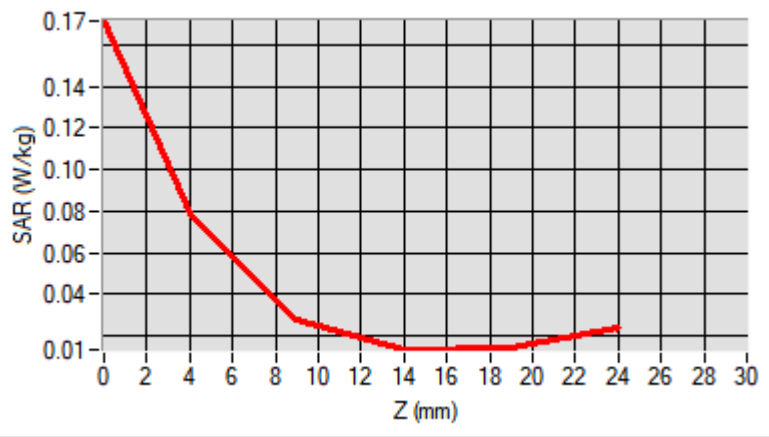
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

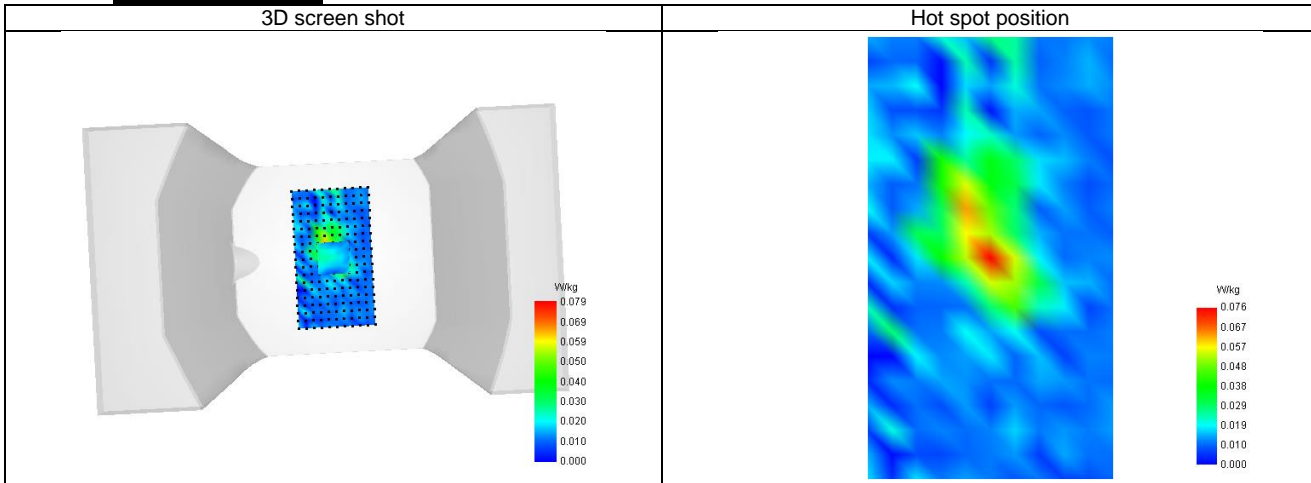
SAR 10g (W/Kg)	0.041
SAR 1g (W/Kg)	0.080
Variation (%)	-3.370
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.172	0.079	0.027	0.013	0.014



F. 3D Image



5-Head with front position in dist. 0mm on Channel 9262 in WCDMA Band 2

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

Date of measurement: 18/1/2024

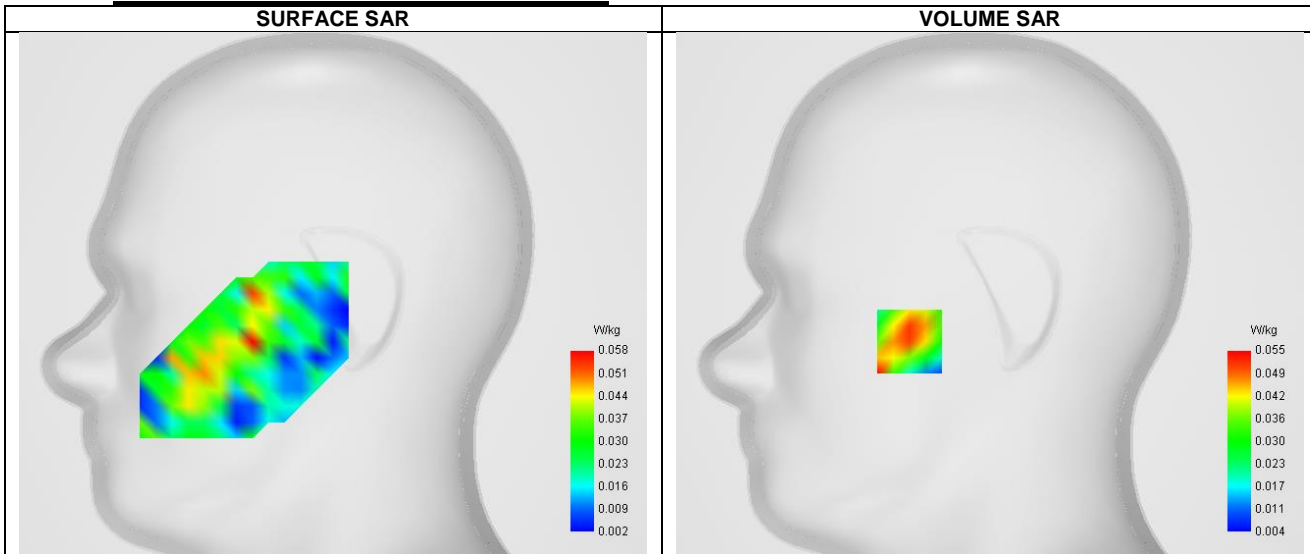
A. Experimental conditions.

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	Band 2 (1900)
Channels	Lower (9262)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1852.400
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.718
Conductivity (S/m)	1.391

C. SAR Surface and Volume



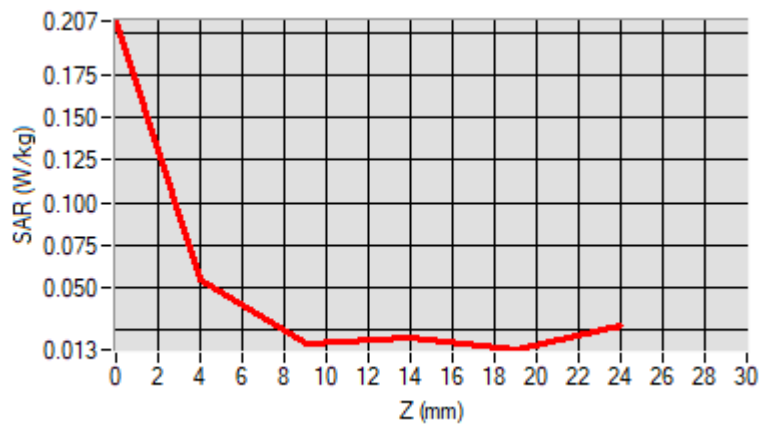
Maximum location: X=-40.00, Y=-24.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

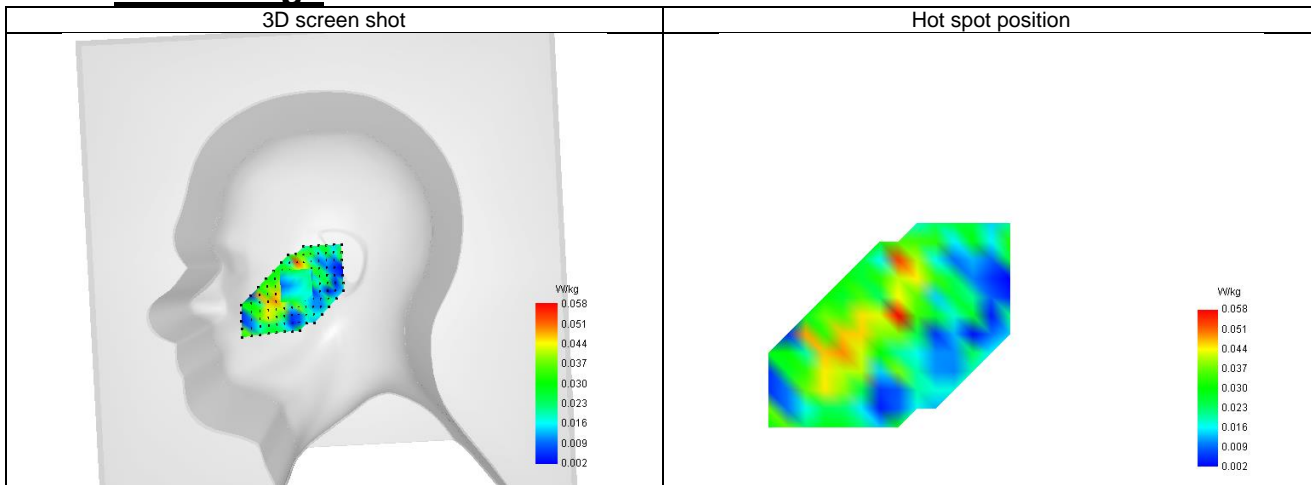
SAR 10g (W/Kg)	0.035
SAR 1g (W/Kg)	0.048
Variation (%)	-2.900
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

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



6-Body with bottom position in dist. 10mm on Channel 9262 in WCDMA Band 2

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

Date of measurement: 18/1/2024

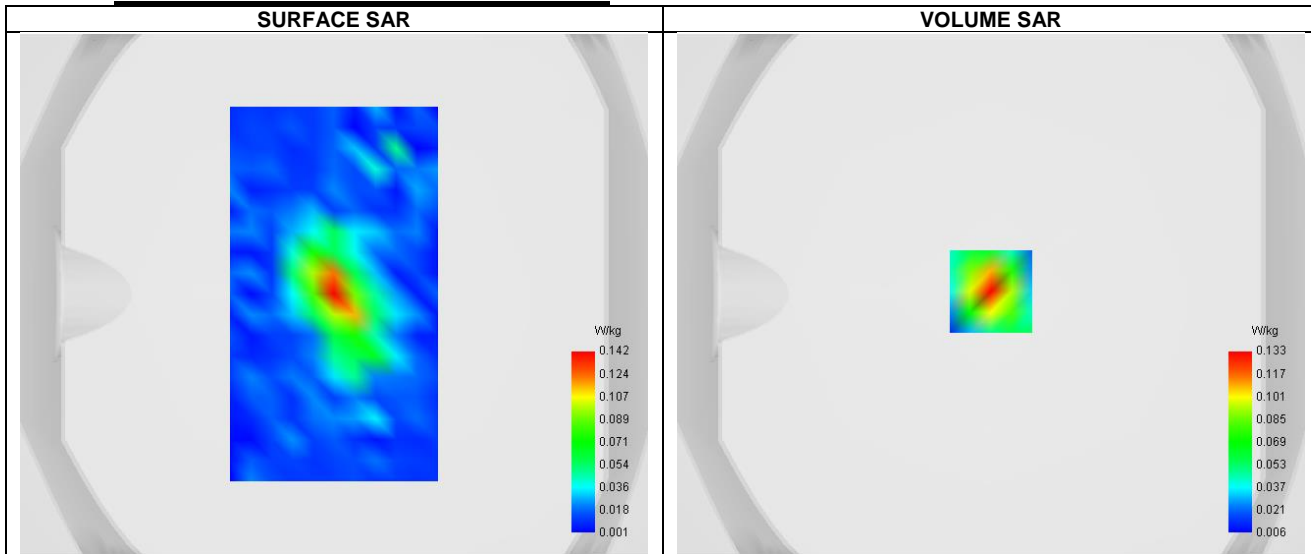
A. Experimental conditions.

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	Band 2 (1900)
Channels	Lower (9262)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1852.400
Relative permittivity (real part)	39.894
Relative permittivity (imaginary part)	13.718
Conductivity (S/m)	1.391

C. SAR Surface and Volume



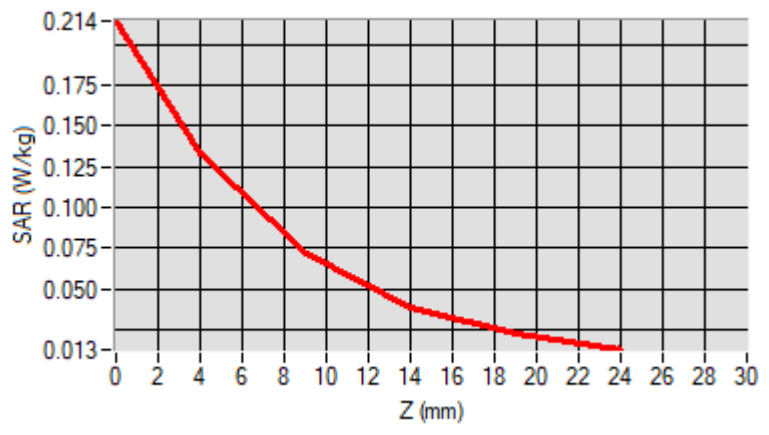
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 0.22 W/kg

D. SAR 1g & 10g

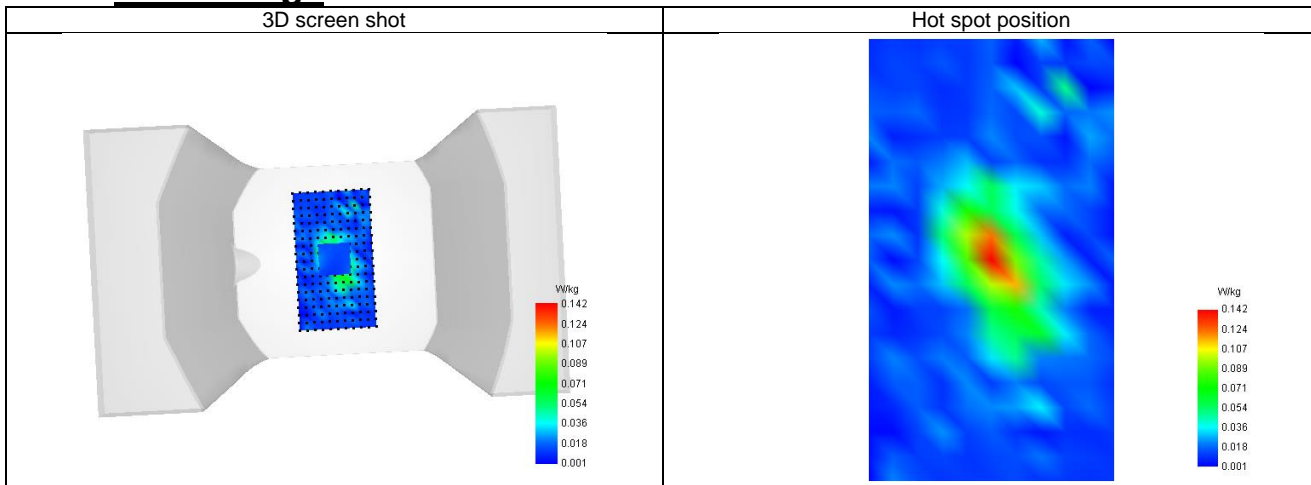
SAR 10g (W/Kg)	0.063
SAR 1g (W/Kg)	0.125
Variation (%)	-3.850
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.214	0.133	0.071	0.039	0.022



F. 3D Image



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

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

Date of measurement: 18/1/2024

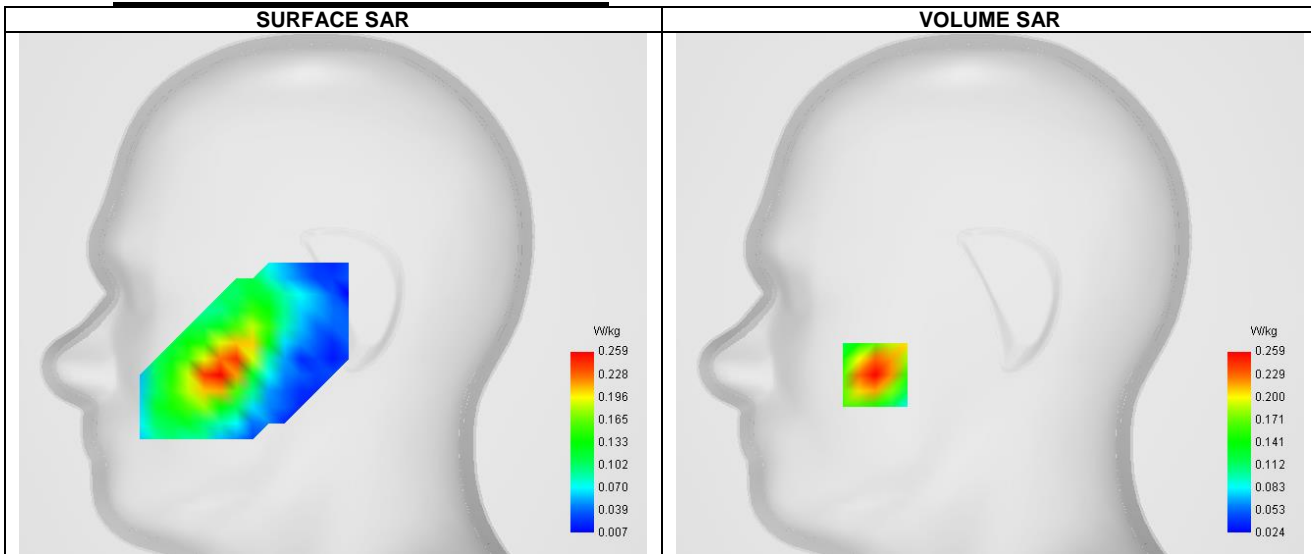
A. Experimental conditions.

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	Higher (1513)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1752.600
Relative permittivity (real part)	39.984
Relative permittivity (imaginary part)	14.355
Conductivity (S/m)	1.345

C. SAR Surface and Volume



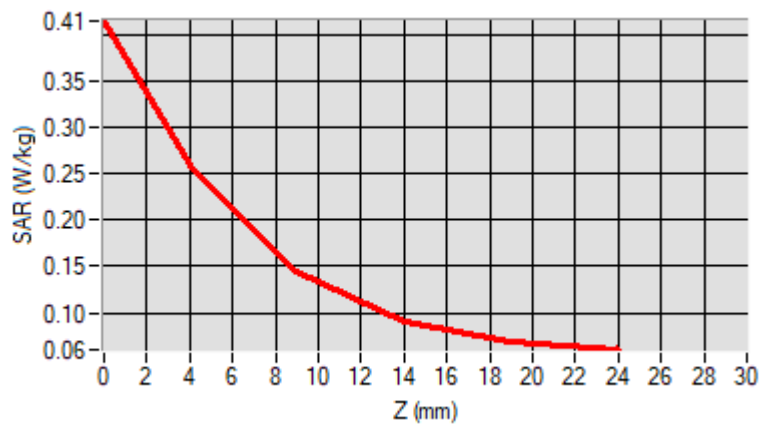
Maximum location: X=-57.00, Y=-40.00 ; SAR Peak: 0.42 W/kg

D. SAR 1g & 10g

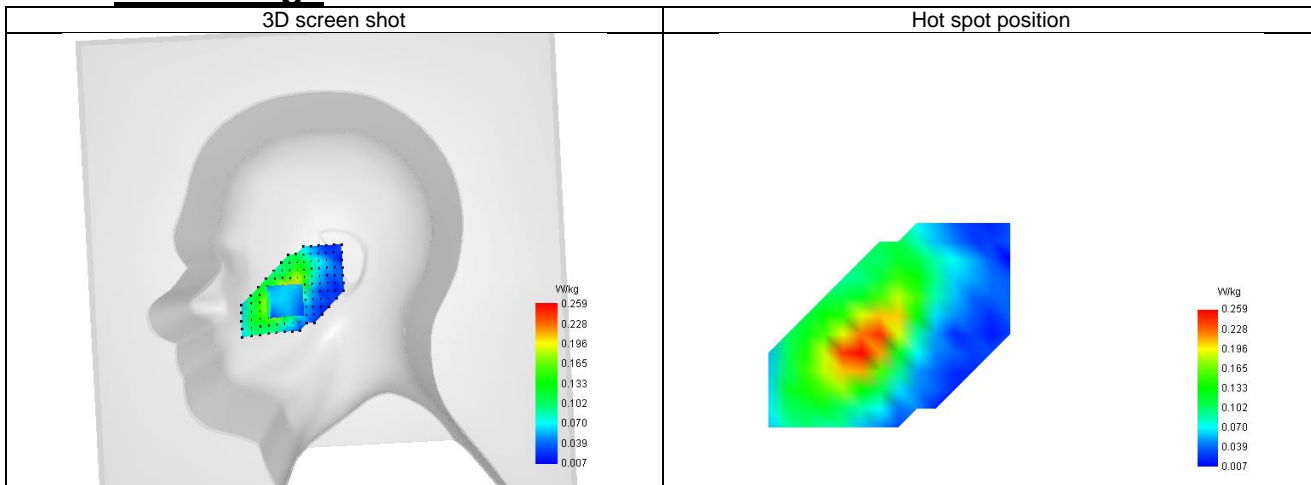
SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.256
Variation (%)	3.740
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.415	0.259	0.145	0.091	0.069



F. 3D Image



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

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

Date of measurement: 18/1/2024

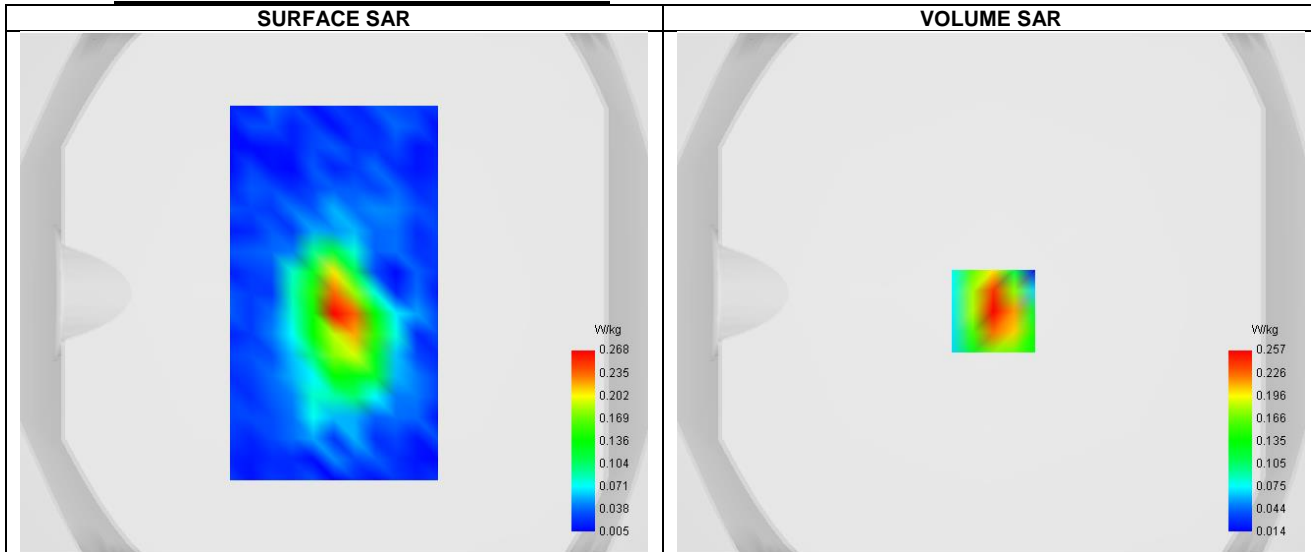
A. Experimental conditions.

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	Higher (1513)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	1752.600
Relative permittivity (real part)	39.984
Relative permittivity (imaginary part)	14.355
Conductivity (S/m)	1.345

C. SAR Surface and Volume

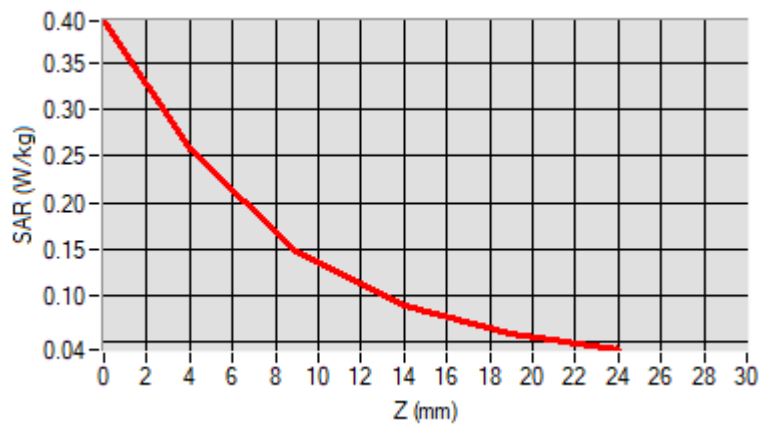


D. SAR 1g & 10g

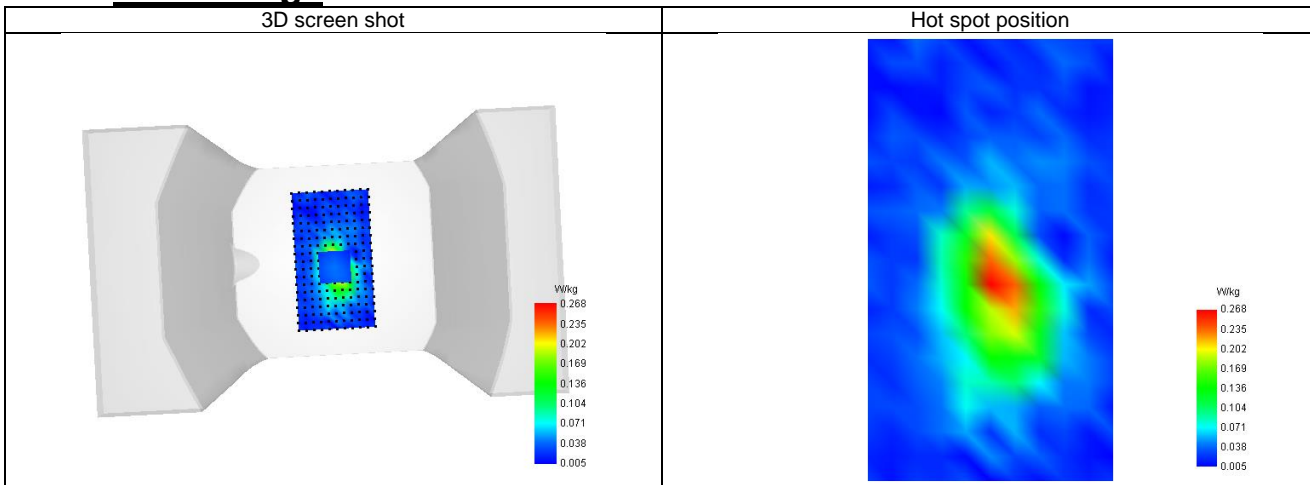
SAR 10g (W/Kg)	0.137
SAR 1g (W/Kg)	0.250
Variation (%)	1.330
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.396	0.257	0.148	0.090	0.059



F. 3D Image



9-Head with front position in dist. 0mm on Channel 4132 in WCDMA Band 5

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

Date of measurement: 17/1/2024

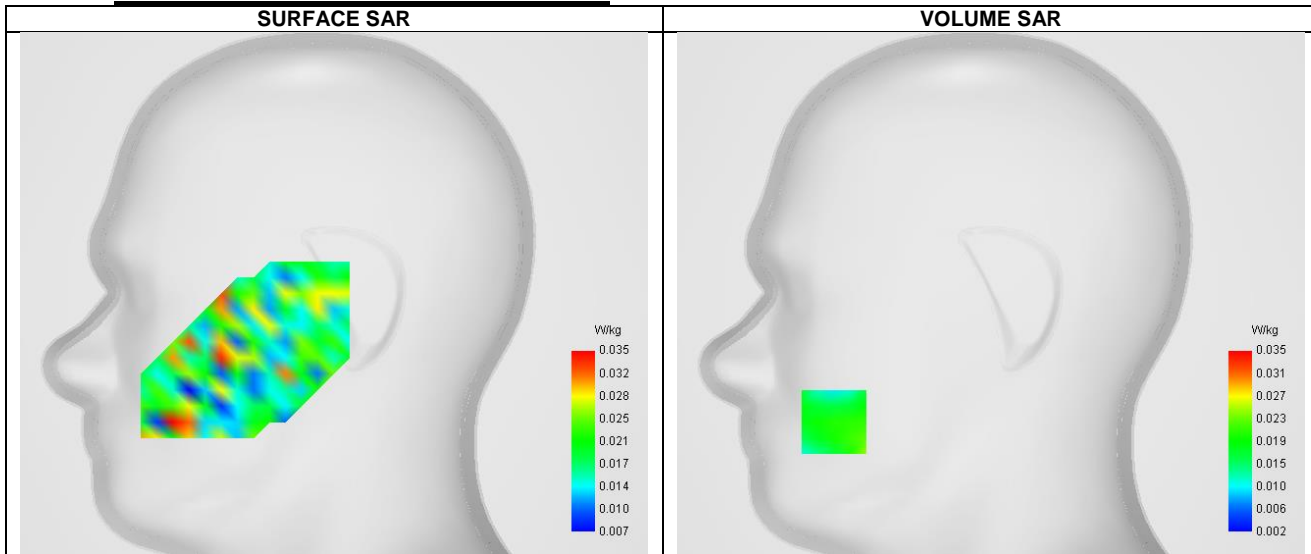
A. Experimental conditions.

