



SAR Test Report

For

Applicant Name:**FOXX Development Inc.**

Address:

3480 Preston Ridge Road, Suite500, Alpharetta, GA 30005, USA

EUT Name:

Feature Phone

Brand Name:

FOXXD, FOXX, MIRO

Model Number:

F117

Issued By

Company Name:**BTF Testing Lab (Shenzhen) Co., Ltd.**

Address:

Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

Report Number:

BTF260521R00301

Test Standards:

FCC 47 CFR§2.1093 IEEE Std. 1528-2013
IEEE C95.1-2019

FCC ID:

2AQRM-F117

Test Conclusion:

Pass

Test Date:

2026-06-15 to 2026-06-30

Date of Issue:

2026-07-01

Tested By:

Ella. ku

Ella Ku / Tester

Date:

2026-07-01

Prepared By:

Amenda Zhong

Amenda Zhong / Project Engineer

Date:

2026-07-01

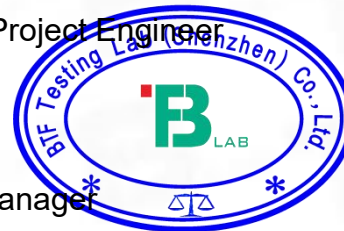
Approved By:

Ryan.CJ

Ryan.CJ / EMC Manager

Date:

2026-07-01



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Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-07-01	Original
Note:		Once the revision has been made, then previous versions reports are invalid.

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1. Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, 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:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
FCC Registration Number	518915
Designation Number	CN1409

1.3 Laboratory Condition

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

1.4 Announcement

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

2. Product Information

2.1 Application Information

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

2.2 Manufacturer Information

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

2.3 Factory Information

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

2.4 General Description of Equipment under Test (EUT)

EUT Name	Feature Phone
Under Test Model Name	F117
Sample No.	BTFSN260521001

2.5 Equipment under Test Ancillary Equipment

Ancillary Equipment 1	Rechargeable Battery	
	Capacity	800mAh
	Voltage	3.5V

2.6 Technical Information

Network and Wireless connectivity	4G Network FDD LTE Band 2/4/5/12/17/66/71 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20) BT (EDR)
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The requirement for the following technical information of the EUT was tested in this report:

Operating Mode	LTE, WLAN, Bluetooth		
Frequency Range	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 17	TX: 704 ~ 716 MHz	RX: 734 ~ 746 MHz
	LTE Band 66	TX: 1710 ~ 1780 MHz	RX: 2110 ~ 2200 MHz
	LTE Band 71	TX: 663 ~ 698 MHz	RX: 617 ~ 652 MHz
	802.11b/g/n(HT20)	2412 ~ 2462 MHz	
	802.11n(HT40)	2422 ~ 2452 MHz	
	Bluetooth	2402 ~ 2480 MHz	
Antenna Type	WWAN: Internal antenna WLAN: Internal antenna BT: Internal antenna		
Hotspot Function	Not Support		
Power Reduction	Not Support		
Exposure Category	General Population/Uncontrolled exposure		
EUT Stage	Portable Device		

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	IEEE Std. 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
3	IEEE C95.1-2019	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
4	KDB447498 D01	General RF Exposure Guidance v06
5	KDB865664 D01	SAR measurement 100MHz to 6GHz v01r04
6	KDB941225 D05	SAR for LTE Devices v02r05
7	KDB248227 D01	802.11 Wi-Fi SAR v02r02
8	KDB648474 D04	Handset SAR v01r03
9	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)	LTE Band 2	0.240	PCB	1.309
	LTE Band 4	1.124		
	LTE Band 5	0.518		
	LTE Band 12	0.508		
	LTE Band 17	0.432		
	LTE Band 66	1.309		
	LTE Band 71	0.277		
	WLAN 2.4GHz	0.164	DTS	
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 2	0.606	PCB	1.106
	LTE Band 4	1.036		
	LTE Band 5	0.603		
	LTE Band 12	0.352		
	LTE Band 17	0.576		
	LTE Band 66	1.106		
	LTE Band 71	0.300		
	WLAN 2.4GHz	0.104	DTS	

This device is in compliance with Specific Absorption Rate(SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC47 CFR part 2(2.1093) and ANSI/IEEE C95.1-2019, and had been tested in accordance with the measurement methods and procedures specified in IEEE Std. 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 66 + BT	1.543	1.6	Pass
Hotspot(Body) 1-g SAR (10 mm Gap)	LTE Band 66 + BT	1.223	1.6	Pass

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test (450MHz to 6GHz)

Uncertainty Component	Tol (+-%)	Prob. Dist.	Div.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10g)	1g Ui (+-%)	10 g Ui (+-%)	Vi veff
Measurement System									
Probe calibration	16	N (k = 2)	2	8.00	1	1	8.00	8.00	∞
Probe calibration drift	4	R	$\sqrt{3}$	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	$\sqrt{3}$	2.71	1	1	2.71	2.71	∞
detection limit	1	R	$\sqrt{3}$	0.58	1	1	0.58	0.58	∞
Probe isotropy	3.5	R	$\sqrt{3}$	2.02	0.71	0.71	1.43	1.43	∞
Hemispherical Isotropy	5.9	N	1	5.90	0.71	0.71	4.19	4.19	∞
Boundary effect	1	R	1.73	0.58	1	1	0.58	0.58	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
RF ambient and noise	3	R	$\sqrt{3}$	1.73	1	1	1.73	1.73	∞
Probe positioning errors	3.28	N	1	3.28	0.33	0.33	1.08	1.08	∞
Data processing errors	2.3	R	1	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	2.35	0.79	0.77	1.86	1.81	∞
Permittivity measurement	5.06	N	1	2.92	0.23	0.26	0.67	0.76	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1	1.44	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	$\sqrt{3}$	1.44	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	$\sqrt{3}$	1.67	0.25	0.25	0.42	0.42	∞
Repeatability of positioning the DUT or source against the phantom	2.7	N	1	2.70	2	2	5.40	5.40	∞
Uncertainty in accepted power	3	R	1	3.00	1	1	3.00	3.00	∞
Effect of operating mode on probe sensitivity	2.3	R	$\sqrt{3}$	1.33	1	1	1.33	1.33	∞
Variation in SAR due to drift in output of DUT	2.2	N	1	2.20	1	1	2.20	2.20	∞
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1.90	1	1	1.90	1.90	∞
SAR scaling	0	R	$\sqrt{3}$	0.00	1	1	0.00	0.00	∞
Combined uncertainty	/						12.56	12.55	
Expanded Uncertainty (95% Confidence interval)	/						25.11	25.11	

* 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.	Unc. $u(x_i)=a(x_i)/q_i$	Ci (1g)	Ci (10 g)	1g Ui (+ - %)	10 g Ui (+ - %)	Vi v _{eff}
Measurement System									
Probe calibration	16	N (k = 2)	2	8.00	1	1	8.00	8.00	∞
Probe calibration drift	4	R	1.73	2.31	1	1	2.31	2.31	∞
Probe linearity	4.7	R	1.73	2.72	1	1	2.72	2.72	∞
Detection limit	1	R	1.73	0.58	1	1	0.58	0.58	∞
Axial Isotropy	3.5	R	1.73	2.02	1	1	2.02	2.02	∞
Hemispherical Isotropy	5.9	R	1.73	3.41	0.71	0.71	2.42	2.42	∞
Boundary effect	1	R	1.73	0.58	0.71	0.71	0.41	0.41	∞
Integration time	1.4	R	1.73	0.81	1	1	0.81	0.81	∞
Response time	0	R	1.73	0.00	1	1	0.00	0.00	∞
Readout electronics	0.5	N	1	0.50	1	1	0.50	0.50	∞
Noise	3	R	1.73	1.73	1	1	1.73	1.73	∞
Reflections	3	R	1.73	1.73	1	1	1.73	1.73	∞
Positioner Mechanical Tolerance	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Positioning with respect to Phantom Shell	3.28	R	1.73	1.90	0.33	0.33	0.63	0.63	∞
Data processing errors	2.3	R	1.73	1.33	1	1	1.33	1.33	∞
Conductivity measurement	4.07	N	1	4.07	0.79	0.77	3.22	3.13	∞
Permittivity measurement	5.06	N	1	5.06	0.23	0.26	1.16	1.32	∞
Liquid Conductivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.79	0.77	1.14	1.11	∞
Liquid Permittivity - Temperature Uncertainty	2.5	R	1.73	1.45	0.23	0.26	0.33	0.38	∞
Shell permittivity	2.9	R	1.73	1.68	0.25	0.25	0.42	0.42	∞
Distance between the radiating element of the DUT and the phantom medium	2.7	N	1	2.70	2	2	5.40	5.40	∞
Deviation of experimental antennas	4.5	N	1.73	2.60	1	1	2.60	2.60	∞
Other uncertainty contributions	2	R	1	2.00	1	1	2.00	2.00	∞
Uncertainty in accepted power	3	R	1.73	1.73	1	1	1.73	1.73	∞
Phantom deviation from target (ϵ' , σ)	1.9	N	1	1.90	1	0.87	1.90	1.65	∞
$u(\Delta SAR)$	\						12.51	12.47	
Expanded uncertainty (95% confidence interval)	\						25.02	24.93	

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 E-Field Probe 0125-EPGO-445 with following specifications is used:

- Probe Length: 330 mm
- Length of Individual Dipoles: 2mm
- Maximum external diameter: 8 mm
- Probe Tip External Diameter: 2.5 mm
- Distance between dipole/probe extremity: 1 mm
- Dynamic range: 0.01-100 W/kg
- Probe linearity: 3%
- Calibration range: 150 to 6000 MHz for head & body simulating liquid
- Axial Isotropy: <0.10 dB
- Spherical Isotropy: <0.10 dB
- Angle between probe axis (evaluation axis) and surface normal line: less than 30° .



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 $2\text{ mm} \pm 0.2\text{ mm}$. 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	$2 \pm 0.2\text{ mm}$ (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.



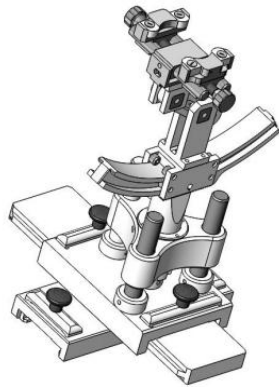
ELLI Phantom

The shape of the phantom is an ellipse with length $600\text{ mm} \pm 5\text{ mm}$ and width $400\text{ mm} \pm 5\text{ mm}$.
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 $f \leq 3\text{ GHz}$
 $3 \leq \epsilon_r' \leq 5$ for $f > 3\text{ GHz}$
The thickness of the bottom-wall of the flat phantom is 2.0 mm with a tolerance of $\pm 0.2\text{ mm}$.

Technical & mechanical characteristics

Shell thickness	$2\text{ mm} \pm 0.2\text{ mm}$
Filling volume	25 L
Dimensions	600 mm x 400 mm x 200 mm
Permittivity	4.4
Loss tangent	0.017

4.2.5 Device Holder



System Material	Permittivity	Loss tangent
Delrin	3.7	0.005

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

System Material	Permittivity	Loss tangent
PMMA	2.9	0.028

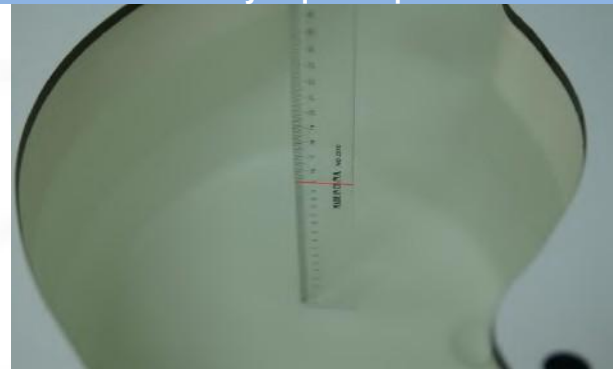
4.2.6 Simulating Liquid

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

Head Liquid Depth



Body Liquid Depth



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

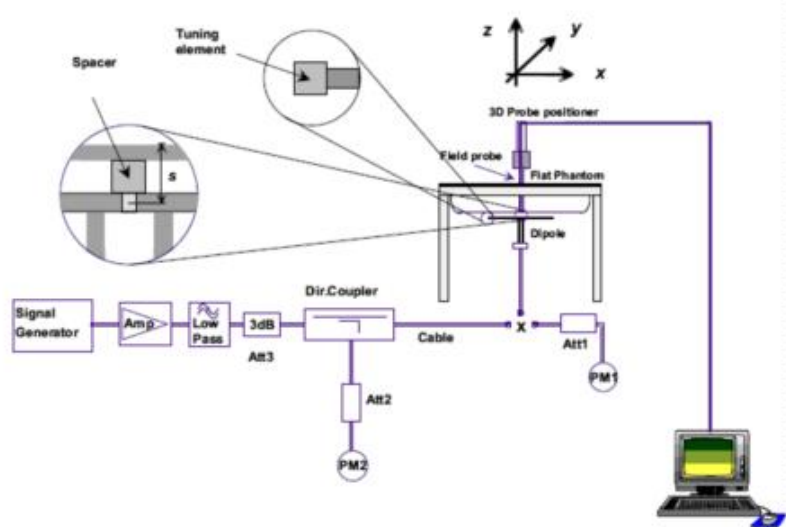
Head (Reference IEEE1528)								
Frequency (MHz)	Water (%)	Sugar (%)	Cellulose (%)	Salt (%)	Preventol (%)	DGBE (%)	Conductivity σ (S/m)	Permittivity ε
750	41.1	57.0	0.2	1.4	0.2	0	0.89	41.9
835	40.3	57.9	0.2	1.4	0.2	0	0.90	41.5
900	40.3	57.9	0.2	1.4	0.2	0	0.97	41.5
1800, 1900, 2000	55.2	0	0	0.3	0	44.5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

5. System Verification

5.1 Purpose of System Check

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

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

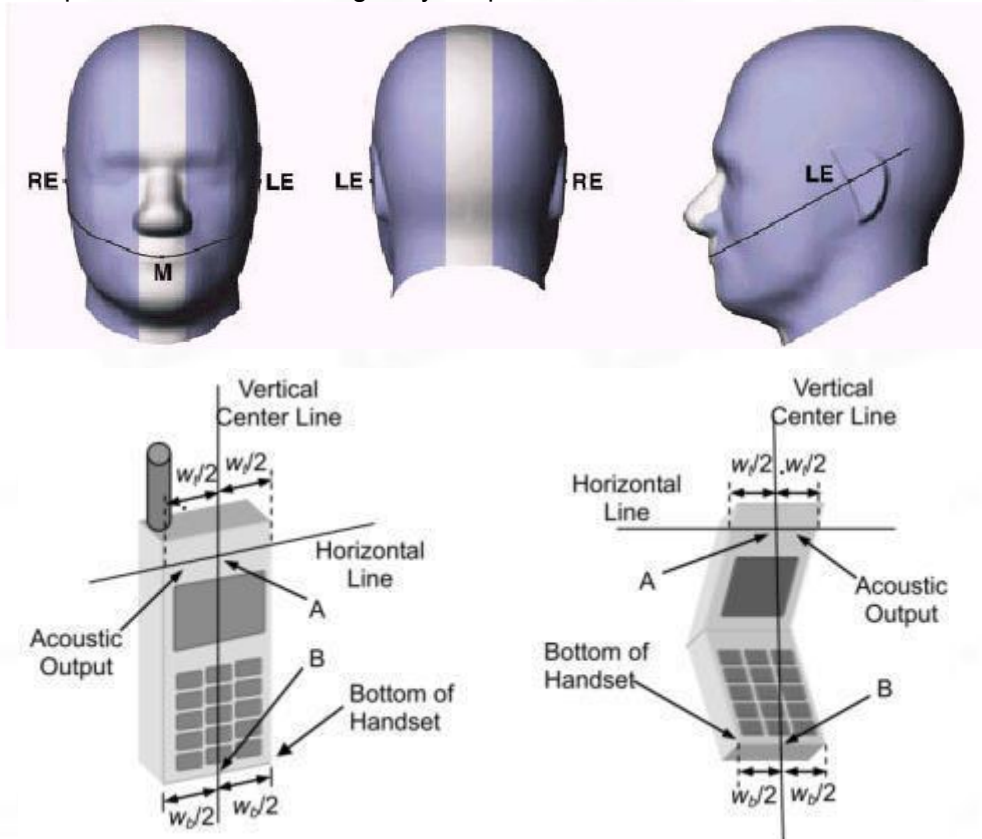
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

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

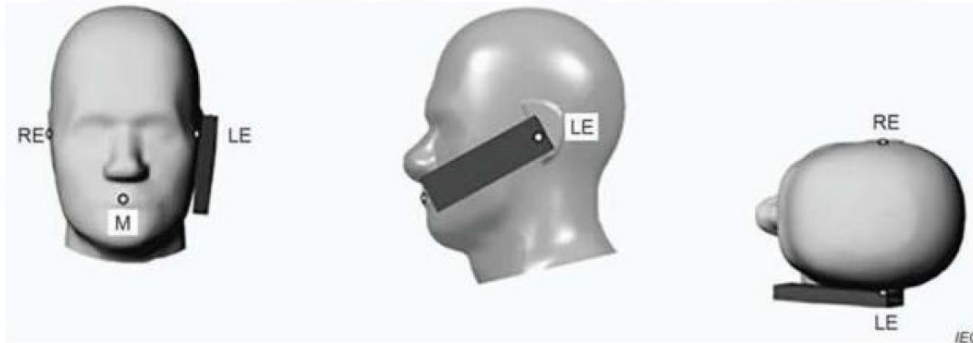
6.1.1 Two Imaginary Lines on the Handset

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



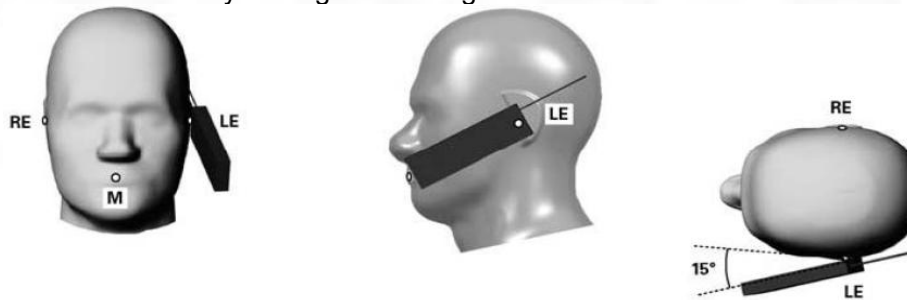
6.1.2 Two Imaginary Lines on the Handset

- 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.
- 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

- To position the device in the “cheek” position described above.
- 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.

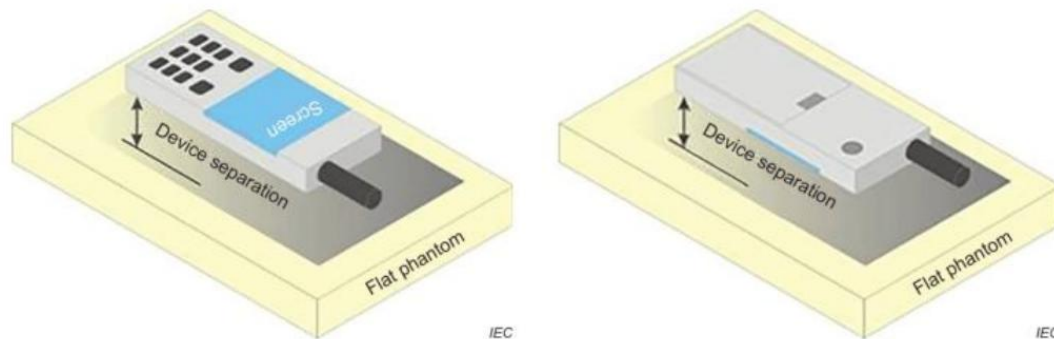


6.2 Body-worn Position Conditions

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.

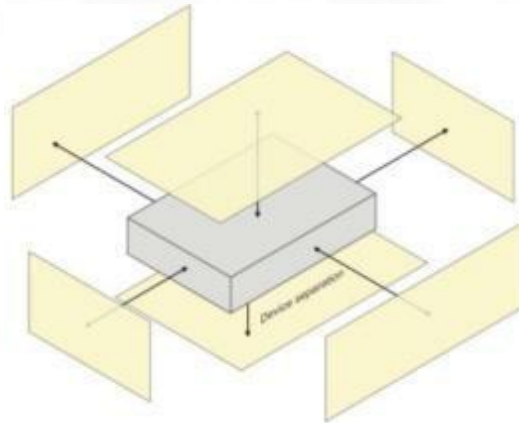
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

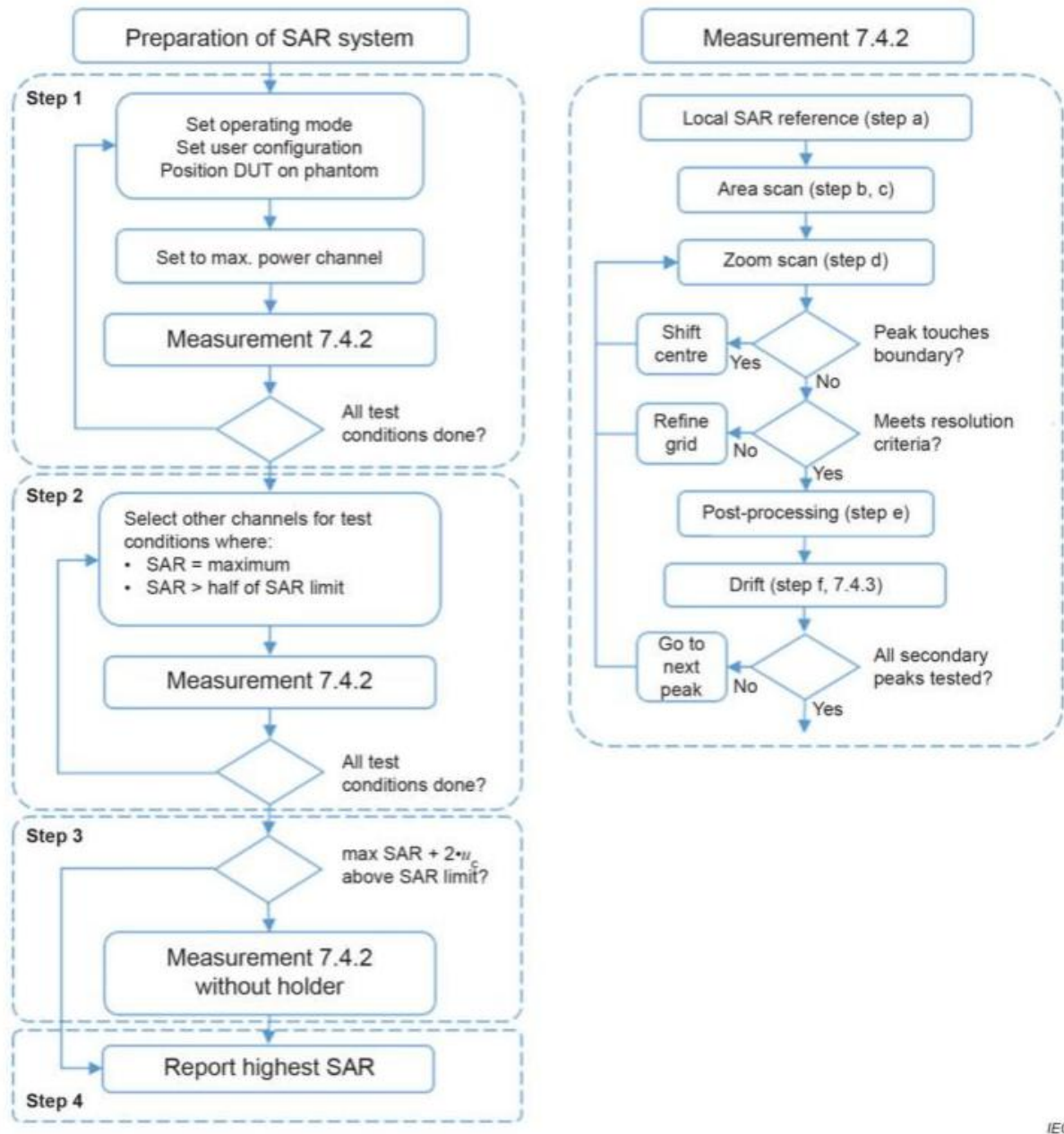
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed 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



IEC

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	½ δ·ln(2)±0.5 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
				5–6 GHz: ≤ 2 mm
	graded grid	Δz Zoom (1): between 1st two points closest to phantom surface	≤ 4 mm	3–4 GHz: ≤ 3 mm
				4–5 GHz: ≤ 2.5 mm
				5–6 GHz: ≤ 2 mm
		≤ 1.5·Δz Zoom (n-1)		
Minimum zoom scan volume	x, y, z		≥30 mm	3–4 GHz: ≥ 28 mm
				4–5 GHz: ≥ 25 mm
				5–6 GHz: ≥ 22 mm
Note:				
1. δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528- 2011 for details.				
2. * When zoom scan is required and the reported SAR from the area scan based 1 g SAR estimation procedures of KDB				
447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.				

