



SAR Test Report

For

Applicant Name: Xwireless LLC
Address: 11565 Old Georgetown Road, Rockville, MD, USA
EUT Name: Mobile Phone
Model Number: HD65

Issued By

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

Report Number: BTF230413R01701
FCC 47 CFR§2.1093 IEEE1528-2013 IEEE C95.1-2019
KDB447498 D01 v06 KDB447498 D04 v01

Test Standards: KDB865664 D01 v01r04 KDB865664 D02 v01r02
KDB941225 D01 v03r01 KDB941225 D05 v02r05
KDB248227 D01 v02r02 KDB941225 D06 v02r01
KDB648474 D04 v01r03 KDB690783 D01 v01r03

FCC ID: 2ADLJ-HD65
Test Conclusion: Pass
Test Date: 2023-04-24 to 2023-04-26
Date of Issue: 2023-04-27

Prepared By: 
Monica Zhou / Project Engineer
Date: 2023-04-27

Approved By: 
Ryan.CJ / EMC Manager
Date: 2023-04-27



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| Revision History | | |
|------------------|---|-------------------|
| Version | Issue Date | Revisions Content |
| R_V0 | 2023-04-27 | Original |
| | | |
| <i>Note:</i> | <i>Once the revision has been made, then previous versions reports are invalid.</i> | |

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1. Introduction

1.1 Identification of Testing Laboratory

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

1.2 Identification of the Responsible Testing Location

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

1.3 Laboratory Condition

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

1.4 Announcement

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

2. Product Information

2.1 Application Information

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

2.2 Manufacturer Information

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

2.3 Factory Information

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

2.4 General Description of Equipment under Test (EUT)

| | |
|-----------------------|---------------------|
| EUT Name | Mobile Phone |
| Under Test Model Name | HD65 |
| Sample No. | BTFSN230413E004-1/4 |

2.5 Equipment under Test Ancillary Equipment

| | | |
|-----------------------|----------------------|---------|
| Ancillary Equipment 1 | Rechargeable Battery | |
| | Capacity | 4000mAh |
| | Rated Voltage | 4.45V |

2.6 Technical Information

| | |
|-----------------------------------|--|
| Network and Wireless connectivity | 2G Network GSM/GPRS 850/1900 3G Network WCDMA/HSDPA/HSUPA Band 2/4/5 4G Network FDD LTE Band 2/4/5/12/13/25/26/66/71 TDD LTE Band 41 2.4G WIFI 802.11b, 802.11g, 802.11n(HT20/HT40) 5G WIFI 802.11a, 802.11n(HT20/HT40), 802.11ac(VHT20/VHT40/VHT80) BT (EDR+BLE) |
|-----------------------------------|--|

The requirement for the following technical information of the EUT was tested in this report:

| | | | |
|-------------------|--|---|---------------------|
| Operating Mode | GSM, WCDMA, LTE, WLAN, Bluetooth | | |
| Frequency Range | GSM 850 | TX: 824 ~ 849 MHz | RX: 869 ~ 894 MHz |
| | GSM 1900 | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
| | WCDMA Band 2 | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
| | WCDMA Band 4 | TX: 1710 ~ 1755 MHz | RX: 2110 ~ 2155 MHz |
| | WCDMA Band 5 | TX: 824 ~ 849 MHz | RX: 869 ~ 894 MHz |
| | LTE Band 2 | TX: 1850 ~ 1910 MHz | RX: 1930 ~ 1990 MHz |
| | LTE Band 4 | TX: 1710 ~ 1755 MHz | RX: 2110 ~ 2155 MHz |
| | LTE Band 5 | TX: 824 ~ 849 MHz | RX: 869 ~ 894 MHz |
| | LTE Band 12 | TX: 698 ~ 716 MHz | RX: 728 ~ 746 MHz |
| | LTE Band 13 | TX: 777 ~ 787 MHz | RX: 746 ~ 756 MHz |
| | LTE Band 25 | TX: 1850 ~ 1915 MHz | RX: 1930 ~ 1995 MHz |
| | LTE Band 26 | TX: 814 ~ 849 MHz | RX: 859 ~ 894 MHz |
| | LTE Band 66 | TX: 1710 ~ 1780 MHz | RX: 2110 ~ 2200 MHz |
| | LTE Band 71 | TX: 663 ~ 698 MHz | RX: 617 ~ 652 MHz |
| | LTE Band 41 | 2496 ~ 2690 MHz | |
| | 802.11b/g/n(HT20) | 2412 ~ 2462 MHz | |
| | 802.11n(HT40) | 2422 ~ 2452 MHz | |
| | 802.11a/802.11n(HT20/HT40)/ 802.11ac(VHT20/VHT40/VHT80) | 5150 ~ 5250 MHz | |
| 5250 ~ 5350 MHz | | | |
| 5470 ~ 5725 MHz | | | |
| 5725 ~ 5850 MHz | | | |
| Bluetooth | 2402 ~ 2480 MHz | | |
| Antenna Type | WWAN: FPC Antenna WLAN: FPC Antenna BT: FPC Antenna | | |
| Hotspot Function | Support | | |
| Power Reduction | Not Support | | |
| Exposure Category | General Population/Uncontrolled exposure | | |
| EUT Stage | Portable Device | | |
| Product | Type | | |
| | <input type="checkbox"/> Production unit | <input checked="" type="checkbox"/> Identical prototype | |

3. Summary of Test Results

3.1 Test Standards

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

3.2 Device Category and SAR Limit

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

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

NOTE:

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

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

3.3 Test Result Summary

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

<Highest Reported standalone SAR Summary>

| Exposure Position | Frequency Band | Reported SAR (W/kg) | Equipment Class | Highest Reported SAR (W/kg) | |
|---|----------------|---------------------|-----------------|-----------------------------|-----|
| Head 1-g SAR (0 mm Gap) | GSM 850 | 0.234 | PCE | 0.424 | |
| | GSM 1900 | 0.073 | | | |
| | WCDMA Band II | 0.152 | | | |
| | WCDMA Band IV | 0.155 | | | |
| | WCDMA Band V | 0.227 | | | |
| | LTE Band 2 | 0.196 | | | |
| | LTE Band 4 | 0.246 | | | |
| | LTE Band 5 | 0.174 | | | |
| | LTE Band 12 | 0.124 | | | |
| | LTE Band 13 | 0.138 | | | |
| | LTE Band 25 | 0.200 | | | |
| | LTE Band 26 | 0.138 | | | |
| | LTE Band 41 | 0.084 | | | |
| | LTE Band 66 | 0.282 | | | |
| | LTE Band 71 | 0.099 | | | |
| | WLAN 2.4 GHz | 0.247 | | | |
| | Bluetooth | 0.073 | | | DSS |
| | WLAN 5.2 GHz | 0.424 | | | NII |
| WLAN 5.4 GHz | 0.318 | | | | |
| WLAN 5.6 GHz | 0.322 | | | | |
| WLAN 5.8 GHz | 0.319 | | | | |
| Exposure Position | Frequency Band | Reported SAR (W/kg) | Equipment Class | Highest Reported SAR (W/kg) | |
| Hotspot(Body) 1-g SAR (10 mm Gap) | GSM 850 | 0.440 | PCB | 0.785 | |
| | GSM 1900 | 0.667 | | | |
| | WCDMA Band II | 0.785 | | | |
| | WCDMA Band IV | 0.739 | | | |
| | WCDMA Band V | 0.240 | | | |
| | LTE Band 2 | 0.660 | | | |
| | LTE Band 4 | 0.525 | | | |
| | LTE Band 5 | 0.355 | | | |
| | LTE Band 12 | 0.241 | | | |
| | LTE Band 13 | 0.269 | | | |
| | LTE Band 25 | 0.661 | | | |
| | LTE Band 26 | 0.250 | | | |
| | LTE Band 41 | 0.244 | | | |
| | LTE Band 66 | 0.507 | | | |
| | LTE Band 71 | 0.184 | | | |
| | WLAN 2.4 GHz | 0.257 | | | DTS |
| | Bluetooth | 0.093 | | | DSS |
| | WLAN 5.2 GHz | 0.407 | | | NII |
| WLAN 5.4 GHz | 0.294 | | | | |
| WLAN 5.6 GHz | 0.225 | | | | |
| WLAN 5.8 GHz | 0.223 | | | | |

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

<Highest Reported Simultaneous SAR>

| Exposure Position | Simultaneous Configuration | Highest Reported Simultaneous Transmission SAR (W/kg) | Limit (W/kg) | Verdict |
|--------------------------------------|----------------------------|---|--------------|---------|
| Head 1-g SAR (0 mm Gap) | LTE Band 66 + 5G WIFI | 0.640 | 1.6 | Pass |
| Hotspot(Body) 1-g SAR (10 mm Gap) | WCDMA Band 2 + 5G WIFI | 1.192 | 1.6 | Pass |

3.4 Test Uncertainty

3.4.1 Measurement uncertainty evaluation for SAR test

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

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

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

3.4.2 Measurement uncertainty evaluation for system check

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

4.2.2 Robot



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

4.2.3 E-Field Probe

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

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



4.2.4 Phantoms

SAM Phantom

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



SAM Phantom

The thickness of the phantom amounts to $2\text{ mm} \pm 0.2\text{ mm}$. 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.



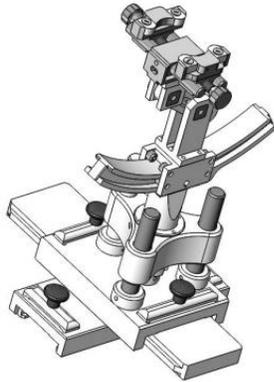
ELLI Phantom

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 200mm |
| Permittivity | 4.4 |
| Loss tangent | 0.017 |

4.2.5 Device Holder



| System Material | Permittivity | Loss tangent |
|-----------------|--------------|--------------|
| Delrin | 3.7 | 0.005 |

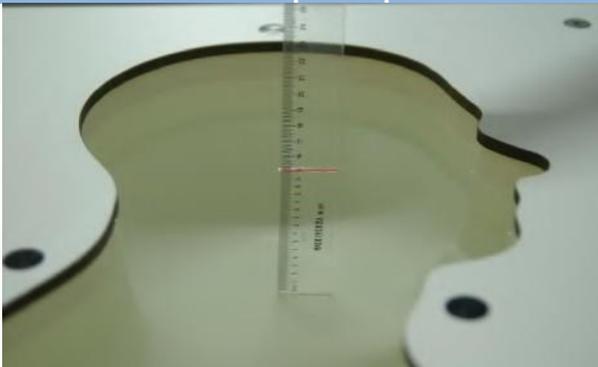
(The positioning system allows obtaining cheek and tilting position with a very good accuracy. In compliance with CENELEC, the tilt angle uncertainty is lower than 1°.)

| System Material | Permittivity | Loss tangent |
|-----------------|--------------|--------------|
| PMMA | 2.9 | 0.028 |

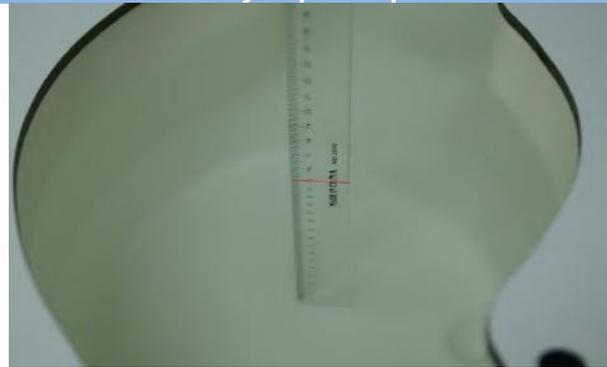
4.2.6 Simulating Liquid

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

Head Liquid Depth



Body Liquid Depth



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

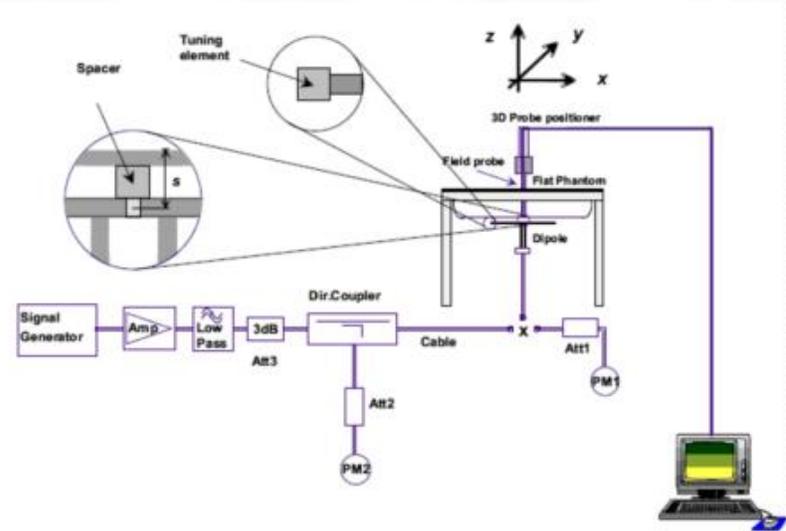
| Head (Reference IEEE1528) | | | | | | | | |
|-------------------------------------|-----------|--------------------|---------------|----------|------------------|----------|-----------------------------|-------------------------|
| Frequency (MHz) | Water (%) | Sugar (%) | Cellulose (%) | Salt (%)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