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	Lower (4132)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	41.449
Relative permittivity (imaginary part)	19.689
Conductivity (S/m)	0.869

C. SAR Surface and Volume



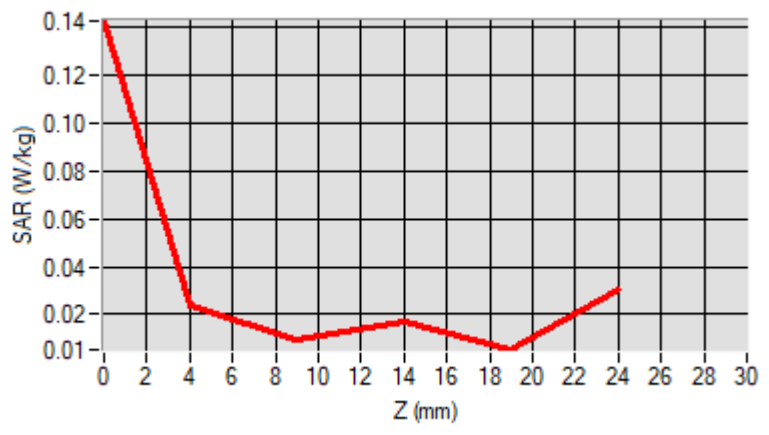
Maximum location: X=-78.00, Y=-64.00 ; SAR Peak: 0.05 W/kg

D. SAR 1g & 10g

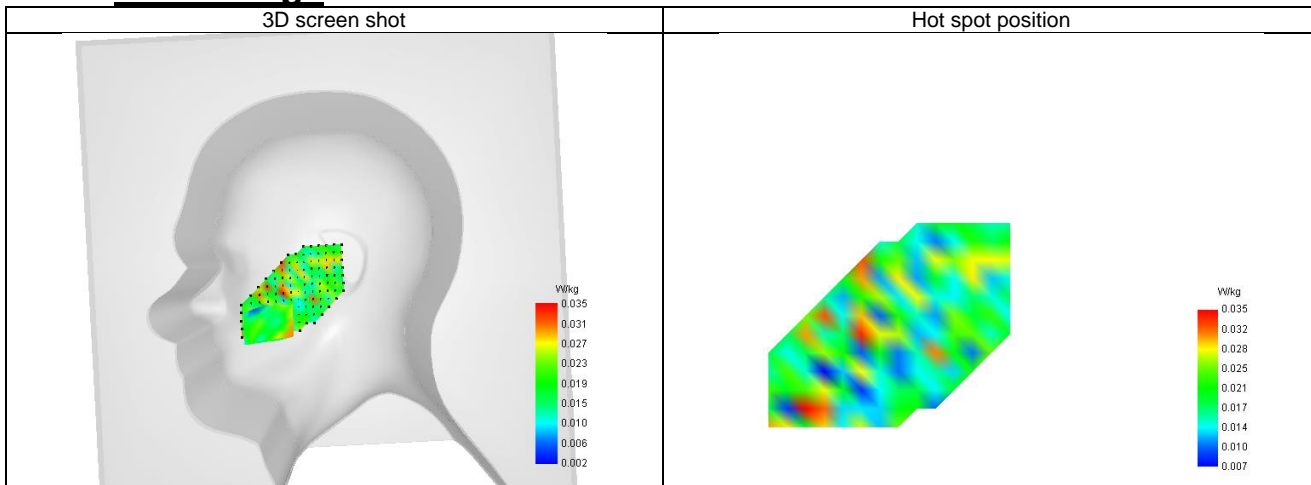
SAR 10g (W/Kg)	0.018
SAR 1g (W/Kg)	0.028
Variation (%)	2.830
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.143	0.024	0.010	0.017	0.005



F. 3D Image



10-Body with back position in dist. 10mm on Channel 4132 in WCDMA Band 5

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

Date of measurement: 16/1/2024

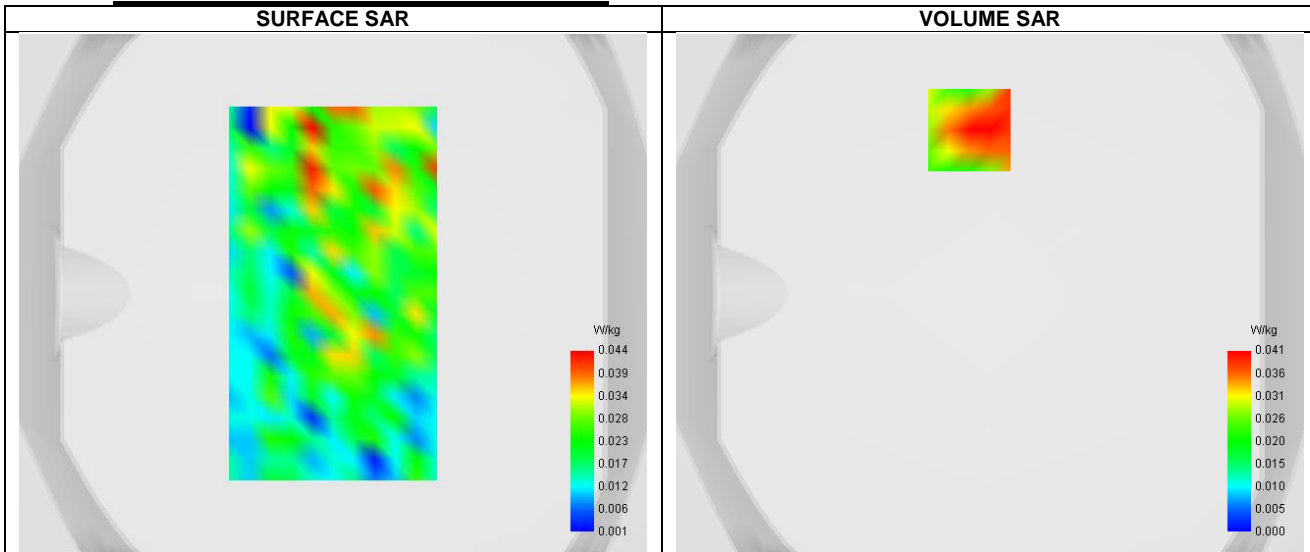
A. Experimental conditions.

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	Band 5 (850)
Channels	Lower (4132)
Signal	WCDMA
Mode	Release 99
Connection Type	RMC, 12.2 kbps

B. Permittivity

Frequency (MHz)	826.400
Relative permittivity (real part)	41.449
Relative permittivity (imaginary part)	19.689
Conductivity (S/m)	0.869

C. SAR Surface and Volume



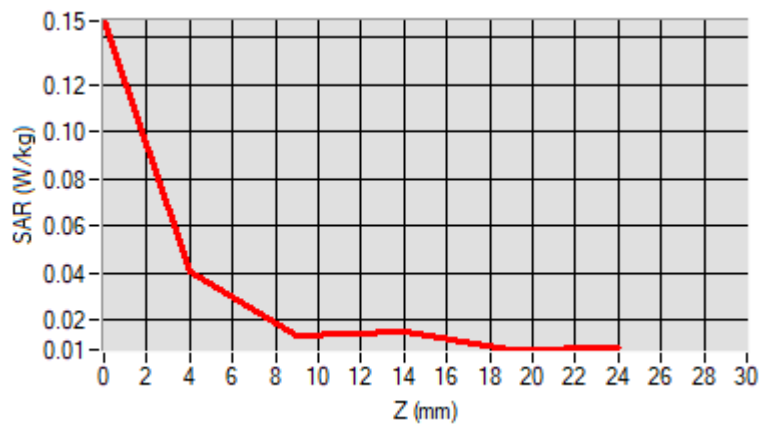
Maximum location: X=-8.00, Y=63.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

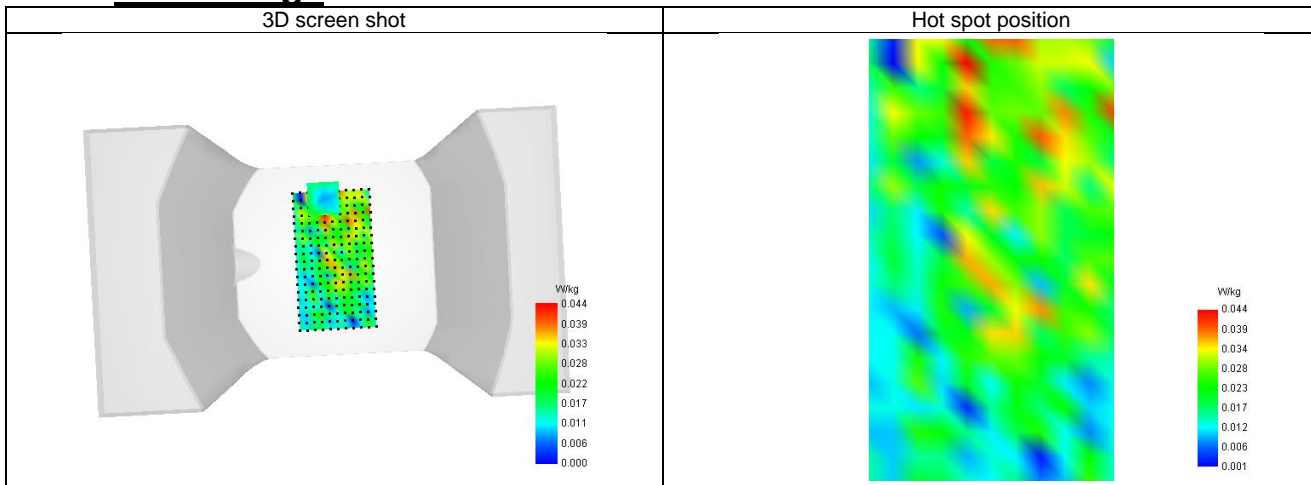
SAR 10g (W/Kg)	0.028
SAR 1g (W/Kg)	0.045
Variation (%)	-2.250
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.147	0.041	0.013	0.015	0.008



F. 3D Image



11-Head with front position in dist. 0mm on Channel 18700 in LTE band 2

SAR Measurement at LTE band 2 (Cheek, Right)

Date of measurement: 19/1/2024

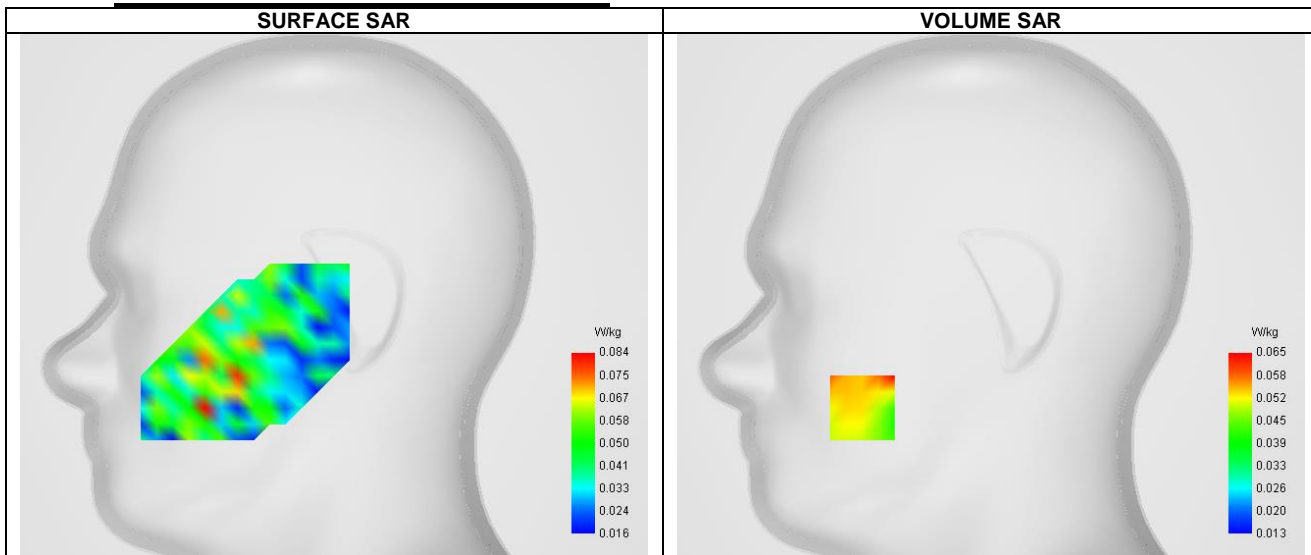
A. Experimental conditions.

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	Lower (18700)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



Maximum location: X=-64.00, Y=-56.00 ; SAR Peak: 0.11 W/kg

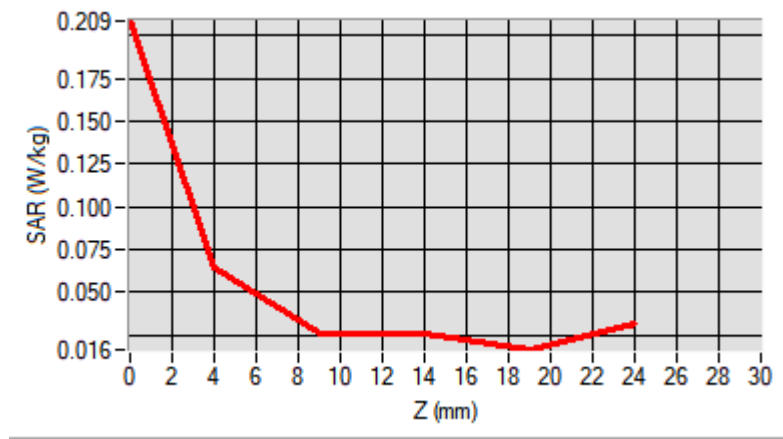
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.064
Variation (%)	1.780
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

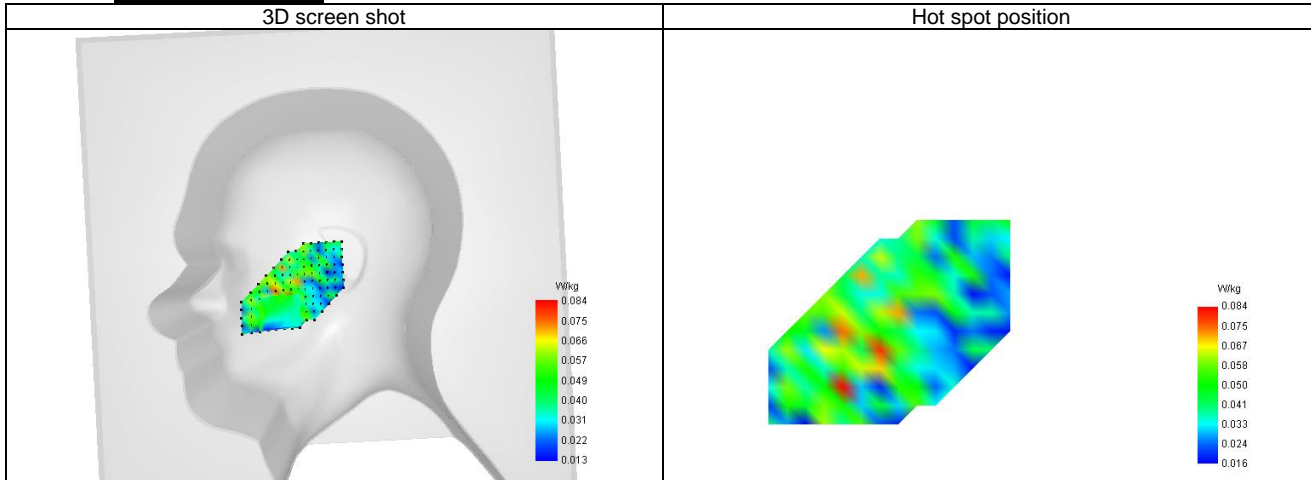
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.209	0.065	0.026	0.026	0.016
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F. 3D Image



12-Body with bottom position in dist. 10mm on Channel 18700 in LTE band 2

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

Date of measurement: 19/1/2024

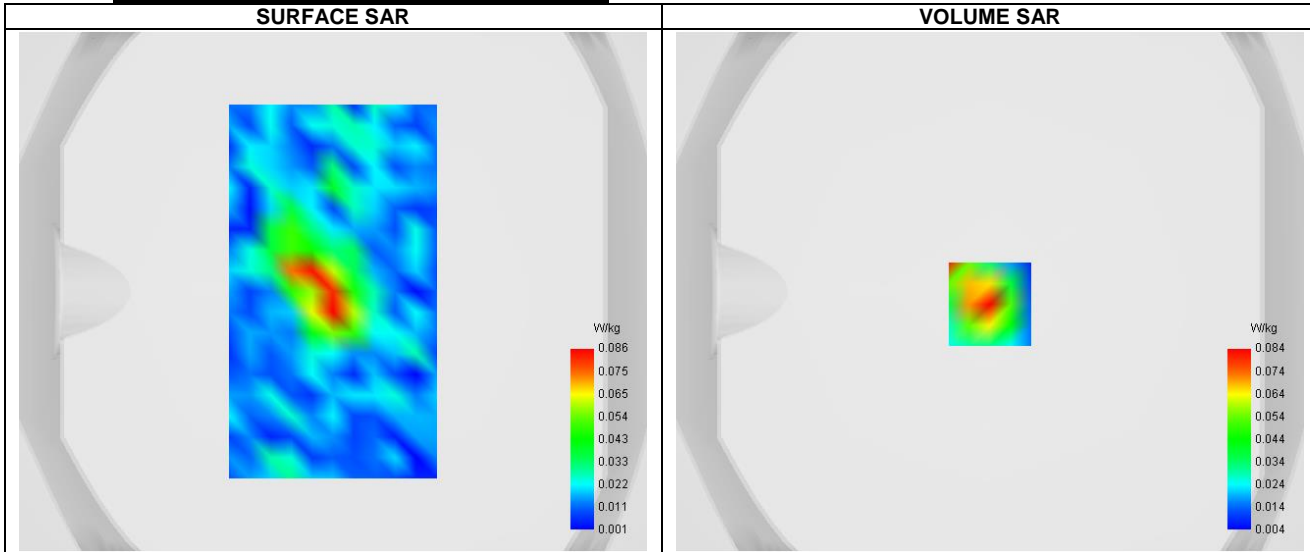
A. Experimental conditions.

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	Lower (18700)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



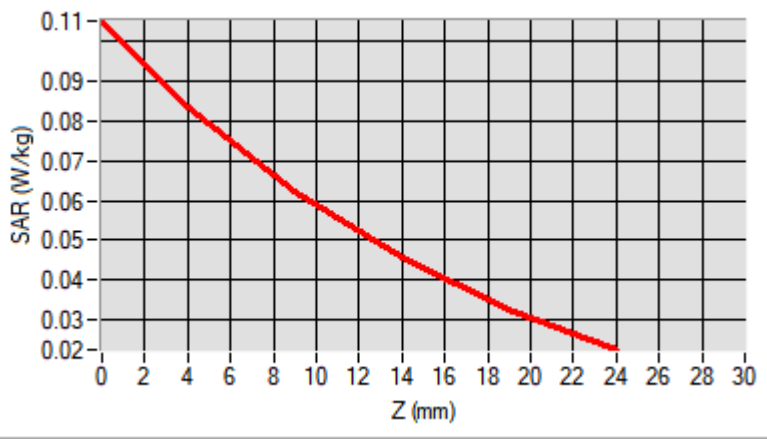
Maximum location: X=0.00, Y=-5.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

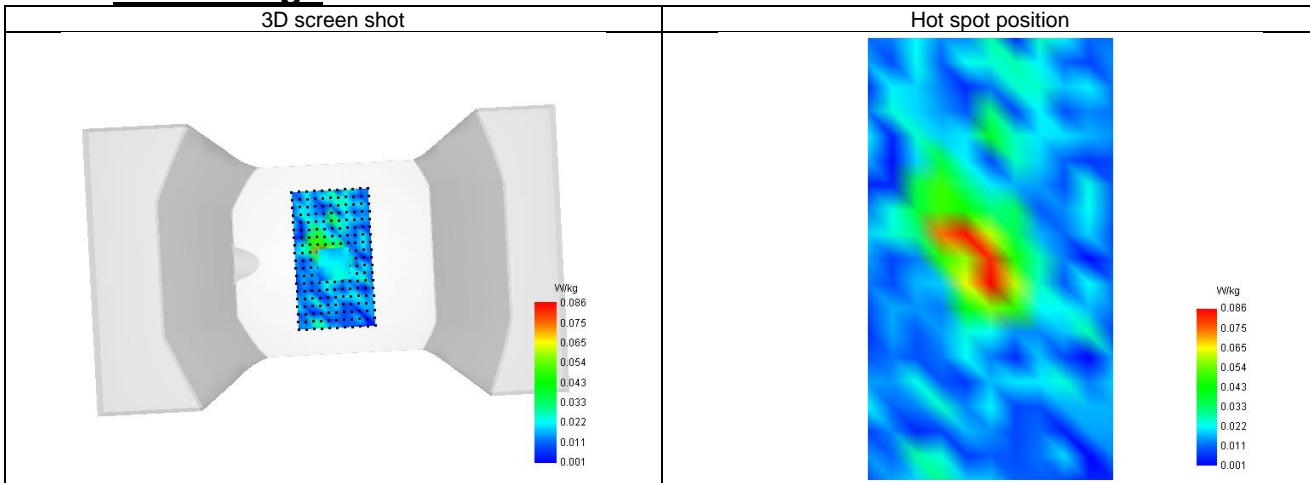
SAR 10g (W/Kg)	0.049
SAR 1g (W/Kg)	0.078
Variation (%)	-2.460
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.105	0.084	0.062	0.046	0.033



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: 18/1/2024

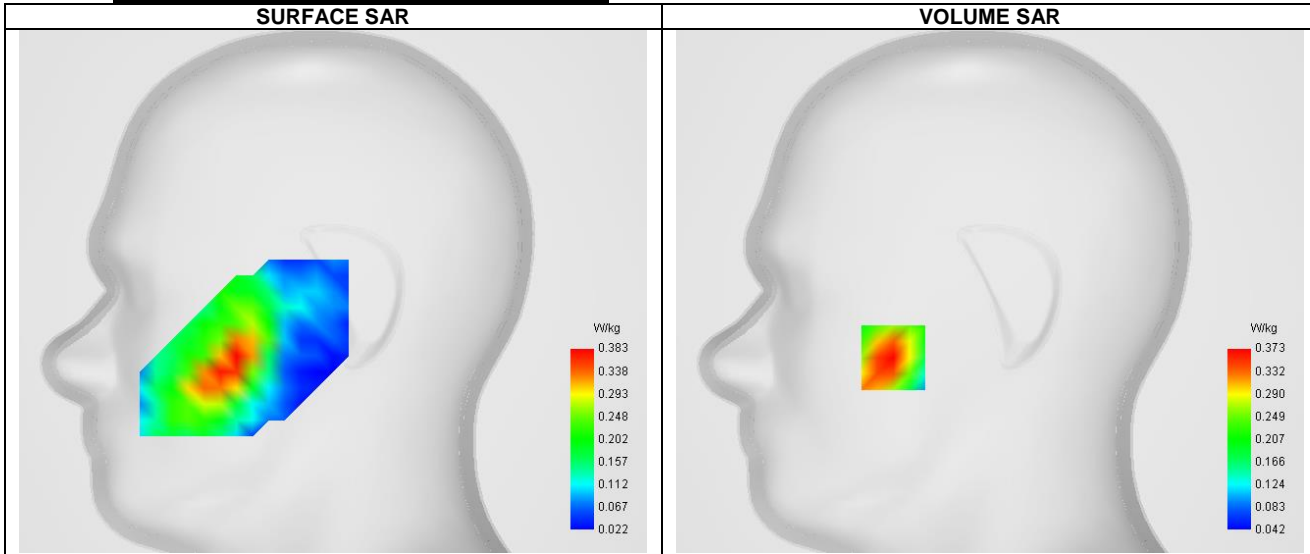
A. Experimental conditions.