7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g.

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 LTE

Band 2

LTE-FDD Band 2				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		18607	18900	19193
					1850.7MHz	1880.0MHz	1909.3MHz
1.4MHz	QPSK	1	0	23.00	22.35	22.34	22.58
			2	23.00	22.34	22.36	22.56
			5	23.00	22.30	22.41	22.54
		3	0	23.00	22.38	22.49	22.65
			2	23.00	22.30	22.44	22.58
			3	23.00	22.39	22.46	22.55
		6	0	22.50	21.80	22.03	21.98
	16QAM	1	0	22.50	21.38	22.21	21.61
			2	22.50	21.38	22.27	21.63
			5	22.50	21.37	22.23	21.67
		3	0	22.50	21.72	22.15	21.99
			2	22.50	21.76	22.11	21.97
			3	22.50	21.74	22.15	21.97
		6	0	21.50	20.95	21.08	21.19
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18615	18900	19185
					1851.5MHz	1880.0MHz	1908.5MHz
3MHz	QPSK	1	0	23.00	22.32	22.43	22.53
			7	23.00	22.39	22.39	22.55
			14	23.00	22.41	22.46	22.56
		8	0	22.50	21.87	21.93	22.16
			4	22.50	21.85	21.97	22.08
			7	22.50	21.86	21.94	22.18
		15	0	22.50	21.88	21.92	22.20
	16QAM	1	0	23.00	21.74	22.54	22.55
			7	23.00	21.82	22.58	22.53
			14	23.00	21.75	22.52	22.52
		8	0	21.50	21.18	21.19	21.47
			4	22.00	21.13	21.17	21.51
			7	21.50	21.20	21.14	21.49
		15	0	21.50	21.03	21.08	21.30
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18625	18900	19175
					1852.5MHz	1880.0MHz	1907.5MHz
5MHz	QPSK	1	0	23.00	22.42	22.48	22.57
			13	23.00	22.21	22.52	22.59
			24	23.00	22.29	22.51	22.59
		12	0	22.50	21.96	22.05	22.13
			6	22.50	21.86	21.93	22.18
			13	22.50	21.81	21.98	22.20
		25	0	22.50	21.90	21.96	22.10
	16QAM	1	0	22.50	21.99	22.13	21.40
			13	22.50	21.99	22.13	21.36
			24	22.50	22.06	22.16	21.38
		12	0	21.50	21.00	21.02	21.19
			6	21.50	21.01	21.06	21.17
			13	21.50	21.06	21.10	21.19
		25	0	21.50	21.07	21.04	21.25

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	23.00	22.25	22.42	22.66
			25	23.00	22.30	22.44	22.64
			49	23.00	22.33	22.50	22.71
		25	0	22.50	21.91	22.10	22.08
			13	22.50	21.79	22.00	22.07
			25	22.50	22.04	22.08	22.14
		50	0	22.50	22.01	21.94	22.07
	16QAM	1	0	23.00	22.77	22.19	21.58
			25	23.00	22.77	22.20	21.70
			49	23.00	22.80	22.23	21.71
		25	0	21.50	21.02	21.08	21.30
			13	21.50	21.14	21.15	21.32
			25	21.50	21.07	21.12	21.35
		50	0	21.50	21.08	21.07	21.27
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18675	18900	19125
					1857.5MHz	1880.0MHz	1902.5MHz
15MHz	QPSK	1	0	23.00	22.30	22.39	22.52
			38	23.00	22.35	22.44	22.53
			74	23.00	22.33	22.54	22.60
		36	0	22.50	21.97	21.98	22.15
			18	22.50	21.93	21.94	22.18
			39	22.50	21.99	22.06	22.19
		75	0	22.50	21.93	22.02	22.11
	16QAM	1	0	22.50	22.28	22.21	22.33
			38	22.50	22.30	22.31	22.35
			74	22.50	22.24	22.39	22.43
		36	0	21.50	21.05	21.18	21.32
			18	21.50	21.02	21.18	21.36
			39	21.50	21.01	21.19	21.33
		75	0	21.50	21.07	21.16	21.22
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	18700	18900	19100
					1860.0MHz	1880.0MHz	1900.0MHz
20MHz	QPSK	1	0	23.00	22.42	22.54	22.64
			50	23.00	22.46	22.51	22.68
			99	23.00	22.49	22.66	22.76
		50	0	22.50	21.88	21.98	22.15
			25	22.50	21.92	21.97	22.12
			50	22.50	22.01	22.08	22.13
		100	0	22.50	21.88	21.98	22.12
	16QAM	1	0	23.00	22.63	22.05	22.04
			50	23.00	22.66	22.07	22.11
			99	23.00	22.75	22.16	22.21
		50	0	21.50	21.09	21.19	21.25
			25	21.50	21.01	21.21	21.34
			50	21.50	20.98	21.25	21.31
		100	0	21.50	21.16	21.10	21.22

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	23.00	22.53	22.51	22.61
			2	23.00	22.58	22.69	22.55
			5	23.00	22.65	22.70	22.58
		3	0	23.00	22.55	22.55	22.59
			2	23.00	22.56	22.59	22.57
			3	23.00	22.50	22.52	22.64
		6	0	22.50	22.09	22.03	21.99
	16QAM	1	0	22.50	21.51	22.27	22.30
			2	22.50	21.57	22.29	22.31
			5	22.50	21.55	22.29	22.34
		3	0	22.50	21.99	22.28	21.81
			2	22.50	22.01	22.29	21.80
			3	22.50	21.97	22.30	21.78
		6	0	21.50	21.09	21.25	21.06
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19965	20175	20385
					1711.5MHz	1732.5MHz	1753.5MHz
3MHz	QPSK	1	0	23.00	22.50	22.39	22.34
			7	23.00	22.56	22.47	22.37
			14	23.00	22.55	22.44	22.38
		8	0	22.50	21.98	21.98	22.07
			4	22.50	21.95	21.95	22.01
			7	22.50	22.01	21.95	22.01
		15	0	22.50	22.04	21.89	21.98
	16QAM	1	0	23.00	21.95	22.69	22.12
			7	23.00	21.91	22.73	22.11
			14	23.00	21.97	22.67	22.05
		8	0	21.50	21.22	21.25	21.24
			4	21.50	21.21	21.23	21.18
			7	21.50	21.24	21.22	21.18
		15	0	21.50	21.17	21.10	21.09
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	19976	20175	20375
					1712.5MHz	1732.5MHz	1752.5MHz
5MHz	QPSK	1	0	23.00	22.58	22.60	22.41
			13	23.00	22.42	22.51	22.44
			24	23.00	22.43	22.55	22.45
		12	0	22.50	22.01	21.99	22.00
			6	22.50	22.13	22.11	22.00
			13	22.50	22.06	22.05	21.98
		25	0	22.50	22.07	22.05	22.00
	16QAM	1	0	22.50	22.19	22.20	21.33
			13	22.50	22.24	22.18	21.34
			24	22.50	22.33	22.25	21.28
		12	0	21.50	21.14	21.14	21.18
			6	21.50	21.17	21.18	21.15
			13	21.50	21.16	21.16	21.13
		25	0	21.50	21.29	21.12	21.17

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	23.00	22.63	22.73	22.52
			25	23.00	22.67	22.63	22.54
			49	23.00	22.61	22.65	22.51
		25	0	22.50	22.17	22.02	22.00
			13	22.50	22.06	22.06	21.95
			25	22.50	22.17	22.06	22.12
	50	0	22.50	22.18	22.08	22.14	
	16QAM	1	0	22.50	21.59	22.33	22.38
			25	22.50	21.63	22.32	22.38
			49	22.50	21.67	22.28	22.38
		25	0	21.50	21.28	21.28	21.14
			13	21.50	21.31	21.35	21.16
			25	21.50	21.32	21.30	21.19
	50	0	21.50	21.15	21.28	21.23	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20025	20175	20325
					1717.5MHz	1732.5MHz	1747.5MHz
15MHz	QPSK	1	0	23.00	22.56	22.55	22.46
			38	23.00	22.59	22.55	22.51
			74	23.00	22.53	22.58	22.56
		36	0	22.50	22.23	22.21	22.05
			18	22.50	22.07	22.06	21.96
			39	22.50	22.22	22.15	22.08
	75	0	22.50	22.17	22.12	21.92	
	16QAM	1	0	23.00	22.42	22.86	22.38
			38	23.00	22.44	22.83	22.44
			74	23.00	22.43	22.77	22.39
		36	0	21.50	21.18	21.16	21.30
			18	21.50	21.21	21.24	21.22
			39	21.50	21.27	21.15	21.30
	75	0	21.50	21.26	21.25	21.13	
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20050	20175	20300
					1720.0MHz	1732.5MHz	1745.0MHz
20MHz	QPSK	1	0	23.00	22.61	22.55	22.89
			50	23.00	22.68	22.54	22.89
			99	23.00	22.71	22.59	22.94
		50	0	22.50	22.20	22.14	22.03
			25	22.50	22.15	22.08	22.06
			50	22.50	22.19	22.16	22.04
	100	0	22.50	22.14	22.12	22.19	
	16QAM	1	0	23.00	22.89	22.45	21.49
			50	23.00	22.94	22.40	21.59
			99	23.00	22.97	22.45	21.63
		50	0	21.50	21.18	21.21	21.27
			25	21.50	21.25	21.26	21.32
			50	21.50	21.23	21.26	21.34
	100	0	21.50	21.26	21.22	21.14	

Band 5

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20407	20525	20643
					824.7MHz	836.5MHz	848.3MHz
1.4MHz	QPSK	1	0	23.00	22.62	22.43	22.59
			2	23.00	22.61	22.59	22.62
			5	23.00	22.64	22.57	22.63
		3	0	23.00	22.58	22.73	22.58
			2	23.00	22.63	22.66	22.62
			3	23.00	22.67	22.64	22.58
		6	0	22.50	22.20	22.14	21.99
	16QAM	1	0	22.50	21.63	22.24	21.64
			2	22.50	21.68	22.25	21.66
			5	22.50	21.67	22.27	21.67
		3	0	22.50	21.96	22.12	21.90
			2	22.50	21.97	22.09	21.82
			3	22.50	21.95	22.06	21.83
		6	0	21.50	21.48	21.25	21.31
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20415	20525	20635
					825.5MHz	836.5MHz	847.5MHz
3MHz	QPSK	1	0	23.00	22.60	22.52	22.52
			7	23.00	22.59	22.60	22.48
			14	23.00	22.56	22.61	22.46
		8	0	22.50	22.19	22.14	22.05
			4	22.50	22.18	22.19	22.01
			7	22.50	22.08	22.20	22.08
		15	0	22.50	22.11	22.20	22.15
	16QAM	1	0	23.00	21.91	22.86	22.40
			7	23.00	21.91	22.91	22.39
			14	23.00	21.88	22.86	22.29
		8	0	22.00	21.60	21.29	21.38
			4	22.00	21.61	21.33	21.35
			7	21.50	21.34	21.30	21.44
		15	0	21.50	21.47	21.25	21.18

LTE-FDD Band 5				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		20425	20525	20625
					826.5MHz	836.5MHz	846.5MHz
5MHz	QPSK	1	0	23.00	22.68	22.66	22.54
			13	23.00	22.52	22.68	22.60
			24	23.00	22.50	22.65	22.51
		12	0	22.50	22.11	22.11	22.13
			6	22.50	22.12	22.14	22.08
			13	22.50	22.10	22.17	22.07
		25	0	22.50	22.12	22.15	22.09
	16QAM	1	0	22.50	22.29	22.29	21.20
			13	22.50	22.23	22.25	21.22
			24	22.50	22.35	22.22	21.21
		12	0	21.50	21.44	21.22	21.19
			6	21.50	21.20	21.28	21.20
			13	21.50	21.19	21.28	21.14
		25	0	21.50	21.37	21.21	21.25

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	20450	20525	20600
					829.0MHz	836.5MHz	844.0MHz
10MHz	QPSK	1	0	23.00	22.69	22.72	22.51
			25	23.00	22.63	22.72	22.38
			49	23.00	22.67	22.74	22.50
		25	0	22.50	22.01	22.11	22.14
			13	22.50	22.12	22.26	21.99
			25	22.50	22.13	22.07	22.13
		50	0	22.50	22.18	22.21	22.02
			0	22.50	21.66	22.32	22.30
			25	22.50	21.62	22.37	22.27
	16QAM	1	49	22.50	21.68	22.32	22.36
			0	21.50	21.43	21.34	21.22
			13	21.50	21.33	21.33	21.09
		25	25	22.00	21.60	21.43	21.20
			0	21.50	21.28	21.33	21.15
			0	21.50	21.28	21.33	21.15
		50	0	21.50	21.28	21.33	21.15

Band 12

LTE-FDD Band 12				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23017	23095	23173
1.4MHz	QPSK	1	0	23.00	22.57	22.41	22.30
			2	23.00	22.60	22.58	22.49
			5	23.00	22.60	22.57	22.40
		3	0	23.00	22.59	22.57	22.49
			2	23.00	22.57	22.58	22.60
			3	23.00	22.59	22.59	22.55
		6	0	22.50	21.99	22.15	21.87
			0	22.50	21.55	22.17	22.12
			2	22.50	21.62	22.19	22.12
	16QAM	1	5	22.50	21.56	22.15	22.14
			0	22.50	21.91	22.05	21.91
			2	22.50	21.84	22.10	21.91
		3	3	22.50	21.81	22.12	21.91
			0	21.50	21.41	21.23	21.34
			0	21.50	21.41	21.23	21.34
		6	0	21.50	21.41	21.23	21.34
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23025	23095	23165
3MHz	QPSK	1	0	23.00	22.55	22.44	22.48
			7	23.00	22.52	22.52	22.42
			14	23.00	22.68	22.56	22.42
		8	0	22.50	22.08	22.05	22.02
			4	22.50	22.11	22.01	22.04
			7	22.50	22.16	22.05	22.02
		15	0	22.50	22.05	22.16	22.01
			0	23.00	21.81	22.83	22.33
			7	23.00	21.78	22.87	22.27
	16QAM	1	14	23.00	21.89	22.82	22.24
			0	21.50	21.47	21.37	21.27
			4	21.50	21.46	21.17	21.29
		8	7	22.00	21.60	21.20	21.51
			0	21.50	21.29	21.15	21.07
			0	21.50	21.29	21.15	21.07
		15	0	21.50	21.29	21.15	21.07

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23035	23095	23155
					701.5MHz	707.5MHz	713.5MHz
5MHz	QPSK	1	0	23.00	22.59	22.58	22.46
			13	22.50	22.38	22.46	22.47
			24	22.50	22.48	22.47	22.49
		12	0	22.50	22.04	22.15	22.00
			6	22.50	22.11	22.02	22.07
			13	22.50	22.05	22.15	22.08
	16QAM	25	0	22.50	22.04	22.10	21.94
			0	22.50	22.13	22.06	21.06
			13	22.50	22.17	21.92	21.08
		1	24	22.50	22.18	21.94	21.09
			0	21.50	21.30	21.29	21.02
			6	21.50	21.36	21.20	21.00
		12	13	21.50	21.34	21.14	21.02
			25	21.50	21.43	21.18	21.14
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23060	23095	23130
					704.0MHz	707.5MHz	711.0MHz
10MHz	QPSK	1	0	23.00	22.39	22.62	22.40
			25	23.00	22.43	22.62	22.46
			49	23.00	22.38	22.61	22.54
		25	0	22.50	22.03	22.03	21.98
			13	22.50	22.06	21.96	21.95
			25	22.50	21.98	22.01	22.02
	16QAM	50	0	22.50	22.05	22.09	22.01
			0	22.50	22.11	21.55	22.11
			25	22.50	22.08	21.55	22.10
		1	49	22.50	22.11	21.53	22.18
			0	22.00	21.14	21.56	21.11
			13	21.50	21.08	21.14	21.07
		25	25	21.50	21.49	21.18	21.08
			50	21.50	21.21	21.05	21.10

Band 17

LTE-FDD Band 17				Maximum Tune-up(dBm)	Conducted Power(dBm)		
Bandwidth	Modulation	RB allocation	RB offset		23755	23790	23825
5MHz	QPSK	1	0	23.00	22.51	22.57	22.36
			13	22.50	22.39	22.48	22.38
			24	23.00	22.48	22.53	22.43
		12	0	22.00	21.93	21.99	21.98
			6	22.50	22.00	22.06	22.01
			13	22.50	22.03	21.99	21.95
	16QAM	25	0	22.50	22.04	22.02	21.99
			0	22.50	22.00	21.14	22.09
			13	22.50	21.91	21.13	22.06
		1	24	22.50	21.95	21.19	22.09
			0	21.50	21.49	21.02	21.10
			6	21.50	21.45	20.98	21.03
		12	13	21.50	21.09	21.02	21.05
			25	21.50	21.44	21.05	21.10

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	23780	23790	23800
					709MHz	710MHz	711MHz
10MHz	QPSK	1	0	23.00	22.61	22.50	22.34
			25	23.00	22.54	22.46	22.41
			49	23.00	22.63	22.50	22.42
		25	0	22.00	21.97	21.94	21.92
			13	22.50	21.95	22.02	21.94
			25	22.50	22.09	21.96	21.97
		50	0	22.50	22.04	21.98	22.04
	16QAM	1	0	22.50	21.50	22.13	22.05
			25	22.50	21.56	22.14	22.09
			49	22.50	21.53	22.22	22.09
		25	0	22.00	21.54	21.13	21.04
			13	21.50	21.16	21.05	20.96
			25	21.50	21.21	21.13	21.09
		50	0	21.50	21.07	21.14	21.09

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	23.50	23.38	23.21	23.20
			2	23.50	23.19	23.21	23.33
			5	23.50	23.33	23.25	23.31
		3	0	23.50	23.42	23.20	23.39
			2	23.50	23.36	23.24	23.37
			3	23.50	23.43	23.37	23.45
		6	0	22.50	22.37	22.19	22.28
	16QAM	1	0	23.00	22.54	22.66	22.90
			2	23.00	22.53	22.56	22.38
			5	23.00	22.57	22.59	22.44
		3	0	23.00	22.54	22.05	22.28
			2	23.00	22.59	22.13	22.32
			3	23.00	22.52	22.08	22.29
		6	0	22.00	21.52	21.46	21.38
					131987	132322	132657
					1711.5MHz	1745.0MHz	1778.5MHz
3MHz	QPSK	1	0	23.50	22.78	23.30	23.05
			7	23.50	22.88	23.27	23.00
			14	23.50	22.93	23.27	23.11
		8	0	22.50	21.95	22.00	22.09
			4	22.50	21.95	22.05	22.20
			7	22.50	21.91	21.98	22.13
		15	0	22.50	22.04	22.05	22.15
	16QAM	1	0	23.00	22.19	22.22	22.94
			7	23.00	22.26	22.18	22.99
			14	23.00	22.24	22.24	22.98
		8	0	21.50	21.33	21.36	21.38
			4	21.50	21.28	21.31	21.36
			7	21.50	21.27	21.37	21.37
		15	0	21.50	21.15	21.16	21.27

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	131997	132322	132647
					1712.5MHz	1745.0MHz	1777.5MHz
5MHz	QPSK	1	0	23.50	22.92	23.09	23.12
			13	23.50	22.87	23.01	23.22
			24	23.50	23.02	23.05	23.05
		12	0	22.50	22.12	21.98	22.08
			6	22.50	21.99	22.02	22.12
			13	22.50	22.03	22.02	22.19
	16QAM	25	0	22.50	22.00	22.01	22.06
			0	22.50	22.17	22.22	21.29
			13	22.50	22.14	22.16	21.26
		12	24	22.50	22.14	22.29	21.38
			0	21.50	21.17	21.10	21.22
			6	21.50	21.10	21.17	21.21
		25	13	21.50	21.14	21.09	21.24
			0	21.50	21.23	21.12	21.28
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132022	132322	132622
					1715.0MHz	1745.0MHz	1775.0MHz
10MHz	QPSK	1	0	23.50	23.11	23.01	23.00
			25	23.50	23.13	23.01	23.07
			49	23.50	23.14	23.08	23.05
		25	0	22.50	22.07	21.95	22.21
			13	22.50	22.05	22.03	22.10
			25	22.50	22.08	22.01	22.07
	16QAM	50	0	22.50	22.11	22.10	22.14
			0	23.00	21.58	22.75	22.34
			25	23.00	21.54	22.70	22.32
		1	49	23.00	21.60	22.76	22.46
			0	21.50	21.29	21.21	21.27
		25	13	21.50	21.21	21.18	21.27
			25	21.50	21.26	21.17	21.22
		50	0	21.50	21.10	21.18	21.24

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	23.50	22.89	22.97	23.03
			38	23.50	22.90	23.01	23.05
			74	23.50	22.91	23.11	23.05
		36	0	22.50	22.12	22.16	22.08
			18	22.50	22.00	22.13	22.18
			39	22.50	22.09	22.16	22.15
		75	0	22.50	22.07	22.12	22.11
	16QAM	1	0	23.50	22.37	23.16	22.32
			38	23.50	22.35	23.15	22.45
			74	23.50	22.29	23.15	22.43
		36	0	21.50	21.11	21.12	21.29
			18	21.50	21.14	21.14	21.36
			39	21.50	21.21	21.17	21.36
		75	0	21.50	21.15	21.16	21.26

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	132072	132322	132572
					1720.0MHz	1745.0MHz	1770.0MHz
20MHz	QPSK	1	0	23.50	23.03	23.03	23.15
			50	23.50	23.16	23.01	23.24
			99	23.50	23.16	23.12	23.22
		50	0	22.50	22.09	22.03	22.08
			25	22.50	22.09	22.08	22.07
			50	22.50	22.09	22.15	22.07
		100	0	22.50	22.17	21.97	22.09
	16QAM	1	0	23.00	22.87	22.57	22.06
			50	23.00	22.88	22.55	22.10
			99	23.00	22.88	22.62	22.19
		50	0	21.50	21.08	21.28	21.27
			25	21.50	21.15	21.29	21.27
			50	21.50	21.19	21.37	21.28
		100	0	21.50	21.27	21.05	21.21

Band 71

LTE-FDD Band 71				Maximum Tune-up(dBm)	Conducted Power(dBm)			
Bandwidth	Modulation	RB allocation	RB offset		133147	133297	133447	
					665.5MHz	680.5MHz	695.5MHz	
5MHz	QPSK	1	0	23.50	23.06	22.86	22.70	
			13	23.50	23.02	22.92	22.77	
			24	23.50	23.04	22.82	22.74	
		12	0	22.00	21.98	21.95	21.79	
			6	22.00	21.86	21.89	21.73	
			13	22.00	21.88	21.97	21.79	
		25	0	22.00	21.94	21.78	21.86	
		16QAM	1	0	22.00	21.81	20.99	21.89
				13	22.00	21.85	20.99	21.91
	24			22.00	21.81	20.95	21.88	
	12		0	21.00	20.95	20.95	20.85	
			6	21.00	20.86	20.92	20.79	
			13	21.00	20.84	20.85	20.85	
	25	0	21.50	20.93	21.00	20.93		
	Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133172	133297	133422
668.0MHz						680.5MHz	693.0MHz	
10MHz	QPSK	1	0	23.00	22.94	22.85	22.70	
			25	23.00	22.80	22.83	22.70	
			49	23.00	22.79	22.86	22.74	
		25	0	22.00	21.98	21.92	21.89	
			13	22.00	21.78	21.83	21.75	
			25	22.00	21.92	21.85	21.81	
		50	0	22.00	21.89	21.88	21.77	
		16QAM	1	0	22.50	21.71	22.01	22.00
				25	22.50	21.61	22.07	21.89
	49			22.50	21.55	22.03	22.02	
	25		0	21.50	21.10	20.95	21.10	
			13	21.50	21.10	20.92	20.80	
			25	21.50	21.10	20.96	20.88	
	50	0	21.00	20.99	20.91	20.81		

Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133197	133297	133397
					670.5MHz	680.5MHz	690.5MHz
15MHz	QPSK	1	0	23.00	22.49	22.52	22.61
			38	23.00	22.54	22.58	22.67
			74	23.00	22.55	22.61	22.60
		36	0	22.00	21.53	21.74	21.73
			18	22.00	21.71	21.71	21.60
			39	22.00	21.69	21.64	21.69
		75	0	22.00	21.63	21.64	21.59
	16QAM	1	0	23.00	22.52	21.80	21.98
			38	22.50	22.45	21.79	21.95
			74	23.00	22.54	21.81	21.96
		36	0	21.00	20.54	20.84	20.98
			18	21.00	20.73	20.87	20.97
			39	21.00	20.96	20.87	20.62
		75	0	21.00	20.76	20.77	20.98
Bandwidth	Modulation	RB allocation	RB offset	Maximum Tune-up(dBm)	133222	133322	133372
					673.0MHz	683.0MHz	688.0MHz
20MHz	QPSK	1	0	23.00	22.64	22.68	22.67
			50	23.00	22.58	22.64	22.67
			99	23.00	22.60	22.70	22.75
		50	0	22.00	21.72	21.80	21.74
			25	22.00	21.69	21.61	21.59
			50	22.00	21.67	21.72	21.67
		100	0	22.00	21.64	21.66	21.61
	16QAM	1	0	22.50	22.22	22.23	21.31
			50	22.50	22.17	22.17	21.34
			99	22.50	22.25	22.15	21.31
		50	0	21.00	20.61	20.80	20.83
			25	21.00	20.73	20.80	20.97
			50	21.50	20.76	21.02	20.71
		100	0	21.00	20.76	20.67	20.81

8.2 Wi-Fi

Band (GHz)	Mode	Channel	Freq. (MHz)	Average Power (dBm)	Maximum Tune-up(dBm)	SAR Test Require.
2.4g Wifi (2.4~2.4835)	802.11b	1	2412	14.77	15.00	No
		6	2437	15.01	15.50	Yes
		11	2462	14.89	15.00	No
	802.11g	1	2412	14.77	15.00	No
		6	2437	14.72	15.00	No
		11	2462	14.57	15.00	No
	802.11n(HT20)	1	2412	14.45	14.50	No
		6	2437	14.77	15.00	No
		11	2462	14.61	15.00	No
	802.11n(HT40)	1	2422	14.75	15.00	No
		6	2437	14.80	15.00	No
		11	2452	14.78	15.00	No

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

8.3 Bluetooth

EDR	Mode	Maximum Tune-up(dBm)	Conducted Output Power (dBm)		
			0	39	78
			2402MHz	2441MHz	2480MHz
	GFSK	7.50	6.19	7.31	7.32
	$\pi/4$ QPSK	7.50	5.43	7.04	6.95
	8DPSK	7.50	5.78	7.38	7.23

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	7.50	5.62	0	10	No
39	2.441	7.50	5.62	10	19	No

Note:

1. Per KDB 447498 D01 General RF Exposure Guidance v06, the 1-g SAR test SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 25 mm (Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table. The equation and threshold in 4.3.1 must be applied to determine SAR test exclusion.) by:

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	

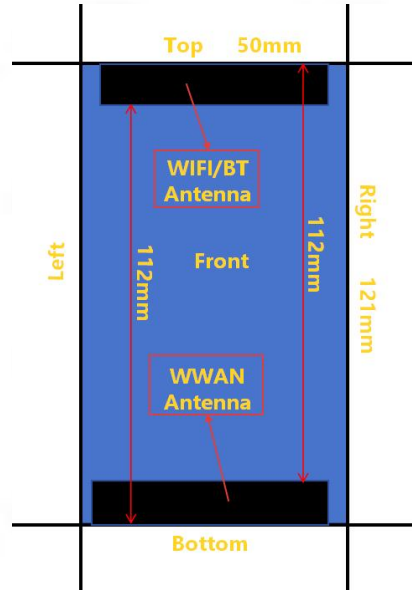
*When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine estimated SAR.

2. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.

3. The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

9. Test Exclusion Consideration

Antenna information:



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

Distance of The Antenna to the EUT surface and edge (mm)						
Antenna	Front Side (mm)	Back Side (mm)	Left Edge (mm)	Right Edge (mm)	Top Edge (mm)	Bottom Edge (mm)
WWAN	<25	<25	<25	<25	112	<25
BT/Wifi	<25	<25	<25	<25	<25	112
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	Yes	Yes	No	Yes
BT/Wifi	Yes	Yes	Yes	Yes	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
					Test Dist.(mm)	0	10
BT	39	2.441	7.50	5.62	Estimated SAR(W/kg)	0.234	0.117

10. Test Result

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Left Cheek	19100	1900.0	0.840	0.214	22.76	23.00	1.057	0.226	/
		Left Tilt	19100	1900.0	3.620	0.122	22.76	23.00	1.057	0.129	/
		Right Cheek	19100	1900.0	-1.380	0.227	22.76	23.00	1.057	0.240	1#
		Right Tilt	19100	1900.0	2.110	0.131	22.76	23.00	1.057	0.138	/
	50%RB	Left Cheek	19100	1900.0	4.260	0.180	22.15	22.50	1.084	0.195	/
		Left Tilt	19100	1900.0	0.960	0.096	22.15	22.50	1.084	0.104	/
		Right Cheek	19100	1900.0	-1.470	0.189	22.15	22.50	1.084	0.205	/
		Right Tilt	19100	1900.0	3.660	0.105	22.15	22.50	1.084	0.114	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 2 (BW: 20MHz)	1RB	Front	19100	1900.0	4.950	0.470	22.76	23.00	1.057	0.497	/
		Back	19100	1900.0	-3.080	0.573	22.76	23.00	1.057	0.606	2#
		Left	19100	1900.0	1.660	0.412	22.76	23.00	1.057	0.435	/
		Right	19100	1900.0	0.580	0.388	22.76	23.00	1.057	0.410	/
		Bottom	19100	1900.0	-0.560	0.530	22.76	23.00	1.057	0.560	/
	50%RB	Front	19100	1900.0	2.890	0.456	22.15	22.50	1.084	0.494	/
		Back	19100	1900.0	-2.740	0.546	22.15	22.50	1.084	0.592	/
		Left	19100	1900.0	3.470	0.386	22.15	22.50	1.084	0.418	/
		Right	19100	1900.0	1.140	0.370	22.15	22.50	1.084	0.401	/
		Bottom	19100	1900.0	-4.880	0.519	22.15	22.50	1.084	0.563	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	3.280	1.058	22.94	23.00	1.014	1.073	/
		Left Tilt	20300	1745.0	2.640	0.551	22.94	23.00	1.014	0.559	/
		Right Cheek	20050	1720.0	0.520	1.009	22.71	23.00	1.069	1.079	/
		Right Cheek	20175	1732.5	-1.250	0.977	22.59	23.00	1.099	1.074	/
		Right Cheek	20300	1745.0	-3.960	1.108	22.94	23.00	1.014	1.124	3#
		Right Cheek-Repeat	20300	1745.0	3.220	1.095	22.94	23.00	1.014	1.110	/
		Right Tilt	20300	1745.0	1.770	0.566	22.94	23.00	1.014	0.574	/
	50%RB	Left Cheek	20300	1745.0	0.150	0.956	22.06	22.50	1.107	1.058	/
		Left Tilt	20300	1745.0	4.810	0.518	22.06	22.50	1.107	0.573	/
		Right Cheek	20300	1745.0	2.950	0.968	22.06	22.50	1.107	1.072	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	2.890	0.907	22.94	23.00	1.014	0.920	/
		Back	20050	1720.0	3.610	0.956	22.71	23.00	1.069	1.022	/
		Back	20175	1732.5	-0.140	0.941	22.59	23.00	1.099	1.034	/
		Back	20300	1745.0	0.560	1.022	22.94	23.00	1.014	1.036	4#
		Back-Repeat	20300	1745.0	4.800	1.003	22.94	23.00	1.014	1.017	/
		Left	20300	1745.0	-1.640	0.758	22.94	23.00	1.014	0.769	/
		Right	20300	1745.0	3.610	0.735	22.94	23.00	1.014	0.745	/
		Bottom	20300	1745.0	-1.780	0.952	22.94	23.00	1.014	0.965	/
	50%RB	Front	20300	1745.0	2.550	0.852	22.06	22.50	1.107	0.943	/
		Back	20300	1745.0	-1.290	0.975	22.06	22.50	1.107	1.079	/
		Left	20300	1745.0	4.090	0.688	22.06	22.50	1.107	0.762	/
		Right	20300	1745.0	3.100	0.650	22.06	22.50	1.107	0.720	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Left Cheek	20525	836.5	4.070	0.450	22.74	23.00	1.062	0.478	/
		Left Tilt	20525	836.5	-1.210	0.243	22.74	23.00	1.062	0.258	/
		Right Cheek	20525	836.5	-2.250	0.488	22.74	23.00	1.062	0.518	5#
		Right Tilt	20525	836.5	3.290	0.252	22.74	23.00	1.062	0.268	/
	50%RB	Left Cheek	20525	836.5	-0.220	0.425	22.26	22.50	1.057	0.449	/
		Left Tilt	20525	836.5	-1.750	0.211	22.26	22.50	1.057	0.223	/
		Right Cheek	20525	836.5	0.990	0.440	22.26	22.50	1.057	0.465	/
		Right Tilt	20525	836.5	-1.090	0.220	22.26	22.50	1.057	0.233	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 5 (BW: 10MHz)	1RB	Front	20525	836.5	3.270	0.467	22.74	23.00	1.062	0.496	/
		Back	20525	836.5	-2.920	0.568	22.74	23.00	1.062	0.603	6#
		Left	20525	836.5	0.110	0.385	22.74	23.00	1.062	0.409	/
		Right	20525	836.5	-2.200	0.372	22.74	23.00	1.062	0.395	/
		Bottom	20525	836.5	3.980	0.526	22.74	23.00	1.062	0.559	/
	50%RB	Front	20525	836.5	-4.180	0.433	22.26	22.50	1.057	0.458	/
		Back	20525	836.5	-1.660	0.531	22.26	22.50	1.057	0.561	/
		Left	20525	836.5	-2.090	0.343	22.26	22.50	1.057	0.363	/
		Right	20525	836.5	-3.810	0.337	22.26	22.50	1.057	0.356	/
		Bottom	20525	836.5	-0.450	0.502	22.26	22.50	1.057	0.531	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	1.330	0.452	22.62	23.00	1.091	0.493	/
		Left Tilt	23095	707.5	-0.140	0.221	22.62	23.00	1.091	0.241	/
		Right Cheek	23095	707.5	-2.890	0.466	22.62	23.00	1.091	0.508	7#
		Right Tilt	23095	707.5	3.960	0.229	22.62	23.00	1.091	0.250	/
	50%RB	Left Cheek	23095	707.5	-1.100	0.414	22.03	22.50	1.114	0.461	/
		Left Tilt	23095	707.5	-2.500	0.188	22.03	22.50	1.114	0.209	/
		Right Cheek	23095	707.5	-4.300	0.426	22.03	22.50	1.114	0.475	/
		Right Tilt	23095	707.5	0.840	0.201	22.03	22.50	1.114	0.224	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 12 (BW: 10MHz)	1RB	Front	23095	707.5	-3.750	0.475	22.62	23.00	1.091	0.666	/
		Back	23095	707.5	-1.300	0.610	22.62	23.00	1.091	0.352	8#
		Left	23095	707.5	4.210	0.323	22.62	23.00	1.091	0.345	/
		Right	23095	707.5	-0.620	0.316	22.62	23.00	1.091	0.582	/
		Bottom	23095	707.5	2.070	0.533	22.62	23.00	1.091	0.491	/
	50%RB	Front	23095	707.5	4.290	0.441	22.03	22.50	1.114	0.652	/
		Back	23095	707.5	2.600	0.585	22.03	22.50	1.114	0.322	/
		Left	23095	707.5	1.210	0.289	22.03	22.50	1.114	0.312	/
		Right	23095	707.5	-0.610	0.280	22.03	22.50	1.114	0.558	/
		Bottom	23095	707.5	4.900	0.501	22.03	22.50	1.114	0.666	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 17 (BW: 10MHz)	1RB	Left Cheek	23780	709	-3.300	0.388	22.63	23.00	1.089	0.423	/
		Left Tilt	23780	709	-4.550	0.190	22.63	23.00	1.089	0.207	/
		Right Cheek	23780	709	-1.820	0.397	22.63	23.00	1.089	0.432	9#
		Right Tilt	23780	709	2.180	0.198	22.63	23.00	1.089	0.216	/
	50%RB	Left Cheek	23780	709	0.700	0.343	22.09	22.50	1.099	0.377	/
		Left Tilt	23780	709	-2.010	0.147	22.09	22.50	1.099	0.162	/
		Right Cheek	23780	709	3.120	0.352	22.09	22.50	1.099	0.387	/
		Right Tilt	23780	709	4.750	0.156	22.09	22.50	1.099	0.171	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 17 (BW: 10MHz)	1RB	Front	23780	709	4.320	0.432	22.63	23.00	1.089	0.470	/
		Back	23780	709	-2.760	0.529	22.63	23.00	1.089	0.576	10#
		Left	23780	709	4.190	0.361	22.63	23.00	1.089	0.393	/
		Right	23780	709	-2.180	0.353	22.63	23.00	1.089	0.384	/
		Bottom	23780	709	-0.110	0.477	22.63	23.00	1.089	0.519	/
	50%RB	Front	23780	709	3.260	0.404	22.09	22.50	1.099	0.444	/
		Back	23780	709	4.180	0.480	22.09	22.50	1.099	0.528	/
		Left	23780	709	-0.460	0.323	22.09	22.50	1.099	0.355	/
		Right	23780	709	-1.150	0.318	22.09	22.50	1.099	0.349	/
		Bottom	23780	709	3.250	0.436	22.09	22.50	1.099	0.479	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	-2.990	1.216	23.24	23.50	1.062	1.291	/
		Left Tilt	132572	1770.0	0.410	0.726	23.24	23.50	1.062	0.771	/
		Right Cheek	132072	1720.0	3.140	1.100	23.16	23.50	1.081	1.189	/
		Right Cheek	132322	1745.0	0.840	1.003	23.01	23.50	1.119	1.122	/
		Right Cheek	132572	1770.0	-2.740	1.233	23.24	23.50	1.062	1.309	11#
		Right Cheek-Repeat	132572	1770.0	4.250	1.221	23.24	23.50	1.062	1.297	/
		Right Tilt	132572	1770.0	4.160	0.740	23.24	23.50	1.062	0.786	/
	50%RB	Left Cheek	132572	1770.0	-3.200	0.985	22.08	22.50	1.102	1.085	/
		Left Tilt	132572	1770.0	2.060	0.710	22.08	22.50	1.102	0.782	/
		Right Cheek	132572	1770.0	-1.210	1.021	22.08	22.50	1.102	1.125	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	1.670	0.858	23.24	23.50	1.062	0.911	/
		Back	132072	1720.0	2.130	0.962	23.16	23.50	1.081	1.040	/
		Back	132322	1745.0	0.840	0.933	23.01	23.50	1.119	1.044	/
		Back	132572	1770.0	3.870	1.041	23.24	23.50	1.062	1.106	12#
		Back-Repeat	132572	1770.0	-4.770	1.032	23.24	23.50	1.062	1.096	/
		Left	132572	1770.0	-4.590	0.750	23.24	23.50	1.062	0.797	/
		Right	132572	1770.0	3.150	0.742	23.24	23.50	1.062	0.788	/
		Bottom	132572	1770.0	-1.570	0.937	23.24	23.50	1.062	0.995	/
	50%RB	Front	132572	1770.0	-0.410	0.816	22.08	22.50	1.102	0.899	/
		Back	132572	1770.0	3.700	0.964	22.08	22.50	1.102	1.062	/
		Left	132572	1770.0	0.310	0.710	22.08	22.50	1.102	0.782	/
		Right	132572	1770.0	-2.970	0.702	22.08	22.50	1.102	0.774	/
		Bottom	132572	1770.0	4.100	0.909	22.08	22.50	1.102	1.002	/

Head(0mm gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Left Cheek	133372	688.0	1.440	0.253	22.75	23.00	1.059	0.268	/
		Left Tilt	133372	688.0	-2.150	0.133	22.75	23.00	1.059	0.141	/
		Right Cheek	133372	688.0	-3.090	0.262	22.75	23.00	1.059	0.277	13#
		Right Tilt	133372	688.0	3.020	0.141	22.75	23.00	1.059	0.149	/
	50%RB	Left Cheek	133372	688.0	-0.520	0.226	21.74	22.00	1.062	0.240	/
		Left Tilt	133372	688.0	-1.890	0.113	21.74	22.00	1.062	0.120	/
		Right Cheek	133372	688.0	4.100	0.232	21.74	22.00	1.062	0.246	/
		Right Tilt	133372	688.0	0.770	0.120	21.74	22.00	1.062	0.127	/

Body(hotspot open, 10mm Gap)											
Mode	Channel Type	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	Meas. Power (dBm)	Max. tune-up power (dBm)	Scaling Factor	1g Scaled SAR (W/kg)	Meas. No.
Band 71 (BW: 20MHz)	1RB	Front	133372	688.0	3.300	0.220	22.75	23.00	1.059	0.233	/
		Back	133372	688.0	-2.670	0.283	22.75	23.00	1.059	0.300	14#
		Left	133372	688.0	4.070	0.180	22.75	23.00	1.059	0.191	/
		Right	133372	688.0	2.210	0.172	22.75	23.00	1.059	0.182	/
		Bottom	133372	688.0	-1.660	0.251	22.75	23.00	1.059	0.266	/
	50%RB	Front	133372	688.0	3.090	0.192	21.74	22.00	1.062	0.204	/
		Back	133372	688.0	4.190	0.256	21.74	22.00	1.062	0.272	/
		Left	133372	688.0	-2.790	0.154	21.74	22.00	1.062	0.164	/
		Right	133372	688.0	3.680	0.147	21.74	22.00	1.062	0.156	/
		Bottom	133372	688.0	0.470	0.228	21.74	22.00	1.062	0.242	/

Head(0mm gap)										
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	1.620	0.141	15.01	15.50	1.119	0.158	/
	Left Tilt	6	2437	2.580	0.064	15.01	15.50	1.119	0.072	/
	Right Cheek	6	2437	1.450	0.147	15.01	15.50	1.119	0.164	15#
	Right Tilt	6	2437	0.550	0.071	15.01	15.50	1.119	0.079	/
Body(hotspot open, 10mm Gap)										
Mode	Position	Ch.	Freq. (MHz)	Power Drift (%)	1g Meas SAR (W/kg)	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	-0.570	0.072	15.01	15.50	1.119	0.081	/
	Back	6	2437	-3.660	0.093	15.01	15.50	1.119	0.104	16#
	Left	6	2437	3.420	0.056	15.01	15.50	1.119	0.063	/
	Right	6	2437	3.110	0.050	15.01	15.50	1.119	0.056	/
	Top	6	2437	0.150	0.083	15.01	15.50	1.119	0.093	/

Note:

- The maximum SAR Value of each test band is marked bold.
- SAR plot is provided only for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination.
- Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR $\leq 0.8W/kg$, other channels SAR testing is not necessary.
- Per KDB 447498 D01 v06, head/body-worn use is evaluated with the device positioned at 0mm/10 mm from a head/flat phantom respectively filled with head tissue-equivalent medium.
- Per KDB Publication 941225 D06 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.
- Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor = $10^{[(\text{tune-up limit power (dBm)} - \text{Ave. power power (dBm)})/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg) = Measured SAR (W/kg) * Scaling Factor.

11. SAR Measurement Variability

According to KDB 865664 D01, SAR measurement variability was assessed for each frequency band, which is determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media are required for SAR measurements in a frequency band, the variability measurement procedures should be applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. Alternatively, if the highest measured SAR for both head and body tissue-equivalent media are ≤ 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 $1.233 > 0.80$ W/kg, repeated measurement is as below.

Mode	Position	Ch.	Freq. (MHz)	1g Meas SAR (W/kg)	the ratio of largest to smallest SAR for the original and first repeated measurements
LTE Band 4	Right Cheek	20300	1745.0	1.108	1.012
	Right Cheek-repeat	20300	1745.0	1.095	
LTE Band 4	Back	20300	1745.0	1.022	1.019
	Back-Repeat	20300	1745.0	1.003	
LTE Band 66	Right Cheek	132572	1770.0	1.233	1.010
	Right Cheek-repeat	132572	1770.0	1.221	
LTE Band 66	Back	132572	1770.0	1.041	1.009
	Back-Repeat	132572	1770.0	1.032	

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 WIFI and BT. The 2 antennas can always transmit simultaneously. The work mode combination is showed as below table.

Application Simultaneous Transmission information:

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

12.2 Sum SAR of Simultaneous Transmission

Head

Band	Test Position	Channel Type	Scaled			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	Bluetooth				
LTE Band 66	Left Cheek	1RB	1.291	0.158	0.234	1.449	1.525	N/A	N/A
	Left Tilt		0.771	0.072	0.234	0.843	1.005	N/A	N/A
	Right Cheek		1.309	0.164	0.234	1.473	1.543	N/A	N/A
	Right Tilt		0.786	0.079	0.234	0.865	1.020	N/A	N/A
	Left Cheek	50%RB	1.085	0.158	0.234	1.243	1.319	N/A	N/A
	Left Tilt		0.782	0.072	0.234	0.854	1.016	N/A	N/A
	Right Cheek		1.125	0.164	0.234	1.289	1.359	N/A	N/A
	Right Tilt		0.792	0.079	0.234	0.871	1.026	N/A	N/A

Hotspot(body-worn)

Band	Test Position	Channel Type	Scaled			Σ SAR (W/kg) WWAN + WIFI 2.4G	Σ SAR (W/kg) WWAN + BT	SPLSR	Remark
			WWAN	WIFI 2.4G	Bluetooth				
LTE Band 66	Front	1RB	0.911	0.081	0.117	0.992	1.028	N/A	N/A
	Back		1.106	0.104	0.117	1.210	1.223	N/A	N/A
	Left		0.797	0.063	0.117	0.860	0.914	N/A	N/A
	Right		0.788	0.056	0.117	0.844	0.905	N/A	N/A
	Top		/	0.093	0.117	0.093	0.117	N/A	N/A
	Bottom		0.995	/	/	0.995	0.995	N/A	N/A
	Front	50%RB	0.899	0.081	0.117	0.980	1.016	N/A	N/A
	Back		1.062	0.104	0.117	1.166	1.179	N/A	N/A
	Left		0.782	0.063	0.117	0.845	0.899	N/A	N/A
	Right		0.774	0.056	0.117	0.830	0.891	N/A	N/A
	Top		/	0.093	0.117	0.093	0.117	N/A	N/A
	Bottom		1.002	/	/	1.002	1.002	N/A	N/A

13. Test Equipment List

Description	Manufacturer	Model	Serial No./Version	Cal. Date	Cal. Due
E-Field Probe	MVG	SSE2	0125-EPGO-445	2026/03/03	2027/03/02
6 1/2 Digital Multimeter	Keithley	DMM6500	4527164	2025/10/20	2026/10/19
Wideband Radio Communication Tester	ROHDE & SCHWARZ	CMW500	161997	2025/10/17	2026/10/16
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025/10/17	2026/10/16
E-Series Avg. Power Sensor	KEYSIGHT	E9300A	MY55050017	2026/04/02	2027/04/01
EPM Series Power Meter	KEYSIGHT	E4418B	MY41293435	2026/04/02	2027/04/01
MXA Signal Analyzer	KEYSIGHT	N9020A	MY54410409	2025/10/17	2026/10/16
Low Noise Amplifier	Tongyue	N/A	N/A	2025/07/30	2026/07/29
Coupler	MERRIMAC	CWM-10R-10.8G	LOT-83391	N/A	N/A
750MHz Validation Dipole	MVG	SID750	07/22 DIP 0G750-655	2025/05/26	2028/05/25
835MHz Validation Dipole	MVG	SID835	07/22 DIP 0G835-656	2025/05/26	2028/05/25
1800MHz Validation Dipole	MVG	SID1800	07/22 DIP 1G800-657	2025/05/26	2028/05/25
1900MHz Validation Dipole	MVG	SID1900	07/22 DIP 1G900-658	2025/05/26	2028/05/25
2450MHz Validation Dipole	MVG	SID2450	07/22 DIP 2G450-662	2025/05/26	2028/05/25
LIMESAR Dielectric Probe	MVG	SCLMP	06/22 OCPG88	2026/04/07	2027/04/06
ENA Series Network Analyzer	Agilent	E5071B	MY42301221	2025/10/17	2026/10/16
Thermometer	Riters	DT-232	21A11	2026/04/02	2027/04/01
Antenna network emulator	MVG	ANTA 74	07/22 ANTA 74	N/A	N/A
SAM Phantom	MVG	SAM	07/22 SAM149	N/A	N/A
Mobile Phone Positioning System	MVG	MSH 118	07/22 MSH 118	N/A	N/A
Mechanical Calibration Kit	PNA	N/A	N/A	2025/10/21	2026/10/20
Open SAR test software	MVG	N/A	V5.3.5	N/A	N/A