5. System Verification

5.1 Purpose of System Check

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

5.2 System Check Setup



6. TEST POSITION CONFIGURATIONS

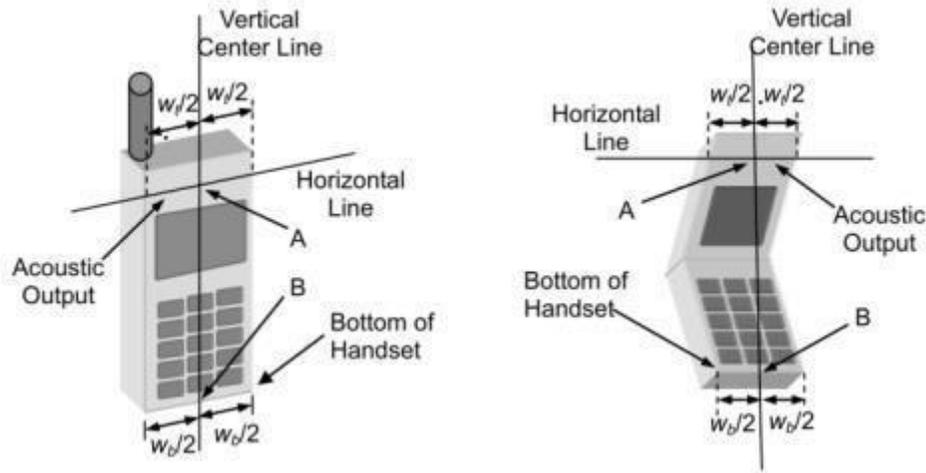
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

6.1 Head Exposure Conditions

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

6.1.1 Two Imaginary Lines on the Handset

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



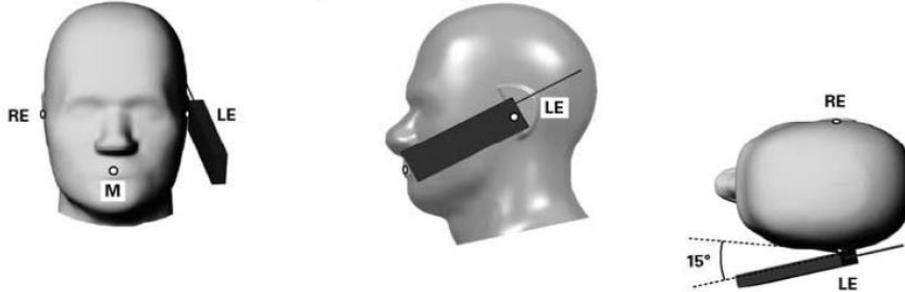
6.1.2 Two Imaginary Lines on the Handset

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



6.1.3 Titled Position

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

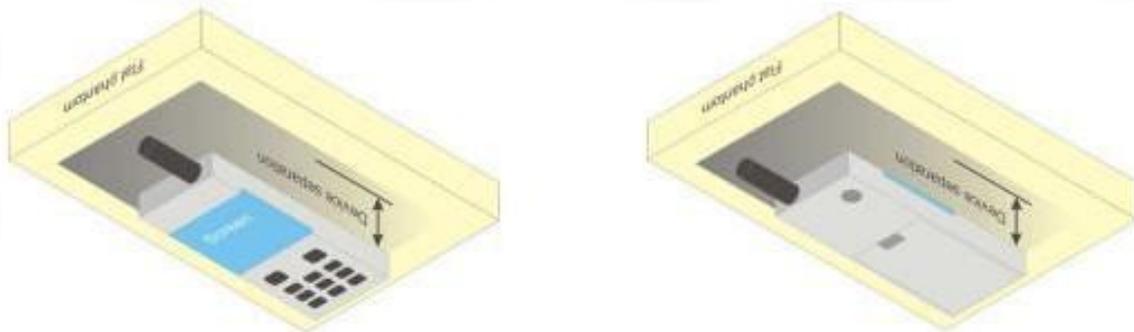


6.2 Body-worn Position Conditions

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

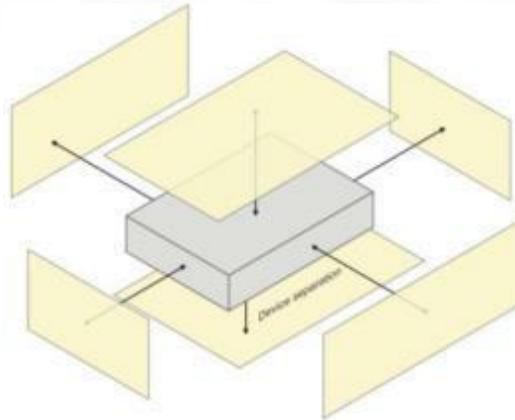
Body-worn accessories that do not contain metallic or conductive components may be tested according to worst-case exposure configurations, typically according to the smallest test separation distance required for the group of body-worn accessories with similar operating and exposure characteristics.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

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



6.3 Hotspot Mode Exposure Position Conditions

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



6.4 Product Specific 10g Exposure Consideration

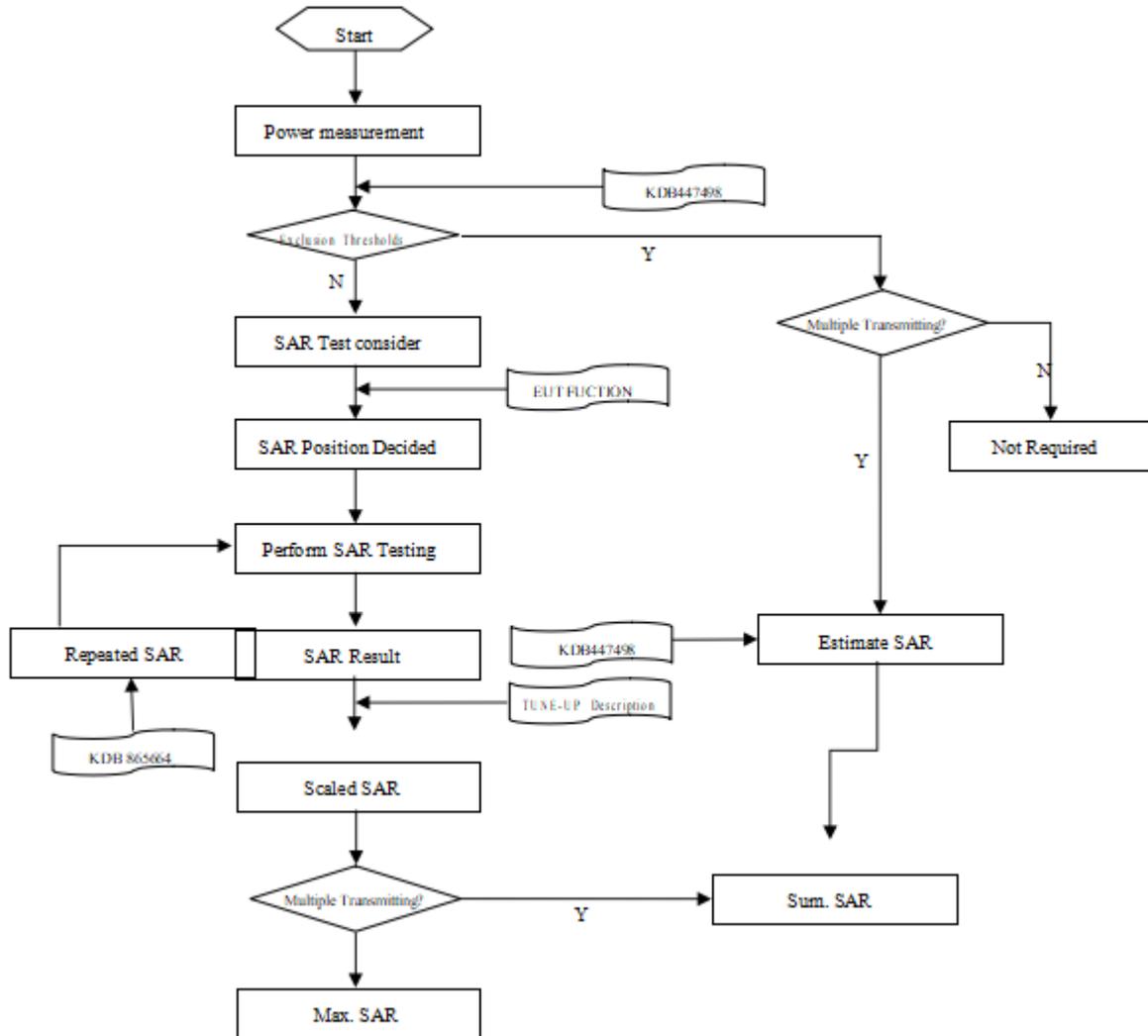
According with FCC KDB 648474 D04, for smart phones with a display diagonal dimension > 15.0 cm or an overall diagonal dimension > 16.0 cm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, unless it is confirmed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

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

7. Measurement Procedure

7.1 Measurement Process Diagram

Body SAR



7.2 SAR Scan General Requirement

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

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

7.3 Measurement Procedure

The following steps are used for each test position

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

7.4 Area & Zoom Scan Procedure

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10 g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r04 quoted below.

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

8. Conducted RF Output Power

8.1 GSM

| Mode: GSM850 | | Maximum Tune-up(dBm) | Burst Average Power (dBm) | | | Division Factors | Frame-Average Power (dBm) | | |
|--|-----------|----------------------|---------------------------|--------------|-----------|------------------|---------------------------|--------------|-----------|
| | | | CH128 | CH190 | CH251 | | CH128 | CH190 | CH251 |
| | | | 824.2MHz | 836.6MHz | 848.8MHz | | 824.2MHz | 836.6MHz | 848.8MHz |
| GSM | | 32.00 | 31.65 | 31.85 | 31.80 | -9.03 | 22.62 | 22.82 | 22.77 |
| GPRS (GMSK) | 1Tx slot | 32.00 | 31.78 | 31.86 | 31.77 | -9.03 | 22.75 | 22.83 | 22.74 |
| | 2Tx slots | 29.50 | 29.36 | 29.47 | 29.31 | -6.02 | 23.34 | 23.45 | 23.29 |
| | 3Tx slots | 28.50 | 28.18 | 28.33 | 28.14 | -4.26 | 23.92 | 24.07 | 23.88 |
| | 4Tx slots | 26.50 | 26.09 | 26.27 | 26.02 | -3.01 | 23.08 | 23.26 | 23.01 |
| EGPRS (8PSK) | 1Tx slot | 28.50 | 26.34 | 28.26 | 25.76 | -9.03 | 17.31 | 19.23 | 16.73 |
| | 2Tx slots | 25.50 | 25.30 | 25.00 | 24.85 | -6.02 | 19.28 | 18.98 | 18.83 |
| | 3Tx slots | 25.00 | 23.40 | 23.21 | 24.50 | -4.26 | 19.14 | 18.95 | 20.24 |
| | 4Tx slots | 22.50 | 22.34 | 22.13 | 21.89 | -3.01 | 19.33 | 19.12 | 18.88 |
| Mode: GSM1900 | | Maximum Tune-up(dBm) | Burst Average Power (dBm) | | | Division Factors | Frame-Average Power (dBm) | | |
| | | | CH512 | CH661 | CH810 | | CH512 | CH661 | CH810 |
| | | | 1850.2MHz | 1880.0MHz | 1909.8MHz | | 1850.2MHz | 1880.0MHz | 1909.8MHz |
| GSM | | 30.50 | 30.20 | 29.86 | 29.43 | -9.03 | 21.17 | 20.83 | 20.40 |
| GPRS (GMSK) | 1Tx slot | 30.50 | 30.22 | 29.85 | 29.35 | -9.03 | 21.19 | 20.82 | 20.32 |
| | 2Tx slots | 28.50 | 28.18 | 27.73 | 26.93 | -6.02 | 22.16 | 21.71 | 20.91 |
| | 3Tx slots | 27.50 | 27.05 | 26.54 | 25.74 | -4.26 | 22.79 | 22.28 | 21.48 |
| | 4Tx slots | 25.50 | 25.11 | 24.55 | 23.68 | -3.01 | 22.10 | 21.54 | 20.67 |
| EGPRS (8PSK) | 1Tx slot | 26.00 | 25.86 | 25.04 | 24.36 | -9.03 | 16.83 | 16.01 | 15.33 |
| | 2Tx slots | 25.50 | 24.66 | 25.24 | 23.17 | -6.02 | 18.64 | 19.22 | 17.15 |
| | 3Tx slots | 23.50 | 22.50 | 21.68 | 23.07 | -4.26 | 18.24 | 17.42 | 18.81 |
| | 4Tx slots | 21.50 | 21.46 | 20.58 | 19.94 | -3.01 | 18.45 | 17.57 | 16.93 |
| Note: 1) Division Factors To average the power, the division factor is as follows: 1Tx-slot = 1 transmit time slot out of 8 time slots=> conducted power divided by (8/1) => -9.03dB 2Tx-slots = 2 transmit time slots out of 8 time slots=> conducted power divided by (8/2) => -6.02dB 3Tx-slots = 3 transmit time slots out of 8 time slots=> conducted power divided by (8/3) => -4.26dB 4Tx-slots = 4 transmit time slots out of 8 time slots=> conducted power divided by (8/4) => -3.01dB | | | | | | | | | |