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	50
RB size	1

B. Permittivity

Frequency (MHz)	1745.090
Relative permittivity (real part)	39.995
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

C. SAR Surface and Volume



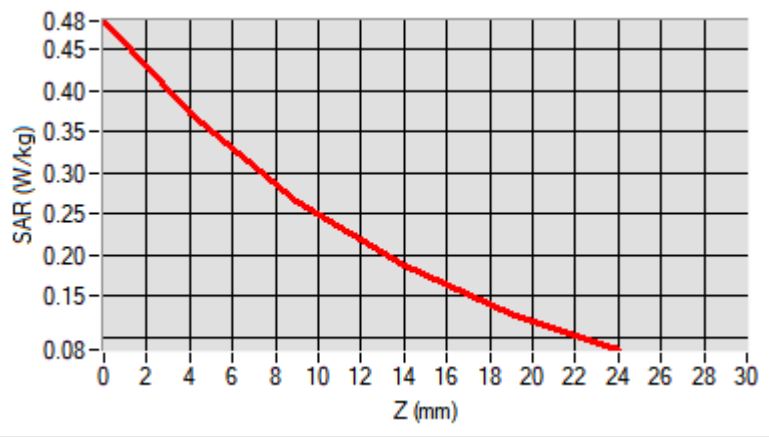
Maximum location: X=-48.00, Y=-33.00 ; SAR Peak: 0.50 W/kg

D. SAR 1g & 10g

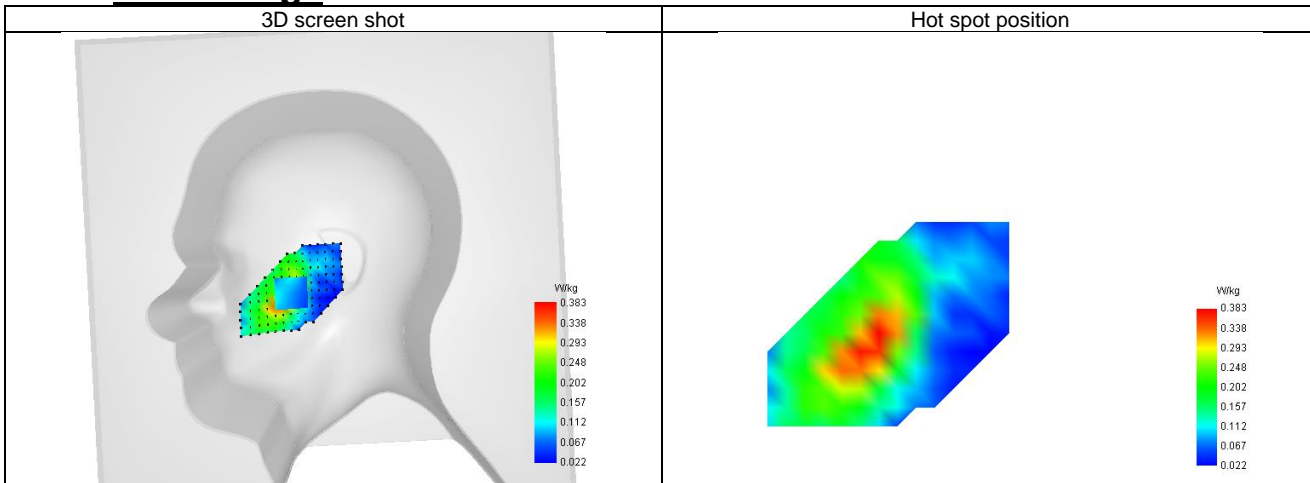
SAR 10g (W/Kg)	0.241
SAR 1g (W/Kg)	0.372
Variation (%)	3.370
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.484	0.373	0.265	0.186	0.128



F. 3D Image



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

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

Date of measurement: 18/1/2024

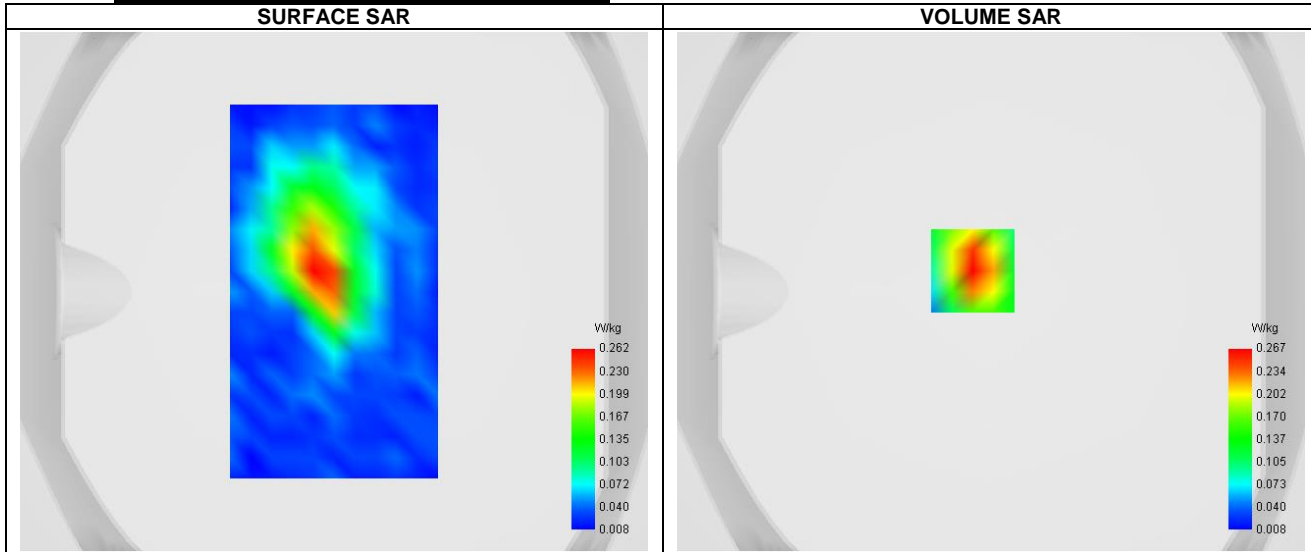
A. Experimental conditions.

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	50
RB size	1

B. Permittivity

Frequency (MHz)	1745.090
Relative permittivity (real part)	39.995
Relative permittivity (imaginary part)	14.397
Conductivity (S/m)	1.342

C. SAR Surface and Volume



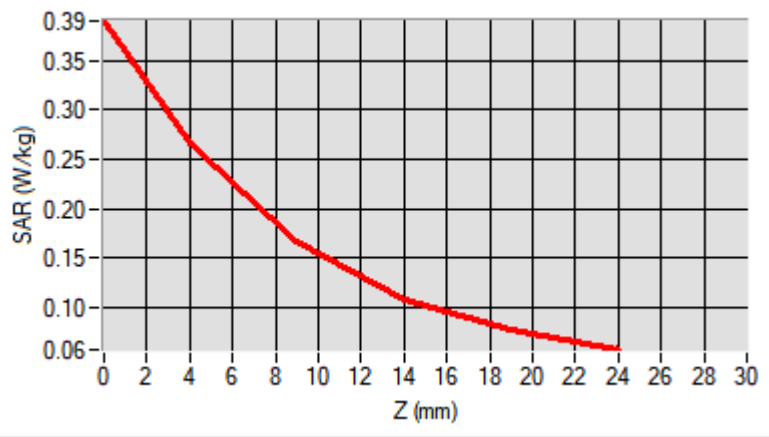
Maximum location: X=-7.00, Y=8.00 ; SAR Peak: 0.39 W/kg

D. SAR 1g & 10g

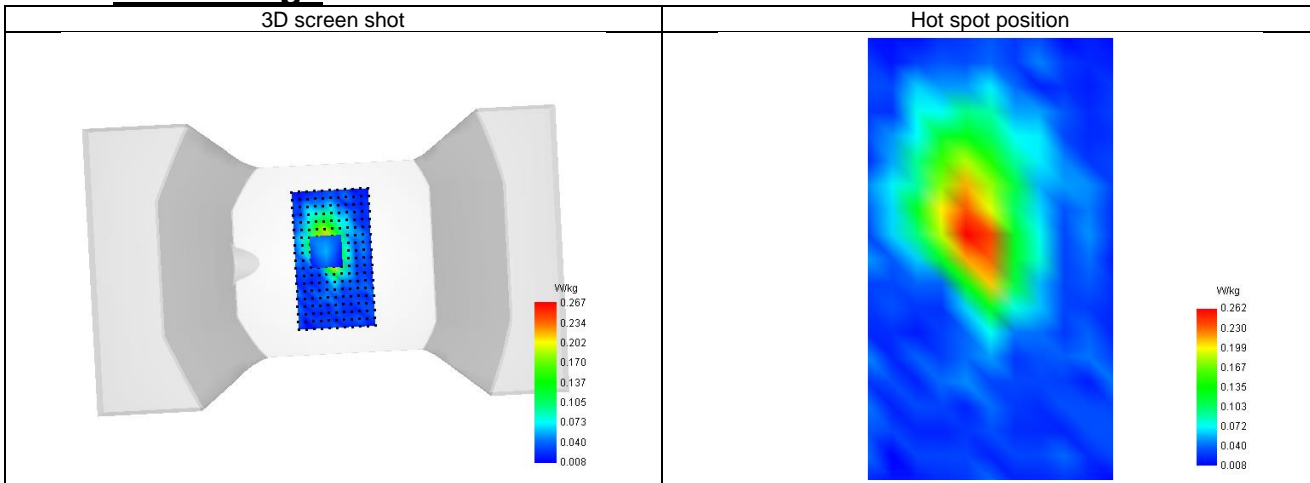
SAR 10g (W/Kg)	0.152
SAR 1g (W/Kg)	0.261
Variation (%)	0.220
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.390	0.267	0.166	0.109	0.077



F. 3D Image



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

SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 17/1/2024

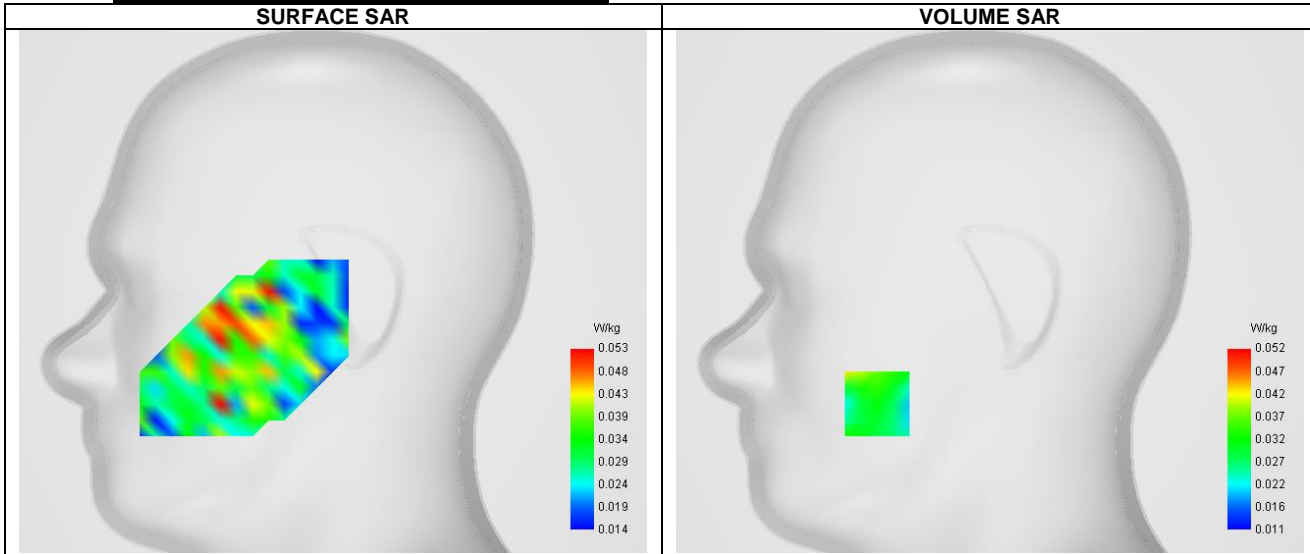
A. Experimental conditions.

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	LTE band 5
Channels	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	829.090
Relative permittivity (real part)	41.437
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

C. SAR Surface and Volume

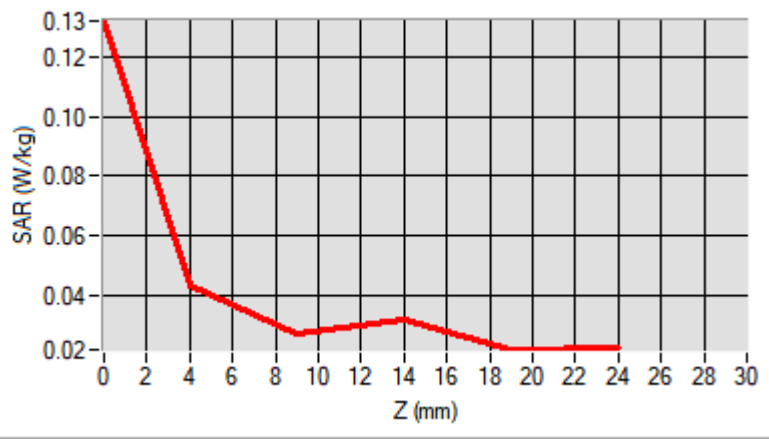


D. SAR 1g & 10g

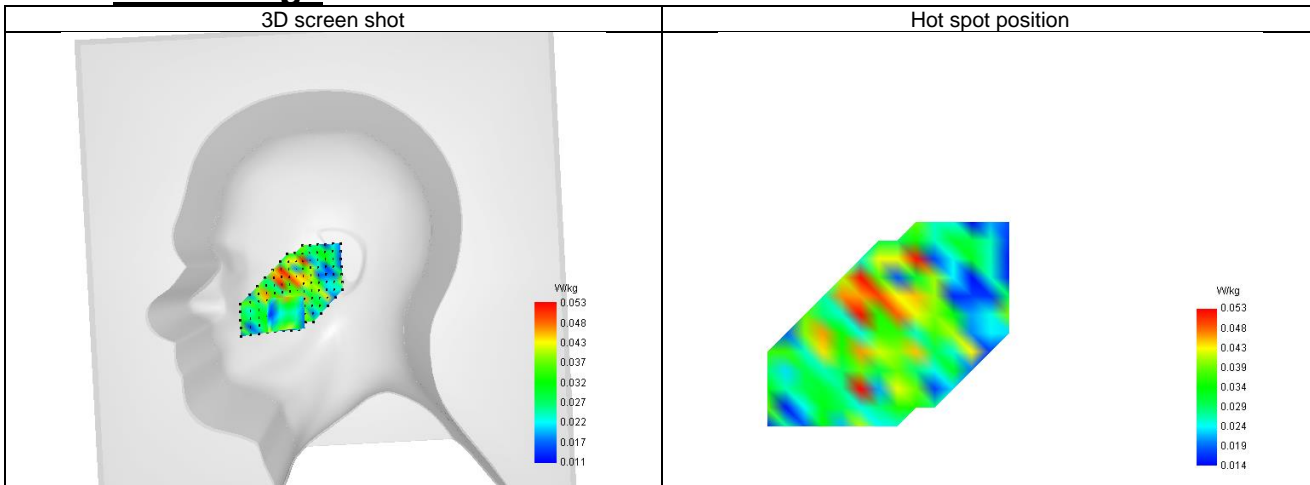
SAR 10g (W/Kg)	0.038
SAR 1g (W/Kg)	0.043
Variation (%)	1.590
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.132	0.043	0.027	0.032	0.021



F. 3D Image



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

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

Date of measurement: 17/1/2024

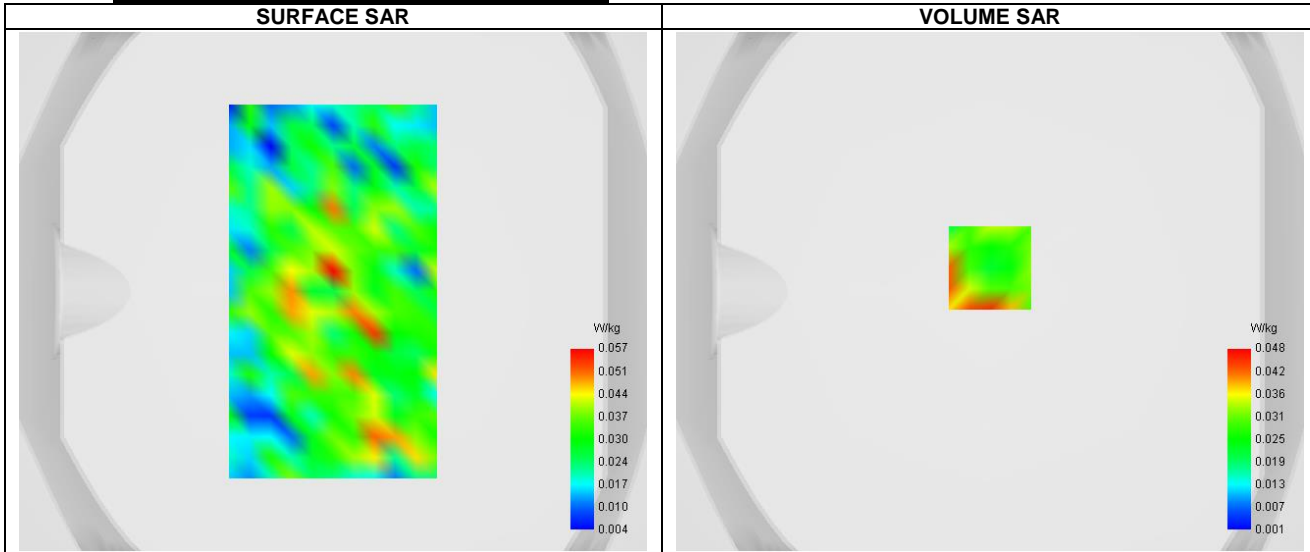
A. Experimental conditions.

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	Lower (20450)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	829.090
Relative permittivity (real part)	41.437
Relative permittivity (imaginary part)	19.627
Conductivity (S/m)	0.869

C. SAR Surface and Volume



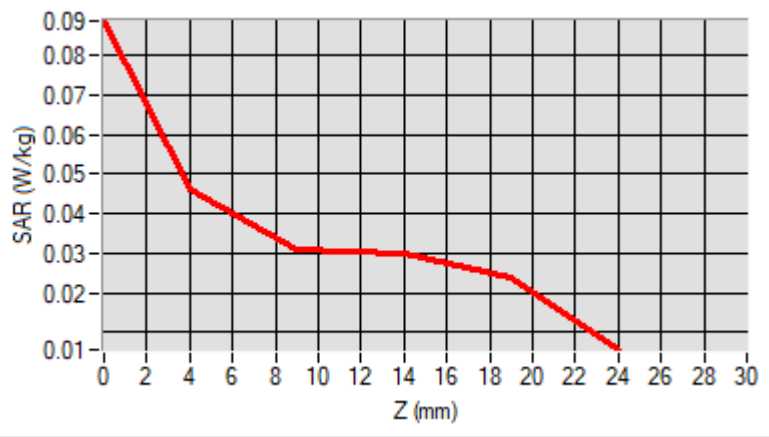
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.04 W/kg

D. SAR 1g & 10g

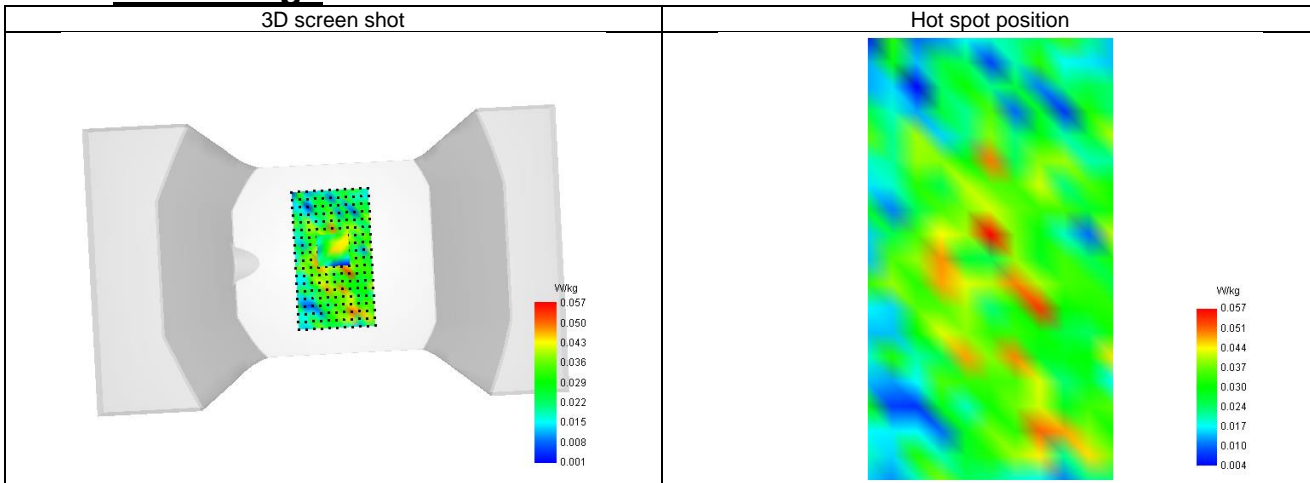
SAR 10g (W/Kg)	0.039
SAR 1g (W/Kg)	0.041
Variation (%)	-1.660
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.089	0.046	0.031	0.030	0.024



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: 16/1/2024

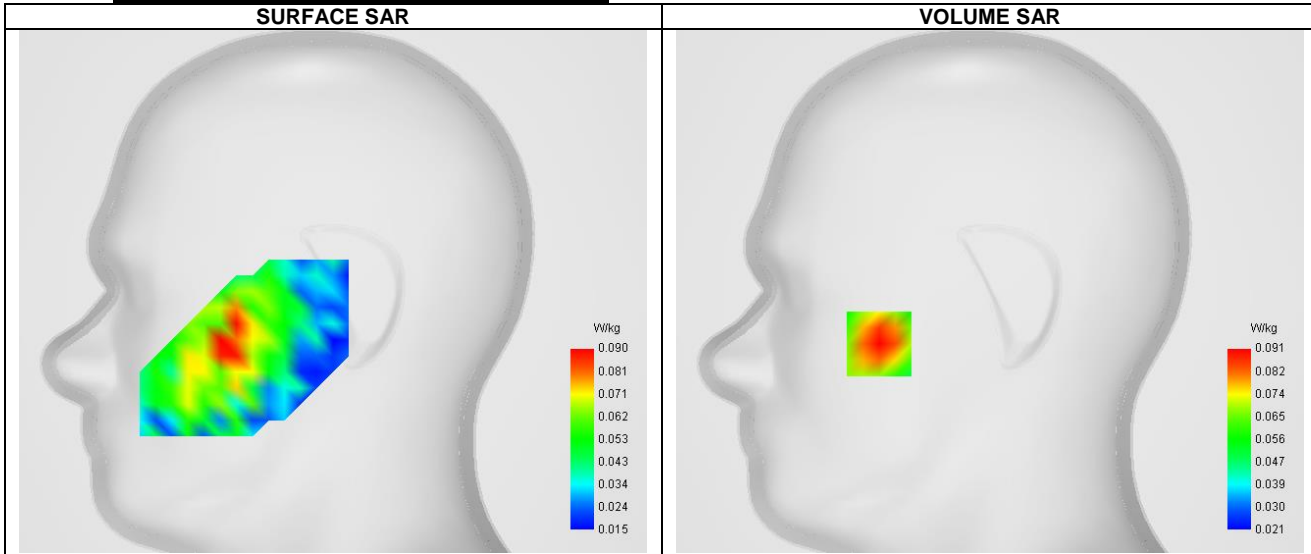
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	25
RB size	1

B. Permittivity

Frequency (MHz)	707.590
Relative permittivity (real part)	41.995
Relative permittivity (imaginary part)	22.443
Conductivity (S/m)	0.855

C. SAR Surface and Volume



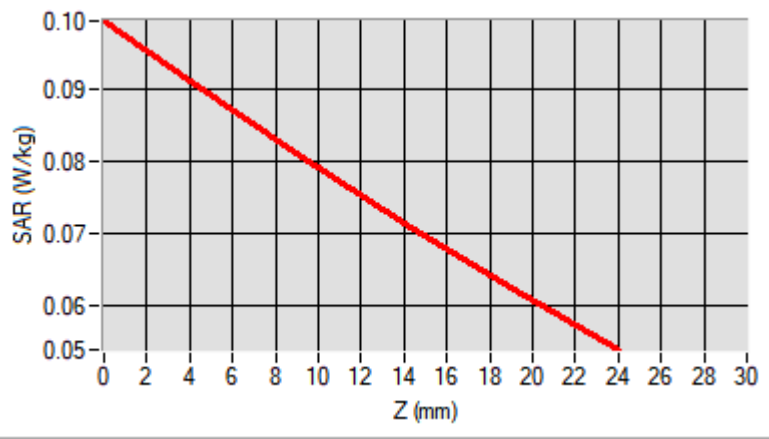
Maximum location: X=-55.00, Y=-26.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

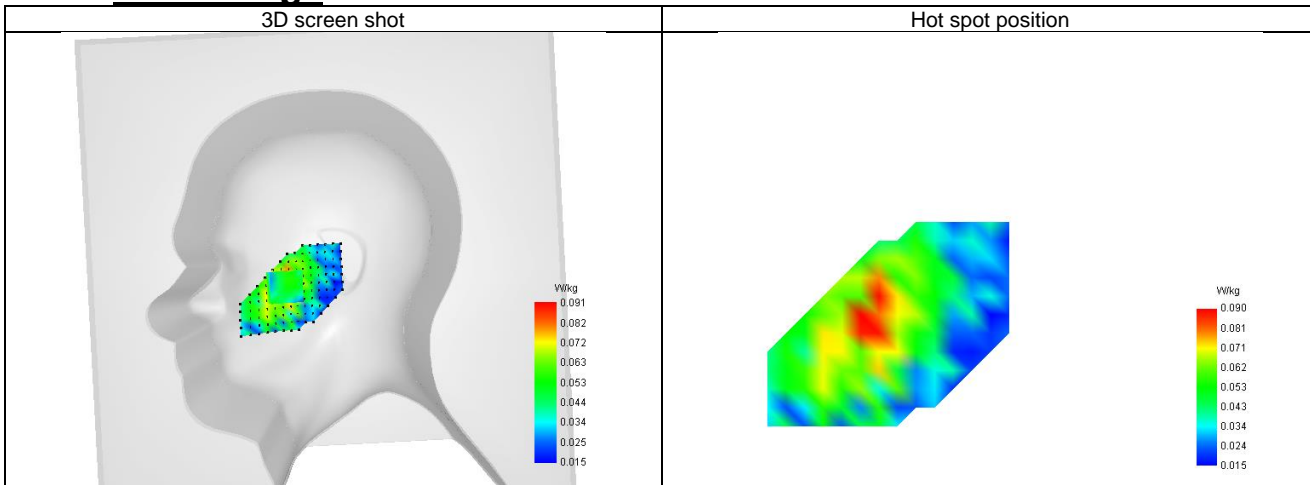
SAR 10g (W/Kg)	0.075
SAR 1g (W/Kg)	0.093
Variation (%)	-1.560
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.099	0.091	0.081	0.072	0.063



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: 16/1/2024

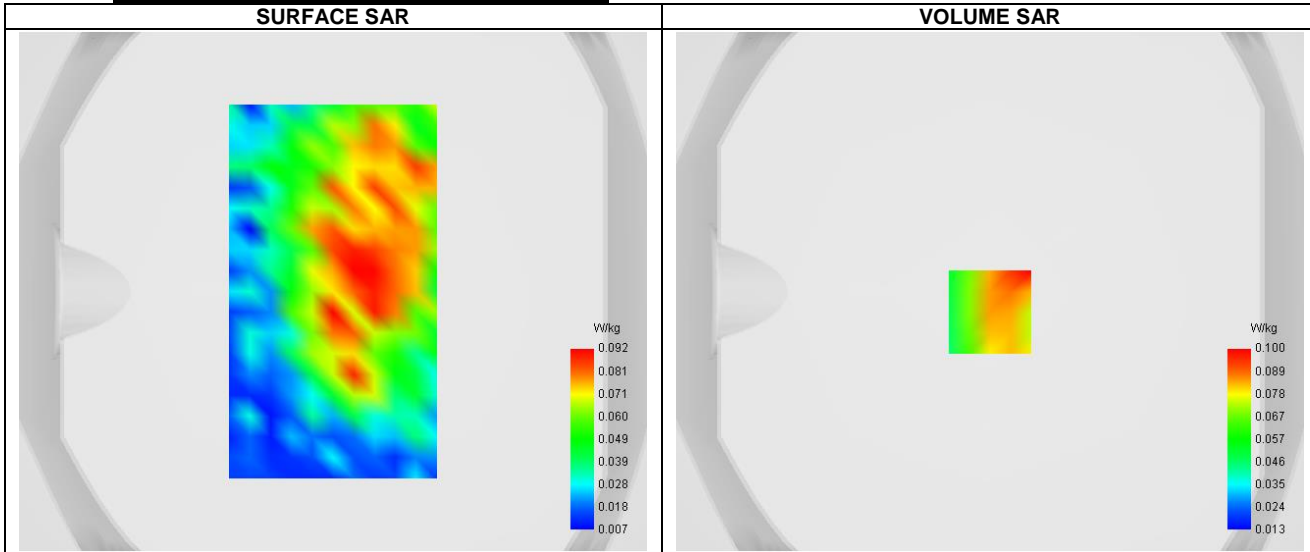
A. Experimental conditions.