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

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

ANNEX A Simulating Liquid Verification Result

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

Dielectric performance of tissue simulating liquid									
Frequency (MHz)	ϵ_r		σ (s/m)		Delta (ϵ_r)	Delta (σ)	Limit	Temp (°C)	Date
	Target	Measured	Target	Measured					
688	41.90	41.94	0.89	0.89	0.09%	-0.11%	±5%	22.3	26/6/2026
707.5	41.90	42.03	0.89	0.90	0.30%	0.56%	±5%	22.3	26/6/2026
709	41.90	42.03	0.89	0.90	0.31%	0.56%	±5%	22.3	26/6/2026
750	41.90	42.21	0.89	0.91	0.74%	2.25%	±5%	22.3	26/6/2026
835	41.50	42.59	0.90	0.93	2.63%	3.33%	±5%	21.7	27/6/2026
836.5	41.50	42.59	0.90	0.93	2.63%	3.33%	±5%	21.7	27/6/2026
1745	40.00	40.26	1.40	1.38	0.65%	-1.43%	±5%	21.6	28/6/2026
1770	40.00	40.20	1.40	1.40	0.50%	0.00%	±5%	21.6	28/6/2026
1800	40.00	40.12	1.40	1.41	0.30%	0.71%	±5%	21.6	28/6/2026
1900	40.00	40.23	1.40	1.42	0.57%	1.43%	±5%	22.6	29/6/2026
2437	39.20	38.93	1.80	1.77	-0.69%	-1.67%	±5%	22.4	30/6/2026
2450	39.20	38.89	1.80	1.78	-0.79%	-1.11%	±5%	22.4	30/6/2026

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)	10g SAR Deviation	1g SAR Deviation
750	100	0.574	0.861	5.74	8.61	5.55	8.41	3.42%	2.38%
835	100	0.612	0.918	6.12	9.18	6.12	9.46	0.00%	-2.96%
1800	100	2.095	3.672	20.95	36.72	19.83	37.93	5.65%	-3.19%
1900	100	2.062	3.743	20.62	37.43	20.82	40.29	-0.96%	-7.10%
2450	100	2.482	5.417	24.82	54.17	24.55	52.72	1.10%	2.75%

System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 26/6/2026

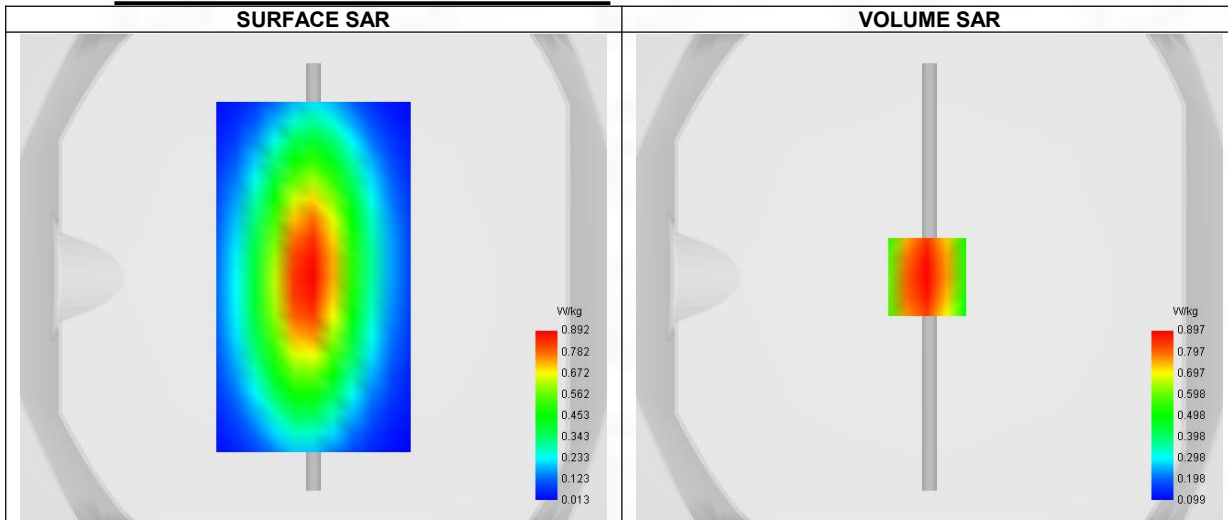
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW750
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	750.000
Relative permittivity (real part)	42.213
Relative permittivity (imaginary part)	18.147
Conductivity (S/m)	0.906

C. SAR Surface and Volume



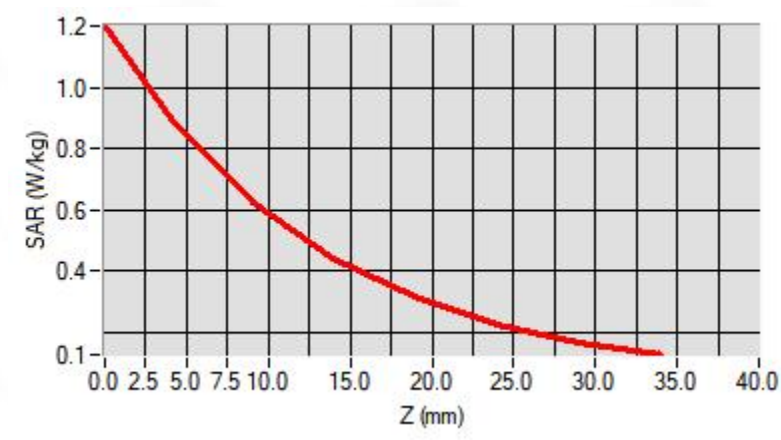
Maximum location: X=-1.00, Y=0.00 ; SAR Peak: 1.20 W/kg

D. SAR 1g & 10g

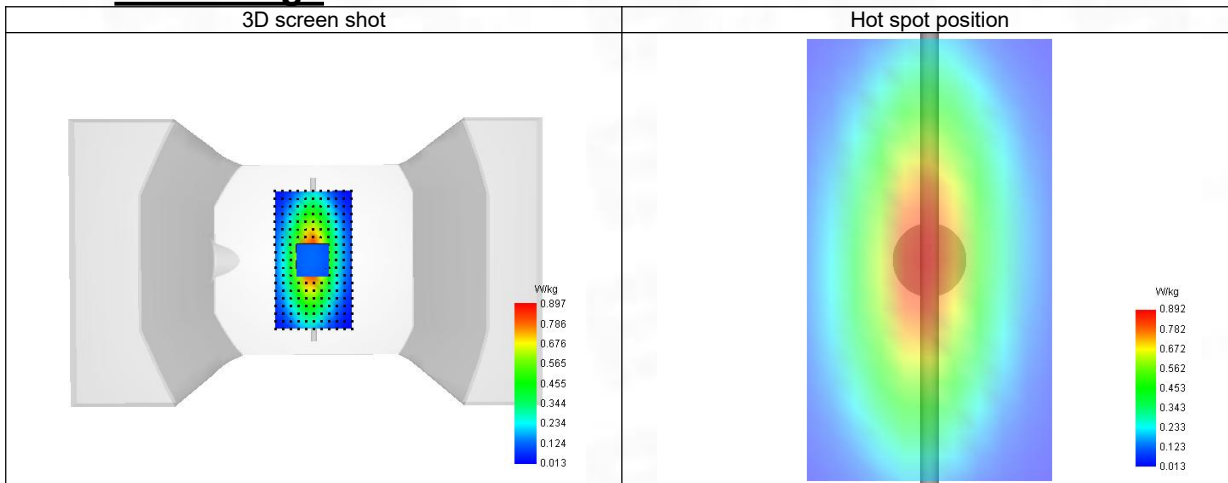
SAR 10g (W/Kg)	0.574
SAR 1g (W/Kg)	0.861
Variation (%)	-1.590
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.781553

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.200	0.897	0.626	0.443	0.319	0.229	0.170



F. 3D Image



System Performance Check Data (835 MHz)

System check at 835 MHz

Date of measurement: 27/6/2026

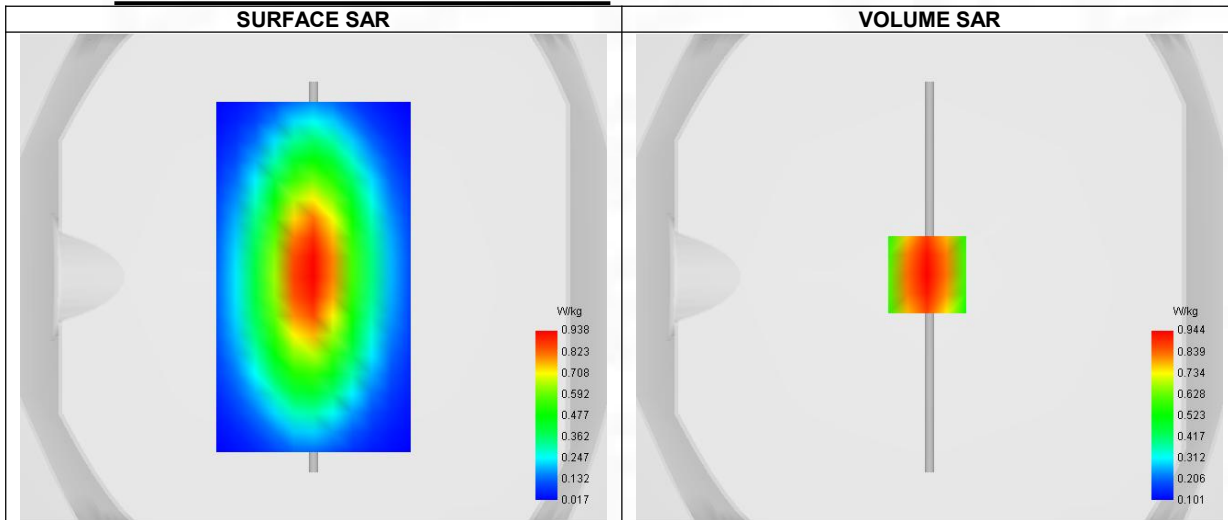
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW835
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	835.000
Relative permittivity (real part)	42.590
Relative permittivity (imaginary part)	20.029
Conductivity (S/m)	0.929

C. SAR Surface and Volume



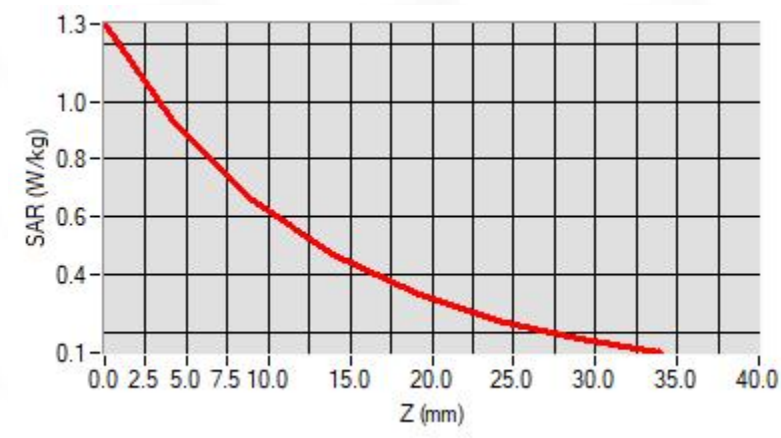
Maximum location: X=-1.00, Y=1.00 ; SAR Peak: 1.27 W/kg

D. SAR 1g & 10g

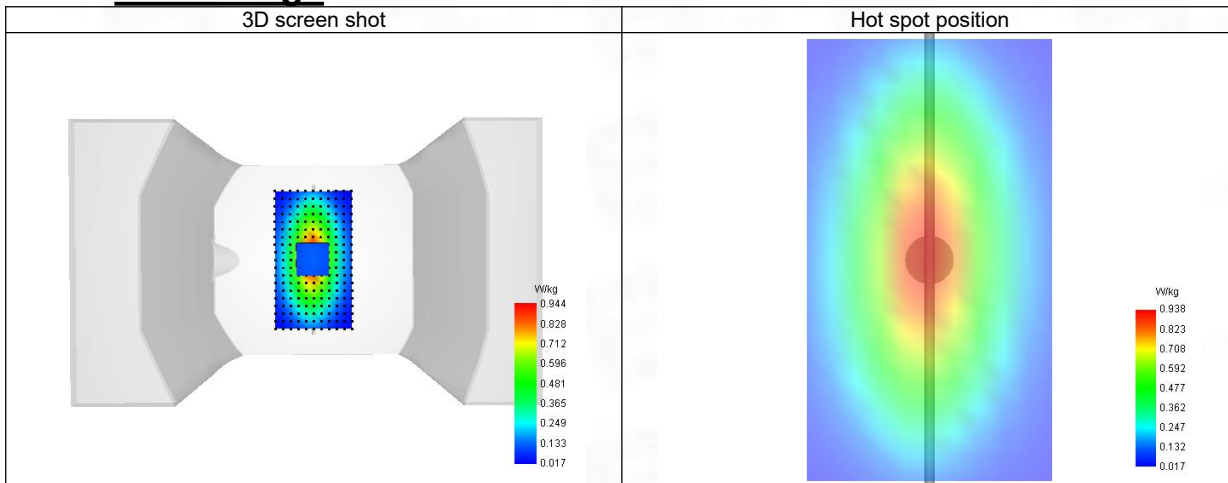
SAR 10g (W/Kg)	0.612
SAR 1g (W/Kg)	0.918
Variation (%)	-1.150
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	69.676639

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.270	0.944	0.658	0.466	0.336	0.241	0.175



F. 3D Image



System Performance Check Data (1800 MHz)

System check at 1800 MHz

Date of measurement: 28/6/2026

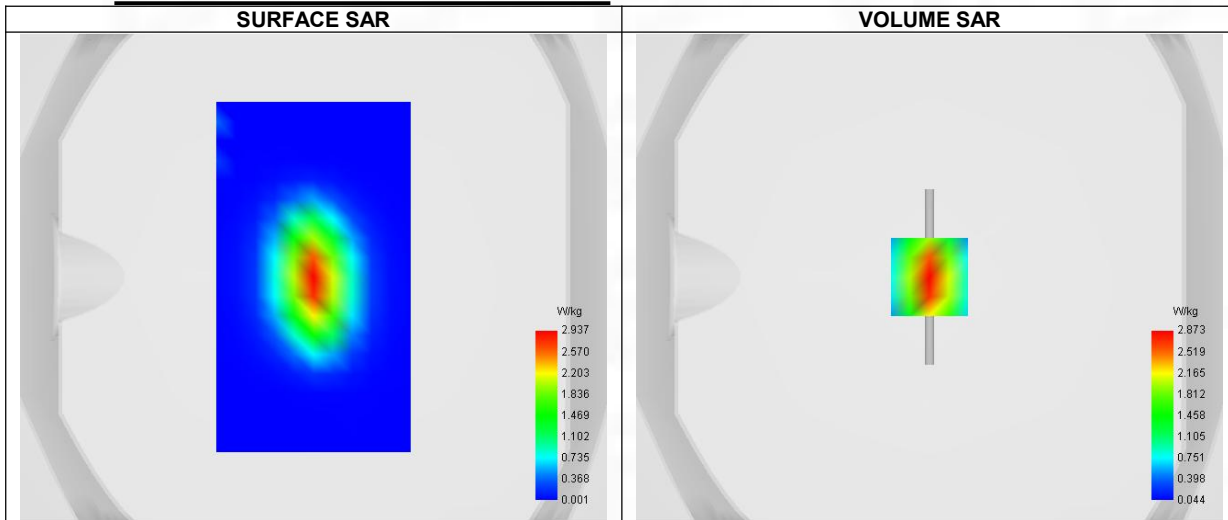
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1800
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	1800.000
Relative permittivity (real part)	40.120
Relative permittivity (imaginary part)	14.000
Conductivity (S/m)	1.410

C. SAR Surface and Volume



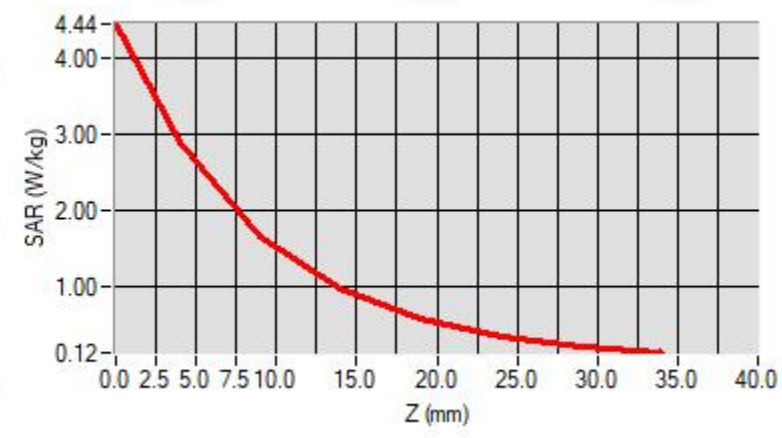
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.42 W/kg

D. SAR 1g & 10g

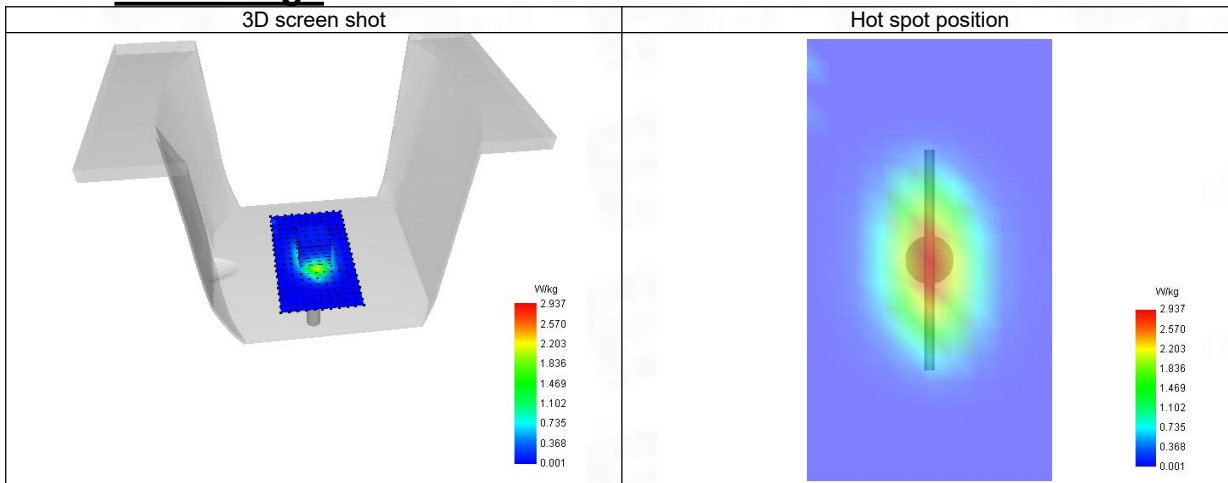
SAR 10g (W/Kg)	2.095
SAR 1g (W/Kg)	3.672
Variation (%)	-2.540
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	57.079602

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	4.440	2.873	1.640	0.952	0.570	0.336	0.200



F. 3D Image



System Performance Check Data (1900 MHz)

System check at 1900 MHz

Date of measurement: 29/6/2026

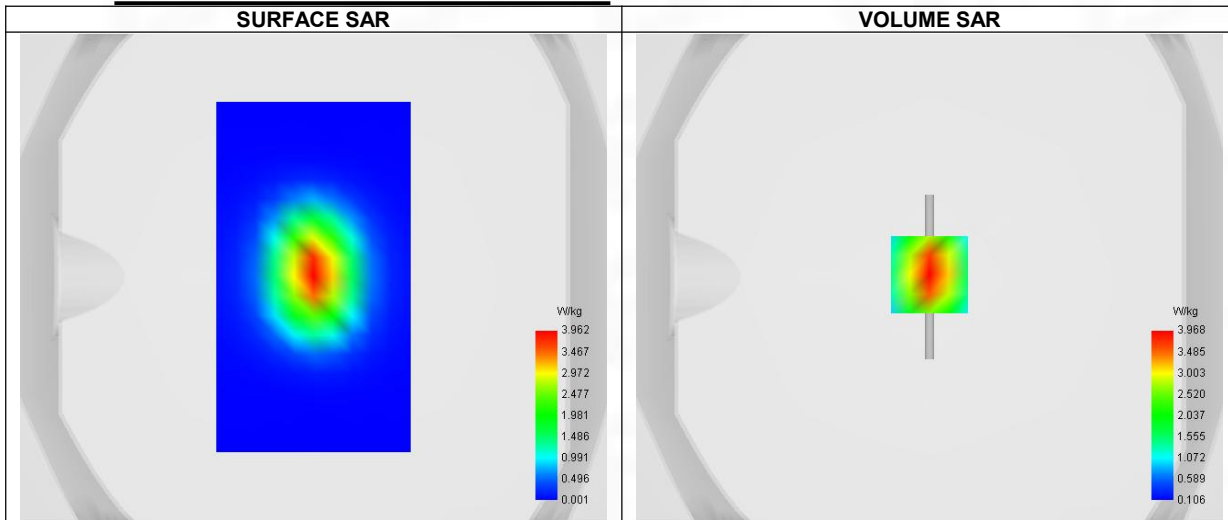
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW1900
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	40.232
Relative permittivity (imaginary part)	13.883
Conductivity (S/m)	1.416

C. SAR Surface and Volume



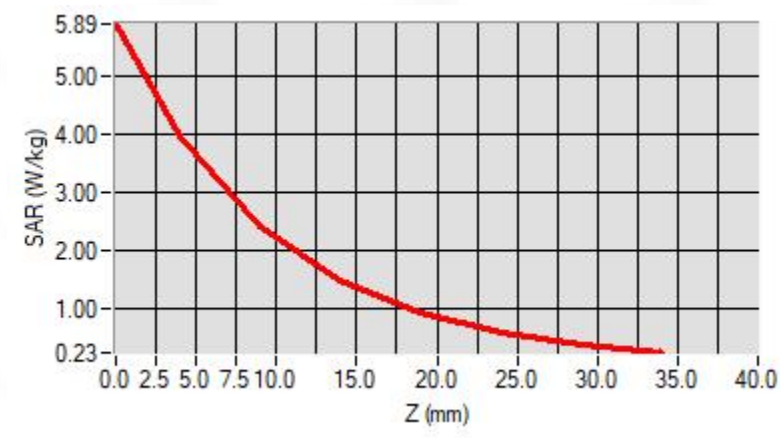
Maximum location: X=0.00, Y=1.00 ; SAR Peak: 5.87 W/kg

D. SAR 1g & 10g

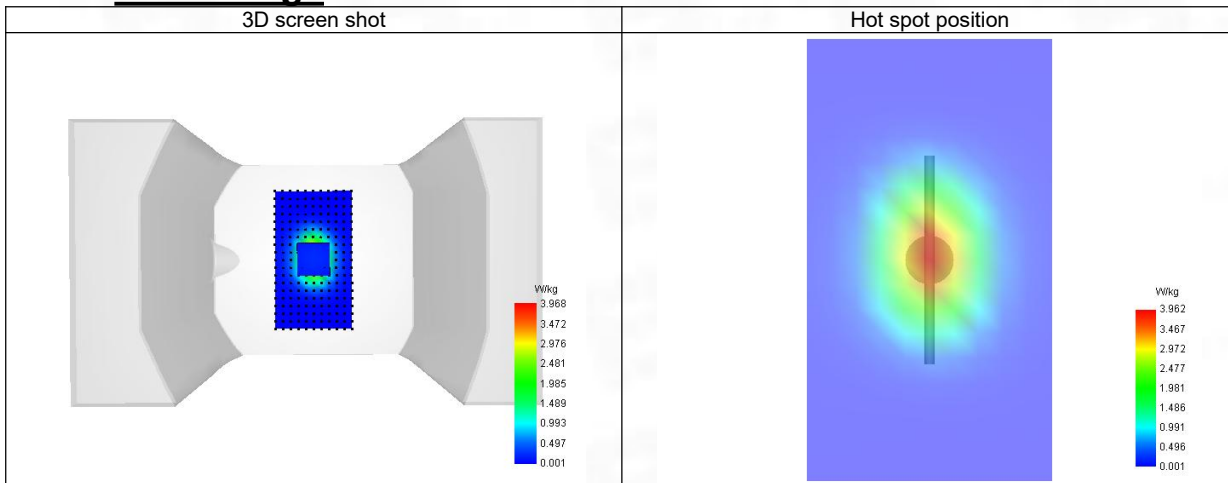
SAR 10g (W/Kg)	2.062
SAR 1g (W/Kg)	3.743
Variation (%)	-1.780
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	60.412366

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	5.890	3.968	2.397	1.459	0.911	0.581	0.363



F. 3D Image



System Performance Check Data (2450 MHz)