8.2 WCDMA

| Mode | | Maximum Tune-up(dBm) | WCDMA Band II | | |
|-----------|-----------|----------------------|-----------------------|--------------|--------------|
| | | | Conducted Power (dBm) | | |
| | | | CH9262 | CH9400 | CH9538 |
| RMC 12.2K | | 22.50 | 22.26 | 21.89 | 21.74 |
| HSDPA | Subtest-1 | 20.00 | 19.89 | 19.69 | 19.42 |
| | Subtest-2 | 20.00 | 19.90 | 19.69 | 19.46 |
| | Subtest-3 | 20.00 | 19.92 | 19.66 | 19.43 |
| | Subtest-4 | 20.00 | 19.89 | 19.70 | 19.42 |
| HSUPA | Subtest-1 | 18.00 | 17.74 | 17.38 | 16.93 |
| | Subtest-2 | 18.00 | 17.78 | 17.44 | 16.97 |
| | Subtest-3 | 17.50 | 17.45 | 17.12 | 17.21 |
| | Subtest-4 | 18.00 | 17.98 | 17.10 | 17.44 |
| | Subtest-5 | 18.00 | 17.97 | 17.65 | 17.45 |
| Mode | | Maximum Tune-up(dBm) | WCDMA Band IV | | |
| | | | Conducted Power (dBm) | | |
| | | | CH1312 | CH1413 | CH1513 |
| RMC 12.2K | | 23.00 | 22.42 | 22.50 | 22.41 |
| HSDPA | Subtest-1 | 20.50 | 20.26 | 20.11 | 20.21 |
| | Subtest-2 | 20.50 | 20.30 | 20.11 | 20.19 |
| | Subtest-3 | 20.50 | 20.26 | 20.10 | 20.19 |
| | Subtest-4 | 20.50 | 20.26 | 20.10 | 20.21 |
| HSUPA | Subtest-1 | 18.00 | 17.64 | 17.67 | 17.94 |
| | Subtest-2 | 18.50 | 18.15 | 17.66 | 17.94 |
| | Subtest-3 | 18.50 | 17.67 | 18.00 | 17.97 |
| | Subtest-4 | 18.50 | 18.15 | 18.19 | 18.17 |
| | Subtest-5 | 18.50 | 18.15 | 18.19 | 17.97 |
| Mode | | Maximum Tune-up(dBm) | WCDMA Band V | | |
| | | | Conducted Power (dBm) | | |
| | | | CH4132 | CH4183 | CH4233 |
| RMC 12.2K | | 22.50 | 22.12 | 22.13 | 22.16 |
| HSDPA | Subtest-1 | 20.00 | 19.87 | 19.89 | 19.82 |
| | Subtest-2 | 20.00 | 19.88 | 19.88 | 19.83 |
| | Subtest-3 | 20.00 | 19.88 | 19.89 | 19.86 |
| | Subtest-4 | 20.00 | 19.86 | 19.85 | 19.85 |
| HSUPA | Subtest-1 | 17.50 | 17.33 | 17.35 | 17.36 |
| | Subtest-2 | 18.00 | 17.33 | 17.84 | 17.88 |
| | Subtest-3 | 18.00 | 17.36 | 17.61 | 17.39 |
| | Subtest-4 | 18.00 | 17.87 | 17.32 | 17.36 |
| | Subtest-5 | 18.00 | 17.67 | 17.34 | 17.66 |

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

8.3 LTE Band 2

| LTE-FDD Band 2 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|----------------|------------|---------------|-----------|----------------------|----------------------|-----------|-----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 18607 | 18900 | 19193 |
| | | | | | 1850.7MHz | 1880.0MHz | 1909.3MHz |
| 1.4MHz | QPSK | 1 | 0 | 23.00 | 22.66 | 22.34 | 22.08 |
| | | | 2 | 23.00 | 22.74 | 22.45 | 22.14 |
| | | | 5 | 23.00 | 22.62 | 22.32 | 22.04 |
| | | 3 | 0 | 23.00 | 22.79 | 22.34 | 22.20 |
| | | | 2 | 23.00 | 22.82 | 22.39 | 22.18 |
| | | | 3 | 23.00 | 22.77 | 22.33 | 22.20 |
| | 16QAM | 6 | 0 | 22.00 | 21.69 | 21.28 | 21.08 |
| | | | 0 | 22.00 | 21.77 | 21.19 | 21.03 |
| | | | 2 | 22.00 | 21.92 | 21.32 | 21.14 |
| | | 1 | 5 | 22.00 | 21.75 | 21.21 | 21.10 |
| | | | 0 | 22.00 | 21.71 | 21.29 | 21.17 |
| | | | 2 | 22.00 | 21.76 | 21.30 | 21.11 |
| 3 | 3 | 22.00 | 21.72 | 21.26 | 21.03 | | |
| | 6 | 21.00 | 20.72 | 20.18 | 19.72 | | |
| | 0 | 21.00 | 20.72 | 20.18 | 19.72 | | |
| 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 | 22.79 | 22.18 | 22.05 |
| | | | 7 | 22.50 | 22.39 | 22.43 | 22.03 |
| | | | 14 | 22.50 | 22.13 | 22.38 | 21.79 |
| | | 8 | 0 | 21.50 | 21.28 | 21.41 | 20.92 |
| | | | 4 | 21.50 | 21.36 | 21.45 | 21.13 |
| | | | 7 | 21.50 | 21.29 | 21.41 | 21.04 |
| | 16QAM | 15 | 0 | 21.50 | 21.38 | 21.37 | 21.13 |
| | | | 0 | 22.00 | 21.86 | 21.38 | 21.10 |
| | | | 7 | 22.00 | 21.96 | 21.49 | 21.15 |
| | | 1 | 14 | 22.00 | 21.78 | 21.39 | 20.89 |
| | | | 0 | 20.50 | 20.49 | 20.27 | 20.16 |
| | | | 4 | 21.00 | 20.81 | 20.36 | 20.28 |
| 8 | 7 | 21.00 | 20.77 | 20.33 | 20.20 | | |
| | 15 | 21.00 | 20.91 | 20.37 | 20.25 | | |
| | 0 | 21.00 | 20.91 | 20.37 | 20.25 | | |
| 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 | 22.68 | 21.72 | 21.67 |
| | | | 13 | 23.00 | 22.74 | 21.84 | 21.74 |
| | | | 24 | 23.00 | 22.56 | 21.99 | 21.55 |
| | | 12 | 0 | 22.00 | 21.63 | 21.04 | 20.80 |
| | | | 6 | 22.00 | 21.73 | 21.21 | 21.08 |
| | | | 13 | 22.00 | 21.60 | 21.12 | 21.03 |
| | 16QAM | 25 | 0 | 22.00 | 21.63 | 21.01 | 20.96 |
| | | | 0 | 21.50 | 21.15 | 20.95 | 20.76 |
| | | | 13 | 21.50 | 21.13 | 21.04 | 21.02 |
| | | 1 | 24 | 21.50 | 20.98 | 21.06 | 20.92 |
| | | | 0 | 20.50 | 20.24 | 20.10 | 19.92 |
| | | | 6 | 21.00 | 20.56 | 20.14 | 20.13 |
| 12 | 13 | 20.50 | 20.44 | 20.37 | 20.05 | | |
| | 25 | 20.50 | 20.48 | 20.24 | 20.11 | | |
| | 0 | 20.50 | 20.48 | 20.24 | 20.11 | | |

| 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 | 22.66 | 21.80 | 21.62 | | |
| | | | 25 | 23.00 | 22.62 | 21.98 | 21.85 | | |
| | | | 49 | 22.50 | 22.03 | 21.76 | 21.82 | | |
| | | 25 | 0 | 21.50 | 21.32 | 20.98 | 21.04 | | |
| | | | 13 | 21.50 | 21.25 | 21.09 | 21.02 | | |
| | | | 25 | 21.50 | 21.03 | 21.36 | 21.22 | | |
| | 50 | 0 | 21.50 | 21.17 | 21.20 | 21.14 | | | |
| | | 16QAM | 1 | 0 | 22.00 | 21.77 | 20.96 | 20.68 | |
| | | | | 25 | 22.00 | 21.97 | 21.16 | 20.86 | |
| | 49 | | | 22.00 | 21.68 | 20.92 | 20.88 | | |
| | 25 | 25 | 0 | 20.50 | 20.41 | 20.09 | 20.09 | | |
| | | | 13 | 20.650 | 20.31 | 20.22 | 20.22 | | |
| | | | 25 | 20.50 | 20.17 | 20.47 | 20.27 | | |
| | 50 | 50 | 0 | 20.50 | 20.22 | 20.36 | 20.19 | | |
| | | | 18675 | 1 | 0 | 23.00 | 22.50 | 21.71 | 21.50 |
| 38 | | | | | 22.50 | 22.21 | 21.78 | 21.60 | |
| 15MHz | QPSK | 1 | 74 | 22.00 | 21.79 | 21.48 | 21.37 | | |
| | | | 36 | 0 | 21.50 | 21.28 | 20.82 | 20.72 | |
| | | | | 18 | 21.50 | 21.20 | 20.89 | 20.73 | |
| | | 39 | | 21.00 | 20.95 | 20.94 | 20.77 | | |
| | | 75 | 0 | 21.50 | 21.08 | 20.95 | 20.75 | | |
| | | | 16QAM | 1 | 0 | 22.00 | 21.63 | 20.86 | 20.98 |
| | 38 | | | | 22.00 | 21.73 | 20.94 | 20.90 | |
| | 74 | 21.50 | | | 21.41 | 20.71 | 20.84 | | |
| | 36 | 36 | 0 | 20.50 | 20.33 | 19.88 | 19.65 | | |
| | | | 18 | 20.50 | 20.23 | 19.85 | 19.70 | | |
| | | | 39 | 20.50 | 19.97 | 20.15 | 19.79 | | |
| | 75 | 75 | 0 | 20.50 | 20.16 | 20.26 | 19.85 | | |
| | | | 18700 | 1 | 0 | 22.00 | 21.88 | 21.60 | 21.37 |
| | | | | | 50 | 22.50 | 22.32 | 21.91 | 21.74 |
| | 20MHz | QPSK | 1 | 99 | 22.00 | 21.60 | 21.39 | 21.22 | |
| 50 | | | | 0 | 21.50 | 21.39 | 20.65 | 20.96 | |
| | | | | 25 | 21.50 | 21.11 | 20.79 | 20.68 | |
| | | | 50 | 21.00 | 20.83 | 20.87 | 20.89 | | |
| 100 | | | 0 | 21.50 | 21.15 | 20.78 | 20.91 | | |
| | | | 16QAM | 1 | 0 | 21.50 | 21.19 | 20.79 | 20.97 |
| | | 50 | | | 21.50 | 21.49 | 21.08 | 21.26 | |
| 99 | | 21.00 | | | 20.92 | 20.66 | 20.83 | | |
| 50 | | 50 | 0 | 20.50 | 20.47 | 19.66 | 20.02 | | |
| | | | 25 | 20.50 | 20.17 | 19.85 | 19.71 | | |
| | | | 50 | 20.00 | 19.87 | 19.89 | 19.89 | | |
| 100 | | 100 | 0 | 20.50 | 20.30 | 19.78 | 19.97 | | |