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	25
RB size	1

B. Permittivity

Frequency (MHz)	707.590
Relative permittivity (real part)	43.666
Relative permittivity (imaginary part)	24.256
Conductivity (S/m)	0.954

C. SAR Surface and Volume



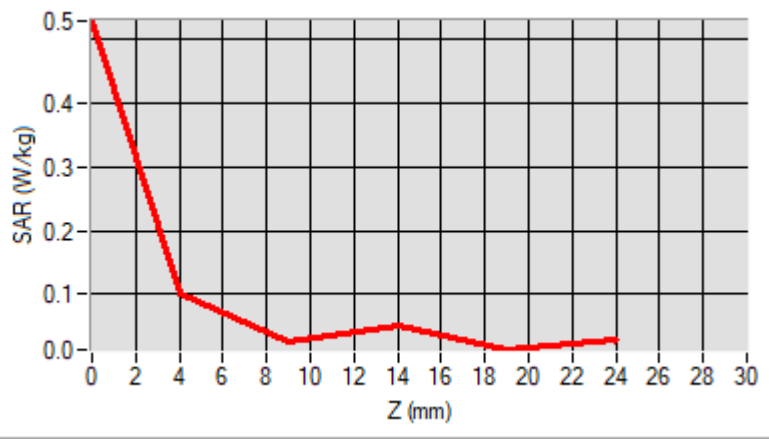
Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 0.14 W/kg

D. SAR 1g & 10g

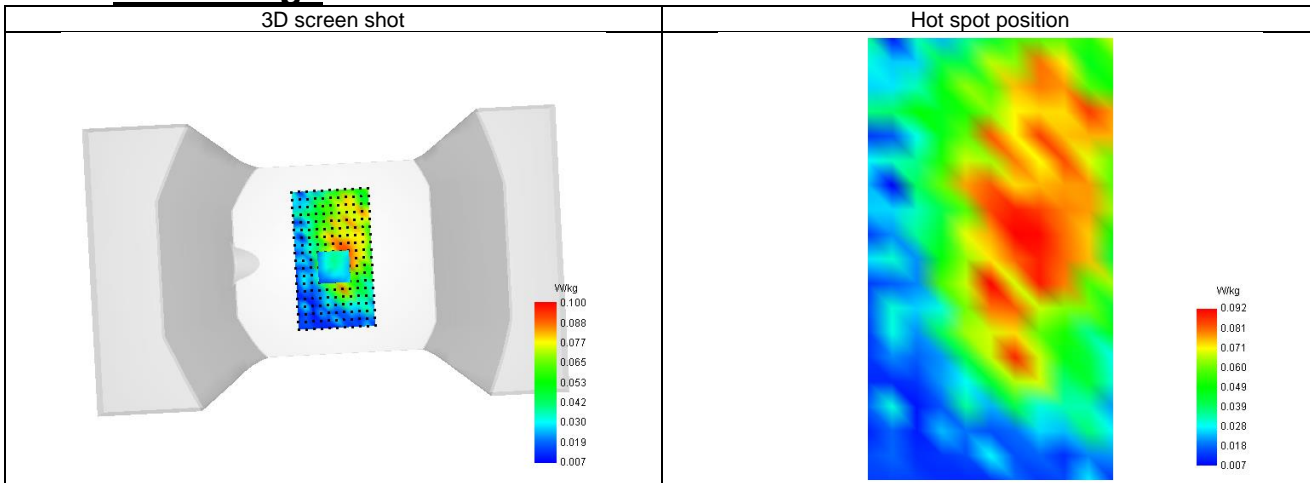
SAR 10g (W/Kg)	0.064
SAR 1g (W/Kg)	0.094
Variation (%)	-4.870
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.529	0.100	0.025	0.052	0.013



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: 16/1/2024

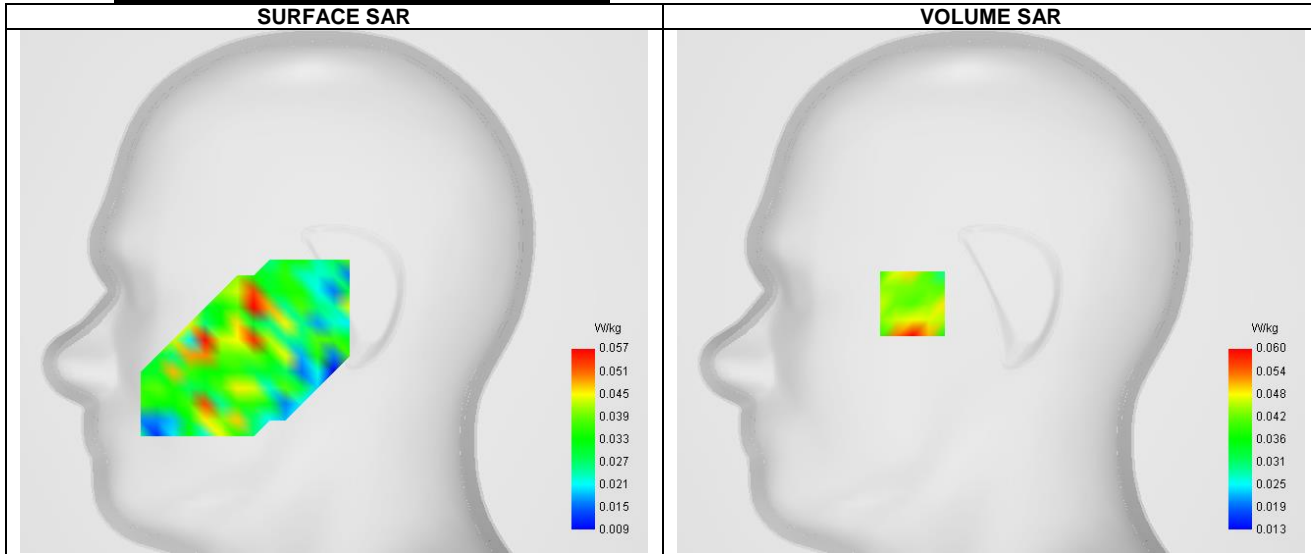
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	1.65
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 13
Channels	Middle (23230)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	782.090
Relative permittivity (real part)	41.653
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

C. SAR Surface and Volume



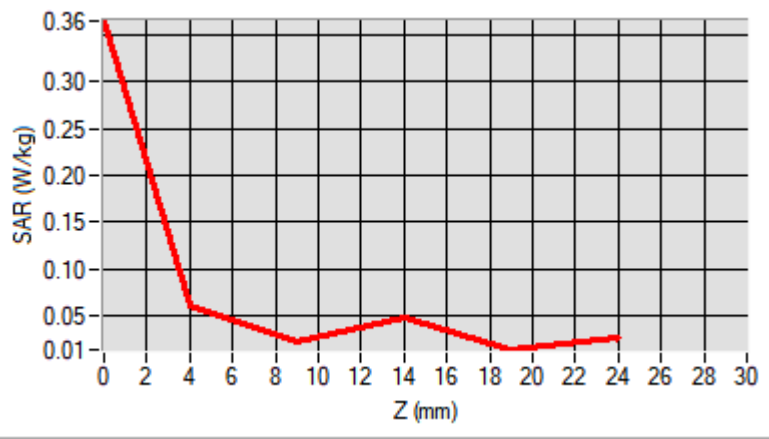
Maximum location: X=-39.00, Y=-6.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

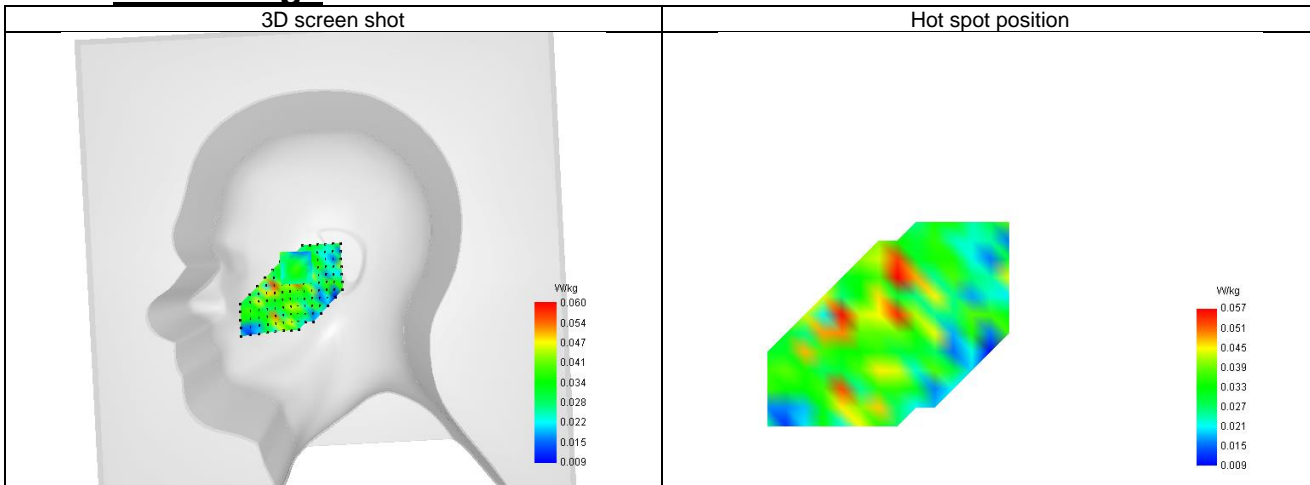
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.061
Variation (%)	4.650
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.365	0.060	0.022	0.047	0.013



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: 16/1/2024

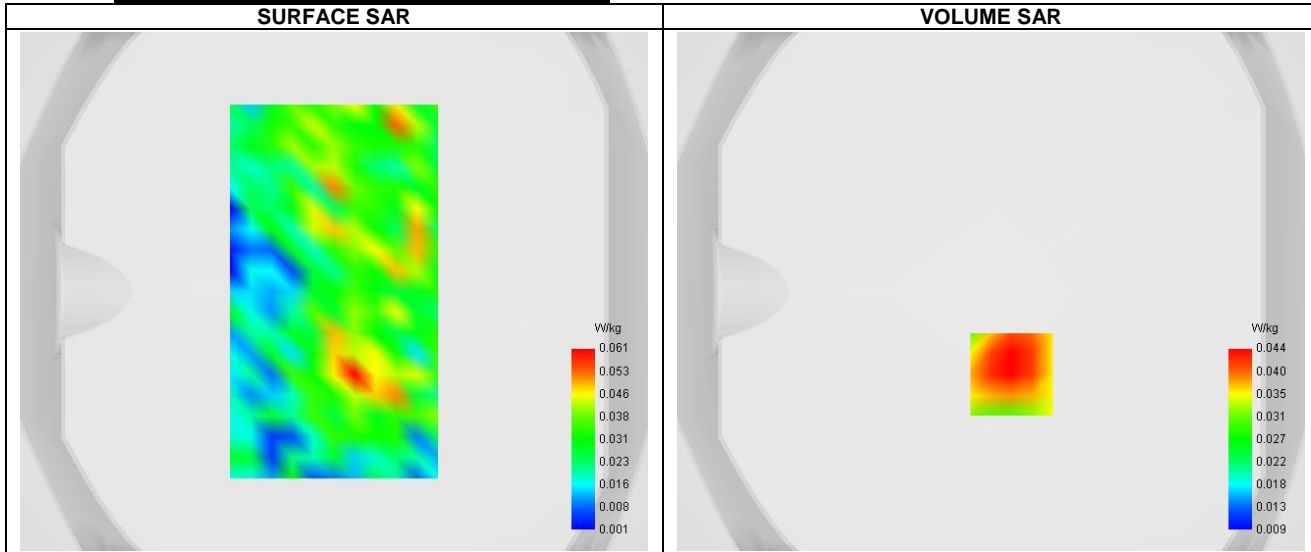
A. Experimental conditions.

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	25
RB size	1

B. Permittivity

Frequency (MHz)	782.090
Relative permittivity (real part)	41.653
Relative permittivity (imaginary part)	20.716
Conductivity (S/m)	0.864

C. SAR Surface and Volume



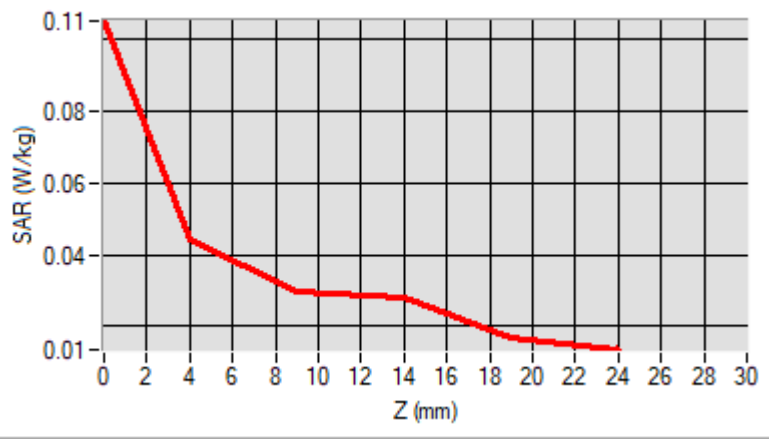
Maximum location: X=8.00, Y=-32.00 ; SAR Peak: 0.06 W/kg

D. SAR 1g & 10g

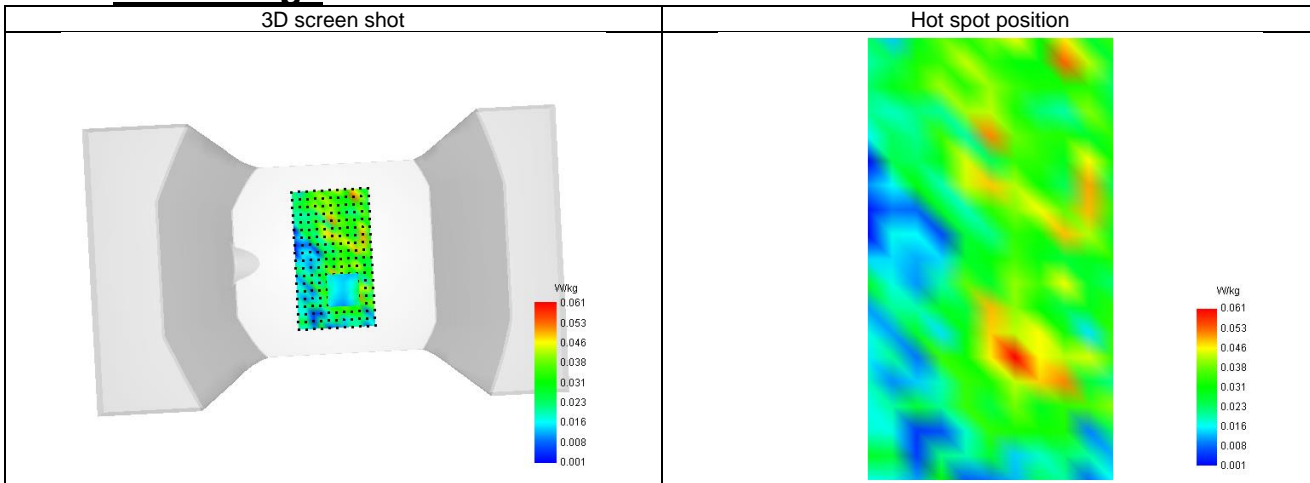
SAR 10g (W/Kg)	0.033
SAR 1g (W/Kg)	0.048
Variation (%)	1.370
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.105	0.044	0.030	0.028	0.017



F. 3D Image



21-Head with front position in dist. 0mm on Channel 23800 in LTE band 17

SAR Measurement at LTE band 17 (Cheek, Right)

Date of measurement: 16/1/2024

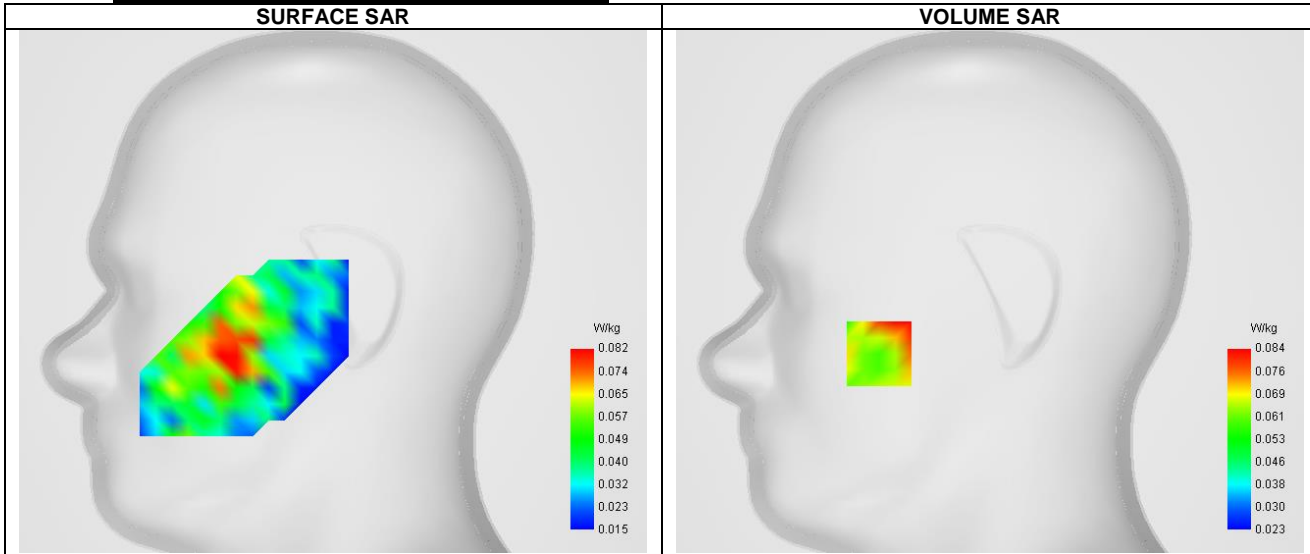
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Higher (23800)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	711.090
Relative permittivity (real part)	41.979
Relative permittivity (imaginary part)	22.362
Conductivity (S/m)	0.855

C. SAR Surface and Volume



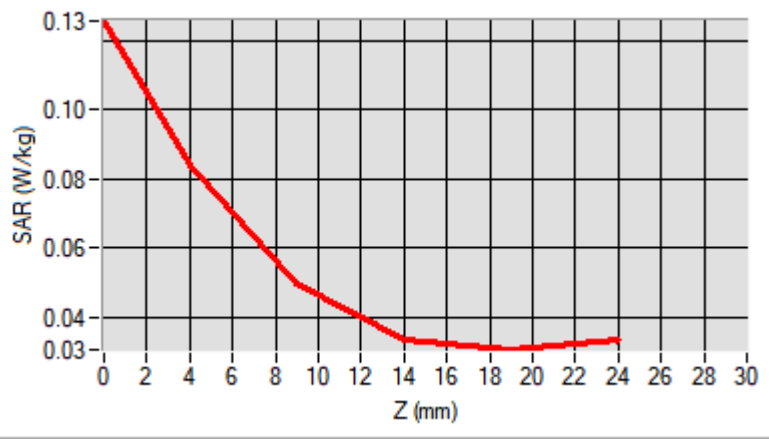
Maximum location: X=-55.00, Y=-31.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

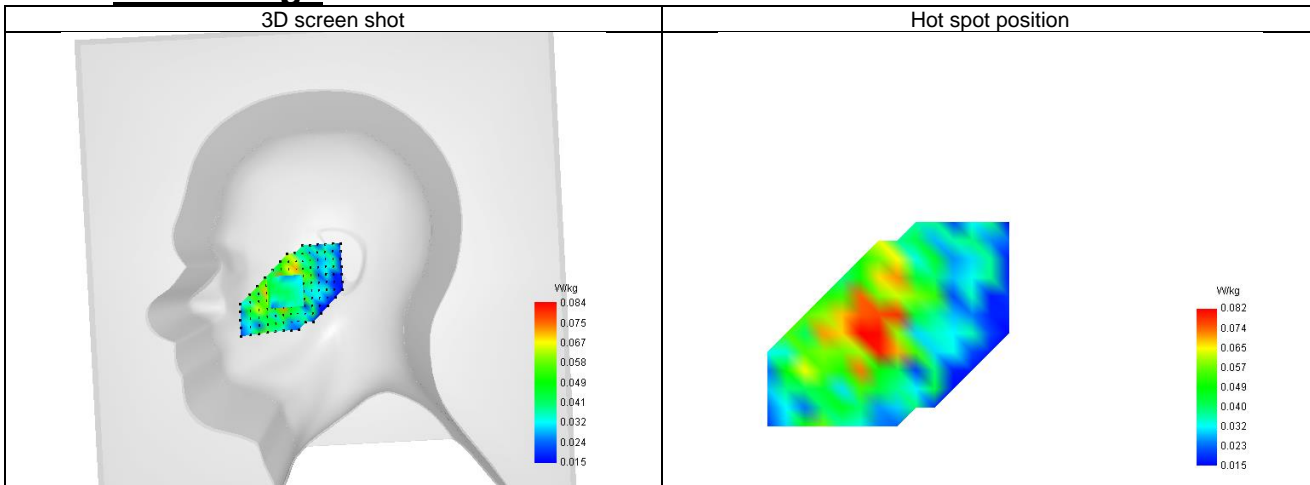
SAR 10g (W/Kg)	0.069
SAR 1g (W/Kg)	0.090
Variation (%)	-1.130
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.126	0.084	0.050	0.033	0.030



F. 3D Image



22-Body with back position in dist. 10mm on Channel 23800 in LTE band 17

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

Date of measurement: 16/1/2024

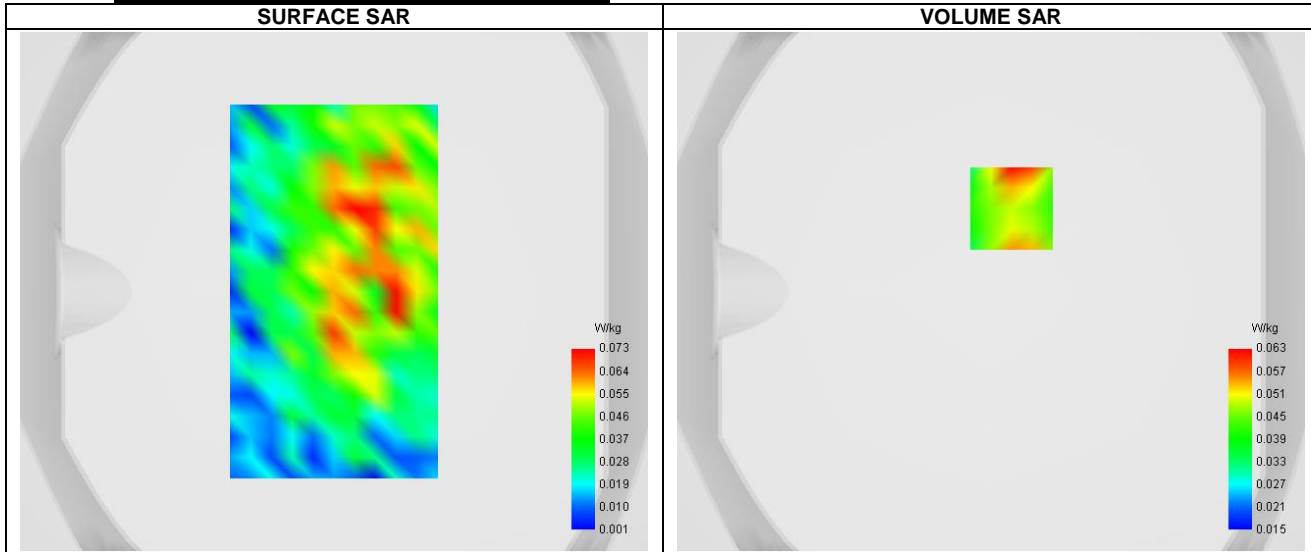
A. Experimental conditions.

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	Higher (23800)
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	25
RB size	1

B. Permittivity

Frequency (MHz)	711.090
Relative permittivity (real part)	41.979
Relative permittivity (imaginary part)	22.362
Conductivity (S/m)	0.855

C. SAR Surface and Volume



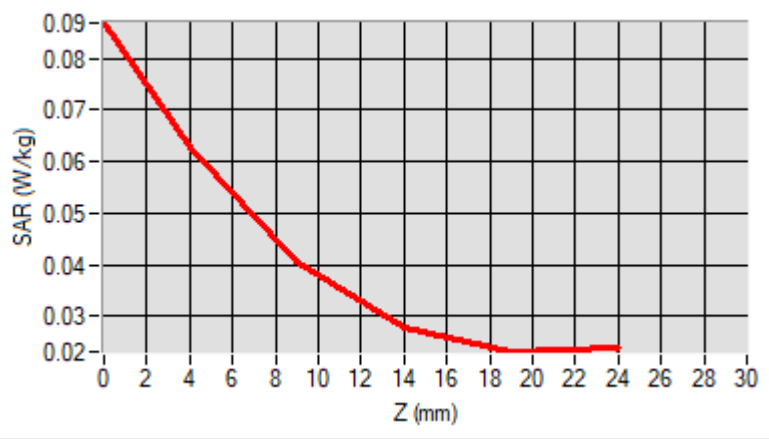
Maximum location: X=8.00, Y=32.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

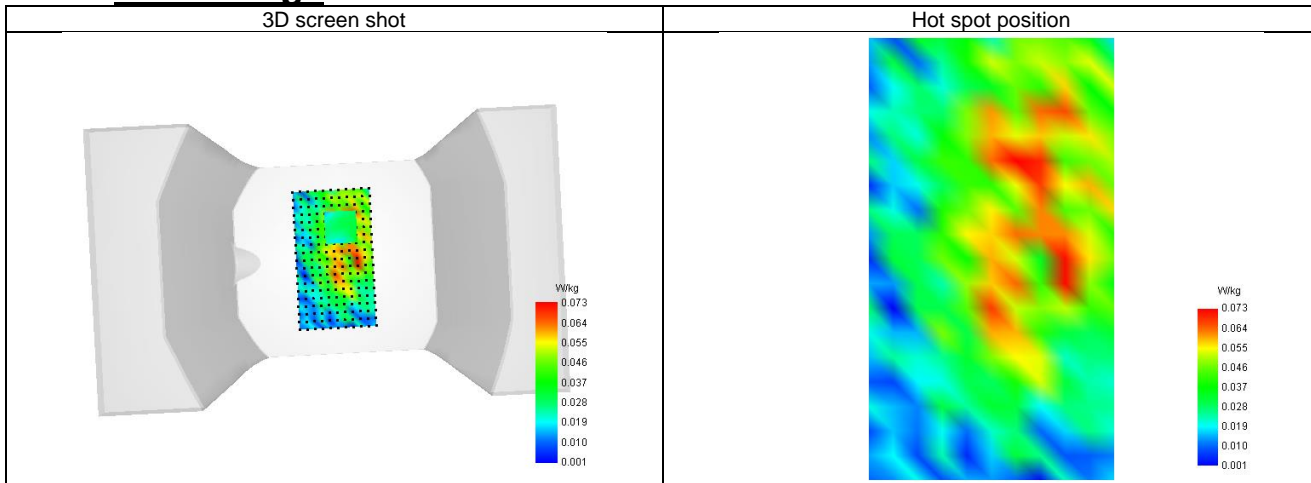
SAR 10g (W/Kg)	0.050
SAR 1g (W/Kg)	0.062
Variation (%)	-0.710
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.087	0.063	0.041	0.028	0.023



F. 3D Image



23-Head with front position in dist. 0mm on Channel 26140 in LTE band 25

SAR Measurement at LTE band 25 (Cheek, Right)

Date of measurement: 19/1/2024

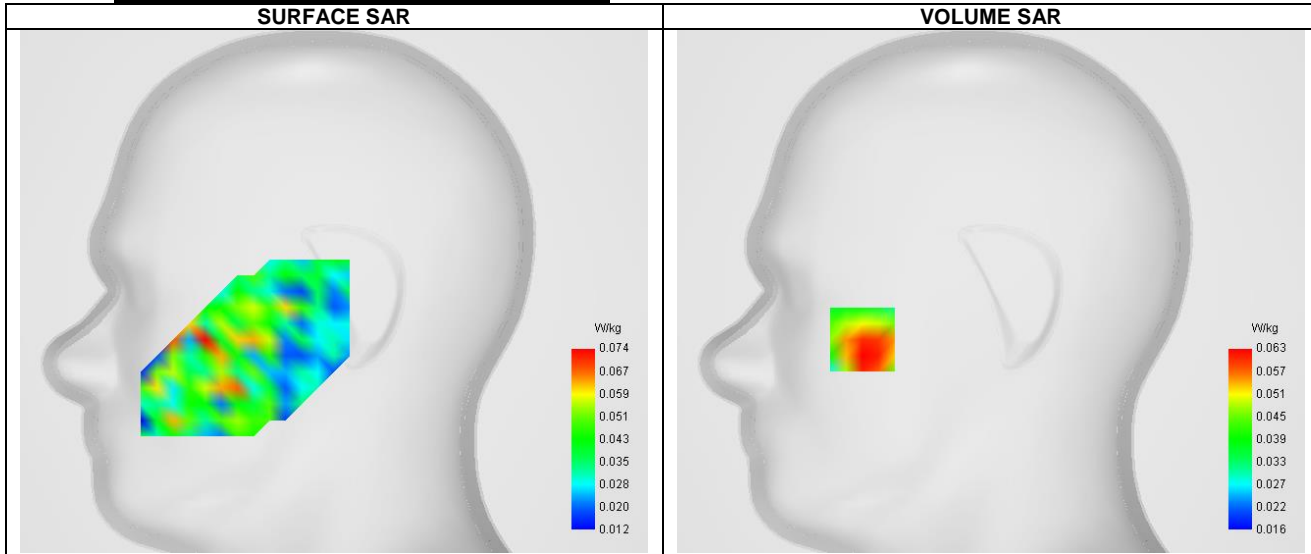
A. Experimental conditions.