System check at 2450 MHz

Date of measurement: 30/6/2026

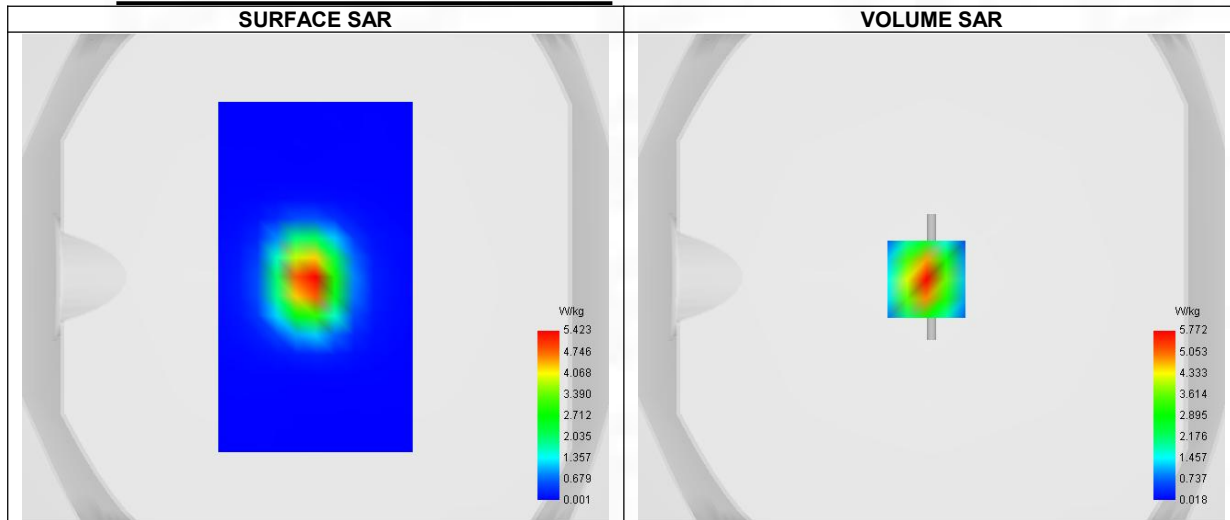
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Dipole
Band	CW2450
Channels/Frequency	Middle
Signal	CW

B. Permittivity

Middle TX Frequency (MHz)	2450.000
Relative permittivity (real part)	38.893
Relative permittivity (imaginary part)	13.586
Conductivity (S/m)	1.776

C. SAR Surface and Volume



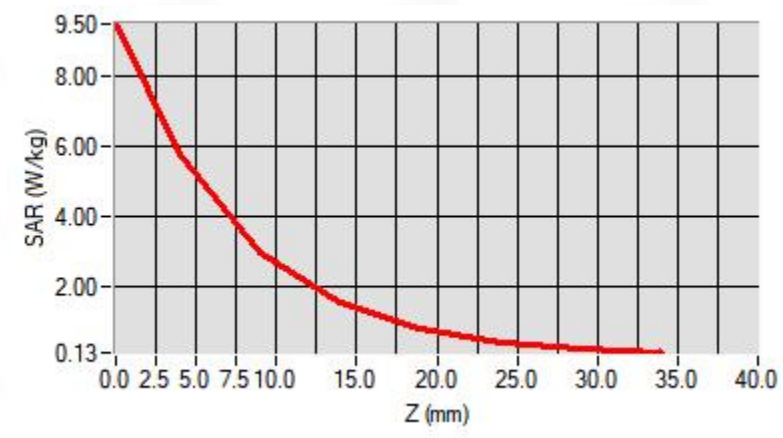
Maximum location: X=-2.00, Y=-1.00 ; SAR Peak: 9.42 W/kg

D. SAR 1g & 10g

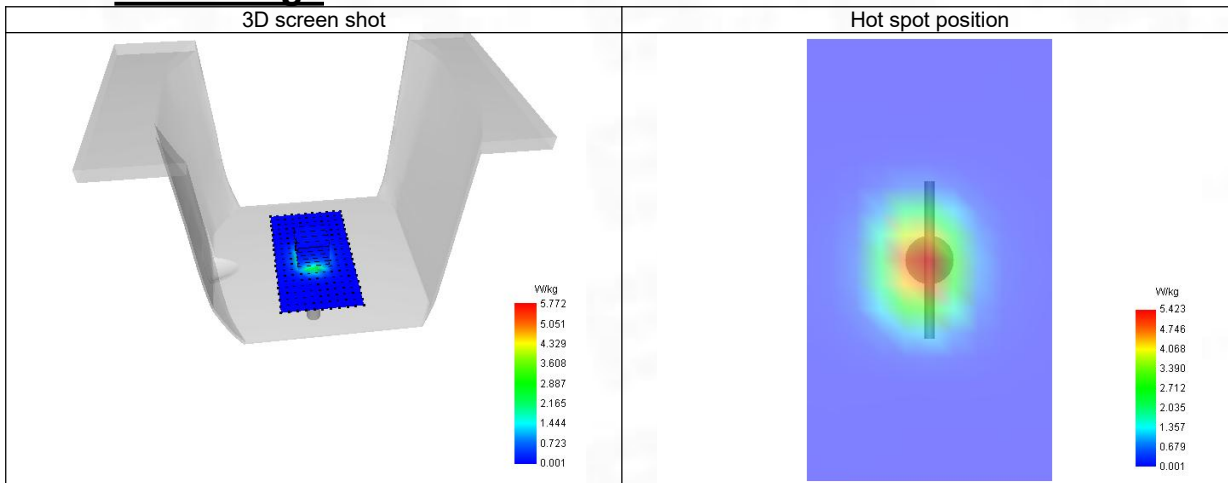
SAR 10g (W/Kg)	2.482
SAR 1g (W/Kg)	5.417
Variation (%)	0.950
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	51.331300

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	9.496	5.772	2.963	1.563	0.824	0.440	0.241



F. 3D Image



ANNEX C Test Data

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

SAR Measurement at LTE band 2 (Cheek, Right)

Date of measurement: 26/6/2026

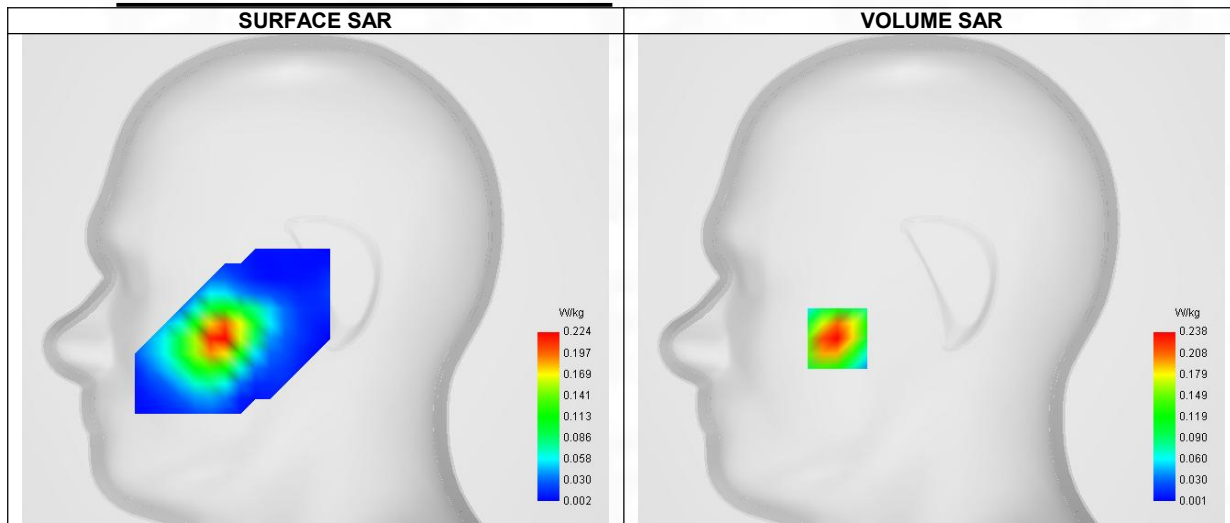
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 2
Channels/Frequency	Higher (19100)/ frequency 1900.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	40.232
Relative permittivity (imaginary part)	13.883
Conductivity (S/m)	1.416

C. SAR Surface and Volume



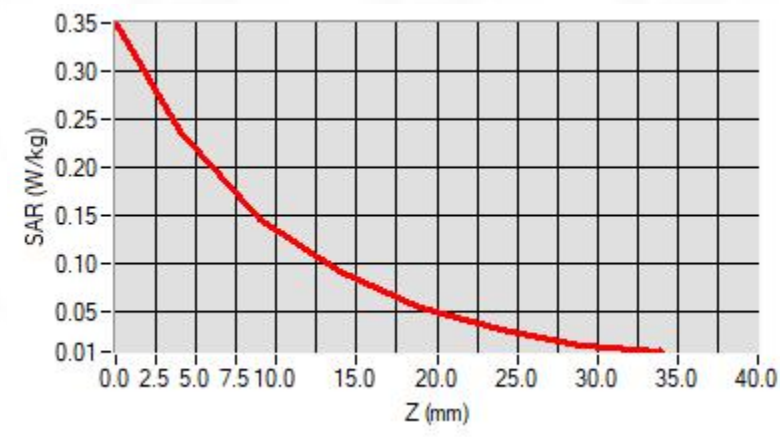
Maximum location: X=-50.00, Y=-32.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

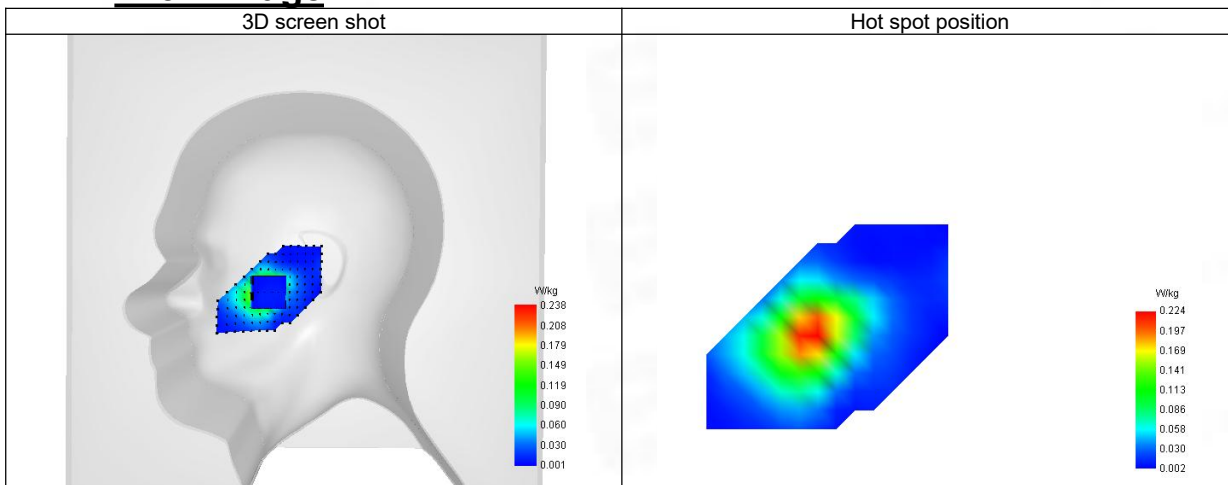
SAR 10g (W/Kg)	0.124
SAR 1g (W/Kg)	0.227
Variation (%)	-1.380
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	61.300342

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.349	0.238	0.146	0.092	0.054	0.033	0.016



F. 3D Image



2-Body with front position in dist. 10mm on Channel 19100 in LTE band 2

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

Date of measurement: 29/6/2026

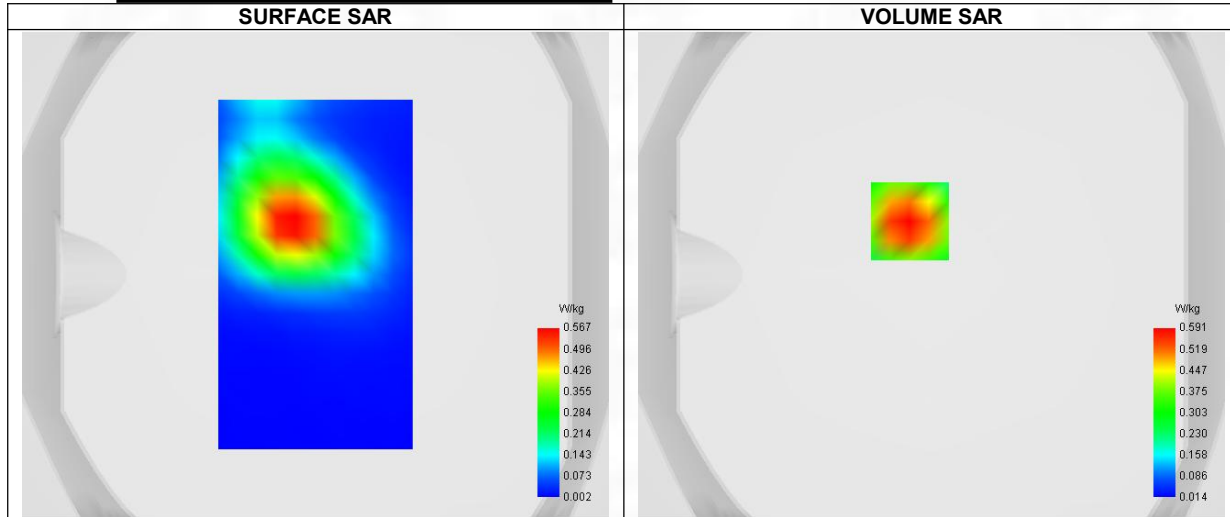
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.27
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 2
Channels/Frequency	Higher (19100)/ frequency 1900.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1900.000
Relative permittivity (real part)	40.232
Relative permittivity (imaginary part)	13.883
Conductivity (S/m)	1.416

C. SAR Surface and Volume

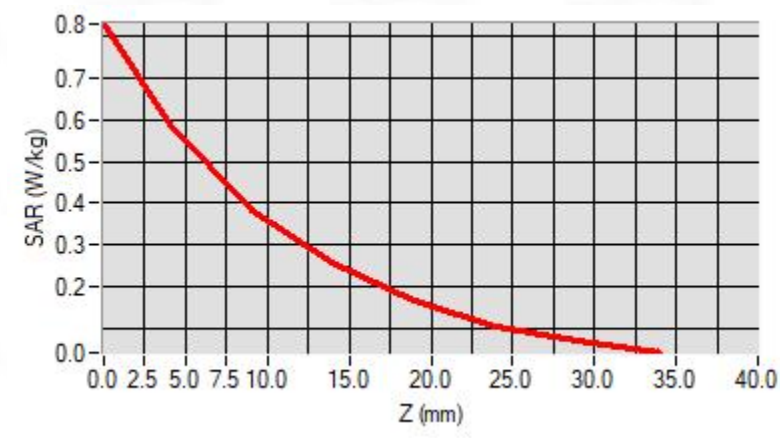


D. SAR 1g & 10g

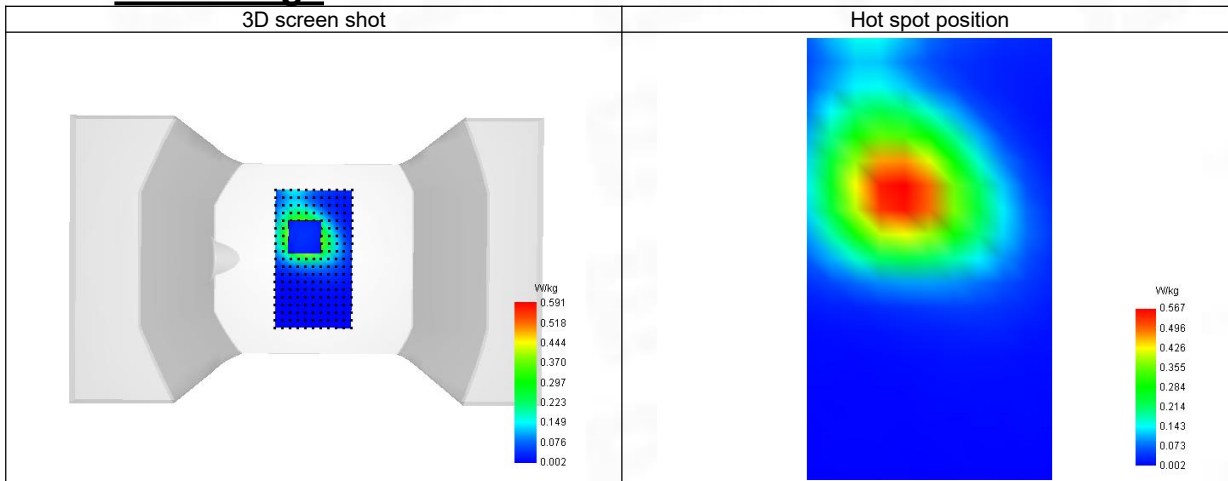
SAR 10g (W/Kg)	0.340
SAR 1g (W/Kg)	0.573
Variation (%)	-3.080
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	64.987957

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.831	0.591	0.384	0.258	0.168	0.106	0.068



F. 3D Image



3-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: 28/6/2026

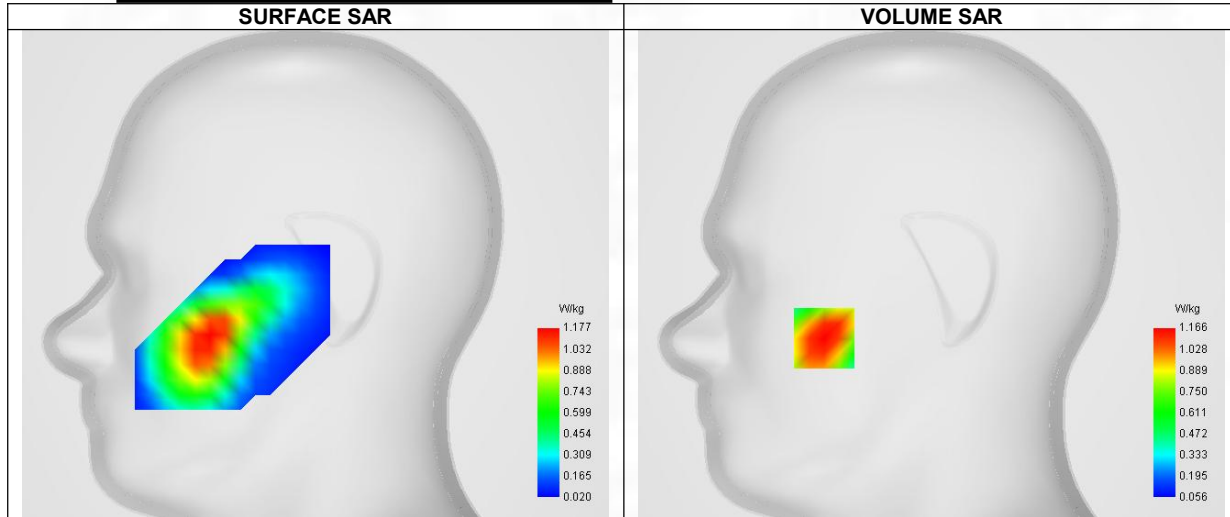
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 4
Channels/Frequency	Higher (20300)/ frequency 1745.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1745.000
Relative permittivity (real part)	40.261
Relative permittivity (imaginary part)	14.344
Conductivity (S/m)	1.383

C. SAR Surface and Volume



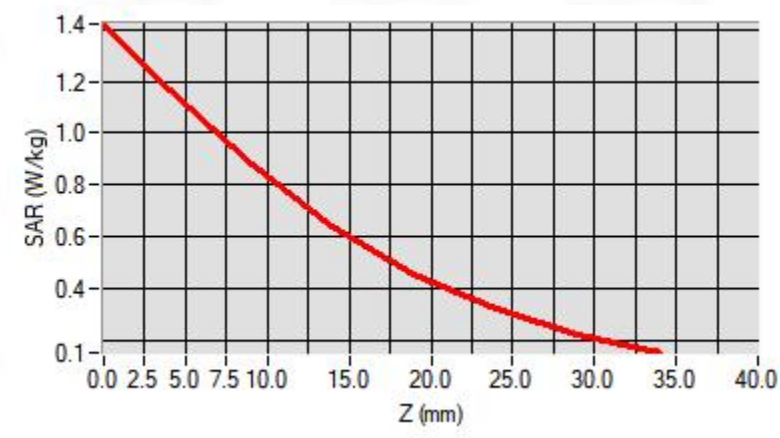
Maximum location: X=-57.00, Y=-34.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

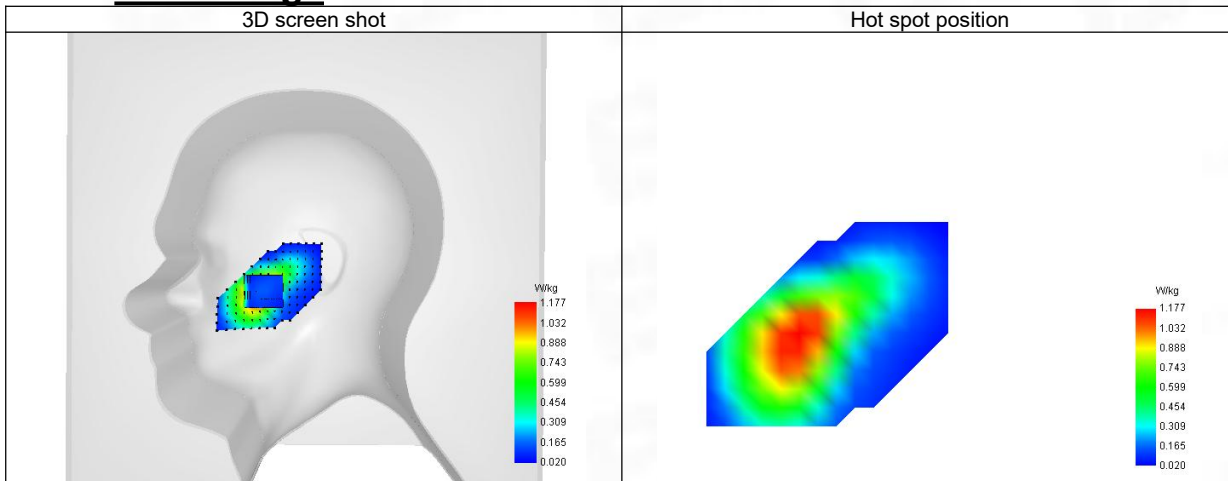
SAR 10g (W/Kg)	0.735
SAR 1g (W/Kg)	1.108
Variation (%)	-3.960
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	75.215611

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.423	1.166	0.877	0.641	0.450	0.318	0.222



F. 3D Image



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

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

Date of measurement: 28/6/2026

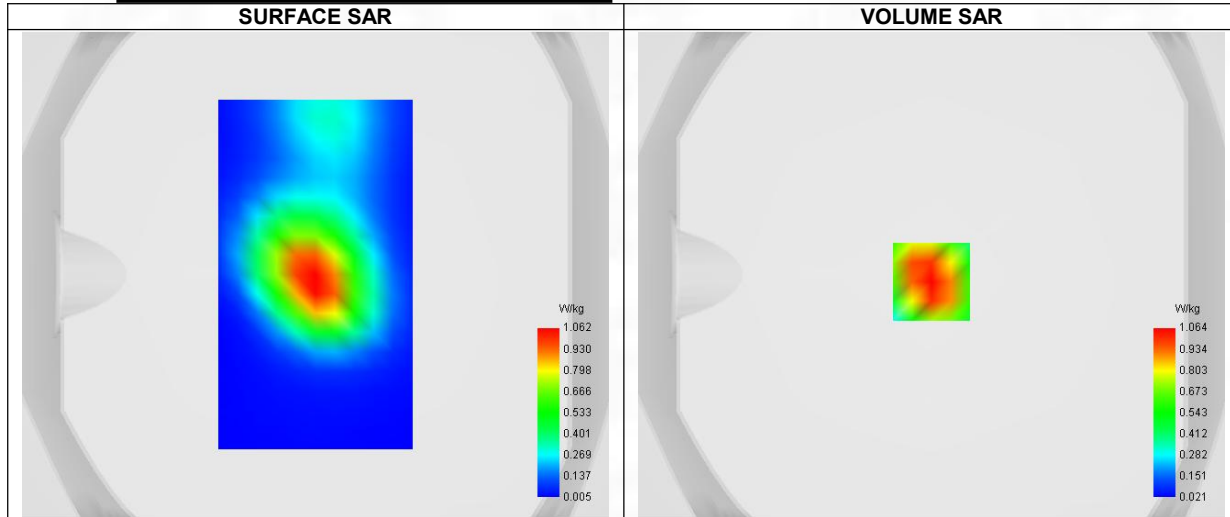
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 4
Channels/Frequency	Higher (20300)/ frequency 1745.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1745.000
Relative permittivity (real part)	40.261
Relative permittivity (imaginary part)	14.344
Conductivity (S/m)	1.383