Band 4

| LTE-FDD Band 4 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|----------------|------------|---------------|------------|----------------------|----------------------|----------------------|--------------------|--------------------|
| Bandwidth | Modulation | RB allocation | RB offset | | 19957 1710.7MHz | 20175 1732.5MHz | 20393 1754.3MHz | |
| 1.4MHz | QPSK | 1 | 0 | 23.00 | 22.60 | 22.67 | 22.54 | |
| | | | 2 | 23.00 | 22.76 | 22.76 | 22.63 | |
| | | | 5 | 23.00 | 22.58 | 22.63 | 22.53 | |
| | | 3 | 0 | 23.00 | 22.74 | 22.75 | 22.64 | |
| | | | 2 | 23.00 | 22.78 | 22.78 | 22.67 | |
| | | | 3 | 23.00 | 22.74 | 22.78 | 22.67 | |
| | 6 | 0 | 22.00 | 21.75 | 21.71 | 21.64 | | |
| | 16QAM | 1 | 0 | 22.00 | 21.80 | 21.73 | 21.54 | |
| | | | 2 | 22.00 | 21.92 | 21.81 | 21.59 | |
| | | | 5 | 22.00 | 21.83 | 21.75 | 21.51 | |
| | | 3 | 0 | 22.00 | 21.73 | 21.89 | 21.80 | |
| | | | 2 | 22.00 | 21.78 | 21.88 | 21.84 | |
| | | | 3 | 22.00 | 21.76 | 21.87 | 21.86 | |
| | | 6 | 0 | 21.00 | 20.75 | 20.70 | 20.66 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 19965 1711.5MHz | 20175 1732.5MHz |
| 3MHz | | QPSK | 1 | 0 | 23.00 | 22.69 | 22.78 | 22.76 |
| | 7 | | | 23.00 | 22.87 | 22.90 | 22.85 | |
| | 14 | | | 23.00 | 22.73 | 22.67 | 22.70 | |
| | 8 | | 0 | 22.00 | 21.77 | 21.84 | 21.75 | |
| | | | 4 | 22.00 | 21.83 | 21.85 | 21.77 | |
| | | | 7 | 22.00 | 21.78 | 21.79 | 21.73 | |
| | 15 | 0 | 22.00 | 21.81 | 21.84 | 21.69 | | |
| | 16QAM | 1 | 0 | 22.50 | 22.33 | 22.03 | 21.74 | |
| | | | 7 | 22.50 | 22.47 | 22.13 | 21.88 | |
| | | | 14 | 22.50 | 22.34 | 21.94 | 21.72 | |
| | | 8 | 0 | 21.00 | 20.99 | 20.84 | 20.85 | |
| | | | 4 | 21.50 | 21.06 | 20.90 | 20.86 | |
| | | | 7 | 21.50 | 21.00 | 20.82 | 20.81 | |
| | | 15 | 0 | 21.00 | 20.93 | 20.84 | 20.83 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 19976 1712.5MHz | 20175 1732.5MHz |
| 5MHz | | QPSK | 1 | 0 | 23.00 | 22.61 | 22.65 | 22.55 |
| | 13 | | | 23.00 | 22.79 | 22.70 | 22.65 | |
| | 24 | | | 23.00 | 22.63 | 22.58 | 22.52 | |
| | 12 | | 0 | 22.00 | 21.68 | 21.77 | 21.63 | |
| | | | 6 | 22.00 | 21.76 | 21.79 | 21.68 | |
| | | | 13 | 22.00 | 21.79 | 21.68 | 21.58 | |
| | 25 | 0 | 22.00 | 21.73 | 21.73 | 21.59 | | |
| | 16QAM | 1 | 0 | 22.00 | 21.51 | 21.95 | 21.67 | |
| | | | 13 | 22.00 | 21.66 | 22.13 | 21.74 | |
| | | | 24 | 22.00 | 21.51 | 21.94 | 21.59 | |
| | | 12 | 0 | 21.00 | 20.75 | 20.86 | 20.65 | |
| | | | 6 | 21.00 | 20.82 | 20.88 | 20.71 | |
| | | | 13 | 21.00 | 20.79 | 20.76 | 20.60 | |
| | | 25 | 0 | 21.00 | 20.80 | 20.79 | 20.67 | |

| 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 | 22.60 | 22.69 | 22.62 | | |
| | | | 25 | 23.00 | 22.92 | 22.86 | 22.83 | | |
| | | | 49 | 23.00 | 22.68 | 22.62 | 22.58 | | |
| | | 25 | 0 | 22.00 | 21.72 | 21.88 | 21.73 | | |
| | | | 13 | 22.00 | 21.82 | 21.81 | 21.71 | | |
| | | | 25 | 22.00 | 21.91 | 21.72 | 21.64 | | |
| | 16QAM | 1 | 0 | 22.50 | 22.23 | 21.90 | 21.65 | | |
| | | | 25 | 22.50 | 22.49 | 22.08 | 21.79 | | |
| | | | 49 | 22.50 | 22.28 | 21.81 | 21.56 | | |
| | | 25 | 0 | 21.00 | 20.82 | 20.96 | 20.89 | | |
| | | | 13 | 21.00 | 20.94 | 20.90 | 20.89 | | |
| | | | 25 | 21.00 | 20.98 | 20.77 | 20.77 | | |
| | | 50 | 0 | 21.00 | 20.88 | 20.89 | 20.78 | | |
| | | | | | | | 20025 | 20175 | 20325 |
| | | | | | | | 1717.5MHz | 1732.5MHz | 1747.5MHz |
| 15MHz | QPSK | 1 | 0 | 23.00 | 22.48 | 22.54 | 22.49 | | |
| | | | 38 | 23.00 | 22.72 | 22.67 | 22.61 | | |
| | | | 74 | 22.50 | 22.48 | 22.46 | 22.44 | | |
| | | 36 | 0 | 22.00 | 21.68 | 21.78 | 21.74 | | |
| | | | 18 | 22.00 | 21.81 | 21.73 | 21.72 | | |
| | | | 39 | 22.00 | 21.79 | 21.65 | 21.61 | | |
| | 16QAM | 1 | 0 | 22.50 | 22.13 | 21.82 | 21.97 | | |
| | | | 38 | 22.50 | 22.33 | 21.91 | 22.06 | | |
| | | | 74 | 22.50 | 22.13 | 21.64 | 21.78 | | |
| | | 36 | 0 | 21.00 | 20.73 | 20.82 | 20.71 | | |
| | | | 18 | 21.00 | 20.81 | 20.80 | 20.71 | | |
| | | | 39 | 21.00 | 20.84 | 20.68 | 20.61 | | |
| | | 75 | 0 | 21.00 | 20.79 | 20.76 | 20.69 | | |
| | | | | | | | 20050 | 20175 | 20300 |
| | | | | | | | 1720.0MHz | 1732.5MHz | 1745.0MHz |
| 20MHz | QPSK | 1 | 0 | 22.50 | 22.41 | 22.43 | 22.34 | | |
| | | | 50 | 23.00 | 22.87 | 22.84 | 22.78 | | |
| | | | 99 | 22.50 | 22.42 | 22.39 | 22.31 | | |
| | | 50 | 0 | 22.00 | 21.58 | 21.87 | 21.85 | | |
| | | | 25 | 22.00 | 21.75 | 21.78 | 21.72 | | |
| | | | 50 | 22.00 | 21.74 | 21.56 | 21.62 | | |
| | 16QAM | 1 | 0 | 22.00 | 21.66 | 21.69 | 21.73 | | |
| | | | 50 | 22.00 | 22.17 | 22.07 | 22.37 | | |
| | | | 99 | 22.00 | 21.76 | 21.61 | 21.85 | | |
| | | 50 | 0 | 21.00 | 20.67 | 20.94 | 20.94 | | |
| | | | 25 | 21.00 | 20.83 | 20.80 | 20.79 | | |
| | | | 50 | 21.00 | 20.81 | 20.63 | 20.67 | | |
| | | 100 | 0 | 21.00 | 20.75 | 20.75 | 20.82 | | |

Band 5

| LTE-FDD Band 5 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|----------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 20407 | 20525 | 20643 |
| | | | | | 824.7MHz | 836.5MHz | 848.3MHz |
| 1.4MHz | QPSK | 1 | 0 | 22.00 | 21.97 | 21.97 | 21.82 |
| | | | 2 | 22.50 | 22.09 | 22.10 | 21.87 |
| | | | 5 | 22.00 | 21.96 | 21.96 | 21.74 |
| | | 3 | 0 | 22.50 | 22.07 | 22.08 | 21.94 |
| | | | 2 | 22.50 | 22.12 | 22.10 | 21.93 |
| | | | 3 | 22.50 | 22.10 | 22.10 | 21.90 |
| | 6 | 0 | 21.50 | 21.09 | 21.05 | 20.90 | |
| | 16QAM | 1 | 0 | 21.50 | 21.20 | 21.05 | 20.87 |
| | | | 2 | 21.50 | 21.30 | 21.12 | 20.95 |
| | | | 5 | 21.50 | 21.21 | 21.05 | 20.81 |
| | | 3 | 0 | 21.50 | 21.08 | 21.18 | 21.13 |
| | | | 2 | 21.50 | 21.13 | 21.18 | 21.15 |
| 3 | | | 21.50 | 21.08 | 21.17 | 21.13 | |
| 6 | 0 | 20.50 | 20.13 | 20.04 | 19.96 | | |
| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 20415 | 20525 | 20635 |
| | | | | | 825.5MHz | 836.5MHz | 847.5MHz |
| 3MHz | QPSK | 1 | 0 | 22.50 | 22.11 | 22.12 | 22.06 |
| | | | 7 | 22.50 | 22.28 | 22.24 | 22.18 |
| | | | 14 | 22.50 | 22.05 | 22.07 | 21.91 |
| | | 8 | 0 | 21.50 | 21.13 | 21.19 | 21.09 |
| | | | 4 | 21.50 | 21.19 | 21.17 | 21.03 |
| | | | 7 | 21.50 | 21.13 | 21.11 | 20.97 |
| | 15 | 0 | 21.50 | 21.15 | 21.15 | 20.99 | |
| | 16QAM | 1 | 0 | 22.00 | 21.70 | 21.32 | 21.16 |
| | | | 7 | 22.00 | 21.85 | 21.45 | 21.25 |
| | | | 14 | 22.00 | 21.64 | 21.26 | 21.00 |
| | | 8 | 0 | 20.50 | 20.33 | 20.19 | 20.18 |
| | | | 4 | 20.50 | 20.38 | 20.18 | 20.17 |
| | | | 7 | 20.50 | 20.33 | 20.10 | 20.06 |
| | | 15 | 0 | 20.50 | 20.23 | 20.15 | 20.13 |

| LTE-FDD Band 5 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|----------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 20425 | 20525 | 20625 | |
| | | | | | 826.5MHz | 836.5MHz | 846.5MHz | |
| 5MHz | QPSK | 1 | 0 | 22.50 | 21.95 | 22.00 | 21.91 | |
| | | | 13 | 22.50 | 22.07 | 22.07 | 22.06 | |
| | | | 24 | 22.00 | 21.98 | 21.93 | 21.81 | |
| | | 12 | 0 | 21.50 | 21.09 | 21.15 | 21.08 | |
| | | | 6 | 21.50 | 21.11 | 21.11 | 21.08 | |
| | | | 13 | 21.50 | 21.04 | 21.00 | 20.83 | |
| | | 25 | 0 | 21.50 | 21.05 | 21.06 | 20.97 | |
| | | 16QAM | 1 | 0 | 21.50 | 20.86 | 21.28 | 21.08 |
| | | | | 13 | 21.50 | 20.98 | 21.41 | 21.16 |
| | 24 | | | 21.50 | 20.86 | 21.23 | 20.92 | |
| | 12 | | 0 | 20.50 | 20.06 | 20.20 | 20.09 | |
| | | | 6 | 20.50 | 20.14 | 20.20 | 20.13 | |
| | | | 13 | 20.50 | 20.10 | 20.04 | 19.83 | |
| | 25 | 0 | 20.50 | 20.14 | 20.10 | 20.02 | | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 20450 | 20525 | 20600 | |
|-----------|------------|---------------|-----------|----------------------|----------|----------|--------------|-------|
| | | | | | 829.0MHz | 836.5MHz | 844.0MHz | |
| 10MHz | QPSK | 1 | 0 | 22.50 | 21.98 | 22.08 | 21.98 | |
| | | | 25 | 22.50 | 22.23 | 22.21 | 22.24 | |
| | | | 49 | 22.50 | 22.04 | 21.94 | 21.87 | |
| | | 25 | 0 | 21.50 | 21.11 | 21.27 | 21.03 | |
| | | | 13 | 21.50 | 21.18 | 21.14 | 21.09 | |
| | | | 25 | 21.50 | 21.15 | 21.05 | 20.84 | |
| | | 50 | 0 | 21.50 | 21.15 | 21.13 | 20.94 | |
| | | 16QAM | 1 | 0 | 22.00 | 21.60 | 21.22 | 21.02 |
| | | | | 25 | 22.00 | 21.81 | 21.43 | 21.25 |
| | 49 | | | 22.00 | 21.63 | 21.14 | 20.90 | |
| | 25 | | 0 | 20.50 | 20.20 | 20.30 | 20.15 | |
| | | | 13 | 20.50 | 20.28 | 20.19 | 20.22 | |
| | | | 25 | 20.50 | 20.24 | 20.10 | 20.01 | |
| | 50 | 0 | 20.50 | 20.19 | 20.15 | 19.95 | | |