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	LTE band 25
Channels	Lower (26140)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



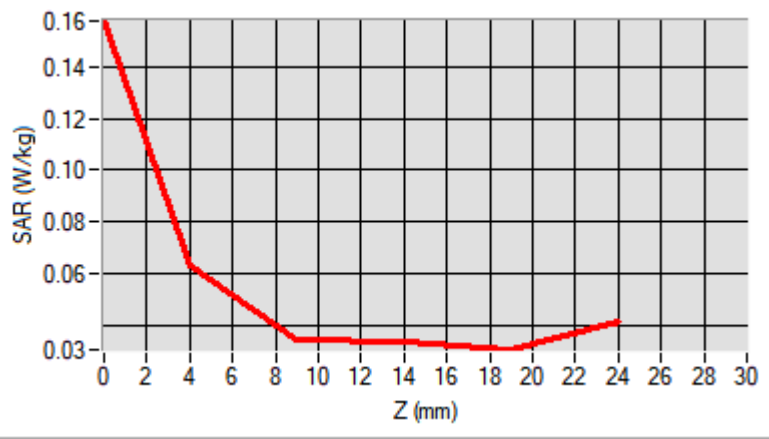
Maximum location: X=-64.00, Y=-24.00 ; SAR Peak: 0.11 W/kg

D. SAR 1g & 10g

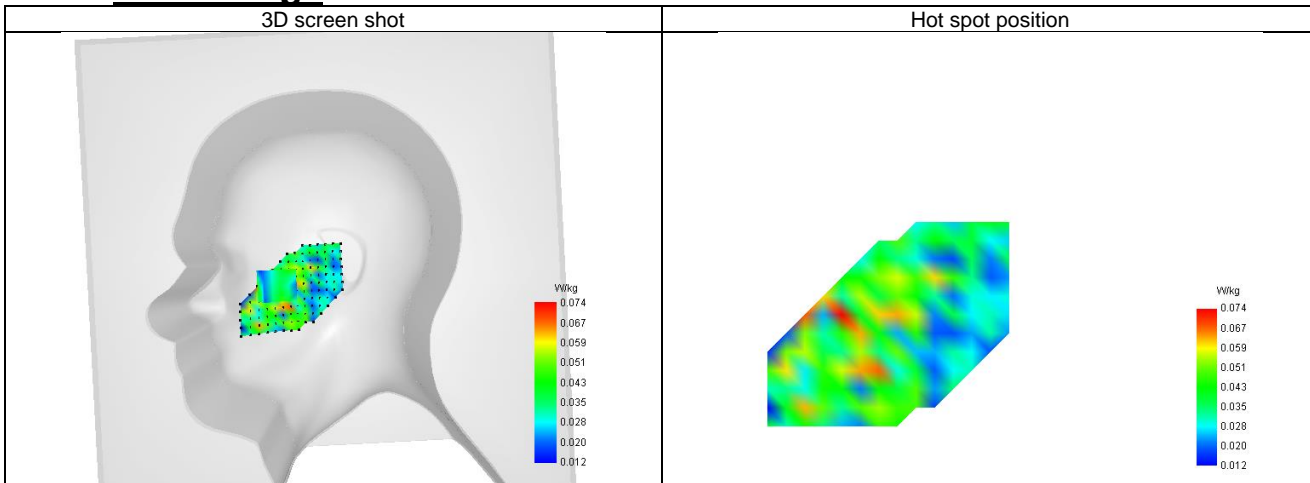
SAR 10g (W/Kg)	0.047
SAR 1g (W/Kg)	0.068
Variation (%)	0.700
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.158	0.063	0.034	0.034	0.030



F. 3D Image



24-Body with bottom position in dist. 10mm on Channel 26140 in LTE band 25

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

Date of measurement: 19/1/2024

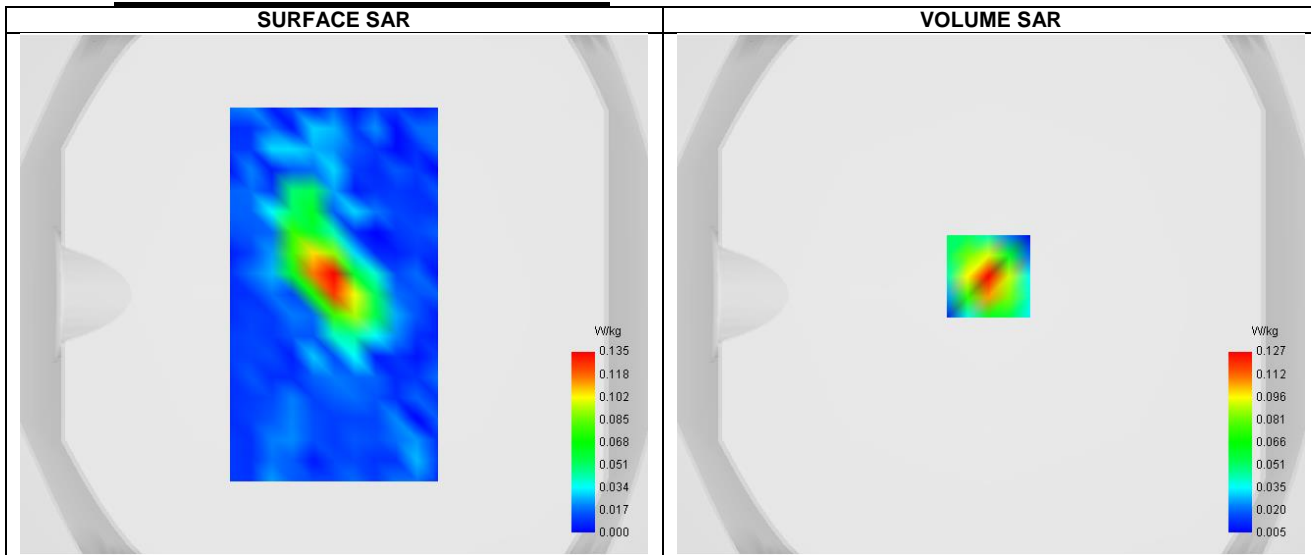
A. Experimental conditions.

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 25
Channels	Lower (26140)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1860.090
Relative permittivity (real part)	39.892
Relative permittivity (imaginary part)	13.663
Conductivity (S/m)	1.394

C. SAR Surface and Volume



Maximum location: X=-1.00, Y=7.00 ; SAR Peak: 0.22 W/kg

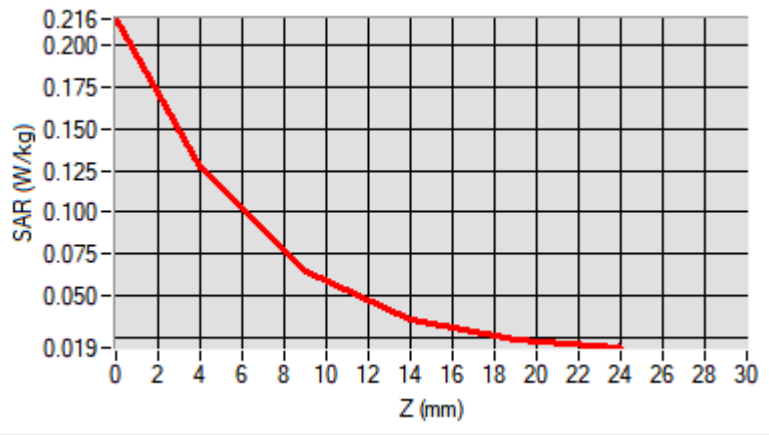
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.059
SAR 1g (W/Kg)	0.121
Variation (%)	-1.210
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

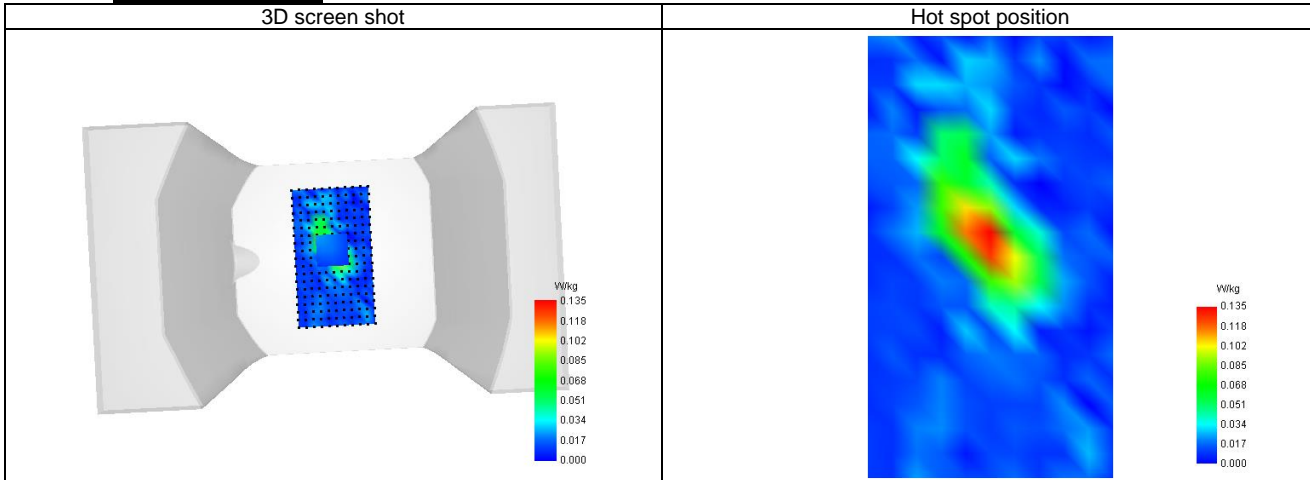
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.216	0.127	0.064	0.035	0.024
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F. 3D Image



25-Head with front position in dist. 0mm on Channel 26765 in LTE band 26

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 17/1/2024

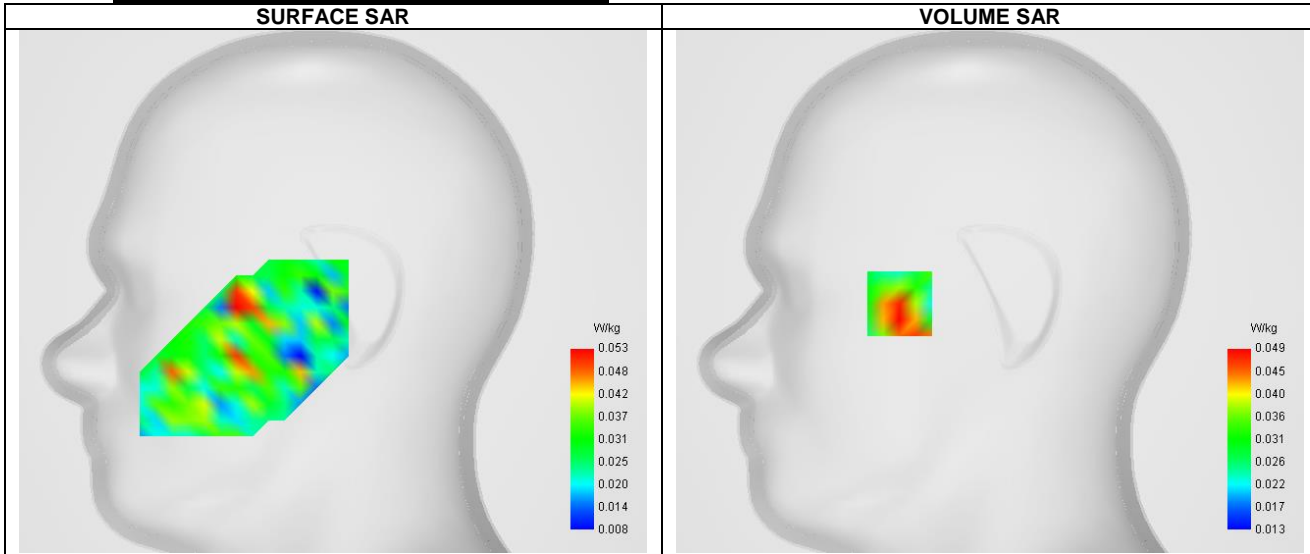
A. Experimental conditions.

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	LTE band 26
Channels	Lower (26765)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

B. Permittivity

Frequency (MHz)	821.680
Relative permittivity (real part)	41.471
Relative permittivity (imaginary part)	19.799
Conductivity (S/m)	0.868

C. SAR Surface and Volume



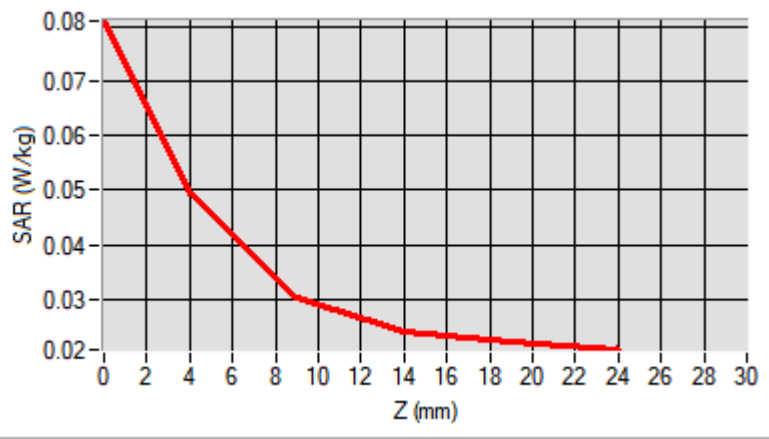
Maximum location: X=-45.00, Y=-6.00 ; SAR Peak: 0.08 W/kg

D. SAR 1g & 10g

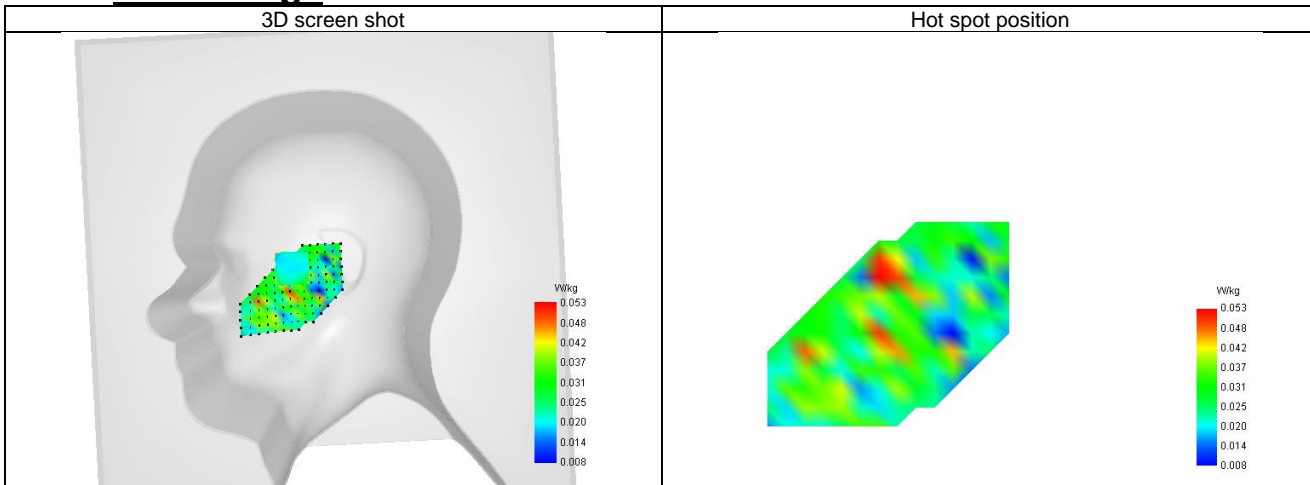
SAR 10g (W/Kg)	0.034
SAR 1g (W/Kg)	0.050
Variation (%)	-2.380
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.081	0.049	0.030	0.024	0.022



F. 3D Image



26-Body with back position in dist. 10mm on Channel 26765 in LTE band 26

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

Date of measurement: 17/1/2024

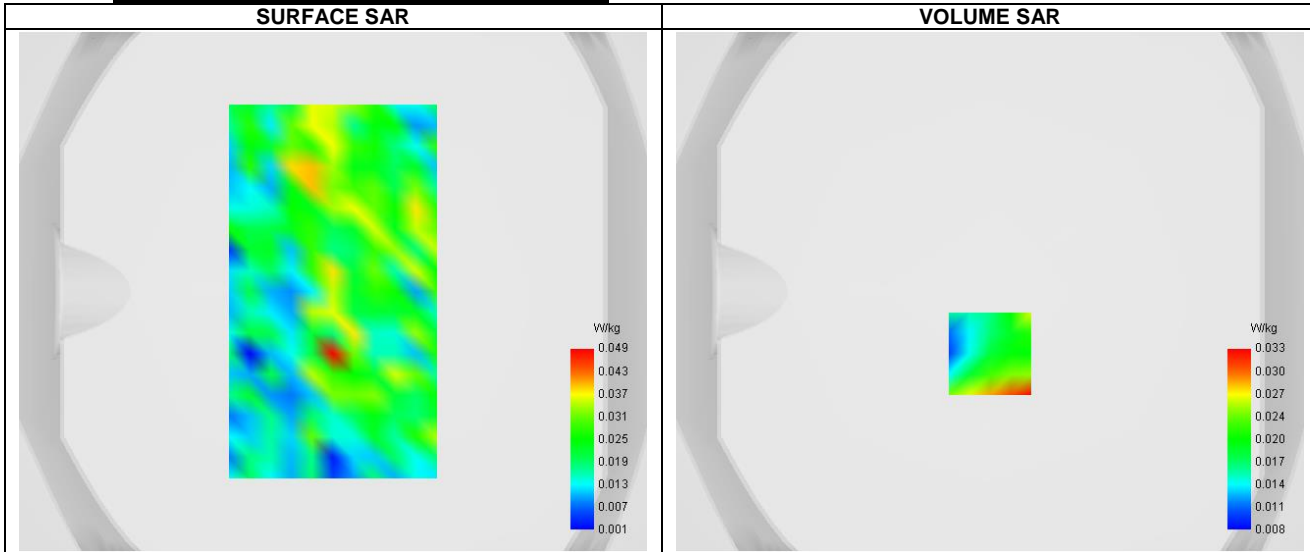
A. Experimental conditions.

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 26
Channels	Lower (26765)
Signal	LTE FDD
Cell Bandwidth	15 Mhz
Modulation	SC-OFDM - QPSK
RB offset	38
RB size	1

B. Permittivity

Frequency (MHz)	821.680
Relative permittivity (real part)	41.471
Relative permittivity (imaginary part)	19.799
Conductivity (S/m)	0.868

C. SAR Surface and Volume



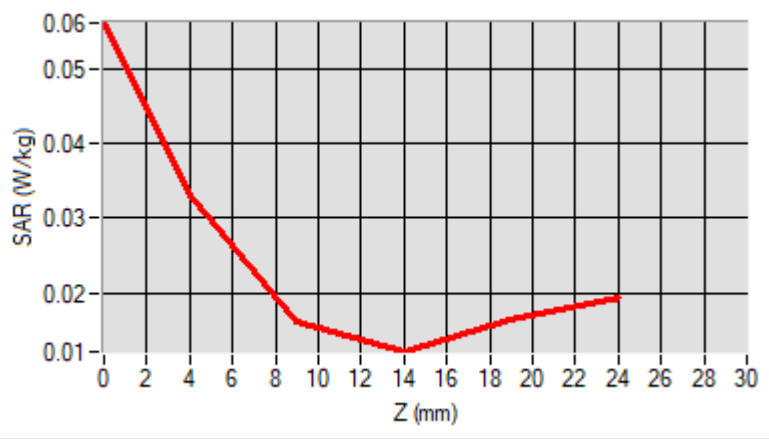
Maximum location: X=0.00, Y=-24.00 ; SAR Peak: 0.06 W/kg

D. SAR 1g & 10g

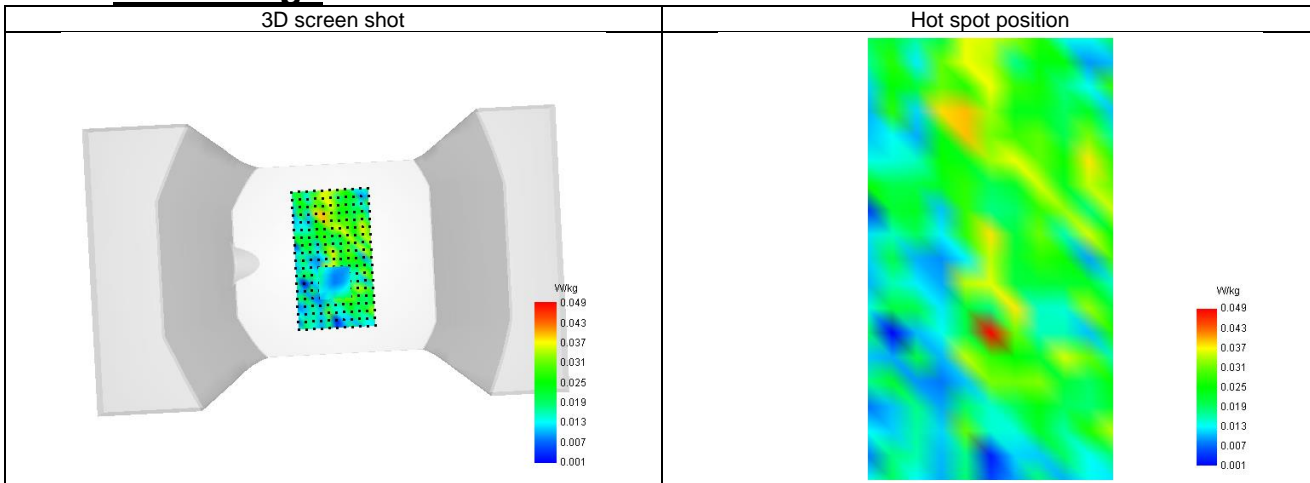
SAR 10g (W/Kg)	0.020
SAR 1g (W/Kg)	0.030
Variation (%)	-1.700
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.056	0.033	0.016	0.012	0.016



F. 3D Image



27-Head with front position in dist. 0mm on Channel 39750 in LTE band 41

SAR Measurement at LTE band 41 (Cheek, Right)

Date of measurement: 22/1/2024

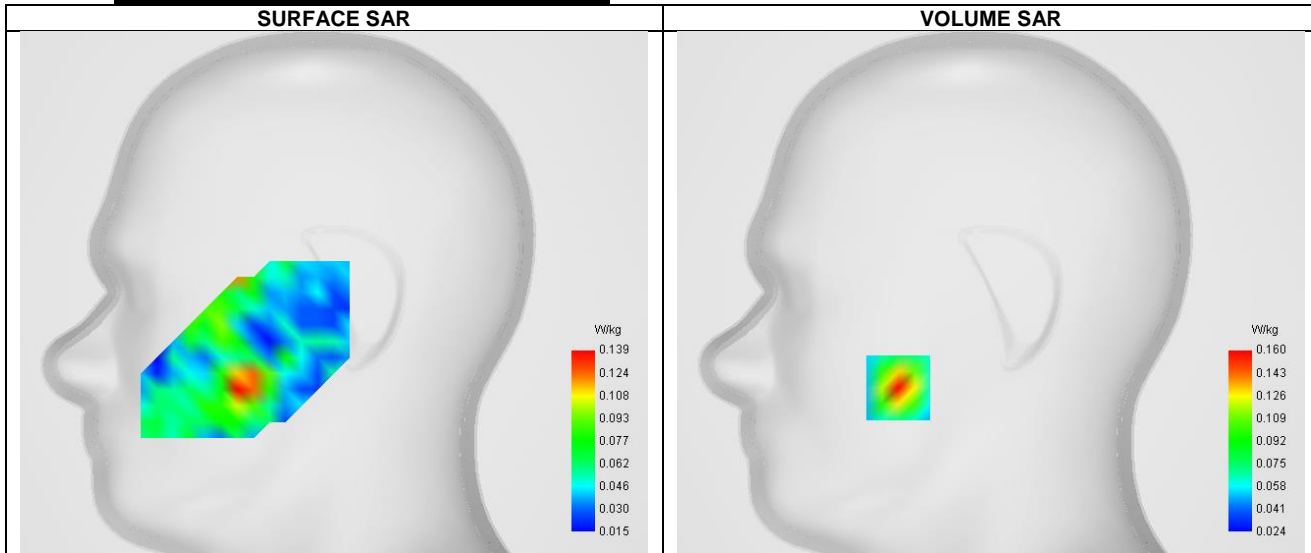
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 41
Channels	Lower (39750)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2506.090
Relative permittivity (real part)	39.005
Relative permittivity (imaginary part)	13.097
Conductivity (S/m)	1.870

C. SAR Surface and Volume



Maximum location: X=-46.00, Y=-47.00 ; SAR Peak: 0.25 W/kg

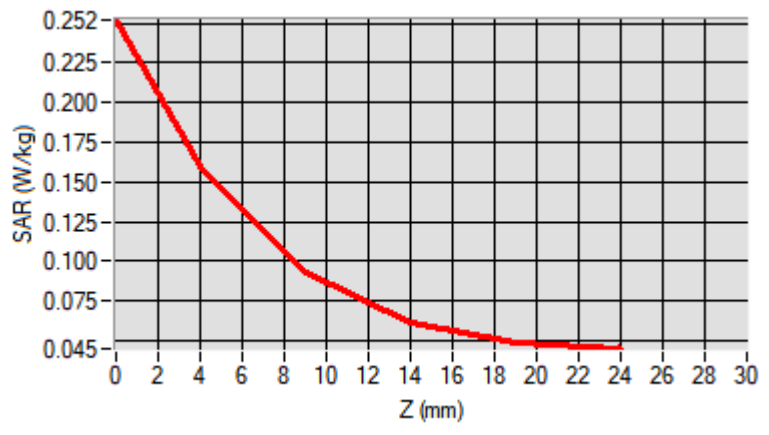
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.088
SAR 1g (W/Kg)	0.153
Variation (%)	-2.940
Horizontal validation criteria: minimum distance (mm)	0.000000