C. SAR Surface and Volume

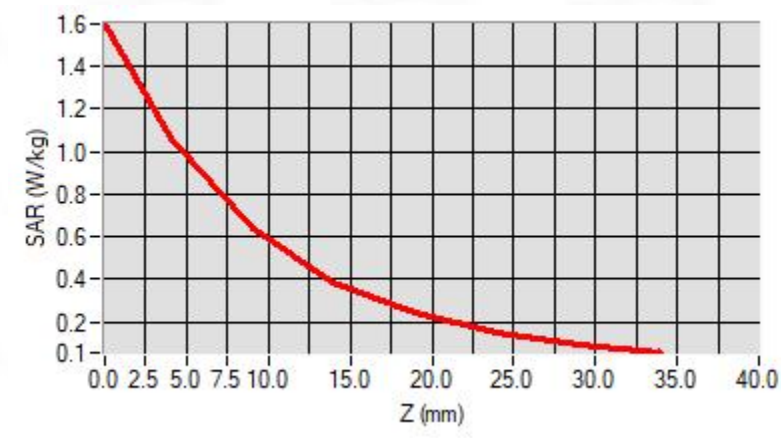


D. SAR 1g & 10g

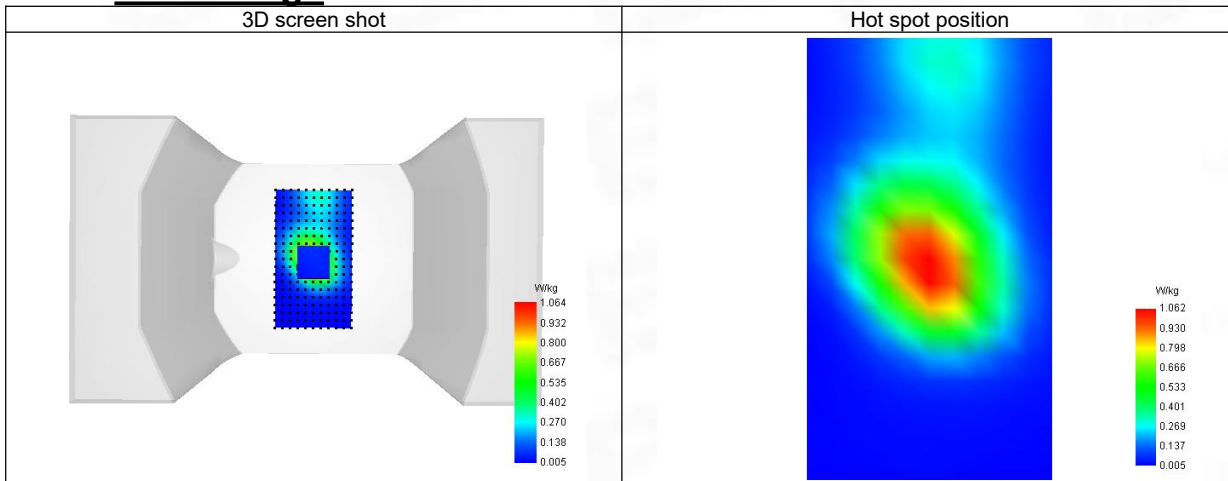
SAR 10g (W/Kg)	0.572
SAR 1g (W/Kg)	1.022
Variation (%)	0.560
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	59.575536

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.598	1.064	0.634	0.383	0.240	0.146	0.092



F. 3D Image



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

SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 27/6/2026

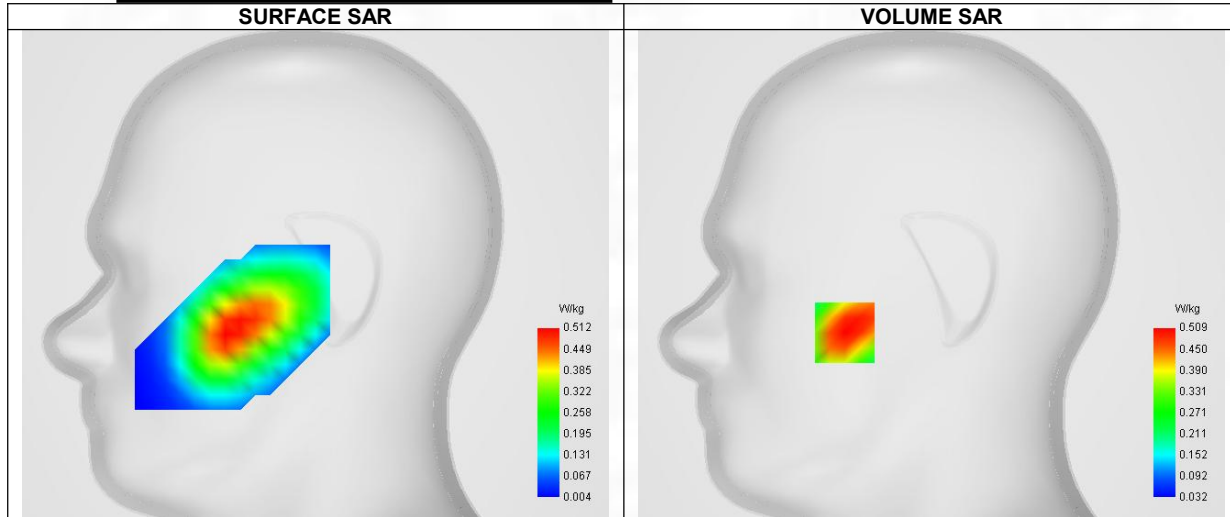
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	836.500
Relative permittivity (real part)	42.586
Relative permittivity (imaginary part)	20.020
Conductivity (S/m)	0.930

C. SAR Surface and Volume



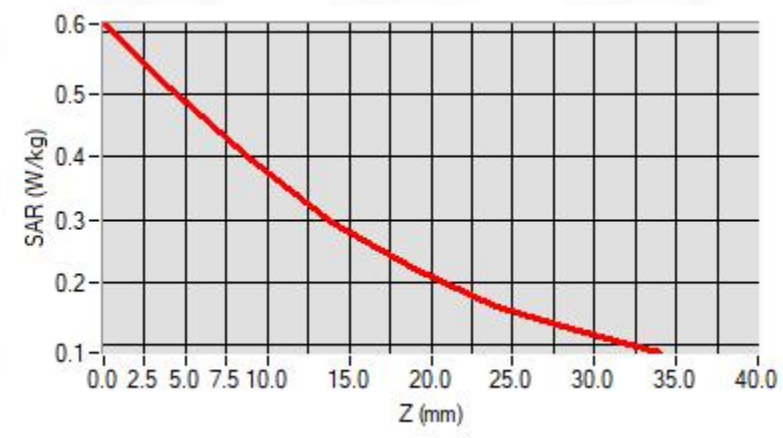
Maximum location: X=-46.00, Y=-31.00 ; SAR Peak: 0.63 W/kg

D. SAR 1g & 10g

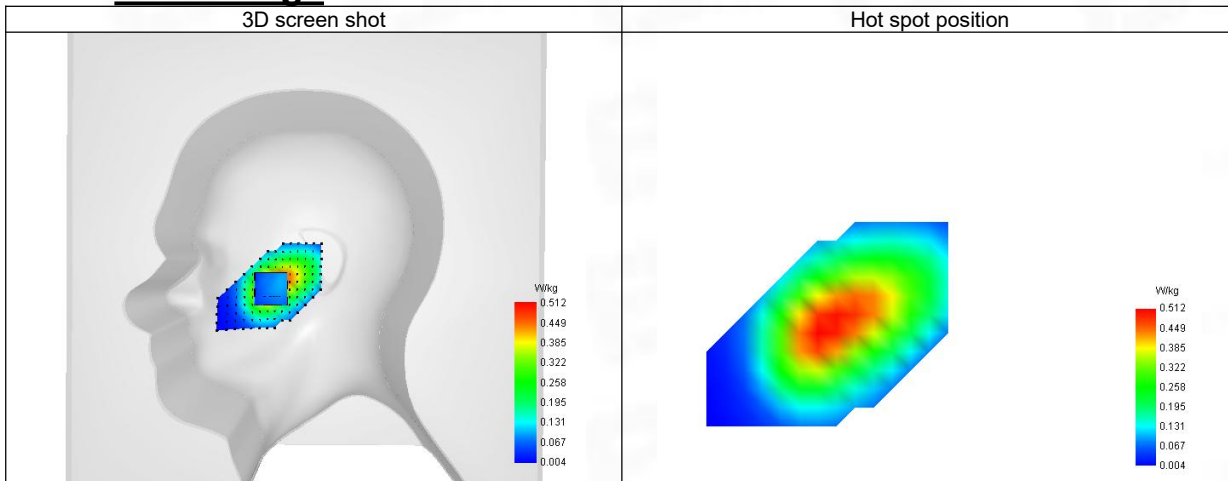
SAR 10g (W/Kg)	0.349
SAR 1g (W/Kg)	0.488
Variation (%)	-2.250
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	77.350875

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.612	0.509	0.394	0.296	0.221	0.162	0.122



F. 3D Image



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

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

Date of measurement: 27/6/2026

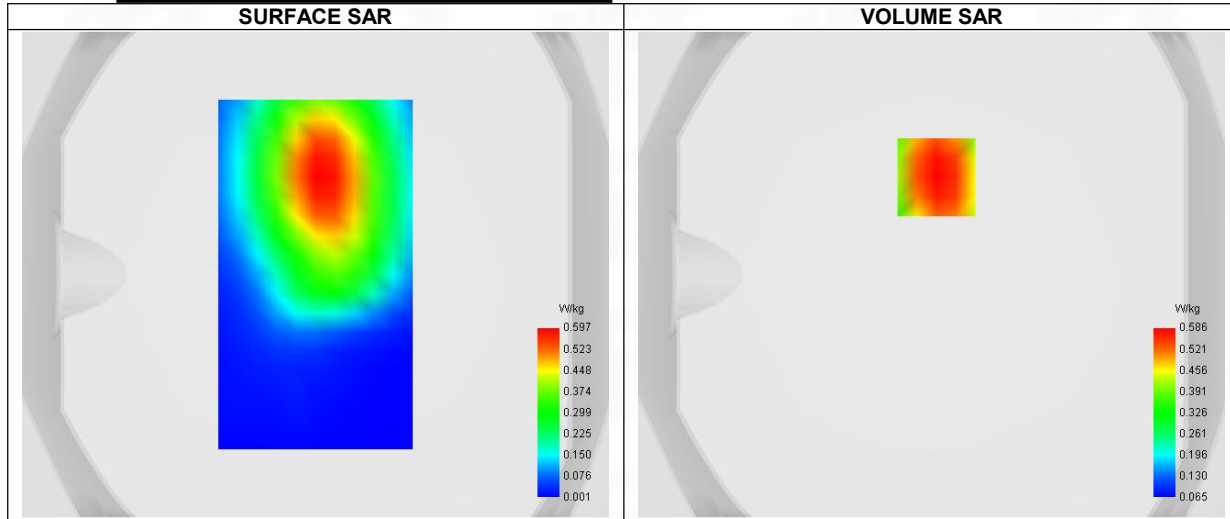
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.15
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 5
Channels/Frequency	Middle (20525)/ frequency 836.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	836.500
Relative permittivity (real part)	42.586
Relative permittivity (imaginary part)	20.020
Conductivity (S/m)	0.930

C. SAR Surface and Volume

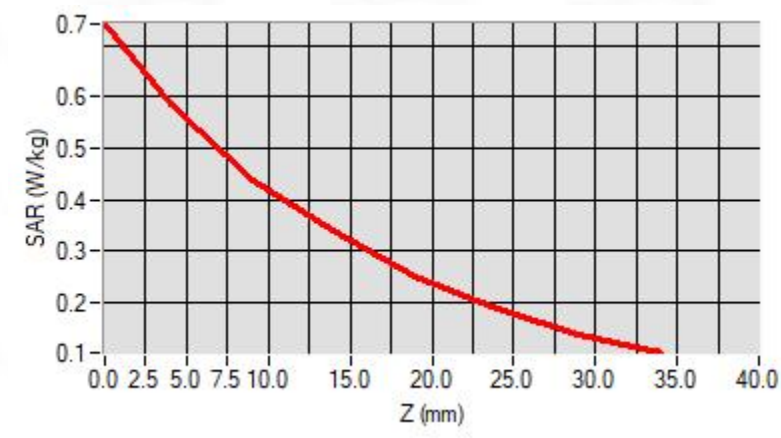


D. SAR 1g & 10g

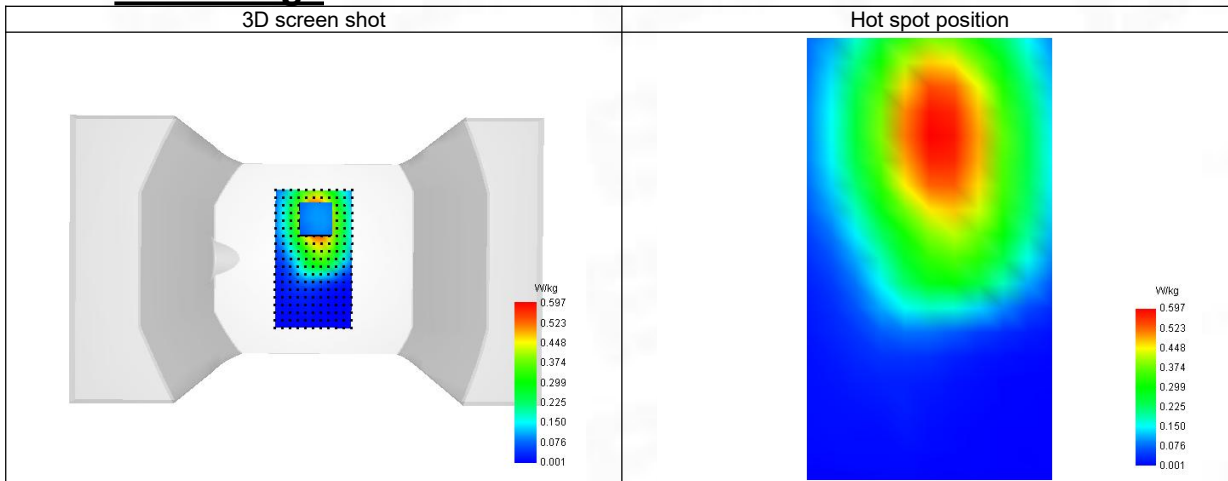
SAR 10g (W/Kg)	0.405
SAR 1g (W/Kg)	0.568
Variation (%)	-2.920
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.767637

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.741	0.586	0.438	0.341	0.250	0.189	0.138



F. 3D Image



7-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: 26/6/2026

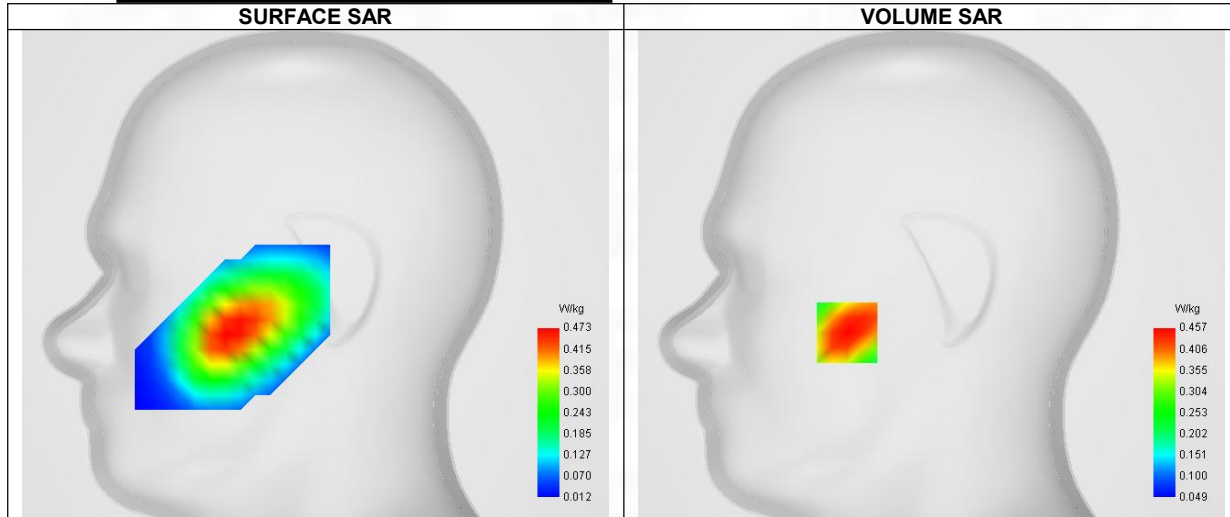
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 12
Channels/Frequency	Middle (23095)/ frequency 707.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	707.500
Relative permittivity (real part)	42.025
Relative permittivity (imaginary part)	17.206
Conductivity (S/m)	0.895

C. SAR Surface and Volume



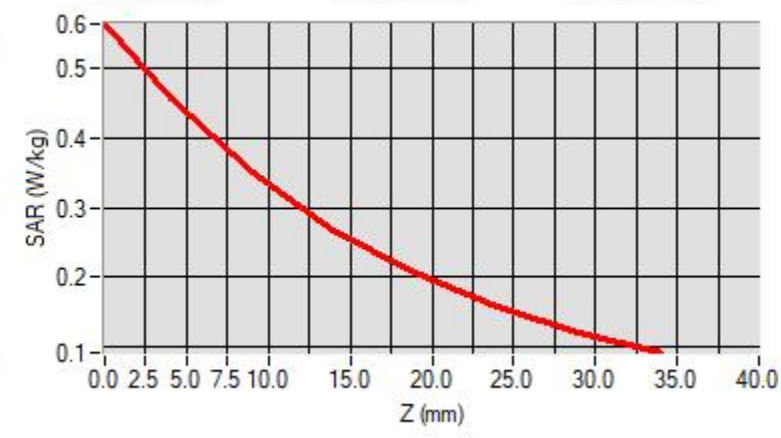
Maximum location: X=-45.00, Y=-31.00 ; SAR Peak: 0.57 W/kg

D. SAR 1g & 10g

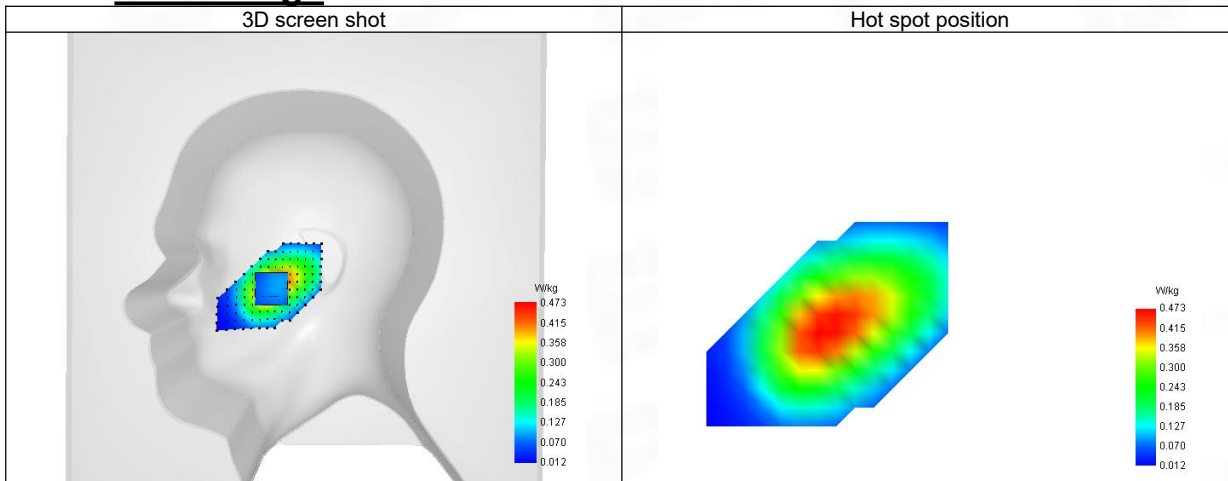
SAR 10g (W/Kg)	0.330
SAR 1g (W/Kg)	0.466
Variation (%)	-2.890
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	76.840428

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.564	0.457	0.351	0.266	0.205	0.156	0.119



F. 3D Image



8-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: 26/6/2026

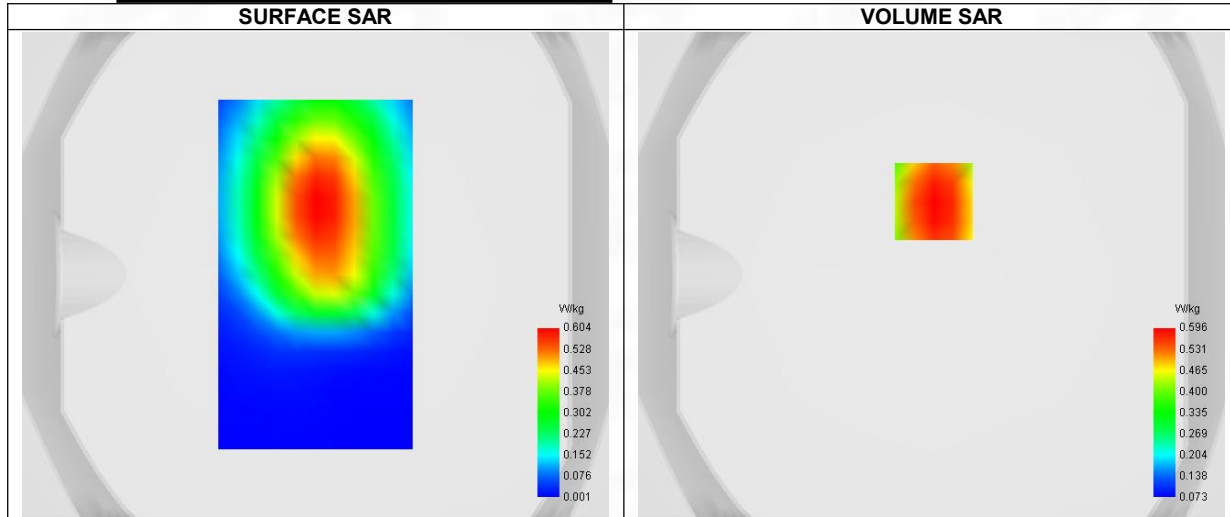
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 12
Channels/Frequency	Middle (23095)/ frequency 707.500 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	0
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	707.500
Relative permittivity (real part)	42.025
Relative permittivity (imaginary part)	17.206
Conductivity (S/m)	0.895

C. SAR Surface and Volume

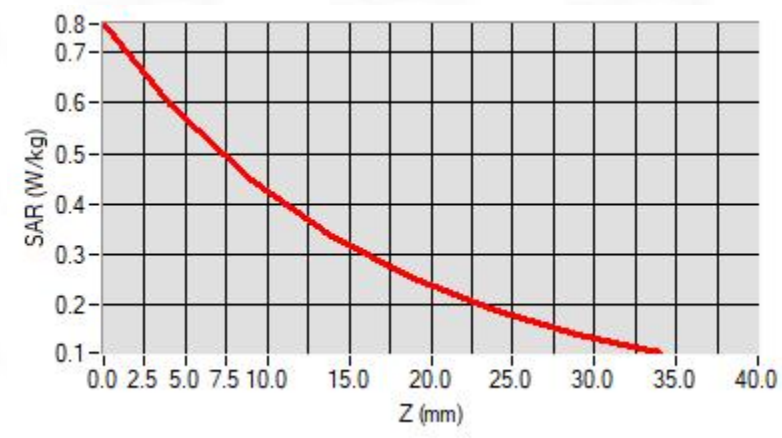


D. SAR 1g & 10g

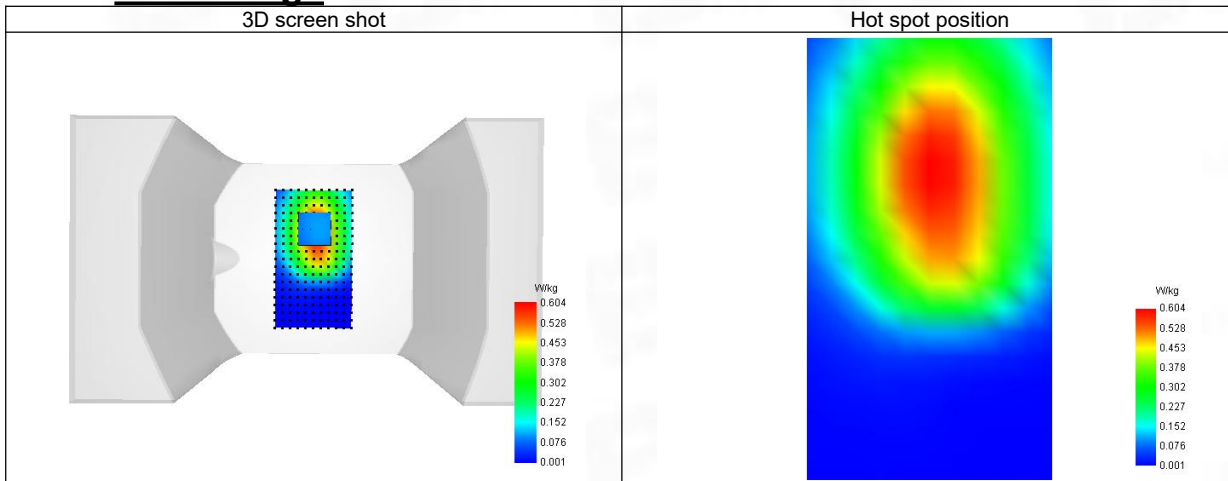
SAR 10g (W/Kg)	0.433
SAR 1g (W/Kg)	0.610
Variation (%)	-1.300
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	74.713243