Band 12

| LTE-FDD Band 12 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|---------------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 23017 | 23095 | 23173 | |
| | | | | 699.7MHz | 707.5MHz | 715.3MHz | | |
| 1.4MHz | QPSK | 1 | 0 | 22.00 | 21.86 | 21.96 | 21.95 | |
| | | | 2 | 22.50 | 21.94 | 22.07 | 22.05 | |
| | | | 5 | 22.00 | 21.85 | 21.98 | 21.96 | |
| | | 3 | 0 | 22.50 | 21.95 | 22.04 | 22.09 | |
| | | | 2 | 22.50 | 21.99 | 22.06 | 22.11 | |
| | | | 3 | 22.50 | 21.96 | 22.05 | 22.07 | |
| | | 6 | 0 | 21.50 | 20.91 | 20.98 | 21.05 | |
| | | 16QAM | 1 | 0 | 21.50 | 21.01 | 20.96 | 20.95 |
| | | | | 2 | 21.50 | 21.14 | 21.06 | 21.08 |
| | 5 | | | 21.50 | 20.98 | 21.01 | 20.96 | |
| | 3 | | 0 | 21.50 | 20.94 | 21.13 | 21.22 | |
| | | | 2 | 21.50 | 20.96 | 21.05 | 21.27 | |
| | | | 3 | 21.50 | 20.94 | 21.10 | 21.25 | |
| | 6 | 0 | 20.50 | 19.94 | 19.96 | 20.11 | | |
| | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 23025 | 23095 | 23165 |
| | | | | | 700.5MHz | 707.5MHz | 714.5MHz | |
| 3MHz | QPSK | 1 | 0 | 22.50 | 21.97 | 22.06 | 22.15 | |
| | | | 7 | 22.50 | 22.09 | 22.22 | 22.29 | |
| | | | 14 | 22.50 | 21.94 | 22.11 | 22.14 | |
| | | 8 | 0 | 21.50 | 20.97 | 21.10 | 21.12 | |
| | | | 4 | 21.50 | 21.00 | 21.11 | 21.18 | |
| | | | 7 | 21.50 | 20.96 | 21.07 | 21.14 | |
| | | 15 | 0 | 21.50 | 20.99 | 21.07 | 21.11 | |
| | | 16QAM | 1 | 0 | 22.00 | 21.54 | 21.26 | 21.14 |
| | | | | 7 | 22.00 | 21.68 | 21.37 | 21.25 |
| | 14 | | | 22.00 | 21.55 | 21.20 | 21.12 | |
| | 8 | | 0 | 20.50 | 20.18 | 20.08 | 20.20 | |
| | | | 4 | 20.50 | 20.21 | 20.16 | 20.26 | |
| | | | 7 | 20.50 | 20.17 | 20.10 | 20.23 | |
| | 15 | 0 | 20.50 | 20.09 | 20.09 | 20.18 | | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 23035 | 23095 | 23155 | |
|-----------|------------|---------------|-----------|----------------------|----------|----------|--------------|--------------|
| | | | | | 701.5MHz | 707.5MHz | 713.5MHz | |
| 5MHz | QPSK | 1 | 0 | 22.00 | 21.84 | 21.92 | 21.85 | |
| | | | 13 | 22.50 | 21.96 | 22.03 | 22.00 | |
| | | | 24 | 22.00 | 21.95 | 21.92 | 21.91 | |
| | | 12 | 0 | 21.50 | 20.95 | 21.03 | 21.02 | |
| | | | 6 | 21.50 | 21.00 | 21.03 | 21.04 | |
| | | | 13 | 21.50 | 20.99 | 20.91 | 21.12 | |
| | 25 | 0 | 21.50 | 20.96 | 20.92 | 21.06 | | |
| | | 16QAM | 1 | 0 | 21.50 | 20.71 | 21.17 | 20.95 |
| | | | | 13 | 21.50 | 20.82 | 21.30 | 21.12 |
| | 24 | | | 21.50 | 20.81 | 21.22 | 21.01 | |
| | 12 | 0 | 20.50 | 19.94 | 19.99 | 20.00 | | |
| | | | 6 | 20.50 | 20.00 | 20.10 | 19.99 | |
| | | | 13 | 20.50 | 19.99 | 19.97 | 20.08 | |
| | | 25 | 0 | 20.50 | 20.02 | 19.99 | 20.13 | |
| | | | 1 | 0 | 22.00 | 21.82 | 21.90 | 21.99 |
| 25 | | | | 22.50 | 22.10 | 22.19 | 22.20 | |
| 10MHz | QPSK | 1 | 49 | 22.50 | 21.93 | 21.97 | 22.05 | |
| | | | 25 | 0 | 21.50 | 20.97 | 20.89 | 21.22 |
| | | | | 13 | 21.50 | 21.06 | 21.05 | 21.10 |
| | | 25 | | 21.50 | 21.12 | 20.84 | 21.12 | |
| | | 50 | 0 | 21.50 | 21.06 | 20.80 | 21.18 | |
| | | | 16QAM | 1 | 0 | 21.50 | 21.44 | 21.10 |
| | 25 | | | | 22.00 | 21.74 | 21.35 | 21.21 |
| | 49 | 22.00 | | | 21.51 | 21.14 | 21.04 | |
| | 25 | 0 | 20.50 | 20.09 | 19.94 | 20.36 | | |
| | | | 13 | 20.50 | 20.17 | 20.12 | 20.20 | |
| | | | 25 | 20.50 | 20.22 | 19.86 | 20.24 | |
| | | 50 | 0 | 20.50 | 20.10 | 19.92 | 20.26 | |

Band 13

| LTE-FDD Band 13 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 23205 | 23230 | 23255 | |
| | | | | | 779.5MHz | 782.0MHz | 784.5MHz | |
| 5MHz | QPSK | 1 | 0 | 23.00 | 22.59 | 22.54 | 22.46 | |
| | | | 13 | 23.00 | 22.69 | 22.59 | 22.55 | |
| | | | 24 | 23.00 | 22.53 | 22.44 | 22.40 | |
| | | 12 | 0 | 22.00 | 21.57 | 21.73 | 21.58 | |
| | | | 6 | 22.00 | 21.72 | 21.63 | 21.57 | |
| | | | 13 | 22.00 | 21.50 | 21.50 | 21.59 | |
| | 25 | 0 | 22.00 | 21.52 | 21.60 | 21.62 | | |
| | | 16QAM | 1 | 0 | 22.00 | 21.63 | 21.43 | 21.78 |
| | | | | 13 | 22.00 | 21.82 | 21.46 | 21.82 |
| | 24 | | | 22.00 | 21.64 | 21.33 | 21.63 | |
| | 12 | 0 | 21.00 | 20.55 | 20.72 | 20.65 | | |
| | | | 6 | 21.00 | 20.70 | 20.67 | 20.65 | |
| | | | 13 | 21.00 | 20.58 | 20.50 | 20.65 | |
| | | 25 | 0 | 21.00 | 20.58 | 20.74 | 20.65 | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 23230 |
|-----------|------------|---------------|-----------|----------------------|--------------|
| | | | | | 782.0MHz |
| 10MHz | QPSK | 1 | 0 | 23.00 | 22.62 |
| | | | 25 | 23.00 | 22.73 |
| | | | 49 | 22.50 | 22.44 |
| | | 25 | 0 | 22.00 | 21.81 |
| | | | 13 | 22.00 | 21.69 |
| | | | 25 | 22.00 | 21.61 |
| | 50 | 0 | 22.00 | 21.73 | |
| | 16QAM | 1 | 0 | 22.50 | 22.03 |
| | | | 25 | 22.50 | 22.36 |
| | | | 49 | 22.00 | 21.99 |
| | | 25 | 0 | 21.00 | 20.92 |
| | | | 13 | 21.00 | 20.78 |
| | | | 25 | 21.00 | 20.73 |
| | | 50 | 0 | 21.00 | 20.78 |

Band 25

| LTE-FDD Band 25 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | | |
|-----------------|------------|---------------|-----------|----------------------|----------------------|-----------|-----------|-----------|-----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26047 | 26365 | 26683 | | |
| | | | | | 1850.7MHz | 1882.5MHz | 1914.3MHz | | |
| 1.4MHz | QPSK | 1 | 0 | 22.50 | 22.16 | 21.83 | 21.66 | | |
| | | | 2 | 22.50 | 22.28 | 21.84 | 21.77 | | |
| | | | 5 | 22.50 | 22.16 | 21.83 | 21.67 | | |
| | | 3 | 0 | 22.50 | 22.28 | 21.93 | 21.75 | | |
| | | | 2 | 22.50 | 22.33 | 21.98 | 21.79 | | |
| | | | 3 | 22.50 | 22.29 | 21.92 | 21.82 | | |
| | | 6 | 0 | 21.50 | 21.27 | 20.93 | 20.75 | | |
| | | 16QAM | 1 | 0 | 21.50 | 21.38 | 21.00 | 20.72 | |
| | | | | 2 | 21.50 | 21.49 | 21.11 | 20.84 | |
| | 5 | | | 21.50 | 21.40 | 20.99 | 20.74 | | |
| | 3 | | 0 | 21.50 | 21.29 | 20.86 | 20.88 | | |
| | | | 2 | 21.50 | 21.32 | 20.88 | 20.87 | | |
| | | | 3 | 21.50 | 21.32 | 20.90 | 20.86 | | |
| | 6 | | 0 | 20.50 | 20.32 | 19.94 | 19.69 | | |
| | | | | | | | 26055 | 26365 | 26675 |
| | | | | | | | 1851.5MHz | 1882.5MHz | 1913.5MHz |
| | 3MHz | QPSK | 1 | 0 | 22.50 | 22.38 | 21.98 | 21.94 | |
| | | | | 7 | 22.50 | 22.47 | 22.12 | 21.96 | |
| 14 | | | | 22.50 | 22.26 | 21.91 | 21.80 | | |
| 8 | | | 0 | 21.50 | 21.38 | 21.03 | 20.91 | | |
| | | | 4 | 21.50 | 21.41 | 21.04 | 20.86 | | |
| | | | 7 | 21.50 | 21.38 | 21.01 | 20.81 | | |
| 15 | | | 0 | 21.50 | 21.40 | 20.97 | 20.89 | | |
| 16QAM | | | 1 | 0 | 22.00 | 21.92 | 21.12 | 20.94 | |
| | | | | 7 | 22.50 | 22.08 | 21.27 | 21.01 | |
| | | 14 | | 22.00 | 21.89 | 21.10 | 20.85 | | |
| | | 8 | 0 | 21.00 | 20.56 | 20.00 | 20.03 | | |
| | | | 4 | 21.00 | 20.59 | 20.04 | 19.97 | | |
| | | | 7 | 21.00 | 20.56 | 20.01 | 19.90 | | |
| | | 15 | 0 | 20.50 | 20.44 | 19.98 | 19.97 | | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 26065 | 26365 | 26665 |
|-----------|------------|---------------|-----------|----------------------|-----------|-----------|-----------|
| | | | | | 1852.5MHz | 1882.5MHz | 1912.5MHz |
| 5MHz | QPSK | 1 | 0 | 22.50 | 22.19 | 21.81 | 21.80 |
| | | | 13 | 22.50 | 22.33 | 21.88 | 21.94 |
| | | | 24 | 22.50 | 22.14 | 21.76 | 21.63 |
| | | 12 | 0 | 21.50 | 21.26 | 20.80 | 20.98 |
| | | | 6 | 21.50 | 21.35 | 20.92 | 20.88 |
| | | | 13 | 21.50 | 21.25 | 20.90 | 20.64 |
| | 25 | 0 | 21.50 | 21.25 | 20.83 | 20.81 | |
| | 16QAM | 1 | 0 | 21.50 | 21.13 | 21.00 | 20.89 |
| | | | 13 | 21.50 | 21.20 | 21.15 | 20.96 |
| | | | 24 | 21.50 | 21.10 | 21.04 | 20.74 |
| | | 12 | 0 | 20.50 | 20.29 | 19.82 | 19.97 |
| | | | 6 | 20.50 | 20.34 | 19.98 | 19.91 |
| | | | 13 | 20.50 | 20.29 | 19.95 | 19.75 |
| | | 25 | 0 | 20.50 | 20.30 | 19.86 | 19.93 |