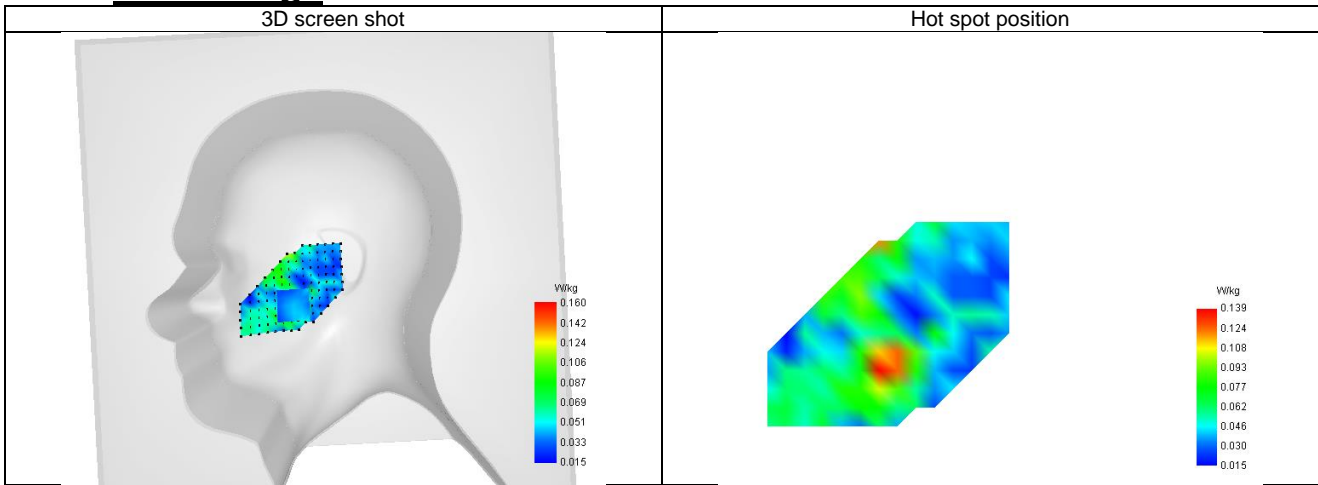
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.252	0.160	0.092	0.061	0.049



F. 3D Image



28-Body with bottom position in dist. 10mm on Channel 39750 in LTE band 41

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

Date of measurement: 22/1/2024

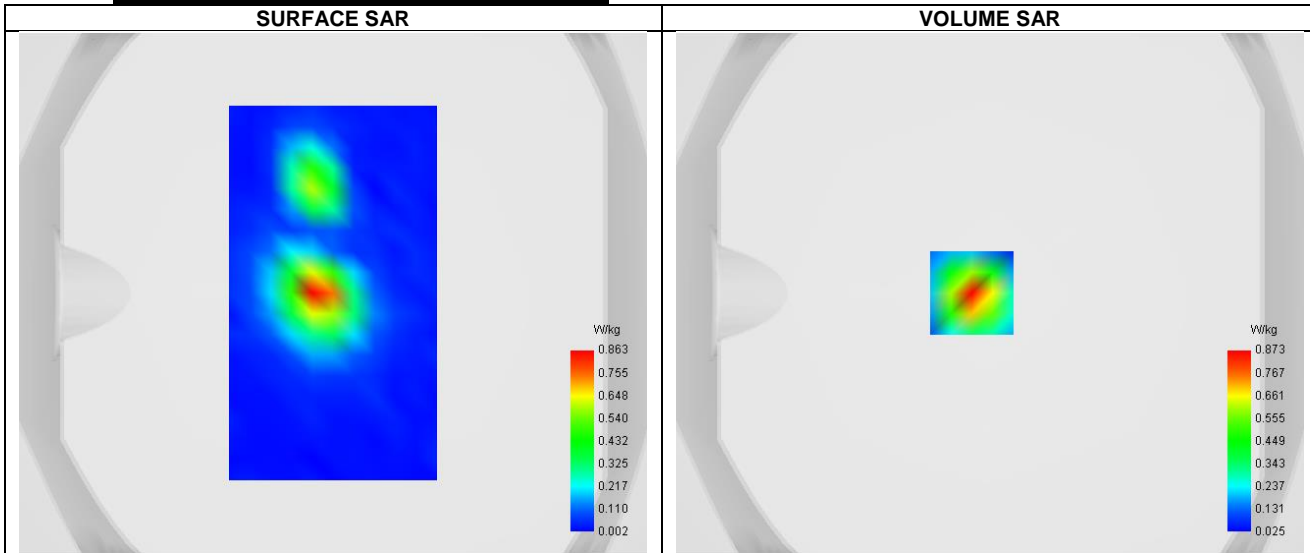
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=8mm dy=8mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 41
Channels	Lower (39750)
Signal	LTE TDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1
Subframe configuration	0
Special subframe configuration	0
Cyclic prefix	Normal
Duty Cycle (%)	0.61

B. Permittivity

Frequency (MHz)	2506.090
Relative permittivity (real part)	39.005
Relative permittivity (imaginary part)	13.097
Conductivity (S/m)	1.870

C. SAR Surface and Volume



Maximum location: X=-7.00, Y=0.00 ; SAR Peak: 1.44 W/kg

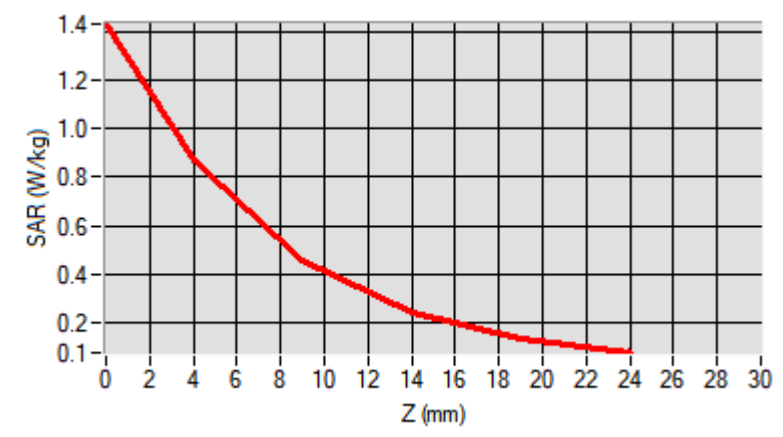
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.375
SAR 1g (W/Kg)	0.719
Variation (%)	1.410
Horizontal validation criteria: minimum distance (mm)	0.000000

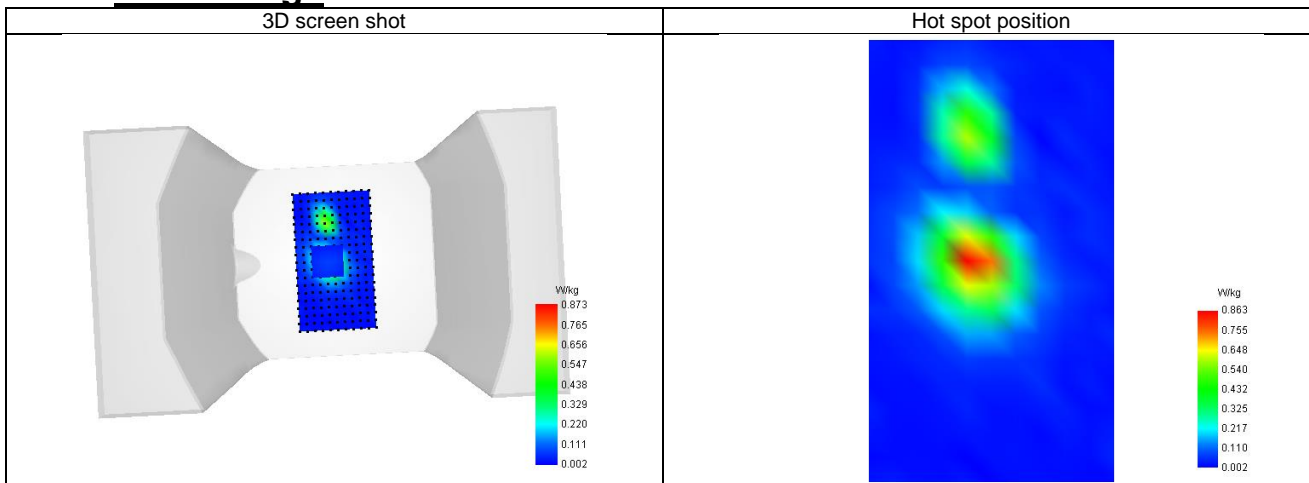
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000
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E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	1.433	0.873	0.454	0.237	0.132



F. 3D Image



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

SAR Measurement at LTE band 66 (Cheek, Right)

Date of measurement: 18/1/2024

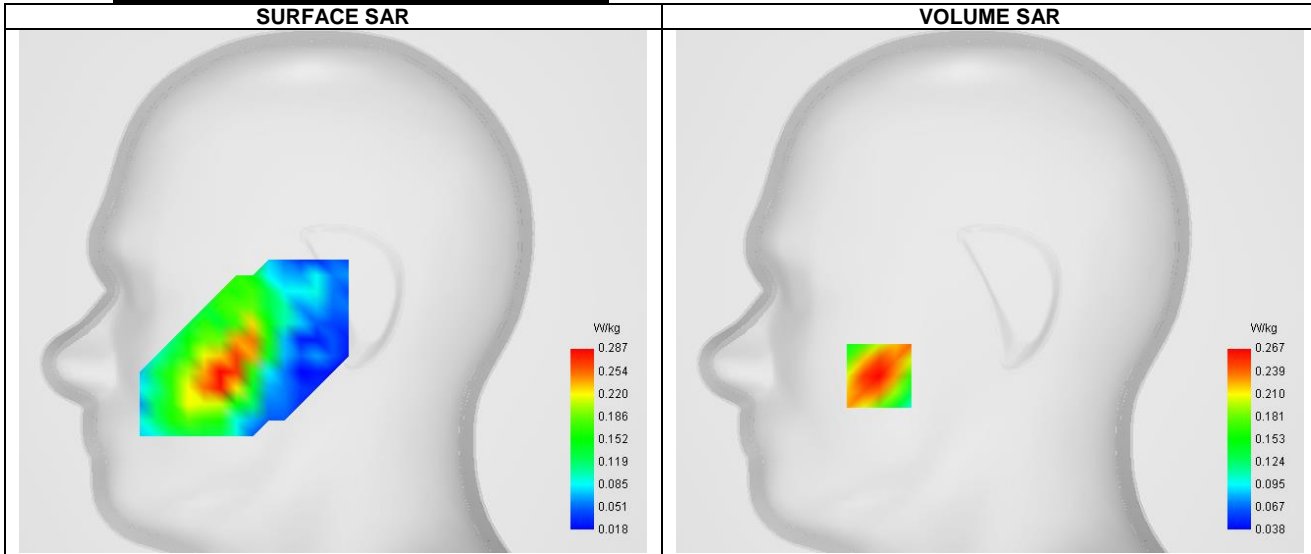
A. Experimental conditions.

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	Higher (132572)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1770.090
Relative permittivity (real part)	39.956
Relative permittivity (imaginary part)	14.257
Conductivity (S/m)	1.355

C. SAR Surface and Volume



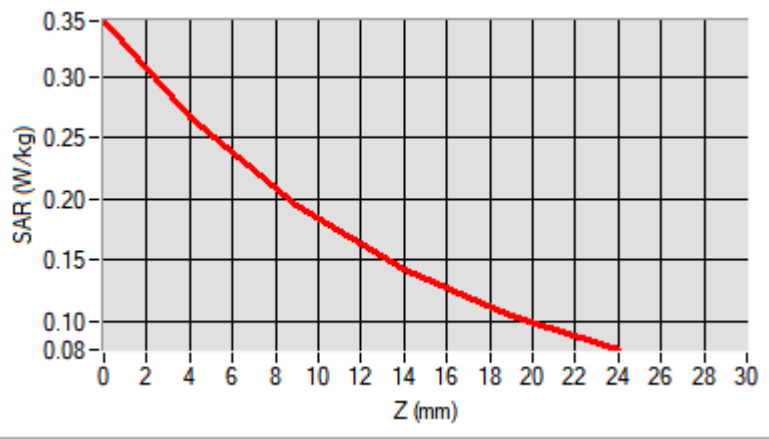
Maximum location: X=-55.00, Y=-42.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

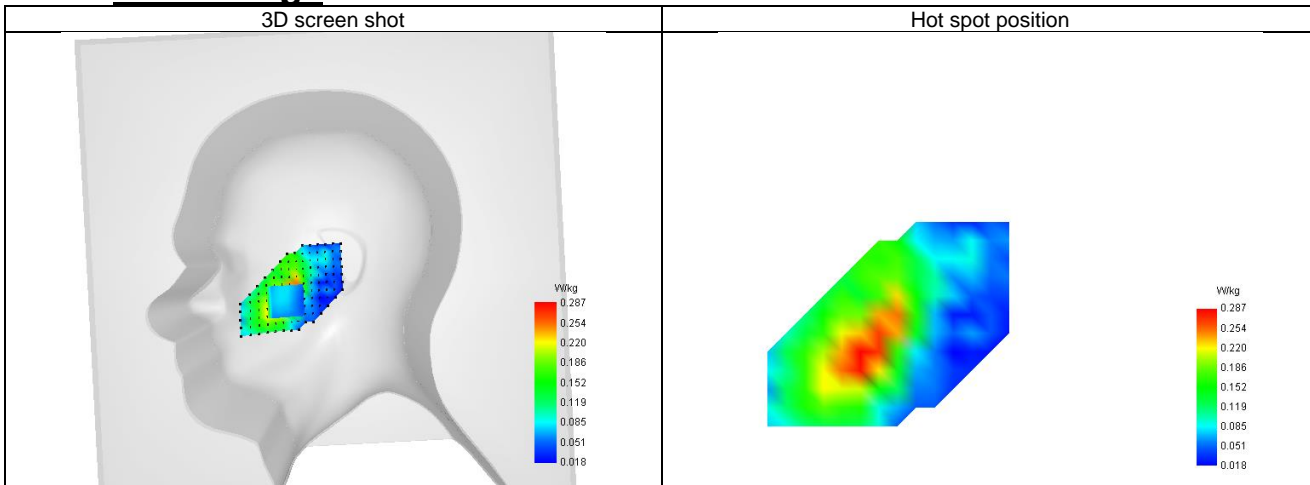
SAR 10g (W/Kg)	0.178
SAR 1g (W/Kg)	0.266
Variation (%)	1.540
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.345	0.267	0.194	0.142	0.105



F. 3D Image



30-Body with bottom position in dist. 10mm on Channel 132572 in LTE band 66

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

Date of measurement: 18/1/2024

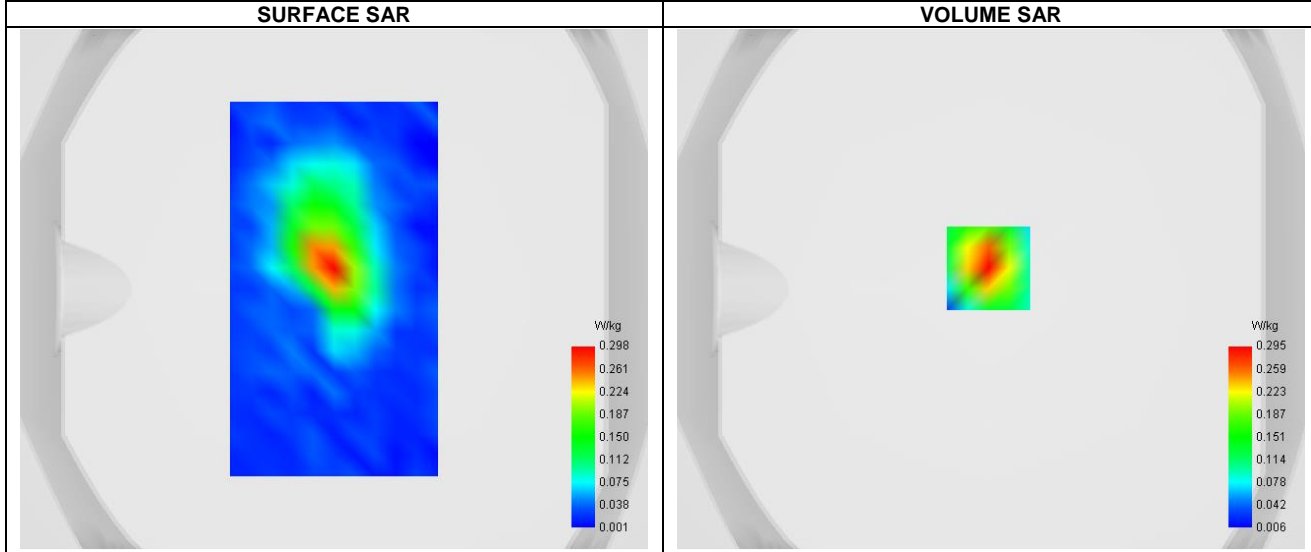
A. Experimental conditions.

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 66
Channels	Higher (132572)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	1770.090
Relative permittivity (real part)	39.956
Relative permittivity (imaginary part)	14.257
Conductivity (S/m)	1.355

C. SAR Surface and Volume



Maximum location: X=-1.00, Y=8.00 ; SAR Peak: 0.49 W/kg

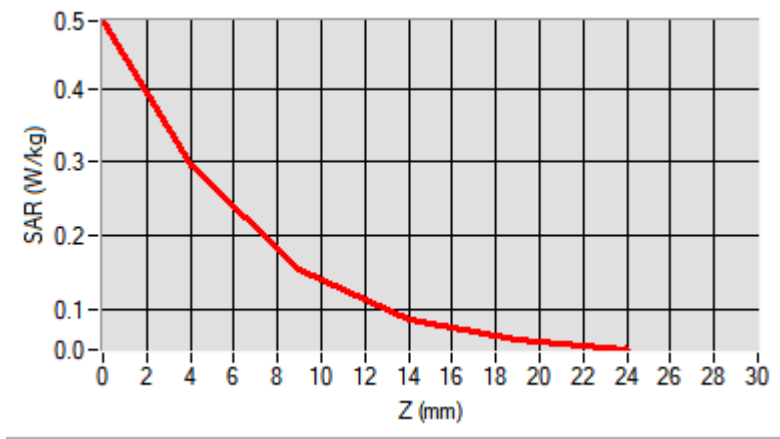
D. SAR 1g & 10g

SAR 10g (W/Kg)	0.148
SAR 1g (W/Kg)	0.286
Variation (%)	-4.080
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

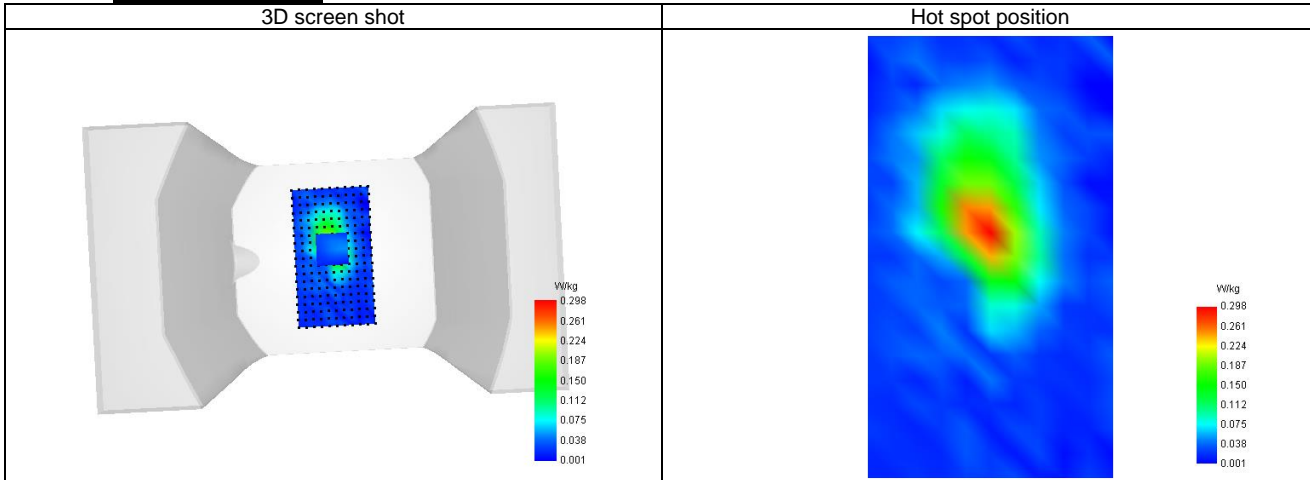
E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
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SAR (W/Kg)	0.492	0.295	0.154	0.086	0.058
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F. 3D Image



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

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 16/1/2024

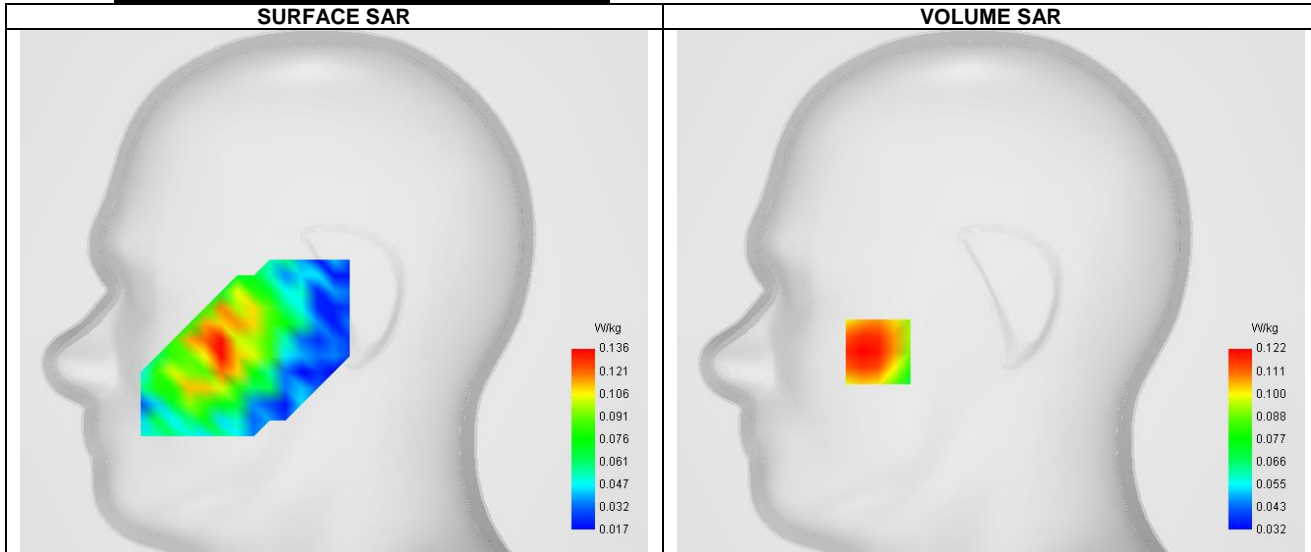
A. Experimental conditions.

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	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	673.090
Relative permittivity (real part)	42.153
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

C. SAR Surface and Volume



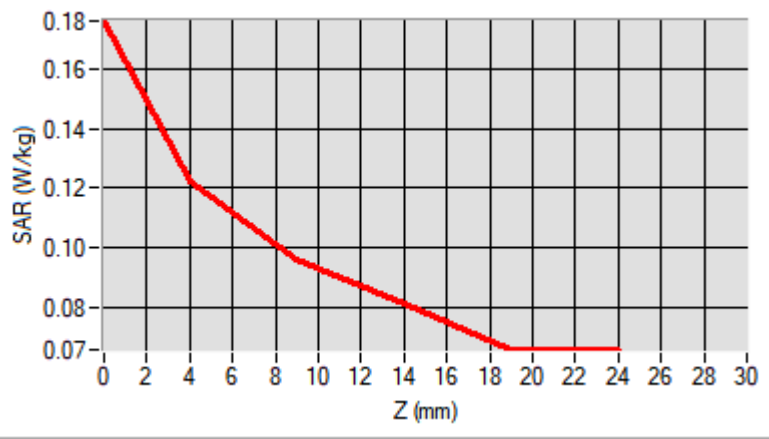
Maximum location: X=-56.00, Y=-30.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

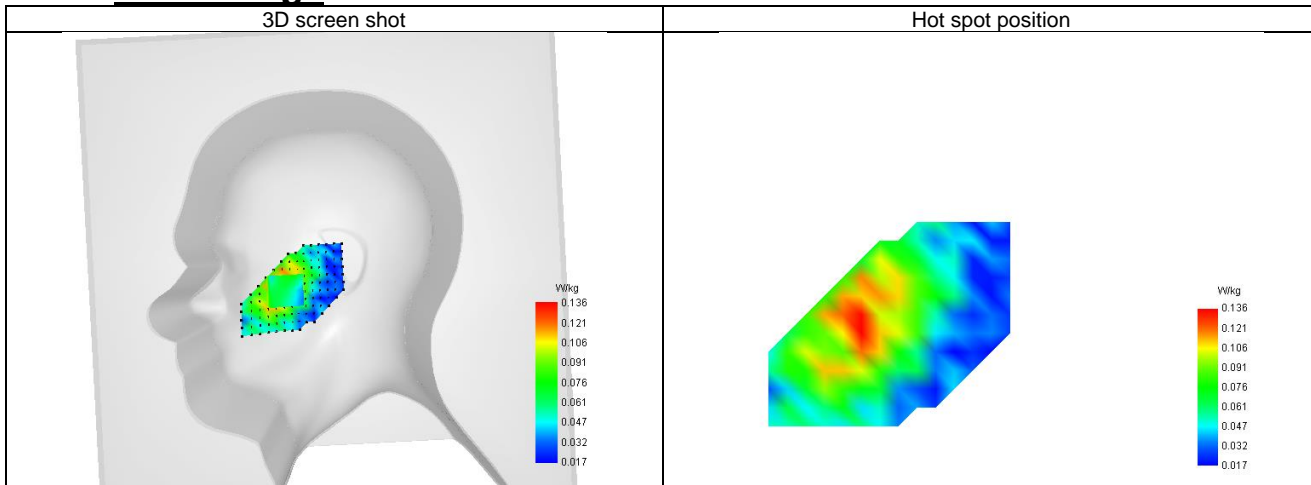
SAR 10g (W/Kg)	0.100
SAR 1g (W/Kg)	0.125
Variation (%)	2.050
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.176	0.122	0.096	0.081	0.066



F. 3D Image



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

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

Date of measurement: 16/1/2024

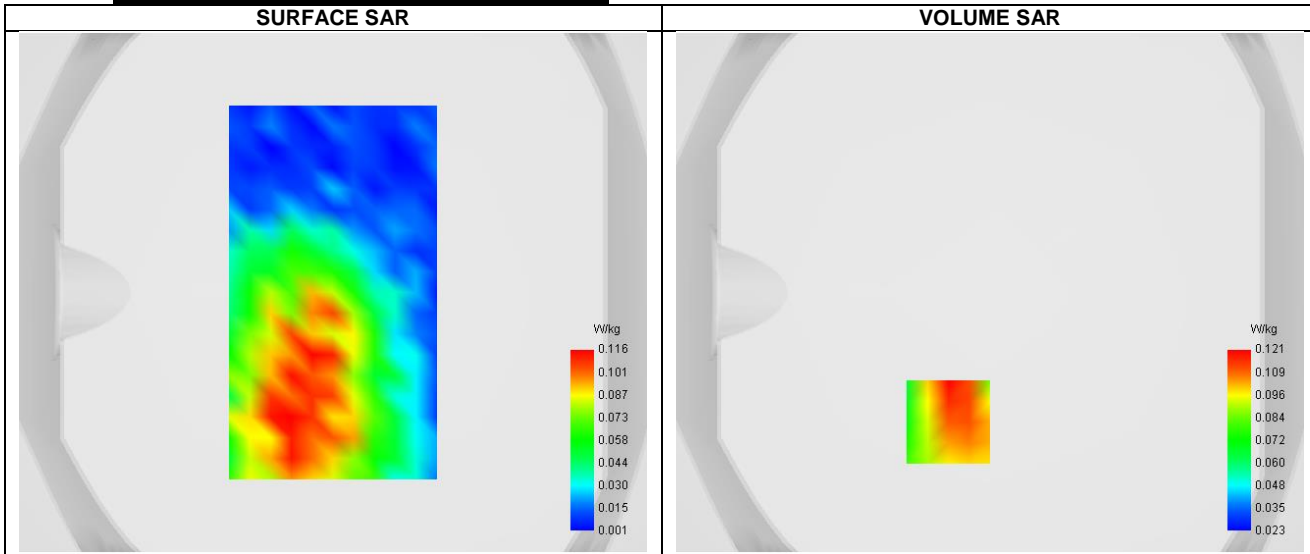
A. Experimental conditions.