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.756	0.596	0.445	0.338	0.254	0.191	0.143



F. 3D Image



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

SAR Measurement at LTE band 17 (Cheek, Right)

Date of measurement: 26/6/2026

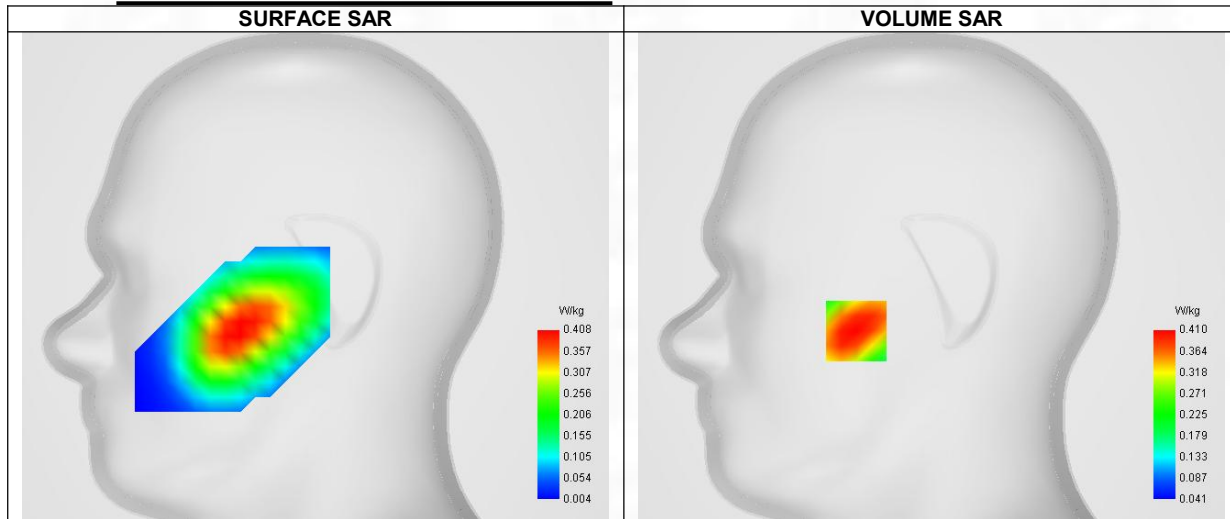
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 17
Channels/Frequency	Lower (23780)/ frequency 709.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	709.000
Relative permittivity (real part)	42.031
Relative permittivity (imaginary part)	17.239
Conductivity (S/m)	0.895

C. SAR Surface and Volume



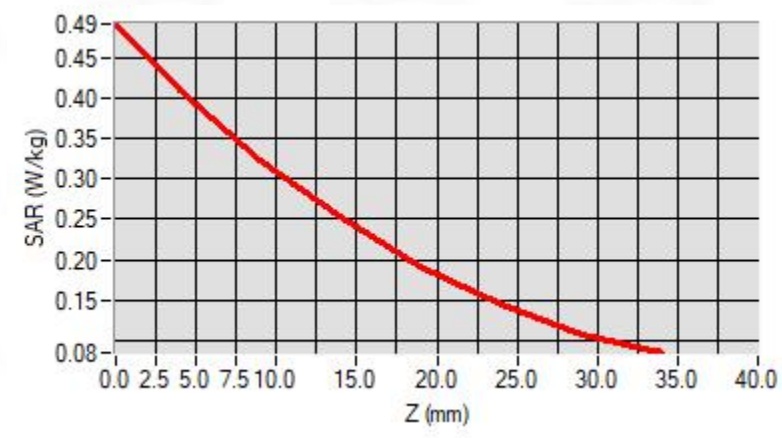
Maximum location: X=-40.00, Y=-29.00 ; SAR Peak: 0.51 W/kg

D. SAR 1g & 10g

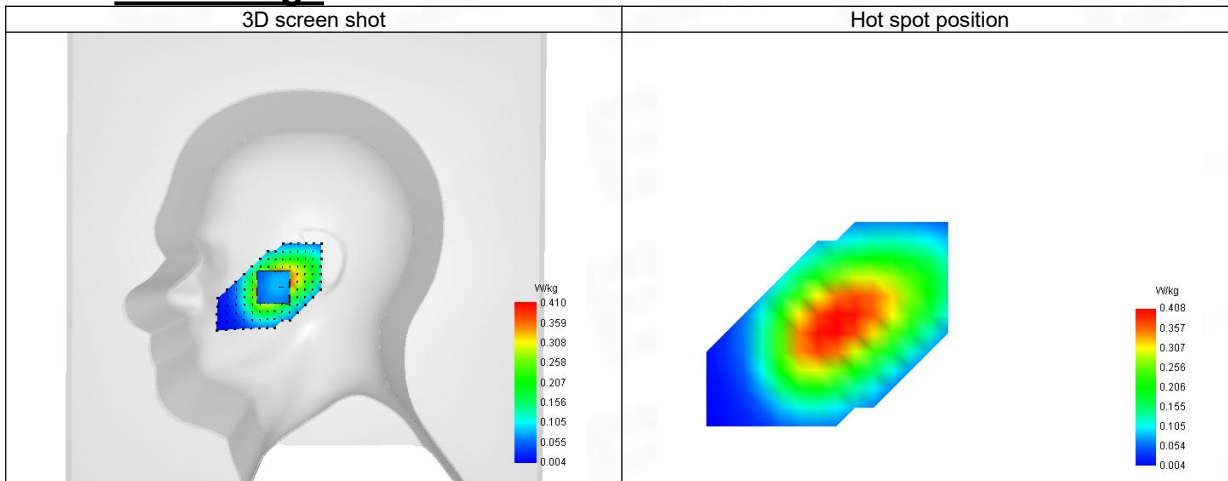
SAR 10g (W/Kg)	0.287
SAR 1g (W/Kg)	0.397
Variation (%)	-1.820
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	78.727314

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.493	0.410	0.323	0.254	0.191	0.144	0.107



F. 3D Image



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

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

Date of measurement: 26/6/2026

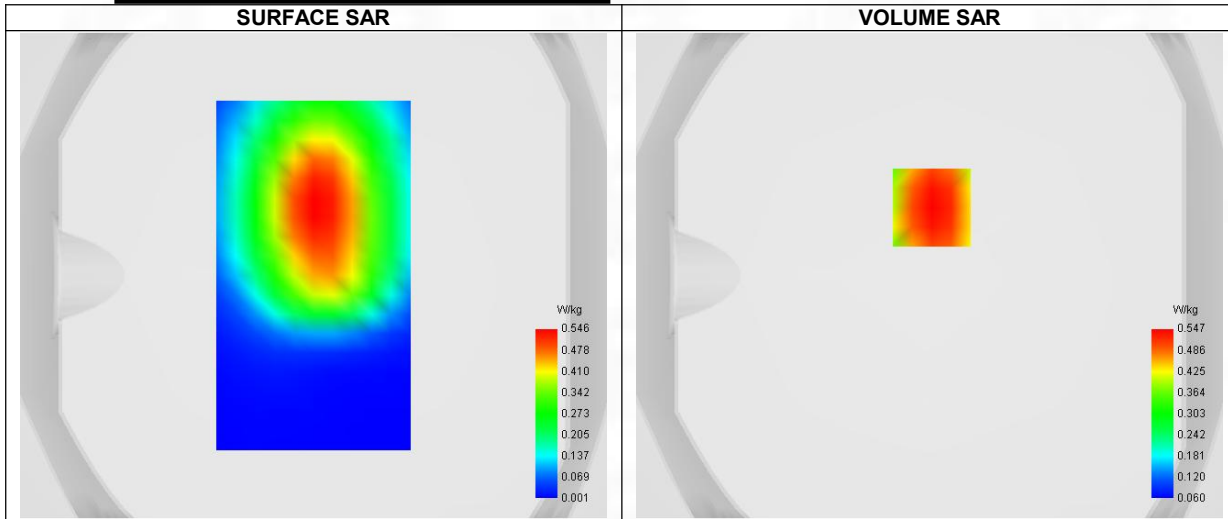
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 17
Channels/Frequency	Lower (23780)/ frequency 709.000 Mhz
Signal	LTE FDD
Cell Bandwidth	10 Mhz
Modulation	SC-OFDM - QPSK
RB offset	49
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	709.000
Relative permittivity (real part)	42.031
Relative permittivity (imaginary part)	17.239
Conductivity (S/m)	0.895

C. SAR Surface and Volume



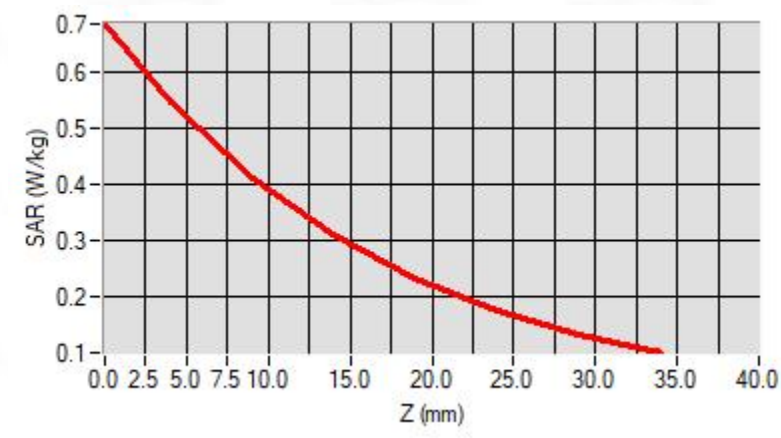
Maximum location: X=1.00, Y=28.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

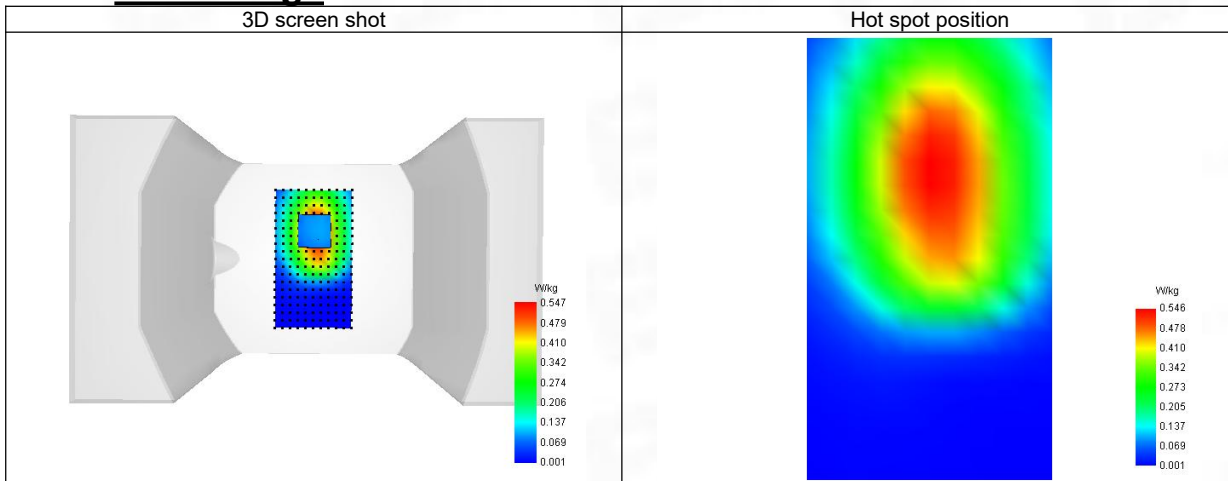
SAR 10g (W/Kg)	0.378
SAR 1g (W/Kg)	0.529
Variation (%)	-2.760
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.013376

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.688	0.547	0.410	0.309	0.231	0.173	0.129



F. 3D Image



11-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: 28/6/2026

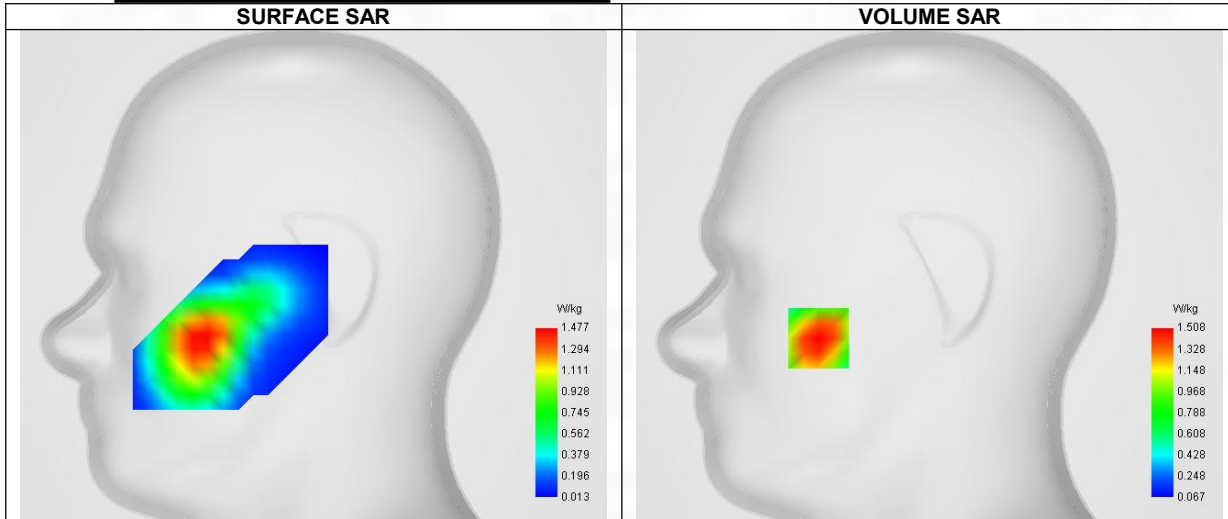
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 66
Channels/Frequency	Higher (132572)/ frequency 1770.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1770.000
Relative permittivity (real part)	40.197
Relative permittivity (imaginary part)	14.187
Conductivity (S/m)	1.395

C. SAR Surface and Volume

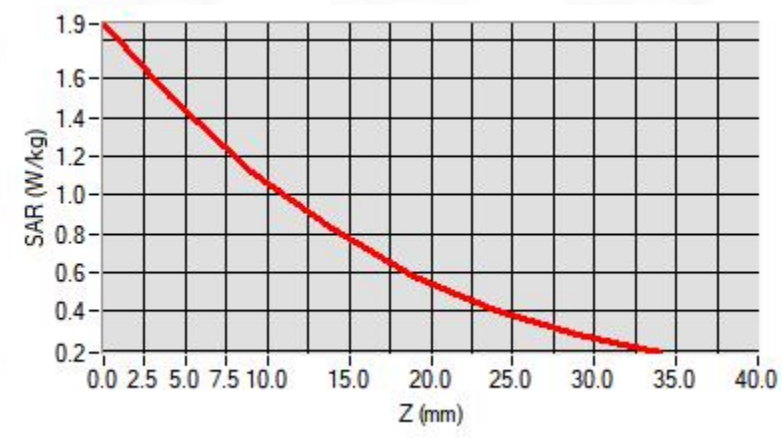


D. SAR 1g & 10g

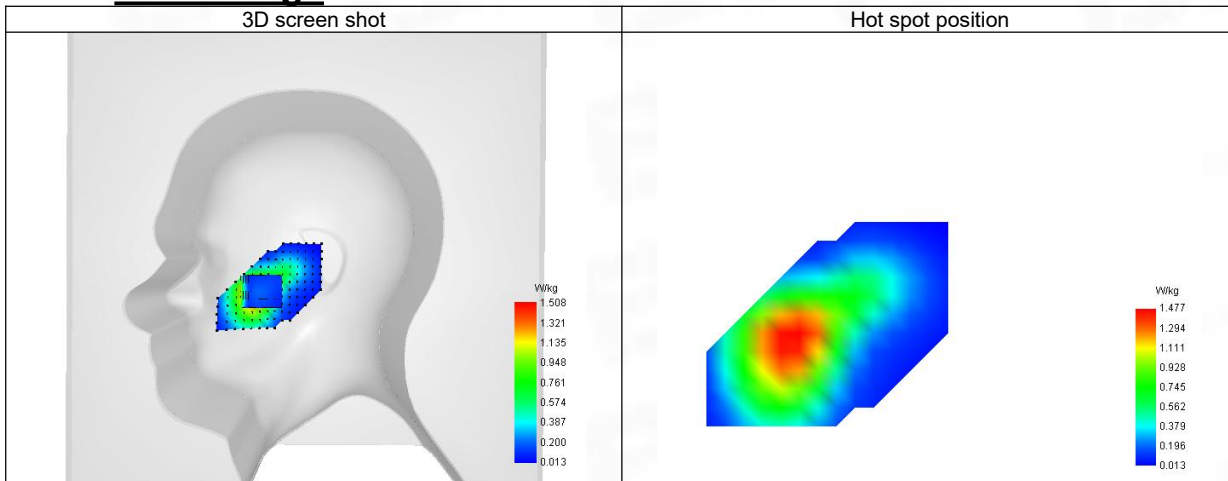
SAR 10g (W/Kg)	0.724
SAR 1g (W/Kg)	1.233
Variation (%)	-2.740
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	74.265159

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.883	1.508	1.120	0.829	0.581	0.406	0.275



F. 3D Image



12-Body with front position in dist. 10mm on Channel 132572 in LTE band 66

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

Date of measurement: 28/6/2026

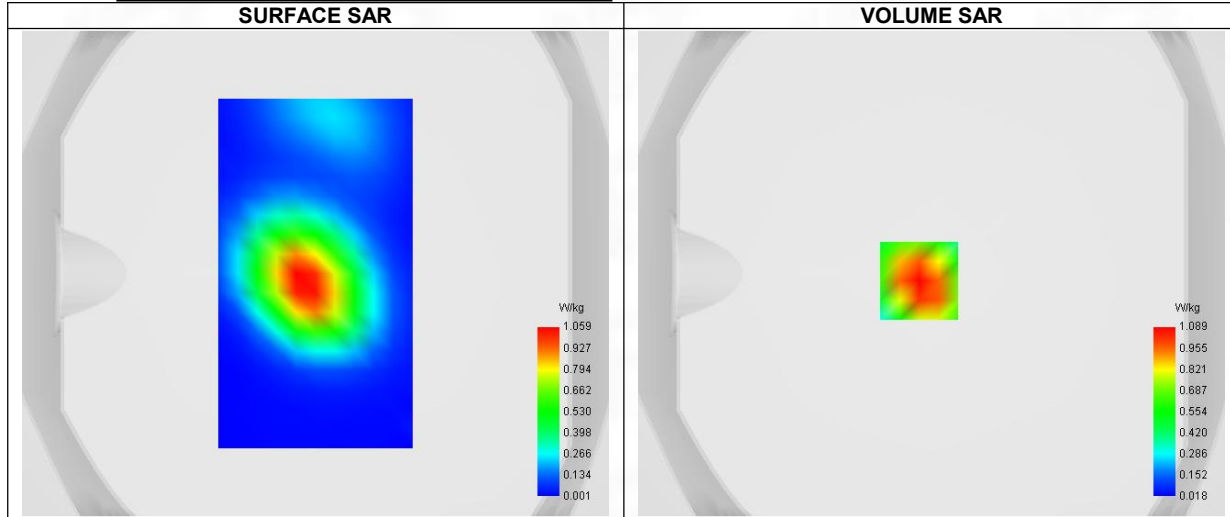
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	0.88
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 66
Channels/Frequency	Higher (132572)/ frequency 1770.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	50
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	1770.000
Relative permittivity (real part)	40.197
Relative permittivity (imaginary part)	14.187
Conductivity (S/m)	1.395

C. SAR Surface and Volume

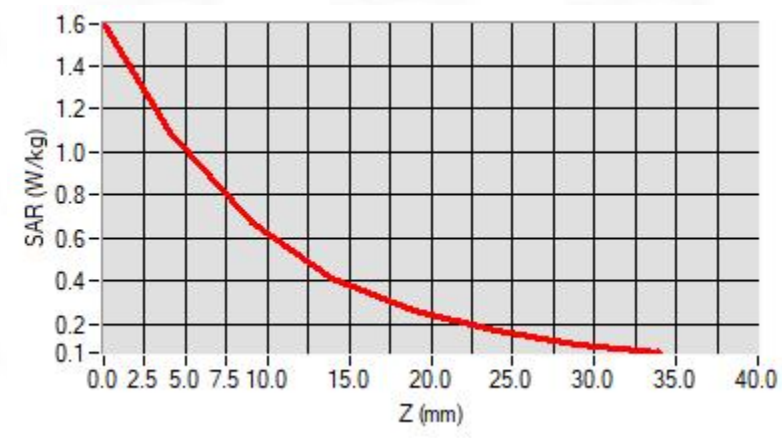


D. SAR 1g & 10g

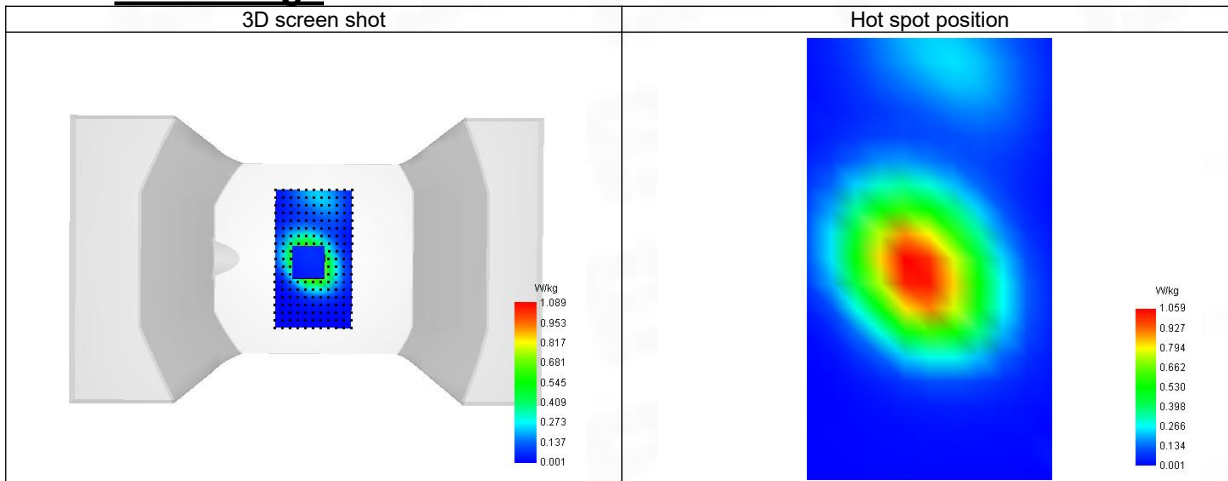
SAR 10g (W/Kg)	0.605
SAR 1g (W/Kg)	1.041
Variation (%)	3.870
Horizontal validation criteria: minimum distance (mm)	17.888544
Vertical validation criteria: SAR ratio M2/M1 (%)	61.417275

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	1.595	1.089	0.669	0.415	0.260	0.164	0.104



F. 3D Image



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

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 26/6/2026

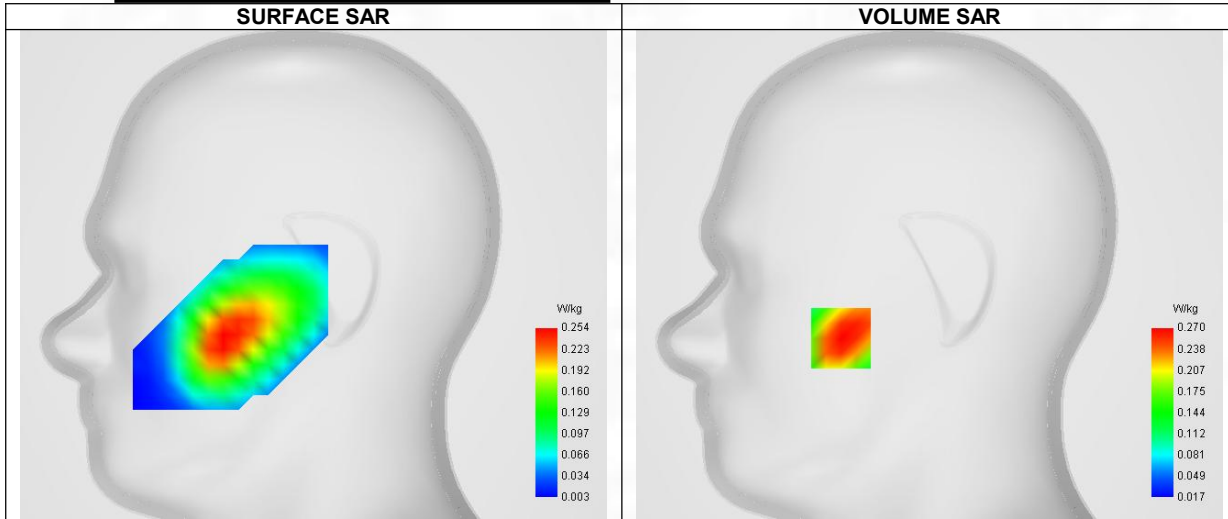
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	LTE band 71
Channels/Frequency	Higher (133372)/ frequency 688.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	688.000
Relative permittivity (real part)	41.938
Relative permittivity (imaginary part)	16.774
Conductivity (S/m)	0.889