| LTE-FDD Band 25 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|-----------|----------------------|----------------------|-----------|-----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26090 | 26365 | 26640 | |
| | | | | | 1855.0MHz | 1882.5MHz | 1910.0MHz | |
| 10MHz | QPSK | 1 | 0 | 22.50 | 22.21 | 21.92 | 21.80 | |
| | | | 25 | 22.50 | 22.43 | 22.06 | 22.11 | |
| | | | 49 | 22.50 | 22.12 | 21.76 | 21.73 | |
| | | 25 | 0 | 21.50 | 21.39 | 20.81 | 20.87 | |
| | | | 13 | 21.50 | 21.36 | 20.96 | 20.90 | |
| | | | 25 | 21.50 | 21.17 | 21.00 | 20.66 | |
| | 50 | 0 | 21.50 | 21.32 | 20.92 | 20.73 | | |
| | 16QAM | 1 | 0 | 22.00 | 21.84 | 21.03 | 20.78 | |
| | | | 25 | 22.50 | 22.02 | 21.25 | 21.06 | |
| | | | 49 | 22.00 | 21.75 | 20.99 | 20.73 | |
| | | 25 | 0 | 21.00 | 20.51 | 19.85 | 19.96 | |
| | | | 13 | 20.50 | 20.47 | 20.03 | 20.03 | |
| | | | 25 | 20.50 | 20.26 | 20.05 | 19.79 | |
| | | 50 | 0 | 20.50 | 20.38 | 19.99 | 19.83 | |
| | | 15MHz | QPSK | 1 | 0 | 22.50 | 22.08 | 21.83 |
| 38 | | | | | 22.50 | 22.21 | 21.91 | 21.84 |
| 74 | 22.00 | | | | 21.94 | 21.63 | 21.54 | |
| 36 | 0 | | | 21.50 | 21.41 | 20.97 | 20.80 | |
| | 18 | | | 21.50 | 21.30 | 21.03 | 20.91 | |
| | 39 | | | 21.50 | 21.08 | 20.88 | 20.68 | |
| 75 | 0 | | 21.50 | 21.27 | 20.91 | 20.71 | | |
| 16QAM | 1 | | 0 | 22.00 | 21.68 | 20.92 | 20.98 | |
| | | | 38 | 22.00 | 21.85 | 21.09 | 21.16 | |
| | | | 74 | 22.00 | 21.57 | 20.88 | 21.03 | |
| | 36 | | 0 | 20.50 | 20.42 | 19.90 | 19.73 | |
| | | | 18 | 20.50 | 20.36 | 19.98 | 19.88 | |
| | | | 39 | 20.50 | 20.09 | 19.93 | 19.70 | |
| | 75 | | 0 | 20.50 | 20.28 | 19.93 | 19.70 | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 26140 | 26365 | 26590 |
|-----------|------------|---------------|-----------|----------------------|--------------|-----------|-----------|
| | | | | | 1860.0MHz | 1882.5MHz | 1905.0MHz |
| 20MHz | QPSK | 1 | 0 | 22.00 | 21.99 | 21.72 | 21.53 |
| | | | 50 | 22.50 | 22.33 | 22.10 | 21.92 |
| | | | 99 | 22.00 | 21.72 | 21.62 | 21.41 |
| | | 50 | 0 | 22.00 | 21.58 | 20.78 | 20.73 |
| | | | 25 | 21.50 | 21.21 | 20.97 | 20.78 |
| | | | 50 | 21.00 | 20.95 | 20.87 | 20.63 |
| | 100 | 0 | 21.50 | 21.33 | 20.80 | 20.71 | |
| | 16QAM | 1 | 0 | 21.50 | 21.32 | 20.86 | 21.10 |
| | | | 50 | 22.00 | 21.66 | 21.27 | 21.37 |
| | | | 99 | 21.50 | 21.01 | 20.87 | 21.04 |
| | | 50 | 0 | 21.00 | 20.56 | 19.81 | 19.79 |
| | | | 25 | 20.50 | 20.32 | 20.01 | 19.81 |
| | | | 50 | 20.00 | 19.99 | 19.99 | 19.67 |
| | | 100 | 0 | 20.50 | 20.41 | 19.87 | 19.79 |

Band 26

| LTE-FDD Band 26a | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|-------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26697 | 26740 | 26783 |
| | | | | | | | |
| | | | | | | | |
| 1.4MHz | QPSK | 1 | 0 | 23.00 | 22.18 | 22.76 | 22.81 |
| | | | 2 | 23.00 | 22.25 | 22.95 | 22.88 |
| | | | 5 | 23.00 | 22.18 | 22.83 | 22.73 |
| | | 3 | 0 | 23.00 | 22.30 | 22.92 | 22.89 |
| | | | 2 | 23.00 | 22.34 | 22.98 | 22.90 |
| | | | 3 | 23.00 | 22.30 | 22.94 | 22.89 |
| | 6 | 0 | 22.00 | 21.28 | 21.91 | 21.85 | |
| | 16QAM | 1 | 0 | 22.00 | 21.22 | 21.86 | 21.95 |
| | | | 2 | 22.50 | 21.33 | 22.01 | 21.90 |
| | | | 5 | 22.00 | 21.41 | 21.99 | 21.81 |
| | | 3 | 0 | 22.00 | 21.52 | 21.94 | 21.65 |
| | | | 2 | 22.50 | 21.42 | 22.19 | 21.68 |
| | | | 3 | 22.50 | 21.32 | 22.03 | 21.48 |
| | | 6 | 0 | 21.00 | 20.88 | 20.96 | 20.44 |
| LTE-FDD Band 26b | | | | Conducted Power(dBm) | | | |
| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 26797 | 26915 | 27033 |
| | | | | | | | |
| | | | | | | | |

| LTE-FDD Band 26a | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26705 | 26740 | 26775 | |
| | | | | | 815.5MHz | 819.0MHz | 822.5MHz | |
| 3MHz | QPSK | 1 | 0 | 22.50 | 22.34 | 22.40 | 22.47 | |
| | | | 7 | 23.00 | 22.52 | 22.51 | 22.54 | |
| | | | 14 | 22.50 | 22.35 | 22.40 | 22.39 | |
| | | 8 | 0 | 21.50 | 21.32 | 21.38 | 21.47 | |
| | | | 4 | 21.50 | 21.38 | 21.43 | 21.47 | |
| | | | 7 | 21.50 | 21.37 | 21.41 | 21.40 | |
| | 16QAM | 1 | 0 | 21.50 | 21.32 | 21.40 | 21.43 | |
| | | | 7 | 22.50 | 21.67 | 21.56 | 22.15 | |
| | | | 14 | 22.00 | 21.89 | 21.61 | 21.46 | |
| | | 8 | 0 | 21.00 | 20.45 | 20.56 | 20.48 | |
| | | | 4 | 21.00 | 20.41 | 20.54 | 20.66 | |
| | | | 7 | 21.00 | 20.54 | 20.42 | 20.52 | |
| | | | 15 | 0 | 21.00 | 20.45 | 20.53 | 20.42 |

| LTE-FDD Band 26b | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26805 | 26915 | 27025 | |
| | | | | | 825.5MHz | 836.5MHz | 847.5MHz | |
| 3MHz | QPSK | 1 | 0 | 22.50 | 22.39 | 22.43 | 22.29 | |
| | | | 7 | 22.50 | 22.49 | 22.47 | 22.41 | |
| | | | 14 | 22.50 | 22.49 | 22.27 | 22.19 | |
| | | 8 | 0 | 21.50 | 21.43 | 21.43 | 21.34 | |
| | | | 4 | 21.50 | 21.47 | 21.40 | 21.33 | |
| | | | 7 | 21.50 | 21.41 | 21.35 | 21.25 | |
| | 16QAM | 1 | 0 | 21.50 | 21.44 | 21.41 | 21.30 | |
| | | | 7 | 22.50 | 21.66 | 21.53 | 21.43 | |
| | | | 14 | 22.00 | 21.62 | 21.38 | 21.74 | |
| | | 8 | 0 | 21.00 | 20.61 | 20.44 | 20.49 | |
| | | | 4 | 21.00 | 20.59 | 20.62 | 20.34 | |
| | | | 7 | 20.50 | 20.48 | 20.47 | 20.48 | |
| | | | 15 | 0 | 21.00 | 20.55 | 20.42 | 20.38 |

| LTE-FDD Band 26a | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26715 | 26740 | 26765 | |
| | | | | | 816.5MHz | 819.0MHz | 821.5MHz | |
| 5MHz | QPSK | 1 | 0 | 22.50 | 22.06 | 22.09 | 22.16 | |
| | | | 13 | 22.50 | 22.24 | 22.29 | 22.36 | |
| | | | 24 | 22.50 | 22.19 | 22.15 | 22.19 | |
| | | 12 | 0 | 21.50 | 21.19 | 21.22 | 21.31 | |
| | | | 6 | 21.50 | 21.28 | 21.34 | 21.39 | |
| | | | 13 | 21.50 | 21.20 | 21.30 | 21.31 | |
| | 16QAM | 25 | 0 | 21.50 | 21.19 | 21.22 | 21.31 | |
| | | | 0 | 21.50 | 21.24 | 20.99 | 21.48 | |
| | | | 13 | 22.00 | 21.53 | 21.47 | 21.22 | |
| | | 12 | 24 | 21.50 | 21.06 | 21.47 | 21.34 | |
| | | | 0 | 20.50 | 20.19 | 20.22 | 20.36 | |
| | | | 6 | 20.50 | 20.34 | 20.35 | 20.43 | |
| | | | 13 | 20.50 | 20.26 | 20.32 | 20.30 | |
| | | | 25 | 0 | 20.50 | 20.26 | 20.33 | 20.33 |

| LTE-FDD Band 26b | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26815 | 26915 | 27015 |
| | | | | | 826.5MHz | 836.5MHz | 846.5MHz |
| 5MHz | QPSK | 1 | 0 | 22.50 | 22.20 | 22.22 | 22.09 |
| | | | 13 | 22.50 | 22.33 | 22.28 | 22.26 |
| | | | 24 | 22.50 | 22.25 | 22.15 | 22.01 |
| | | 12 | 0 | 21.50 | 21.26 | 21.33 | 21.25 |
| | | | 6 | 21.50 | 21.34 | 21.34 | 21.31 |
| | | | 13 | 21.50 | 21.37 | 21.23 | 21.07 |
| | 25 | 0 | 21.50 | 21.33 | 21.28 | 21.15 | |
| | 16QAM | 1 | 0 | 22.00 | 21.09 | 21.51 | 21.23 |
| | | | 13 | 22.00 | 21.46 | 21.18 | 21.55 |
| | | | 24 | 22.00 | 21.51 | 21.26 | 20.91 |
| | | 12 | 0 | 20.50 | 20.26 | 20.38 | 20.27 |
| | | | 6 | 20.50 | 20.37 | 20.35 | 20.38 |
| | | | 13 | 20.50 | 20.42 | 20.21 | 20.12 |
| | | 25 | 0 | 20.50 | 20.36 | 20.34 | 20.27 |