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	Lower (133222)
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Frequency (MHz)	673.090
Relative permittivity (real part)	42.153
Relative permittivity (imaginary part)	23.243
Conductivity (S/m)	0.851

C. SAR Surface and Volume



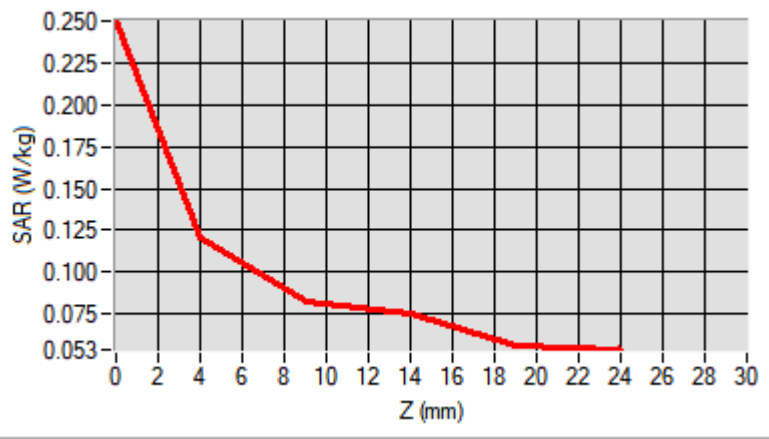
Maximum location: X=-16.00, Y=-50.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

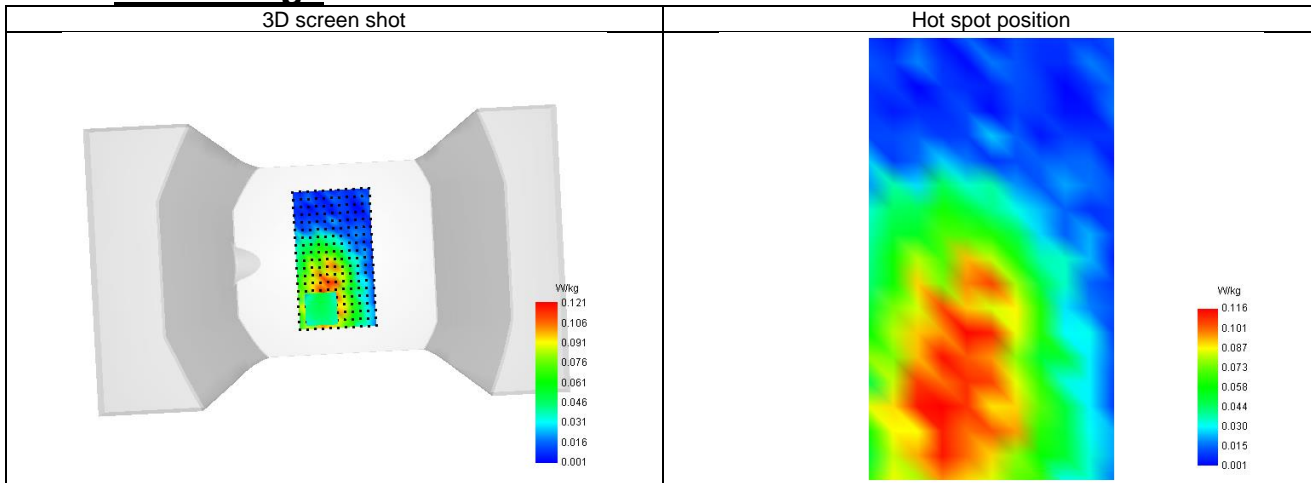
SAR 10g (W/Kg)	0.083
SAR 1g (W/Kg)	0.121
Variation (%)	2.910
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.250	0.121	0.082	0.075	0.055



F. 3D Image



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

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

Date of measurement: 22/1/2024

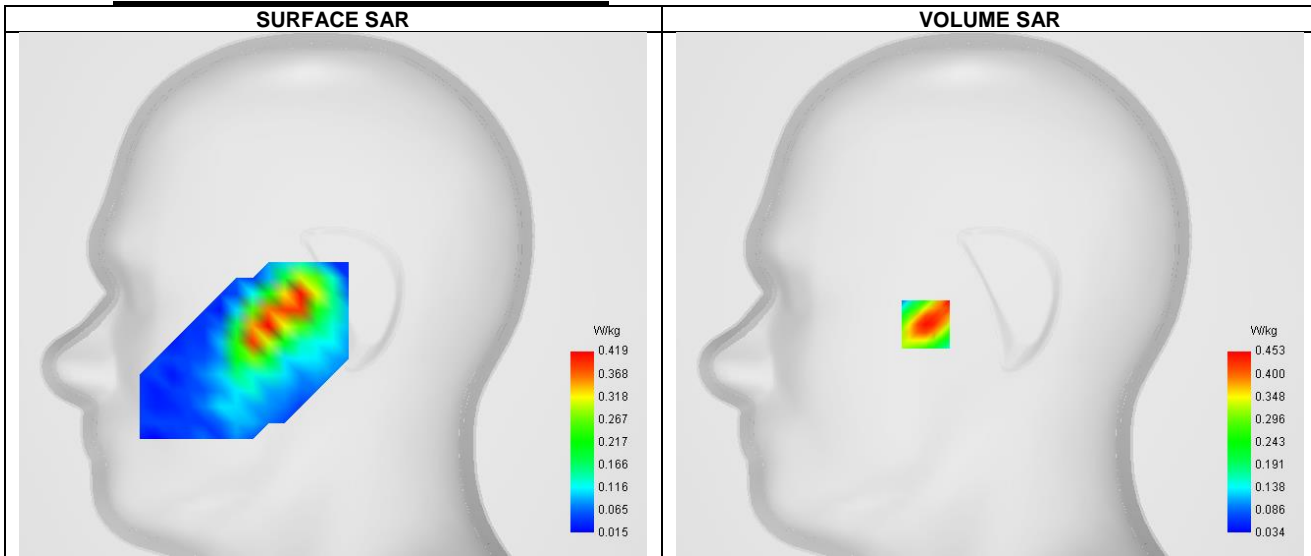
A. Experimental conditions.

Probe	SN 04/22 EPGO365
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	Middle (6)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2437.000
Relative permittivity (real part)	39.099
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

C. SAR Surface and Volume



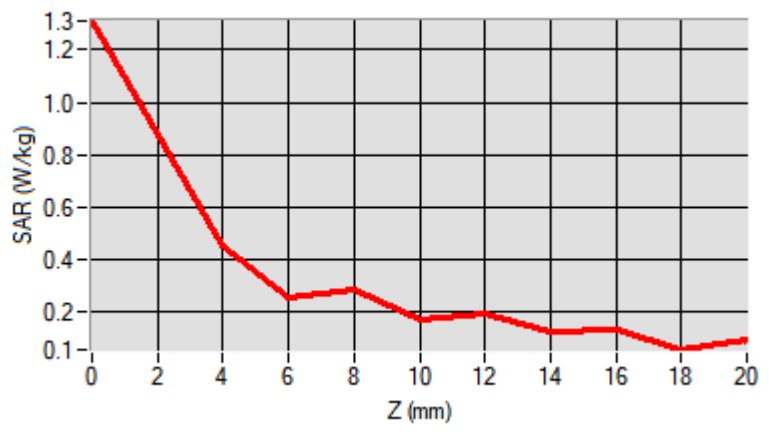
Maximum location: X=-32.00, Y=-15.00 ; SAR Peak: 0.89 W/kg

D. SAR 1g & 10g

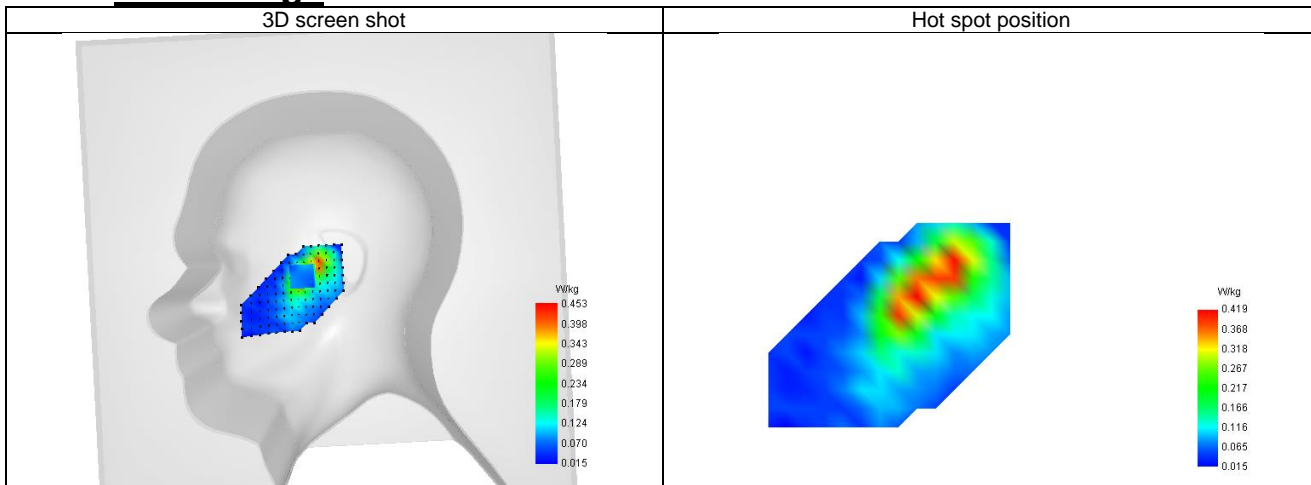
SAR 10g (W/Kg)	0.231
SAR 1g (W/Kg)	0.430
Variation (%)	3.550
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	1.310	0.453	0.253	0.288	0.170	0.191	0.122	0.132	0.055



F. 3D Image



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

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

Date of measurement: 22/1/2024

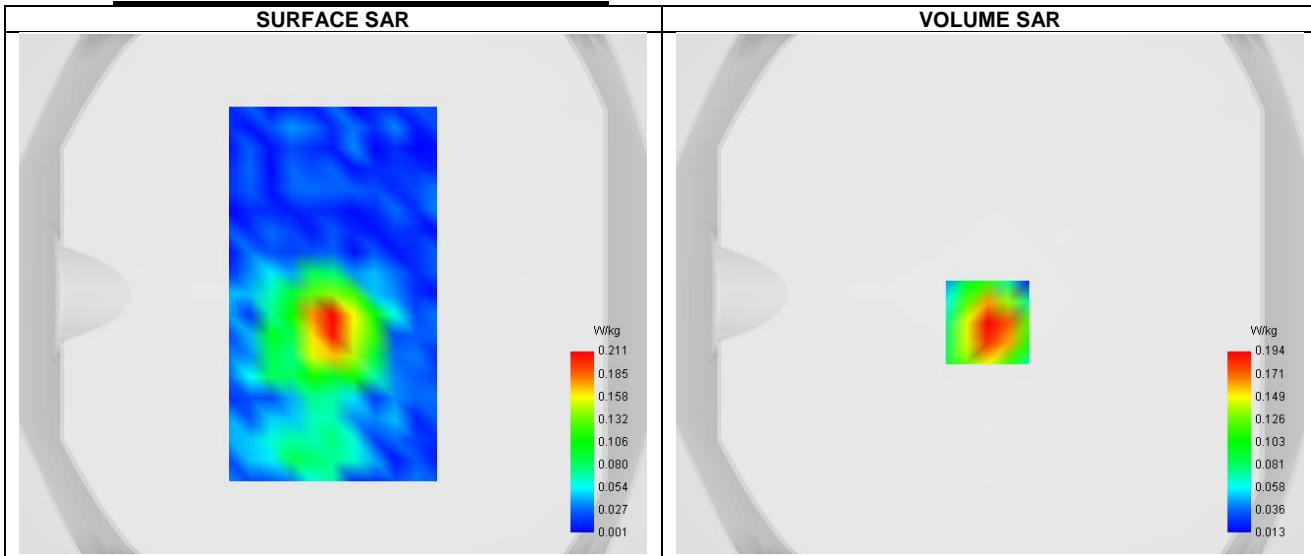
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.36
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11b ISM
Channels	Middle (6)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	2437.000
Relative permittivity (real part)	39.099
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.801

C. SAR Surface and Volume



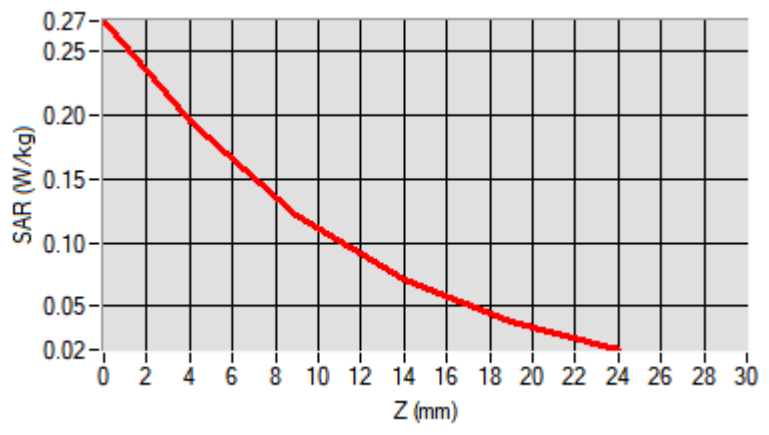
Maximum location: X=-1.00, Y=-11.00 ; SAR Peak: 0.29 W/kg

D. SAR 1g & 10g

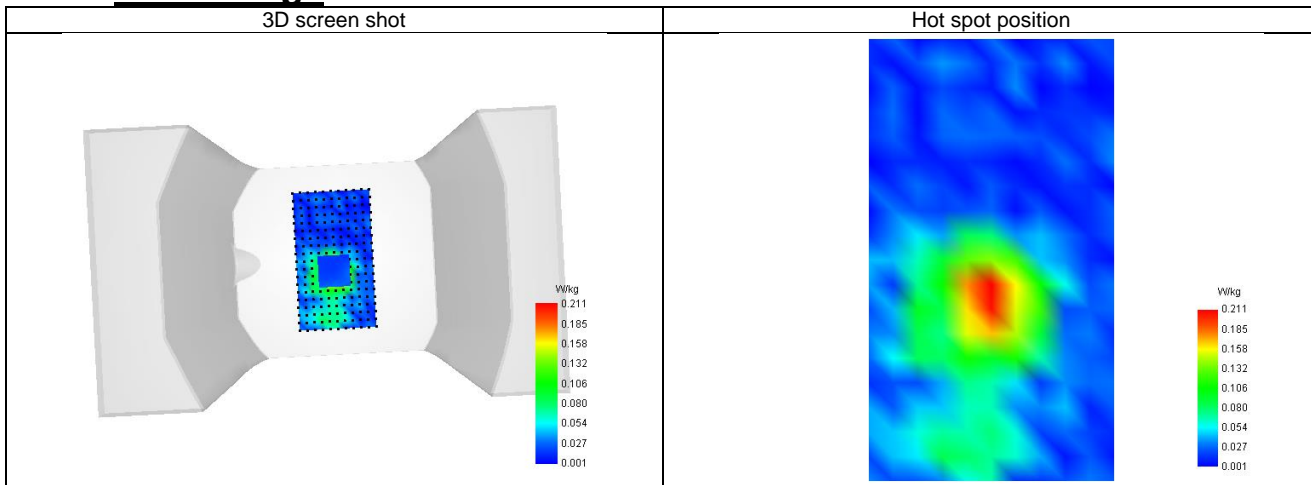
SAR 10g (W/Kg)	0.104
SAR 1g (W/Kg)	0.190
Variation (%)	-1.310
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00
SAR (W/Kg)	0.273	0.194	0.121	0.071	0.038



F. 3D Image



35-Head with front position in dist. 0mm on Channel 38 in IEEE 802.11n U-NII

SAR Measurement at IEEE 802.11n U-NII (Cheek, Right)

Date of measurement: 23/1/2024

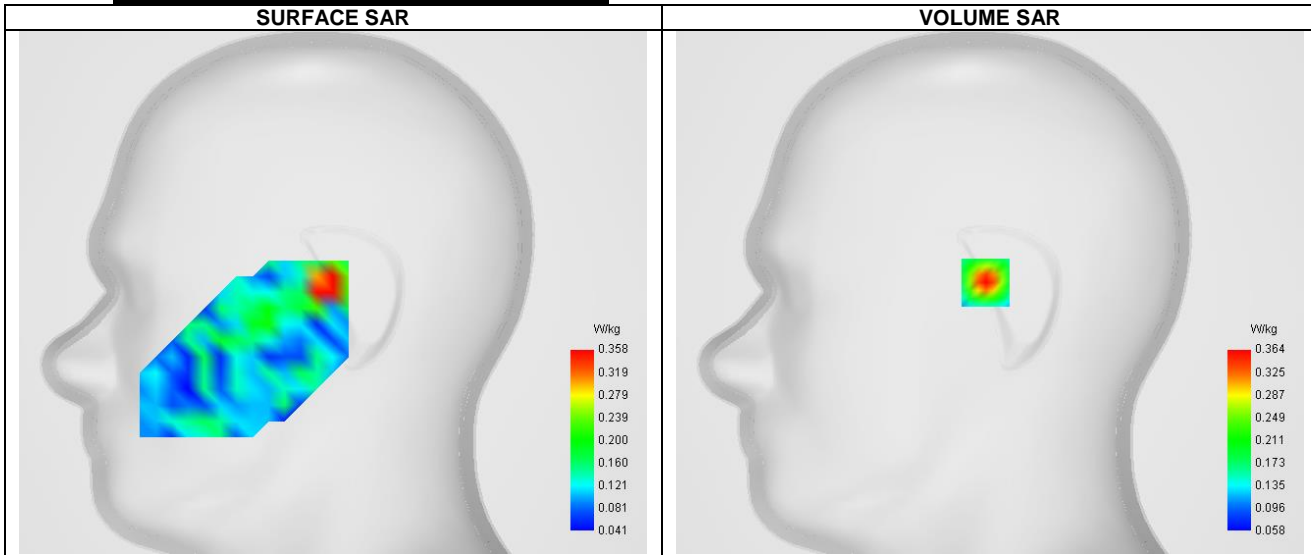
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11n U-NII
Channels	Lower (38)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5190.000
Relative permittivity (real part)	35.892
Relative permittivity (imaginary part)	16.236
Conductivity (S/m)	4.690

C. SAR Surface and Volume



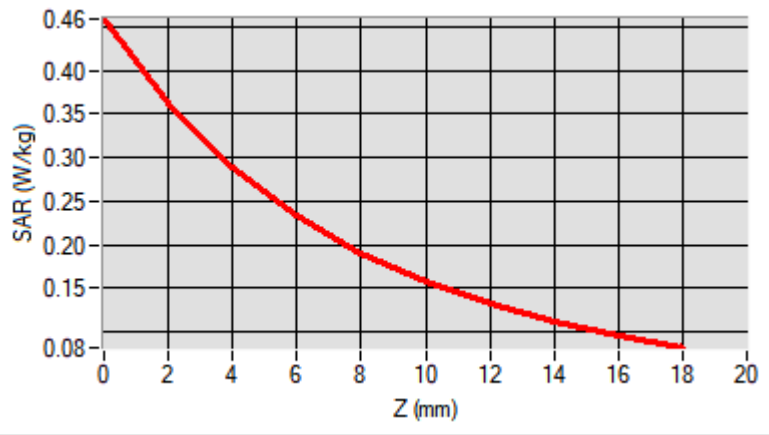
Maximum location: X=-2.00, Y=5.00 ; SAR Peak: 0.59 W/kg

D. SAR 1g & 10g

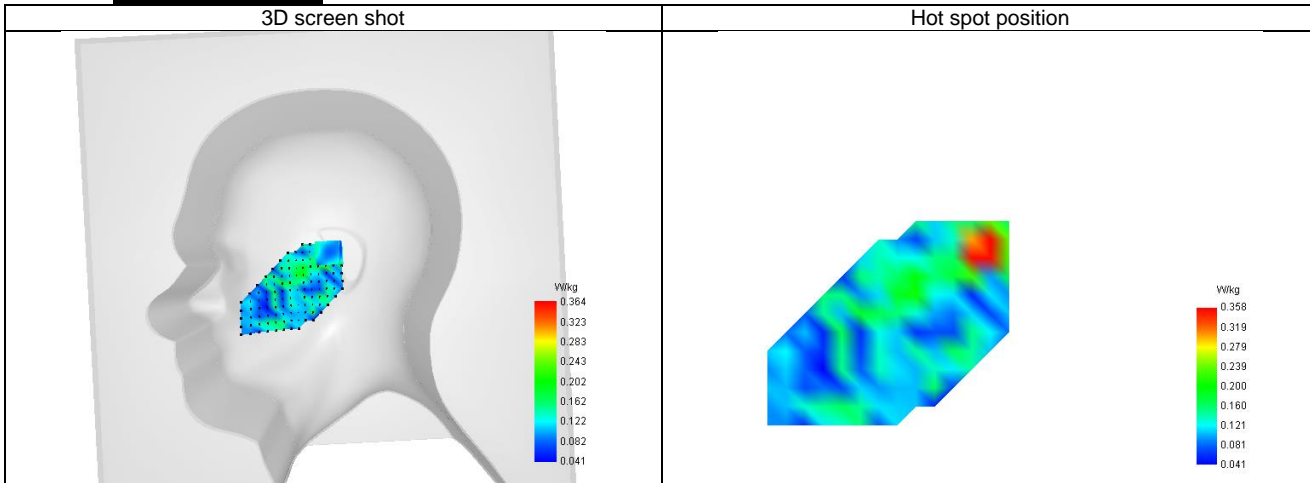
SAR 10g (W/Kg)	0.180
SAR 1g (W/Kg)	0.331
Variation (%)	-2.020
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	0.459	0.364	0.290	0.232	0.190	0.157	0.132	0.112	0.096



F. 3D Image



36-Body with back position in dist. 10mm on Channel 38 in IEEE 802.11n U-NII

SAR Measurement at IEEE 802.11n U-NII (Body, Validation Plane)

Date of measurement: 23/1/2024

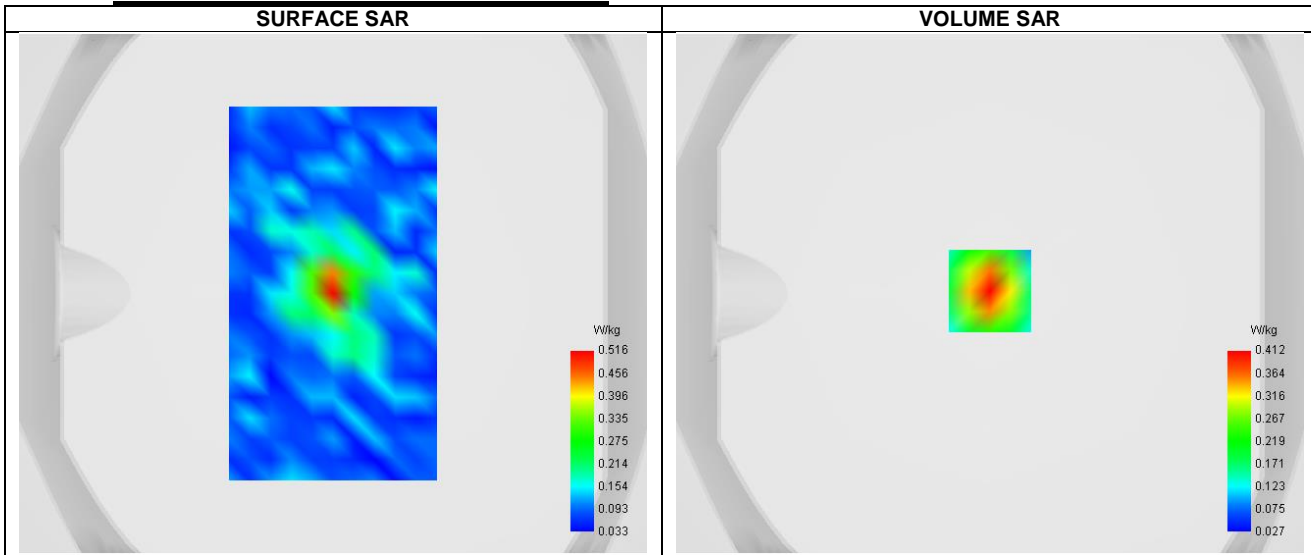
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.24
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11n U-NII
Channels	Lower (38)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5190.000
Relative permittivity (real part)	35.892
Relative permittivity (imaginary part)	16.236
Conductivity (S/m)	4.690

C. SAR Surface and Volume



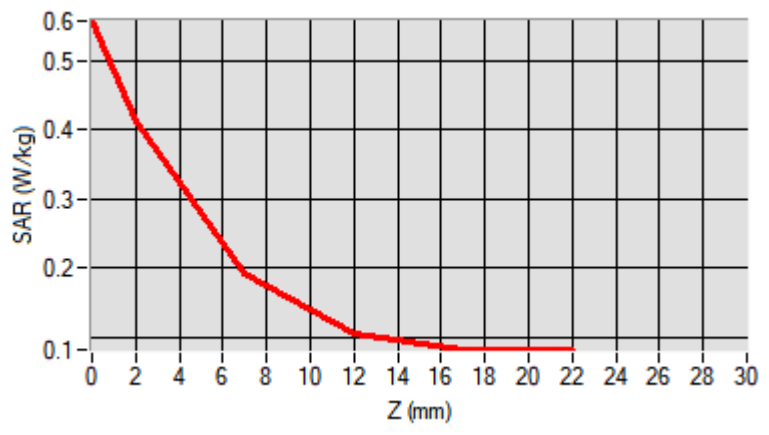
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 0.56 W/kg

D. SAR 1g & 10g

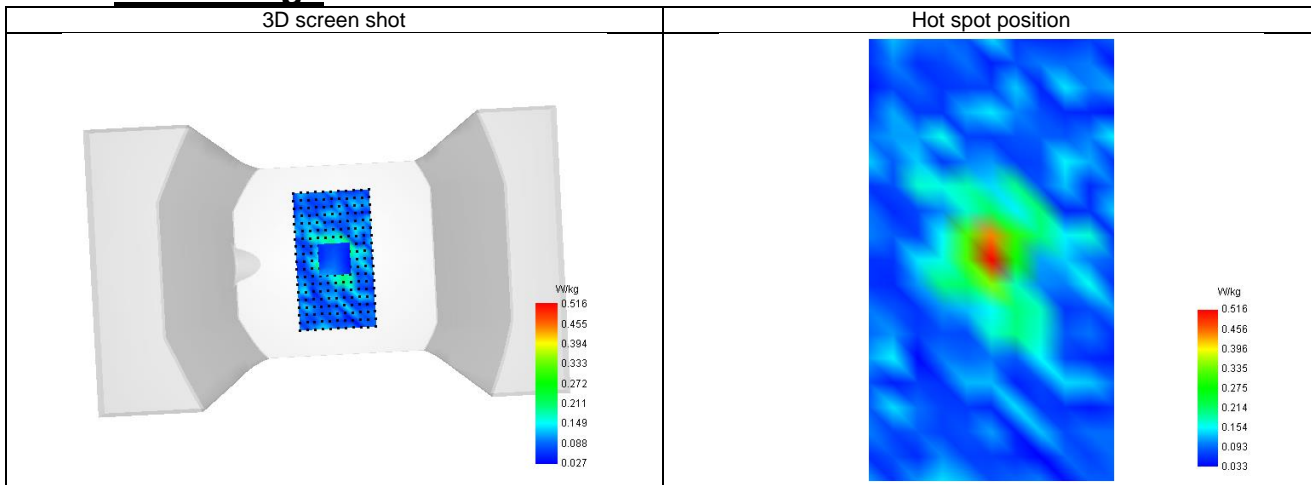
SAR 10g (W/Kg)	0.161
SAR 1g (W/Kg)	0.292
Variation (%)	1.470
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	7.00	12.00	17.00
SAR (W/Kg)	0.558	0.412	0.192	0.105	0.083