C. SAR Surface and Volume



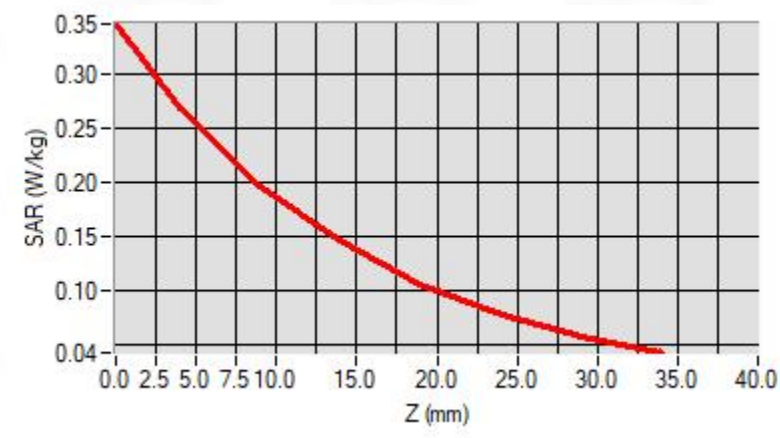
Maximum location: X=-47.00, Y=-34.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

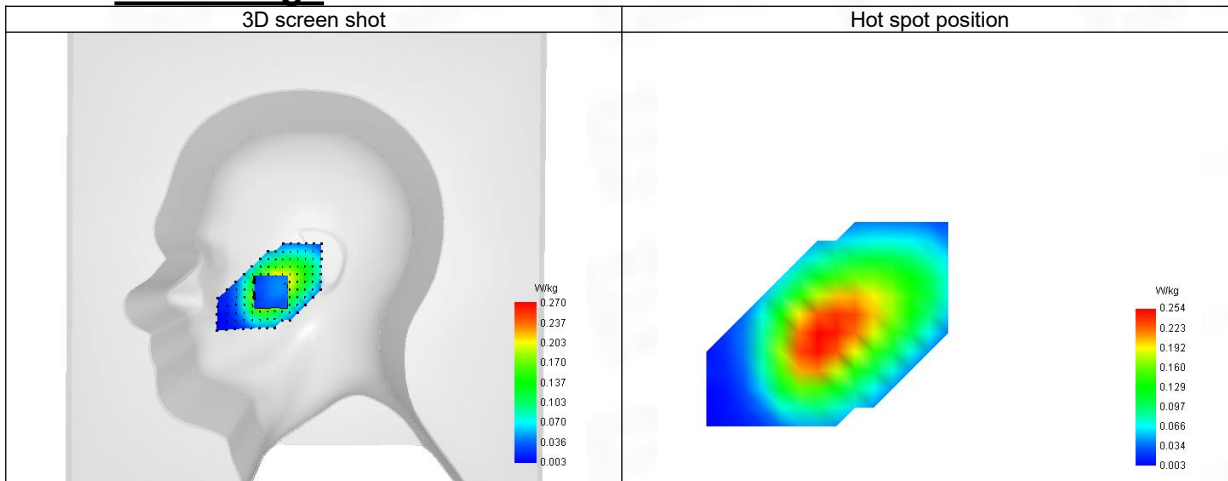
SAR 10g (W/Kg)	0.181
SAR 1g (W/Kg)	0.262
Variation (%)	-3.090
Horizontal validation criteria: minimum distance (mm)	22.627417
Vertical validation criteria: SAR ratio M2/M1 (%)	72.941805

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.347	0.270	0.197	0.146	0.106	0.078	0.057



F. 3D Image



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

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

Date of measurement: 26/6/2026

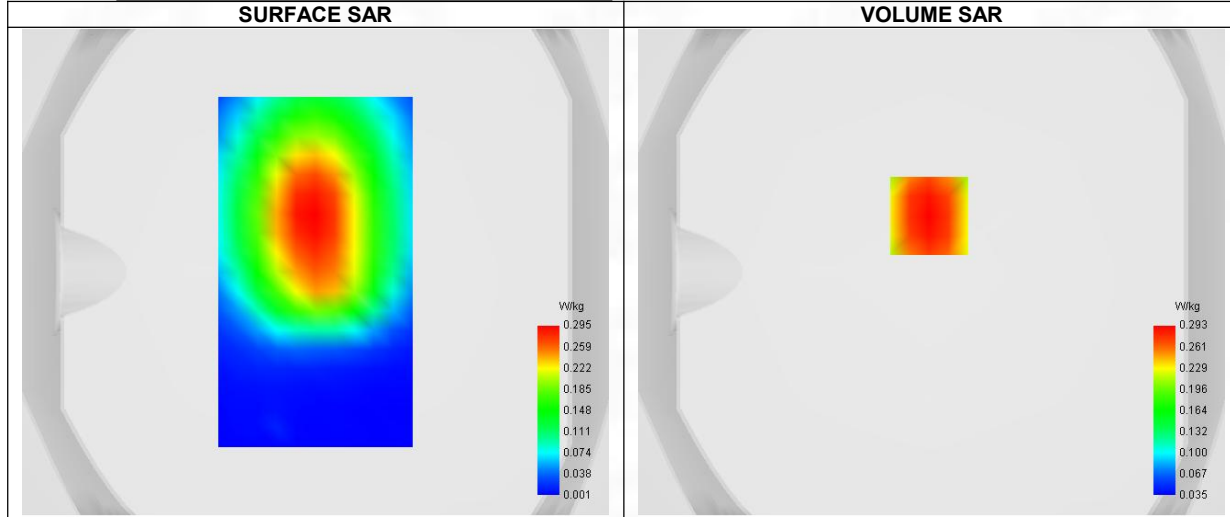
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.21
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	LTE band 71
Channels/Frequency	Higher (133372)/ frequency 688.000 Mhz
Signal	LTE FDD
Cell Bandwidth	20 Mhz
Modulation	SC-OFDM - QPSK
RB offset	99
RB size	1

B. Permittivity

Middle TX Frequency (MHz)	688.000
Relative permittivity (real part)	41.938
Relative permittivity (imaginary part)	16.774
Conductivity (S/m)	0.889

C. SAR Surface and Volume



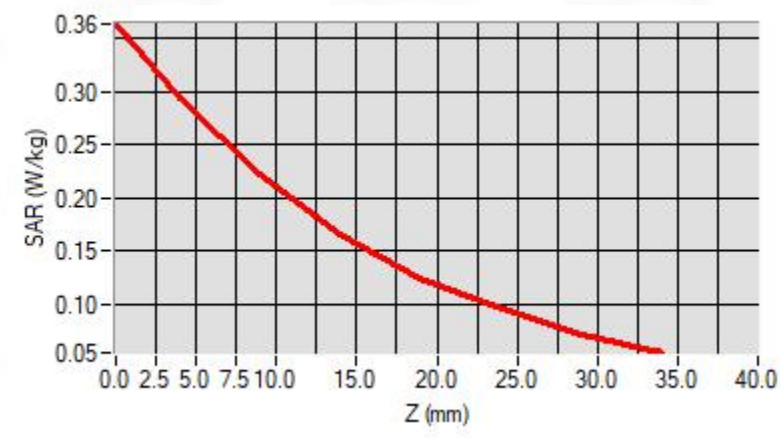
Maximum location: X=-1.00, Y=23.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

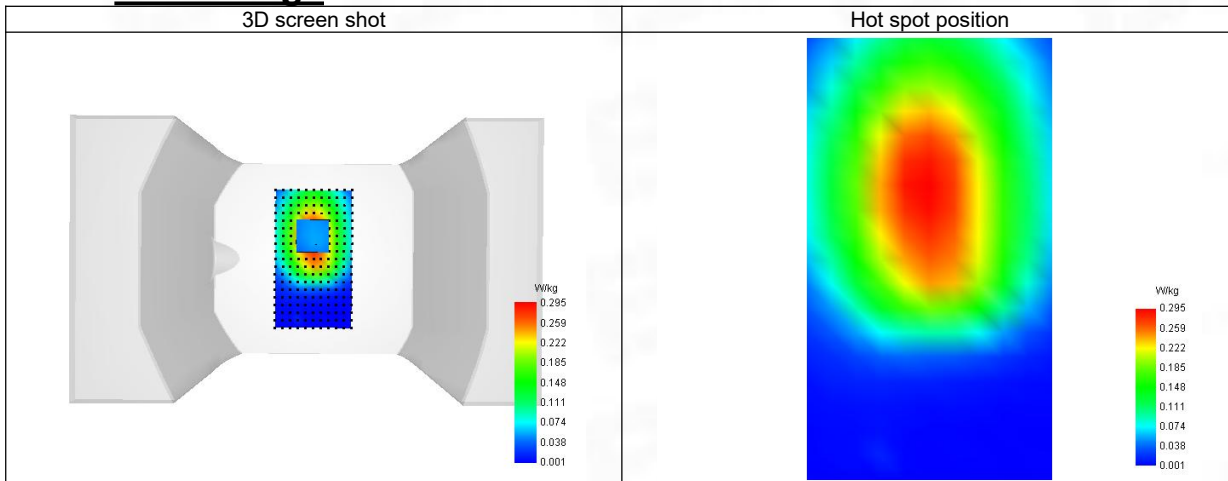
SAR 10g (W/Kg)	0.203
SAR 1g (W/Kg)	0.283
Variation (%)	-2.670
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	75.764406

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.364	0.293	0.222	0.166	0.125	0.095	0.072



F. 3D Image



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

SAR Measurement at ISM (Cheek, Right)

Date of measurement: 30/6/2026

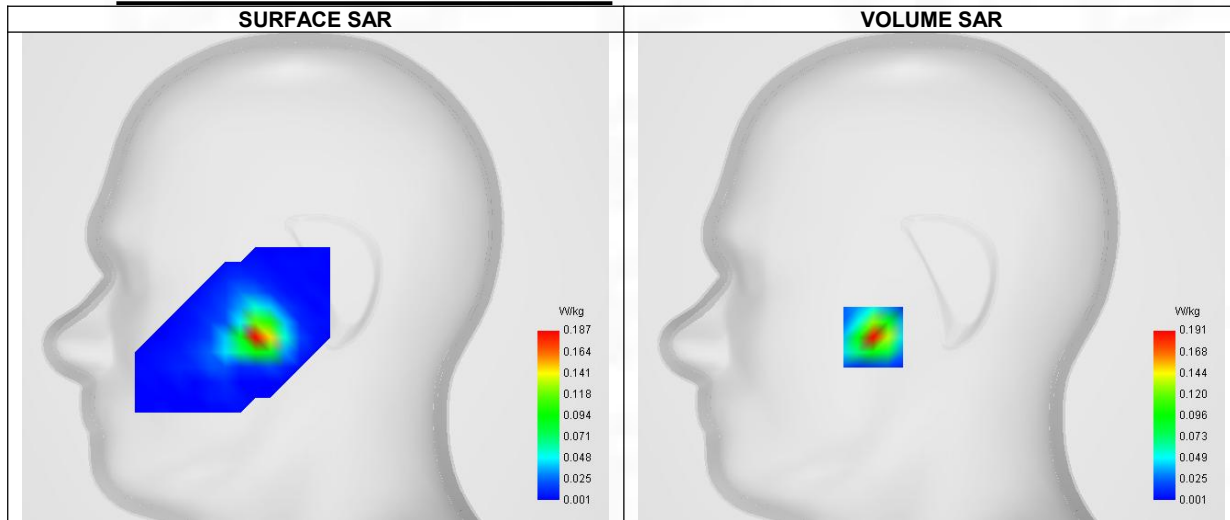
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Right head
Device Position	Cheek
Band	ISM
Channels/Frequency	Middle (6)/ frequency 2437.000 Mhz
Signal	IEEE 802.11 b

B. Permittivity

Middle TX Frequency (MHz)	2437.000
Relative permittivity (real part)	38.925
Relative permittivity (imaginary part)	13.593
Conductivity (S/m)	1.767

C. SAR Surface and Volume



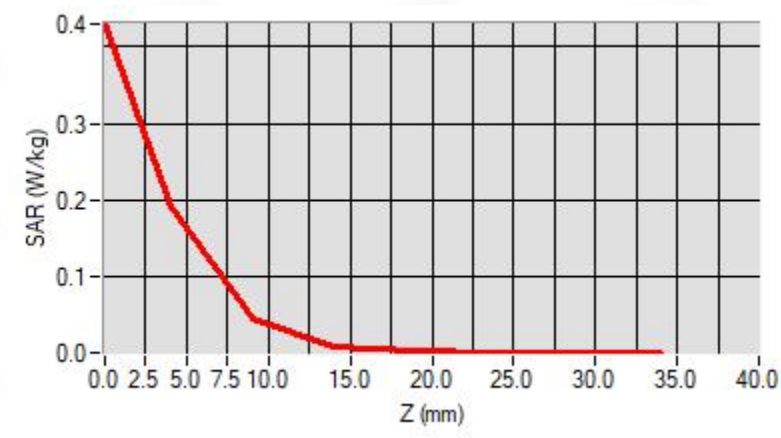
Maximum location: X=-31.00, Y=-32.00 ; SAR Peak: 0.42 W/kg

D. SAR 1g & 10g

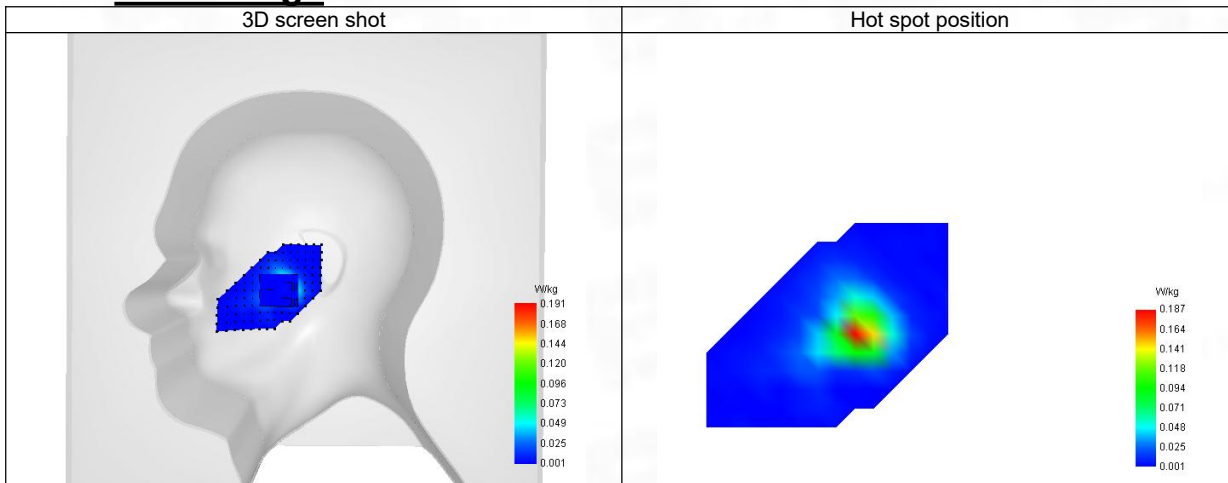
SAR 10g (W/Kg)	0.055
SAR 1g (W/Kg)	0.174
Variation (%)	1.450
Horizontal validation criteria: minimum distance (mm)	8.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	34.637153

E. Z Axis Scan

Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.429	0.191	0.047	0.010	0.003	0.002	0.002



F. 3D Image



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

SAR Measurement at ISM (Body, Validation Plane)

Date of measurement: 30/6/2026

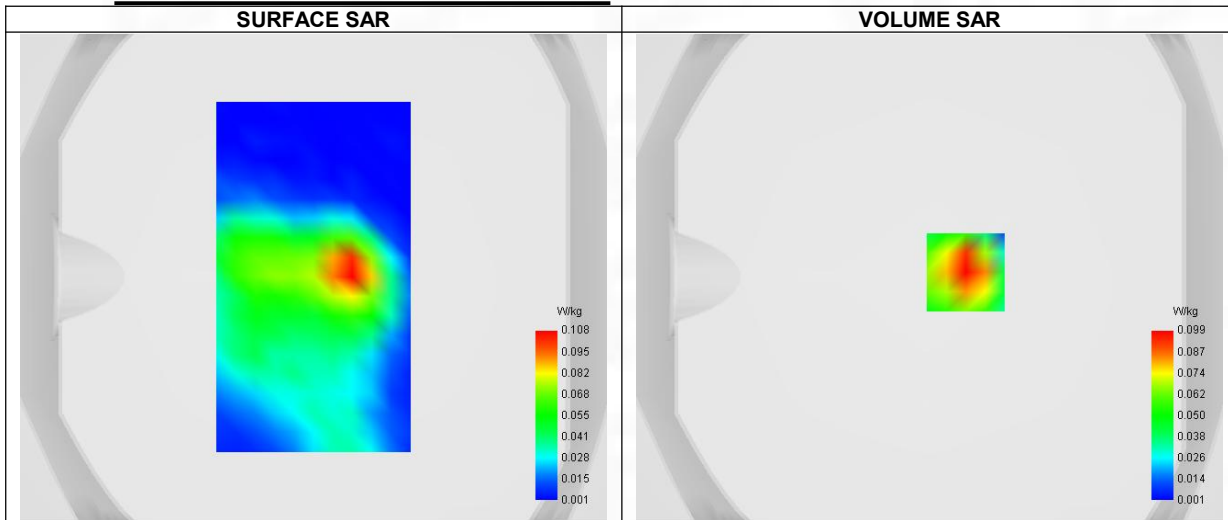
A. Experimental conditions.

Probe	0125-EPGO-445
ConvF	1.31
Area Scan	dx=8mm dy=8mm, Complete
Zoom Scan	5x5x7, dx=8mm dy=8mm dz=5.0mm, Complete
Phantom	Validation plane
Device Position	Body
Band	ISM
Channels/Frequency	Middle (6)/ frequency 2437.000 Mhz
Signal	IEEE 802.11 b

B. Permittivity

Middle TX Frequency (MHz)	2437.000
Relative permittivity (real part)	38.925
Relative permittivity (imaginary part)	13.593
Conductivity (S/m)	1.767

C. SAR Surface and Volume

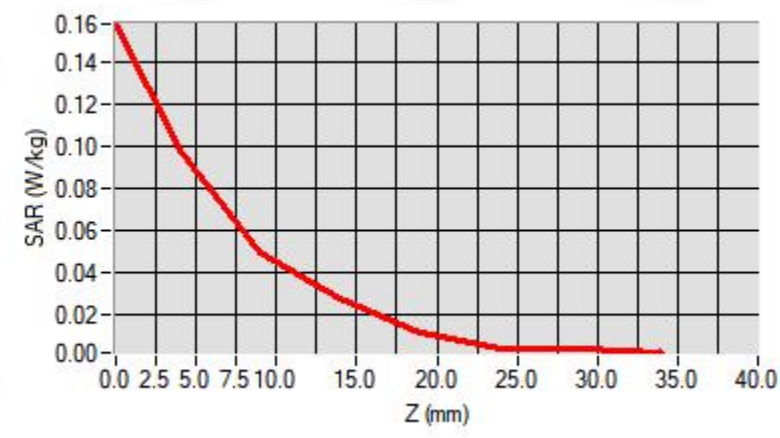


D. SAR 1g & 10g

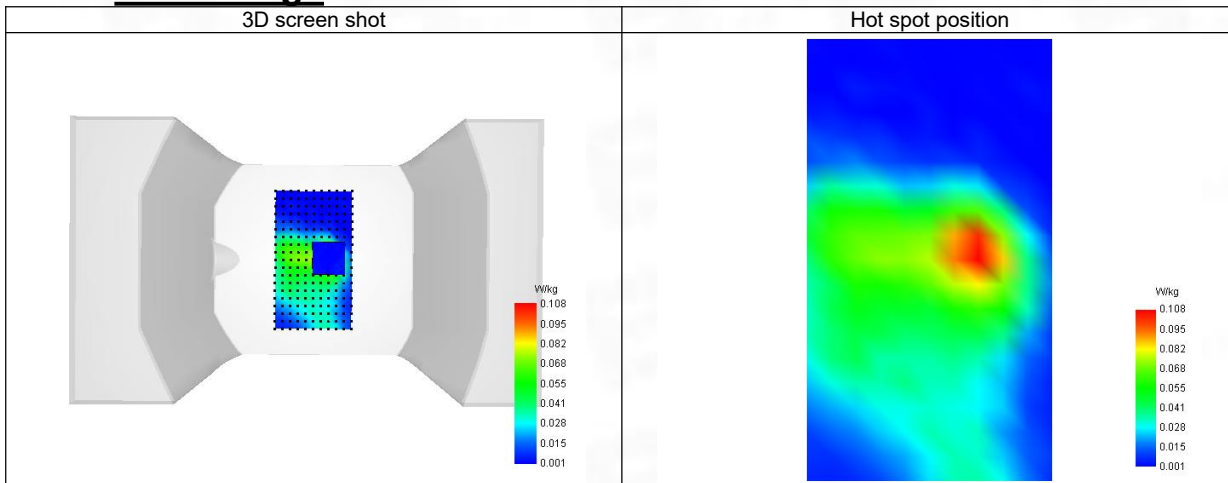
SAR 10g (W/Kg)	0.045
SAR 1g (W/Kg)	0.093
Variation (%)	-3.660
Horizontal validation criteria: minimum distance (mm)	16.000000
Vertical validation criteria: SAR ratio M2/M1 (%)	50.572876

E. Z Axis Scan

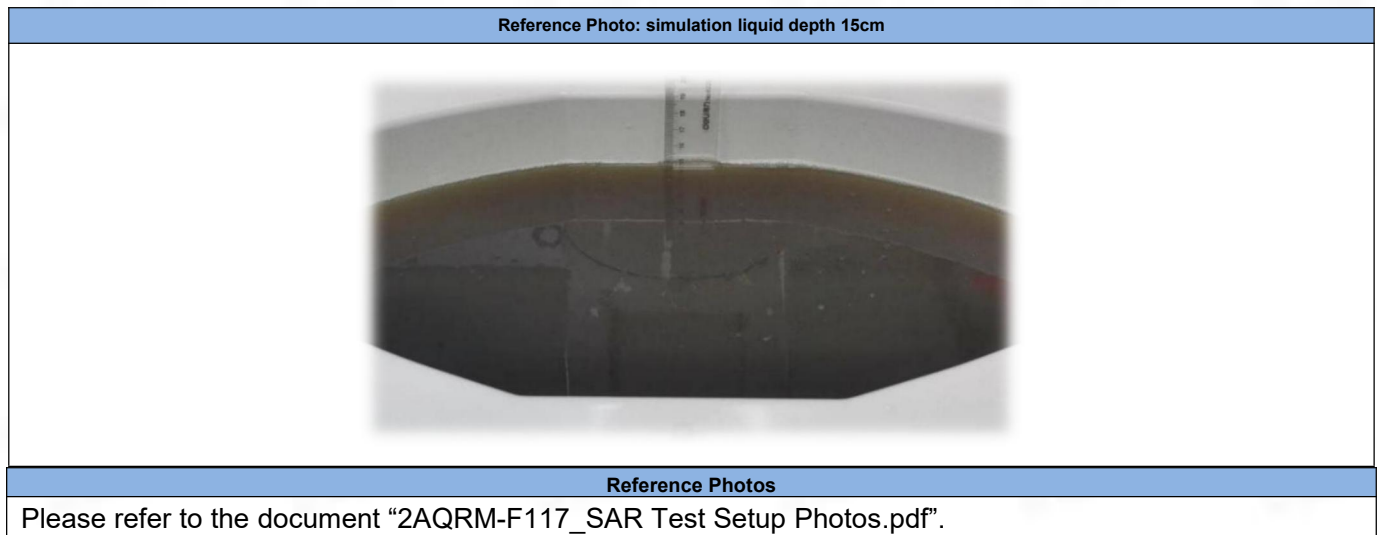
Z (mm)	0.00	4.00	9.00	14.00	19.00	24.00	29.00
SAR (W/Kg)	0.158	0.099	0.050	0.028	0.012	0.004	0.004



F. 3D Image



ANNEX D SAR Test Setup Photos



ANNEX E EUT External and Internal Photos

Please refer to RF Report.

ANNEX F Calibration Information

Please refer to the document "Calibration.pdf".



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