| LTE-FDD Band 26a | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|--|
| Bandwidth | Modulation | RB allocation | RB offset | | 26740 | 819.0MHz | |
| | | | | | | | |
| 10MHz | QPSK | 1 | 0 | 22.50 | 22.11 | | |
| | | | 25 | 22.50 | 22.39 | | |
| | | | 49 | 22.50 | 22.21 | | |
| | | 25 | 0 | 21.50 | 21.27 | | |
| | | | 13 | 21.50 | 21.36 | | |
| | | | 25 | 21.50 | 21.31 | | |
| | 50 | 0 | 21.50 | 21.28 | | | |
| | 16QAM | 1 | 0 | 22.00 | 21.75 | | |
| | | | 25 | 22.00 | 21.50 | | |
| | | | 49 | 21.50 | 21.40 | | |
| | | 25 | 0 | 20.50 | 20.37 | | |
| | | | 13 | 20.50 | 20.48 | | |
| | | | 25 | 20.50 | 20.39 | | |
| | | 50 | 0 | 20.50 | 20.36 | | |

| LTE-FDD Band 26b | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26840 | 26915 | 26990 | |
| | | | | | 829.0MHz | 836.5MHz | 844.0MHz | |
| 10MHz | QPSK | 1 | 0 | 22.50 | 22.20 | 22.30 | 22.16 | |
| | | | 25 | 22.50 | 22.49 | 22.45 | 22.40 | |
| | | | 49 | 22.50 | 22.23 | 22.13 | 22.11 | |
| | | 25 | 0 | 21.50 | 21.32 | 21.46 | 21.24 | |
| | | | 13 | 21.50 | 21.40 | 21.41 | 21.28 | |
| | | | 25 | 21.50 | 21.37 | 21.31 | 21.12 | |
| | | 50 | 0 | 21.50 | 21.37 | 21.39 | 21.11 | |
| | | 16QAM | 1 | 0 | 22.00 | 21.83 | 21.47 | 21.23 |
| | | | | 25 | 22.50 | 22.09 | 22.05 | 21.41 |
| | 49 | | | 22.00 | 21.86 | 21.18 | 21.17 | |
| | 25 | | 0 | 21.00 | 20.44 | 20.56 | 20.33 | |
| | | | 13 | 21.00 | 20.50 | 20.46 | 20.44 | |
| | | | 25 | 21.00 | 20.50 | 20.47 | 20.23 | |
| | 50 | | 0 | 20.50 | 20.42 | 20.41 | 20.22 | |

| LTE-FDD Band 26c | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | |
|------------------|------------|---------------|-----------|----------------------|----------------------|--------------|----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 26765 | 26865 | 26965 |
| | | | | | 821.5MHz | 831.5MHz | 841.5MHz |
| 15MHz | QPSK | 1 | 0 | 22.50 | 21.99 | 22.12 | 22.07 |
| | | | 38 | 22.50 | 22.23 | 22.36 | 22.16 |
| | | | 74 | 22.50 | 22.11 | 22.01 | 21.94 |
| | | 36 | 0 | 21.50 | 21.25 | 21.25 | 21.28 |
| | | | 18 | 21.50 | 21.29 | 21.34 | 21.24 |
| | | | 39 | 21.50 | 21.35 | 21.21 | 21.12 |
| | 75 | 0 | 21.50 | 21.26 | 21.24 | 21.19 | |
| | 16QAM | 1 | 0 | 22.00 | 21.64 | 21.36 | 21.56 |
| | | | 38 | 22.00 | 21.90 | 21.48 | 21.53 |
| | | | 74 | 22.00 | 21.67 | 21.23 | 21.37 |
| | | 36 | 0 | 20.50 | 20.23 | 20.33 | 20.26 |
| | | | 18 | 20.50 | 20.35 | 20.39 | 20.20 |
| | | | 39 | 20.50 | 20.36 | 20.27 | 20.15 |
| | | 75 | 0 | 20.50 | 20.30 | 20.27 | 20.22 |

Band 41

| LTE-TDD Band 41 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|------------|----------------------|----------------------|----------------------|-----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 39675 | 40620 | 41565 | |
| | | | | | 2498.5MHz | 2593.0MHz | 2687.5MHz | |
| 5MHz | QPSK | 1 | 0 | 24.00 | 22.69 | 23.71 | 23.68 | |
| | | | 13 | 24.00 | 22.64 | 23.85 | 23.62 | |
| | | | 24 | 24.00 | 22.67 | 23.78 | 23.67 | |
| | | 12 | 0 | 23.00 | 21.60 | 22.74 | 22.67 | |
| | | | 6 | 23.00 | 21.58 | 22.81 | 22.57 | |
| | | | 13 | 23.00 | 21.62 | 22.73 | 22.63 | |
| | 25 | 0 | 23.00 | 21.59 | 22.80 | 22.73 | | |
| | 16QAM | 1 | 0 | 23.00 | 21.67 | 22.94 | 22.86 | |
| | | | 13 | 23.00 | 21.89 | 22.83 | 22.66 | |
| | | | 24 | 23.00 | 21.59 | 22.61 | 22.80 | |
| | | 12 | 0 | 22.00 | 20.56 | 21.77 | 21.60 | |
| | | | 6 | 22.00 | 20.56 | 21.69 | 21.55 | |
| | | | 13 | 22.00 | 20.58 | 21.82 | 21.58 | |
| | | 25 | 0 | 22.00 | 20.58 | 21.78 | 21.61 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 39700 | 40620 |
| 2501.0MHz | | | | | | 2593.0MHz | 2685.0MHz | |
| 10MHz | QPSK | 1 | 0 | 24.00 | 22.70 | 23.72 | 23.81 | |
| | | | 25 | 24.00 | 22.81 | 23.87 | 23.77 | |
| | | | 49 | 24.00 | 22.76 | 23.86 | 23.61 | |
| | | 25 | 0 | 23.00 | 21.59 | 22.76 | 22.78 | |
| | | | 13 | 23.00 | 21.64 | 22.82 | 22.67 | |
| | | | 25 | 23.00 | 21.70 | 22.91 | 22.62 | |
| | 50 | 0 | 23.00 | 21.63 | 22.87 | 22.74 | | |
| | 16QAM | 1 | 0 | 23.00 | 21.51 | 22.54 | 22.67 | |
| | | | 25 | 23.00 | 21.73 | 22.74 | 22.42 | |
| | | | 49 | 23.00 | 21.80 | 22.67 | 22.50 | |
| | | 25 | 0 | 22.00 | 20.57 | 21.82 | 21.80 | |
| | | | 13 | 22.00 | 20.63 | 21.83 | 21.69 | |
| | | | 25 | 22.00 | 20.75 | 21.90 | 21.65 | |
| | | 50 | 0 | 22.00 | 20.65 | 21.80 | 21.68 | |

| LTE-TDD Band 41 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|------------|----------------------|----------------------|----------------------|--------------|-----------|
| Bandwidth | Modulation | RB allocation | RB offset | | 39725 | 40620 | 41515 | |
| | | | | | 2503.5MHz | 2593.0MHz | 2682.5MHz | |
| 15MHz | QPSK | 1 | 0 | 24.00 | 22.76 | 23.69 | 23.88 | |
| | | | 38 | 24.00 | 22.74 | 23.86 | 23.66 | |
| | | | 74 | 24.00 | 22.68 | 23.85 | 23.59 | |
| | | 36 | 0 | 23.00 | 21.59 | 22.74 | 22.77 | |
| | | | 18 | 23.00 | 21.58 | 22.83 | 22.65 | |
| | | | 39 | 23.00 | 21.64 | 22.86 | 22.66 | |
| | 75 | 0 | 23.00 | 21.60 | 22.85 | 22.71 | | |
| | 16QAM | 1 | 0 | 23.50 | 21.80 | 22.54 | 23.03 | |
| | | | 38 | 23.00 | 21.76 | 22.74 | 22.98 | |
| | | | 74 | 23.00 | 21.75 | 22.74 | 22.84 | |
| | | 36 | 0 | 22.00 | 20.57 | 21.77 | 21.75 | |
| | | | 18 | 22.00 | 20.61 | 21.80 | 21.69 | |
| | | | 39 | 22.00 | 20.63 | 21.86 | 21.66 | |
| | | 75 | 0 | 22.00 | 20.60 | 21.85 | 21.71 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 39750 | 40620 |
| 2506.0MHz | | | | | | | 2593.0MHz | 2680.0MHz |
| 20MHz | QPSK | 1 | 0 | 24.00 | 22.61 | 23.62 | 23.78 | |
| | | | 50 | 24.00 | 22.72 | 23.90 | 23.71 | |
| | | | 99 | 24.00 | 22.63 | 23.93 | 23.36 | |
| | | 50 | 0 | 23.00 | 21.58 | 22.79 | 22.95 | |
| | | | 25 | 23.00 | 21.69 | 22.91 | 22.93 | |
| | | | 50 | 23.00 | 21.71 | 22.94 | 22.71 | |
| | 100 | 0 | 23.00 | 21.62 | 22.86 | 22.77 | | |
| | 16QAM | 1 | 0 | 23.00 | 21.62 | 22.27 | 22.97 | |
| | | | 50 | 23.00 | 21.60 | 22.89 | 22.89 | |
| | | | 99 | 23.00 | 21.82 | 22.81 | 22.16 | |
| | | 50 | 0 | 22.00 | 20.55 | 21.75 | 21.85 | |
| | | | 25 | 22.00 | 20.65 | 21.94 | 21.80 | |
| | | | 50 | 22.00 | 20.66 | 21.85 | 21.65 | |
| | | 100 | 0 | 22.00 | 20.61 | 21.84 | 21.73 | |

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 | 24.00 | 23.64 | 23.68 | 23.47 |
| | | | 2 | 24.00 | 23.73 | 23.79 | 23.57 |
| | | | 5 | 24.00 | 23.61 | 23.68 | 23.46 |
| | | 3 | 0 | 24.00 | 23.75 | 23.76 | 23.53 |
| | | | 2 | 24.00 | 23.77 | 23.79 | 23.56 |
| | | | 3 | 24.00 | 23.76 | 23.78 | 23.52 |
| | 6 | 0 | 23.00 | 22.63 | 22.63 | 22.50 | |
| | 16QAM | 1 | 0 | 23.00 | 22.55 | 22.60 | 22.35 |
| | | | 2 | 23.00 | 22.69 | 22.73 | 22.45 |
| | | | 5 | 23.00 | 22.58 | 22.67 | 22.36 |
| | | 3 | 0 | 23.00 | 22.92 | 22.79 | 22.62 |
| | | | 2 | 23.00 | 22.92 | 22.79 | 22.65 |
| | | | 3 | 23.00 | 22.95 | 22.78 | 22.62 |
| | | 6 | 0 | 22.00 | 21.70 | 21.61 | 21.48 |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 131987 | 132322 | 132657 | |
|-----------|------------|---------------|------------|----------------------|-----------|----------------------|-----------|-----------|
| | | | | | 1711.5MHz | 1745.0MHz | 1778.5MHz | |
| 3MHz | QPSK | 1 | 0 | 24.00 | 23.78 | 23.78 | 23.59 | |
| | | | 7 | 24.00 | 23.94 | 23.90 | 23.77 | |
| | | | 14 | 24.00 | 23.76 | 23.74 | 23.63 | |
| | | 8 | 0 | 23.00 | 22.70 | 22.79 | 22.54 | |
| | | | 4 | 23.00 | 22.77 | 22.79 | 22.59 | |
| | | | 7 | 23.00 | 22.79 | 22.73 | 22.55 | |
| | 15 | 0 | 23.00 | 22.75 | 22.74 | 22.50 | | |
| | 16QAM | 1 | 0 | 23.50 | 23.30 | 22.95 | 22.51 | |
| | | | 7 | 23.50 | 23.42 | 23.02 | 22.67 | |
| | | | 14 | 23.50 | 23.29 | 22.93 | 22.48 | |
| | | 8 | 0 | 22.00 | 21.94 | 21.75 | 21.58 | |
| | | | 4 | 22.00 | 21.99 | 21.79 | 21.65 | |
| | | | 7 | 22.00 | 21.98 | 21.75 | 21.58 | |
| | | 15 | 0 | 22.00 | 21.86 | 21.81 | 21.56 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 131997 | 132322 |
| 1712.5MHz | | | | | | | 1745.0MHz | 1777.5MHz |
| 5MHz | QPSK | 1 | 0 | 24.00 | 23.63 | 23.06 | 22.87 | |
| | | | 13 | 24.00 | 23.77 | 23.40 | 23.00 | |
| | | | 24 | 24.00 | 23.68 | 23.08 | 22.85 | |
| | | 12 | 0 | 23.00 | 22.58 | 22.20 | 22.24 | |
| | | | 6 | 23.00 | 22.72 | 22.23 | 22.48 | |
| | | | 13 | 23.00 | 22.70 | 22.13 | 22.42 | |
| | 25 | 0 | 23.00 | 22.69 | 22.18 | 22.39 | | |
| | 16QAM | 1 | 0 | 22.50 | 22.46 | 22.38 | 22.39 | |
| | | | 13 | 22.50 | 22.45 | 22.47 | 22.47 | |
| | | | 24 | 22.50 | 22.23 | 22.37 | 22.31 | |
| | | 12 | 0 | 21.50 | 21.34 | 21.29 | 21.39 | |
| | | | 6 | 22.00 | 21.54 | 21.31 | 21.44 | |
| | | | 13 | 22.00 | 21.55 | 21.20 | 21.44 | |
| | | 25 | 0 | 22.00 | 21.66 | 21.24 | 21.40 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 132022 | 132322 |
| 1715.0MHz | | | | | | | 1745.0MHz | 1775.0MHz |
| 10MHz | QPSK | 1 | 0 | 24.00 | 23.66 | 23.12 | 23.02 | |
| | | | 25 | 24.00 | 23.94 | 23.30 | 23.24 | |
| | | | 49 | 24.00 | 23.58 | 23.03 | 22.94 | |
| | | 25 | 0 | 22.50 | 22.47 | 22.30 | 21.93 | |
| | | | 13 | 22.50 | 22.37 | 22.26 | 22.01 | |
| | | | 25 | 22.50 | 22.36 | 22.15 | 22.04 | |
| | 50 | 0 | 22.50 | 22.31 | 22.23 | 21.99 | | |
| | 16QAM | 1 | 0 | 23.00 | 22.70 | 22.33 | 21.92 | |
| | | | 25 | 23.00 | 22.95 | 22.52 | 22.10 | |
| | | | 49 | 23.00 | 22.77 | 22.23 | 21.90 | |
| | | 25 | 0 | 21.50 | 21.30 | 21.38 | 21.01 | |
| | | | 13 | 21.50 | 21.40 | 21.34 | 21.12 | |
| | | | 25 | 21.50 | 21.47 | 21.27 | 21.25 | |
| | | 50 | 0 | 21.50 | 21.34 | 21.33 | 21.22 | |