F. 3D Image



37-Head with front position in dist. 0mm on Channel 159 in IEEE 802.11ac U-NII

SAR Measurement at IEEE 802.11ac U-NII (Cheek, Right)

Date of measurement: 23/1/2024

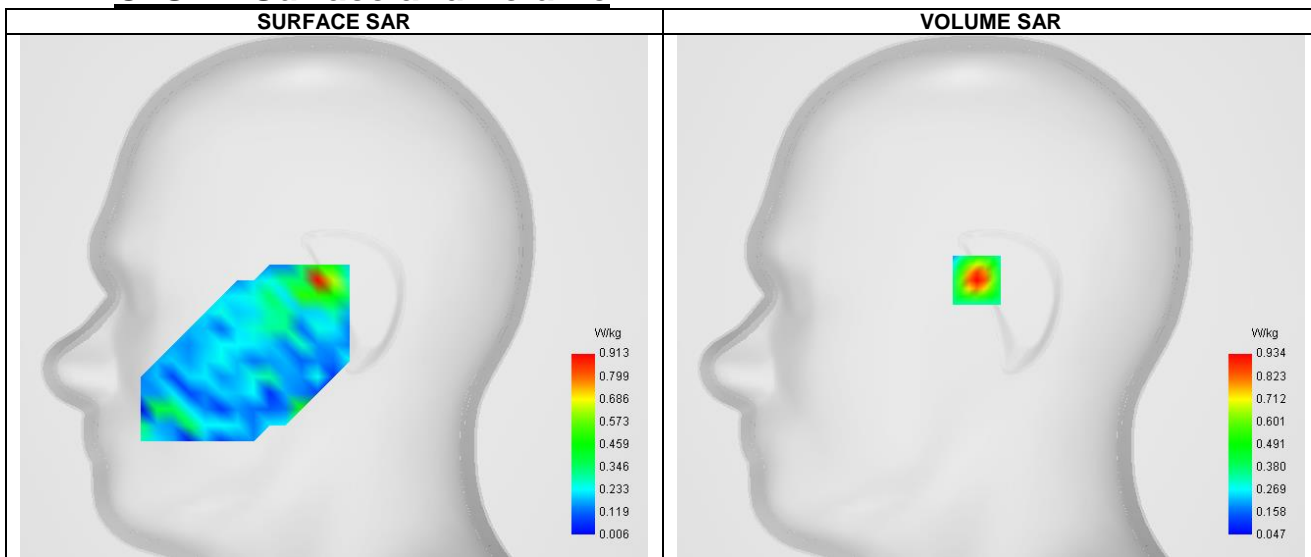
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.04
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Right head
Device Position	Cheek
Band	IEEE 802.11ac U-NII
Channels	Higher (159)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5795.000
Relative permittivity (real part)	35.185
Relative permittivity (imaginary part)	16.479
Conductivity (S/m)	5.305

C. SAR Surface and Volume



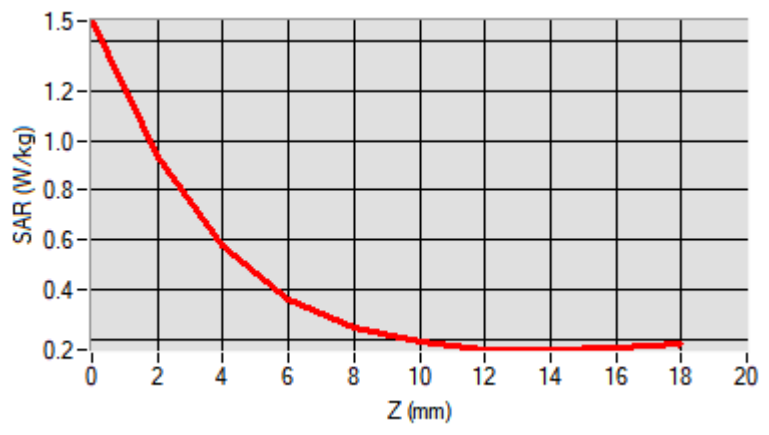
Maximum location: X=-7.00, Y=8.00 ; SAR Peak: 2.29 W/kg

D. SAR 1g & 10g

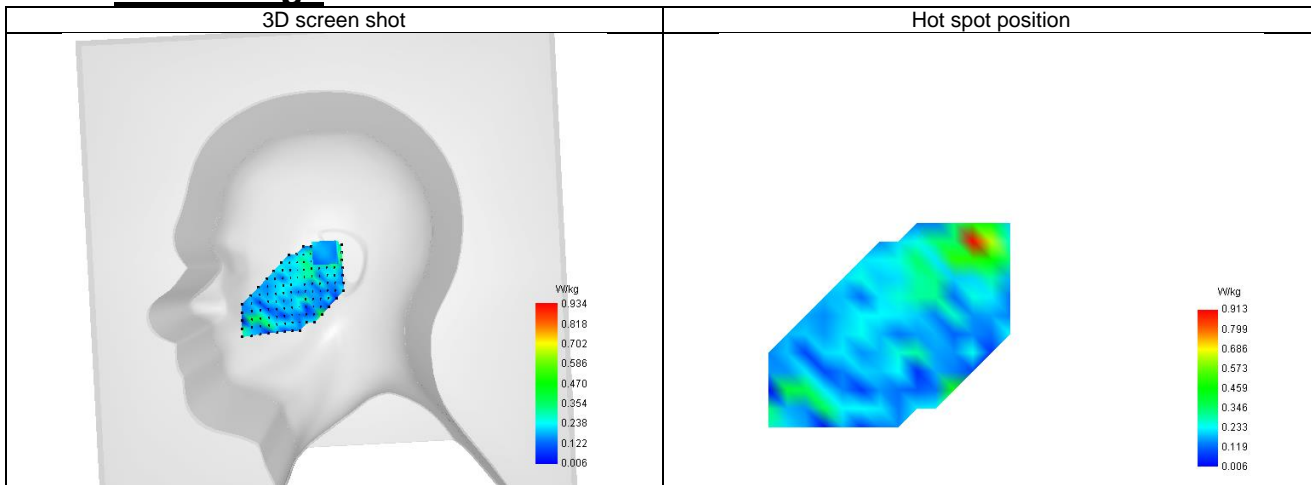
SAR 10g (W/Kg)	0.387
SAR 1g (W/Kg)	0.684
Variation (%)	-1.910
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.482	0.934	0.578	0.362	0.245	0.185	0.160	0.157	0.167



F. 3D Image



38-Body with back position in dist. 10mm on Channel 159 in IEEE 802.11ac U-NII

SAR Measurement at IEEE 802.11ac U-NII (Body, Validation Plane)

Date of measurement: 23/1/2024

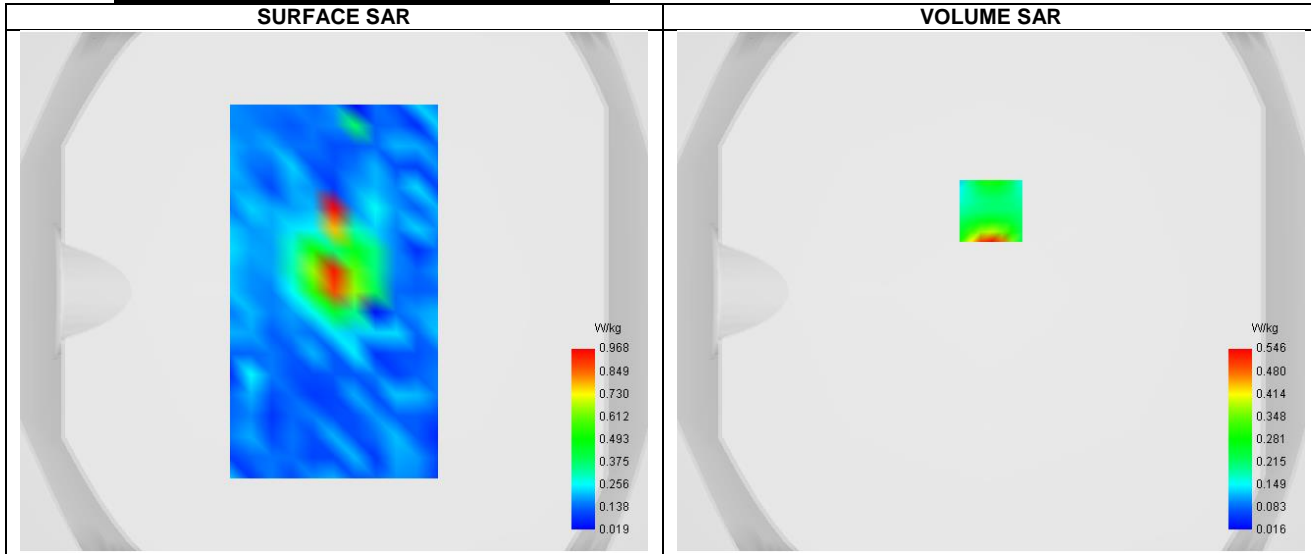
A. Experimental conditions.

Probe	SN 04/22 EPGO365
ConvF	2.04
Area Scan	sam_direct_droit2_surf8mm.txt
Zoom Scan	7x7x12,dx=4mm dy=4mm dz=2mm,Complete
Phantom	Validation plane
Device Position	Body
Band	IEEE 802.11ac U-NII
Channels	Higher (159)
Signal	IEEE 802.11

B. Permittivity

Frequency (MHz)	5795.000
Relative permittivity (real part)	35.185
Relative permittivity (imaginary part)	16.479
Conductivity (S/m)	5.305

C. SAR Surface and Volume



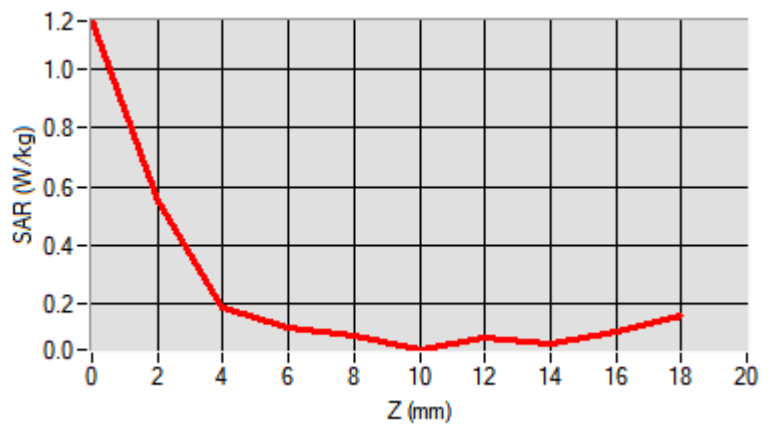
Maximum location: X=0.00, Y=31.00 ; SAR Peak: 1.06 W/kg

D. SAR 1g & 10g

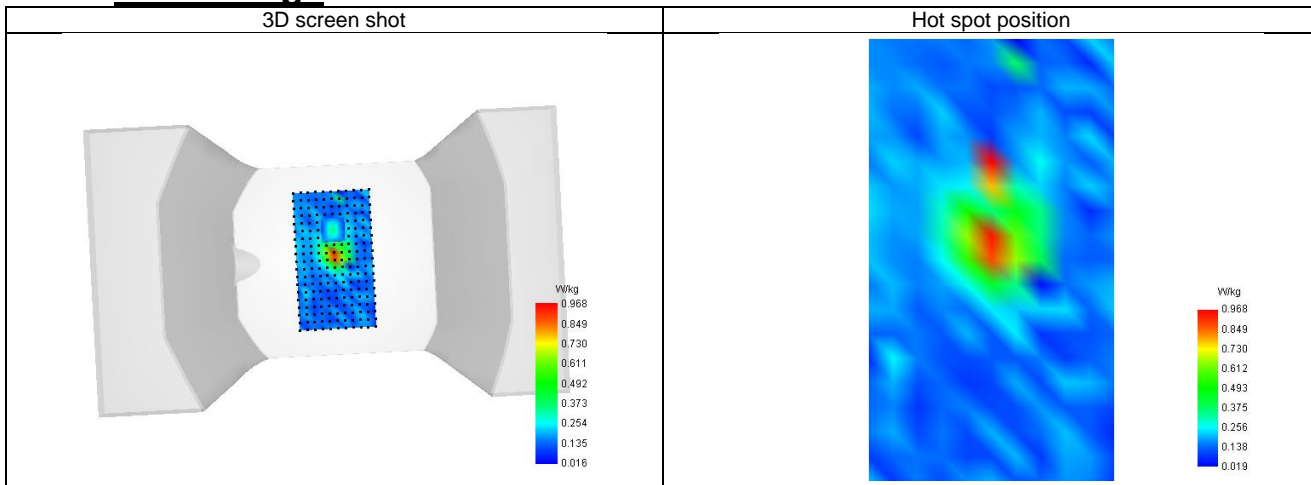
SAR 10g (W/Kg)	0.209
SAR 1g (W/Kg)	0.271
Variation (%)	-1.590
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	2.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00
SAR (W/Kg)	1.167	0.546	0.186	0.115	0.091	0.041	0.084	0.064	0.102



F. 3D Image



39-Head with front position in dist. 0mm on Channel 39 in Bluetooth

SAR Measurement at Bluetooth (Cheek, Right)

Date of measurement: 22/1/2024

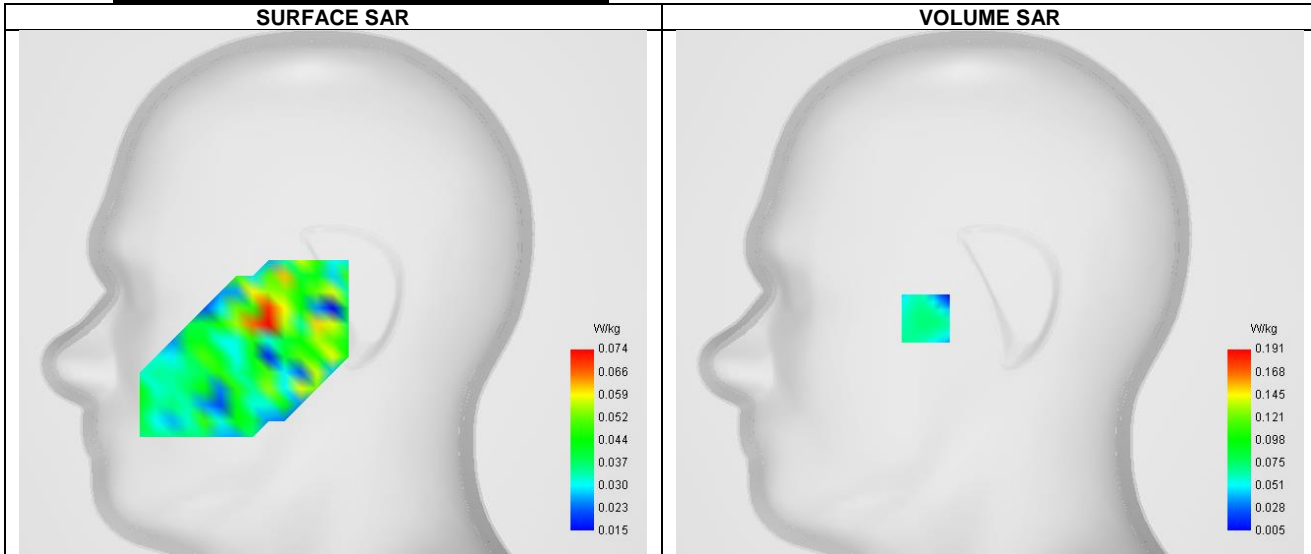
A. Experimental conditions.

Probe	SN 04/22 EPG0365
ConvF	2.36
Area Scan	surf_sam_plan.txt
Zoom Scan	5x5x7,dx=5mm dy=5mm dz=5mm,Complete
Phantom	Right head
Device Position	Cheek
Band	Bluetooth
Channels	Middle (39)
Signal	Bluetooth

B. Permittivity

Frequency (MHz)	2441.000
Relative permittivity (real part)	39.093
Relative permittivity (imaginary part)	13.341
Conductivity (S/m)	1.803

C. SAR Surface and Volume



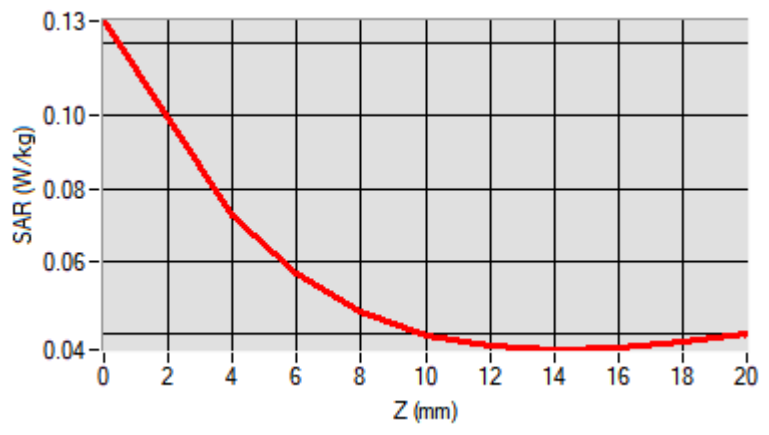
Maximum location: X=-32.00, Y=-13.00 ; SAR Peak: 0.13 W/kg

D. SAR 1g & 10g

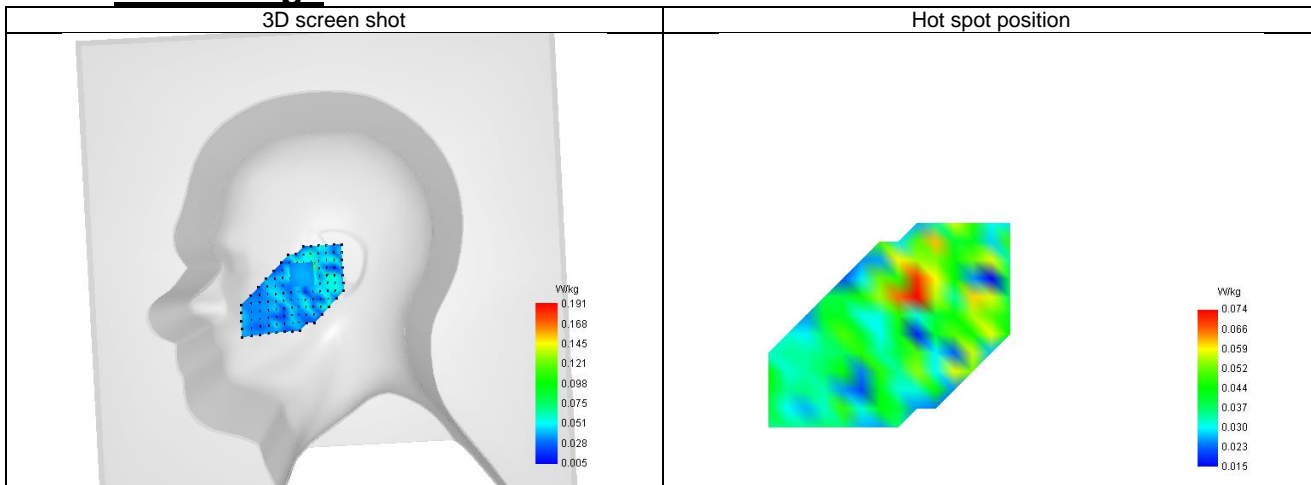
SAR 10g (W/Kg)	0.056
SAR 1g (W/Kg)	0.083
Variation (%)	-1.430
Horizontal validation criteria: minimum distance (mm)	0.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	0.000000

E. Z Axis Scan

Z (mm)	0.00	4.00	6.00	8.00	10.00	12.00	14.00	16.00	18.00
SAR (W/Kg)	0.126	0.072	0.056	0.046	0.040	0.037	0.036	0.036	0.038



F. 3D Image

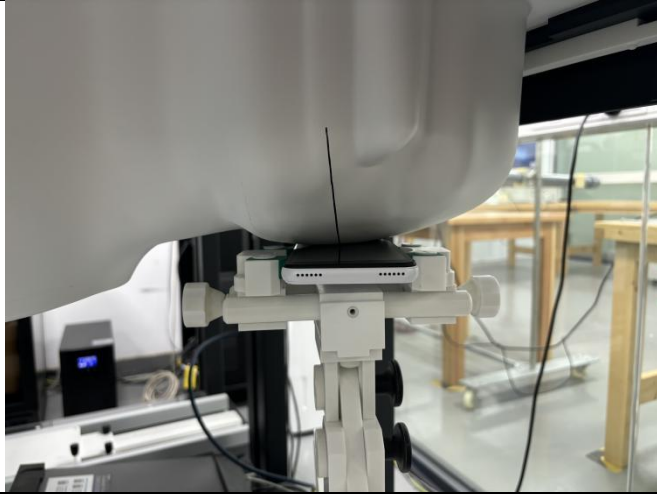


ANNEX D SAR Test Setup Photos

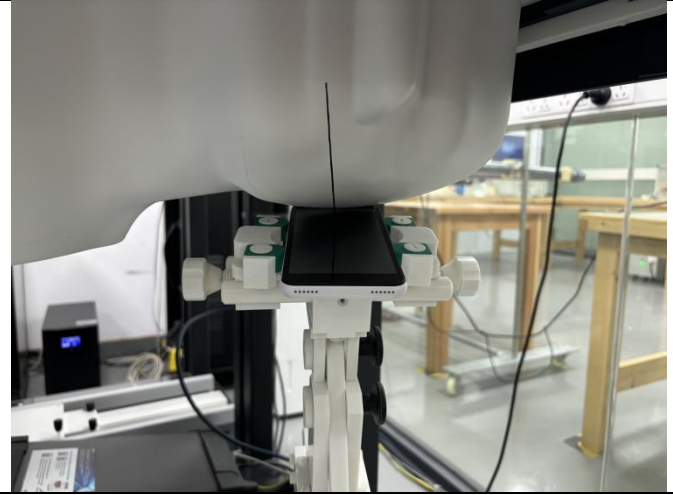
Reference Photo: simulation liquid depth 15cm



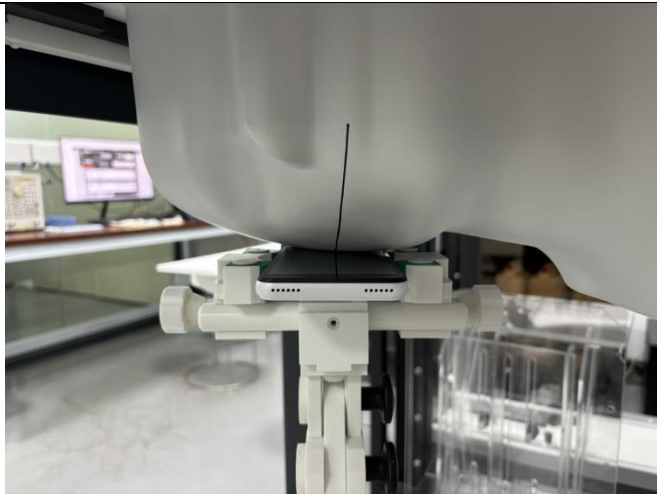
Reference Photos



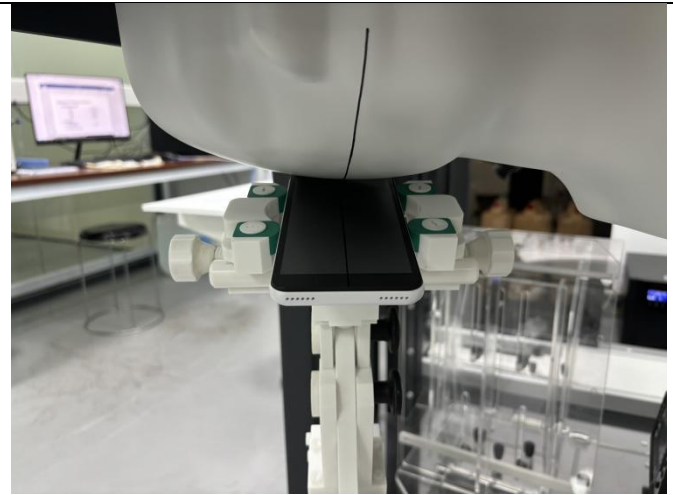
Left Head - Cheek



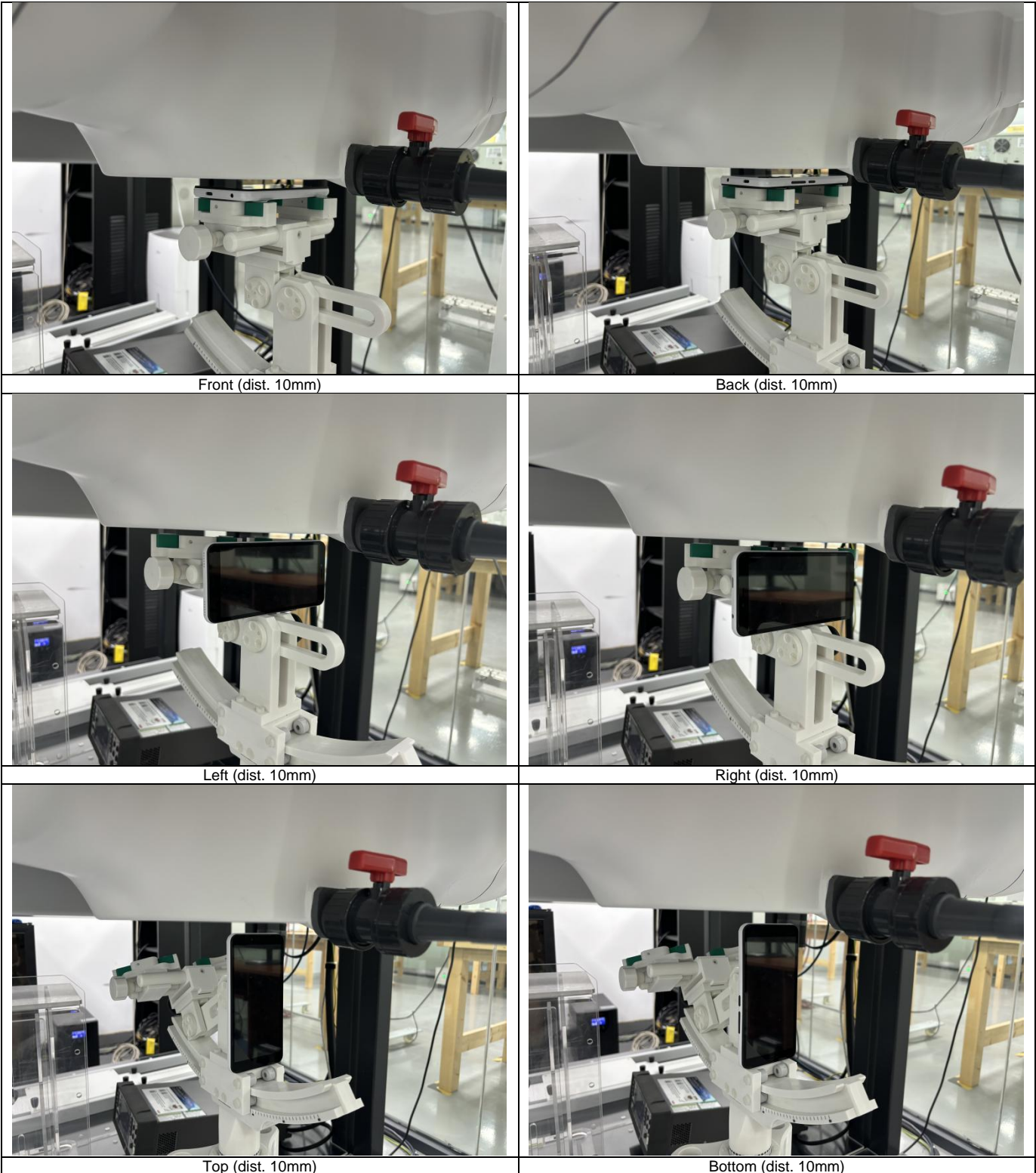
Left Head - Tilt



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".



BTF Testing Lab (Shenzhen) Co., Ltd.

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