| 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 | 22.98 | 23.01 | 22.88 | |
| | | | 38 | 23.50 | 23.19 | 23.10 | 23.02 | |
| | | | 74 | 23.00 | 22.98 | 22.86 | 22.76 | |
| | | 36 | 0 | 22.50 | 22.12 | 22.21 | 22.00 | |
| | | | 18 | 22.50 | 22.25 | 22.21 | 22.11 | |
| | | | 39 | 22.50 | 22.30 | 22.10 | 22.10 | |
| | 16QAM | 1 | 0 | 23.00 | 22.60 | 22.25 | 22.07 | |
| | | | 38 | 23.00 | 22.83 | 22.34 | 22.20 | |
| | | | 74 | 23.00 | 22.62 | 22.06 | 22.04 | |
| | | 36 | 0 | 21.50 | 21.18 | 21.25 | 20.95 | |
| | | | 18 | 21.50 | 21.29 | 21.22 | 21.00 | |
| | | | 39 | 21.50 | 21.33 | 21.11 | 21.00 | |
| | | 75 | 0 | 21.50 | 21.26 | 21.23 | 20.99 | |
| | | | | | | 132072 | 132322 | 132572 |
| | | | | | | 1720.0MHz | 1745.0MHz | 1770.0MHz |
| 20MHz | QPSK | 1 | 0 | 23.00 | 22.86 | 22.88 | 22.66 | |
| | | | 50 | 23.50 | 23.32 | 23.28 | 23.12 | |
| | | | 99 | 23.00 | 22.85 | 22.76 | 22.53 | |
| | | 50 | 0 | 22.50 | 22.06 | 22.32 | 21.87 | |
| | | | 25 | 22.50 | 22.20 | 22.19 | 21.98 | |
| | | | 50 | 22.50 | 22.25 | 22.04 | 22.02 | |
| | 16QAM | 100 | 0 | 22.50 | 22.13 | 22.21 | 21.96 | |
| | | | 1 | 0 | 22.50 | 22.18 | 22.16 | 22.16 |
| | | | | 50 | 23.00 | 22.64 | 22.50 | 22.50 |
| | | 99 | | 22.50 | 22.23 | 21.99 | 22.09 | |
| | | 50 | 0 | 21.50 | 21.10 | 21.39 | 20.89 | |
| | | | 25 | 21.50 | 21.25 | 21.25 | 20.92 | |
| | | | 50 | 21.50 | 21.32 | 21.10 | 20.99 | |
| | | 100 | 0 | 21.50 | 21.16 | 21.27 | 20.98 | |

Band 71

| LTE-FDD Band 71 | | | | Maximum Tune-up(dBm) | Conducted Power(dBm) | | | |
|-----------------|------------|---------------|-----------|----------------------|----------------------|----------|----------|-------|
| Bandwidth | Modulation | RB allocation | RB offset | | 133147 | 133297 | 133447 | |
| | | | | | 665.5MHz | 680.5MHz | 695.5MHz | |
| 5MHz | QPSK | 1 | 0 | 22.50 | 21.89 | 22.17 | 22.44 | |
| | | | 13 | 23.00 | 22.10 | 22.30 | 22.64 | |
| | | | 24 | 22.50 | 22.02 | 22.18 | 22.49 | |
| | | 12 | 0 | 22.00 | 21.04 | 21.34 | 21.50 | |
| | | | 6 | 22.00 | 21.13 | 21.30 | 21.57 | |
| | | | 13 | 21.50 | 20.90 | 21.09 | 21.38 | |
| | 16QAM | 25 | 0 | 21.50 | 20.96 | 21.24 | 21.46 | |
| | | | 1 | 0 | 22.00 | 20.97 | 21.20 | 21.52 |
| | | | | 13 | 22.00 | 21.23 | 21.33 | 21.73 |
| | | 24 | | 22.00 | 21.14 | 21.21 | 21.61 | |
| | | 12 | 0 | 21.00 | 20.06 | 20.35 | 20.53 | |
| | | | 6 | 21.00 | 20.16 | 20.29 | 20.64 | |
| | | | 13 | 20.50 | 19.92 | 20.09 | 20.47 | |
| | | 25 | 0 | 21.00 | 19.98 | 20.30 | 20.54 | |

| Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 133172 | 133297 | 133422 | |
|-----------|------------|---------------|------------|----------------------|--------------|----------------------|----------|----------|
| | | | | | 668.0MHz | 680.5MHz | 693.0MHz | |
| 10MHz | QPSK | 1 | 0 | 22.50 | 21.83 | 22.19 | 22.20 | |
| | | | 25 | 23.00 | 22.15 | 22.49 | 22.57 | |
| | | | 49 | 22.50 | 21.99 | 22.32 | 22.43 | |
| | | 25 | 0 | 22.00 | 21.31 | 21.57 | 21.32 | |
| | | | 13 | 22.00 | 21.11 | 21.34 | 21.57 | |
| | | | 25 | 21.50 | 21.27 | 21.23 | 21.42 | |
| | 50 | 0 | 21.50 | 21.30 | 21.42 | 21.33 | | |
| | 16QAM | 1 | 0 | 21.50 | 20.99 | 21.06 | 21.37 | |
| | | | 25 | 22.00 | 21.31 | 21.31 | 21.74 | |
| | | | 49 | 22.00 | 21.17 | 21.16 | 21.66 | |
| | | 25 | 0 | 21.00 | 20.35 | 20.66 | 20.35 | |
| | | | 13 | 21.00 | 20.15 | 20.40 | 20.60 | |
| | | | 25 | 20.50 | 20.28 | 20.30 | 20.48 | |
| | | 50 | 0 | 20.50 | 20.30 | 20.42 | 20.38 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 133197 | 133297 |
| | | | | | | 670.5MHz | 680.5MHz | 690.5MHz |
| 15MHz | QPSK | 1 | 0 | 22.50 | 21.72 | 21.97 | 22.04 | |
| | | | 38 | 22.50 | 21.94 | 22.31 | 22.00 | |
| | | | 74 | 22.50 | 22.03 | 22.21 | 21.95 | |
| | | 36 | 0 | 21.50 | 21.18 | 21.33 | 20.74 | |
| | | | 18 | 21.50 | 21.08 | 21.31 | 21.31 | |
| | | | 39 | 22.00 | 21.31 | 21.18 | 21.55 | |
| | 75 | 0 | 21.50 | 21.21 | 21.20 | 21.34 | | |
| | 16QAM | 1 | 0 | 21.50 | 20.90 | 20.76 | 21.21 | |
| | | | 38 | 21.50 | 21.13 | 20.94 | 21.29 | |
| | | | 74 | 21.50 | 21.19 | 20.63 | 21.21 | |
| | | 36 | 0 | 20.50 | 20.09 | 20.21 | 19.85 | |
| | | | 18 | 20.50 | 19.98 | 20.26 | 20.42 | |
| | | | 39 | 21.00 | 20.28 | 20.01 | 20.59 | |
| | | 75 | 0 | 20.50 | 20.21 | 20.19 | 20.37 | |
| | | Bandwidth | Modulation | RB allocation | RB offset | Maximum Tune-up(dBm) | 133222 | 133322 |
| | | | | | | 673.0MHz | 683.0MHz | 688.0MHz |
| 20MHz | QPSK | 1 | 0 | 22.00 | 21.68 | 21.48 | 21.53 | |
| | | | 50 | 22.50 | 22.16 | 21.81 | 21.96 | |
| | | | 99 | 22.00 | 21.75 | 21.65 | 21.87 | |
| | | 50 | 0 | 21.50 | 20.72 | 21.30 | 20.92 | |
| | | | 25 | 21.00 | 20.97 | 20.86 | 20.89 | |
| | | | 50 | 21.50 | 20.96 | 21.18 | 21.14 | |
| | 100 | 0 | 21.50 | 20.85 | 21.13 | 20.99 | | |
| | 16QAM | 1 | 0 | 21.00 | 20.39 | 20.37 | 20.56 | |
| | | | 50 | 21.50 | 20.87 | 20.91 | 21.01 | |
| | | | 99 | 21.00 | 20.71 | 20.78 | 20.93 | |
| | | 50 | 0 | 20.50 | 19.60 | 20.24 | 19.92 | |
| | | | 25 | 20.00 | 19.86 | 19.95 | 19.95 | |
| | | | 50 | 20.50 | 19.88 | 20.30 | 20.17 | |
| | | 100 | 0 | 20.50 | 19.81 | 20.20 | 20.02 | |

8.4 Wi-Fi 2.4G

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Maximum Tune-up(dBm) | SAR Test Require. |
|---------------------|---------------|---------|-------------|---------------------|----------------------|-------------------|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 20.23 | 20.50 | No |
| | | 6 | 2437 | 20.10 | 20.50 | No |
| | | 11 | 2462 | 20.31 | 20.50 | Yes |
| | 802.11g | 1 | 2412 | 23.49 | 23.50 | No |
| | | 6 | 2437 | 23.09 | 23.50 | No |
| | | 11 | 2462 | 23.28 | 23.50 | No |
| | 802.11n(HT20) | 1 | 2412 | 22.89 | 23.00 | No |
| | | 6 | 2437 | 22.81 | 23.00 | No |
| | | 11 | 2462 | 23.07 | 23.50 | No |
| | 802.11n(HT40) | 3 | 2422 | 22.57 | 23.00 | No |
| | | 6 | 2437 | 22.54 | 23.00 | No |
| | | 9 | 2452 | 22.64 | 23.00 | No |

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

5G

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Maximum Tune-up(dBm) | SAR Test Require. |
|--------------------------|-----------------|---------|-------------|---------------------|----------------------|-------------------|
| U-NII-1 (5.150~5.250) | 802.11a | 36 | 5180 | 16.31 | 16.50 | Yes |
| | | 40 | 5200 | 14.30 | 14.50 | No |
| | | 48 | 5240 | 14.32 | 14.50 | No |
| | 802.11n(HT20) | 36 | 5180 | 13.97 | 14.00 | No |
| | | 40 | 5200 | 14.17 | 14.50 | No |
| | | 48 | 5240 | 14.23 | 14.50 | No |
| | 802.11ac(VHT20) | 36 | 5180 | 14.10 | 14.50 | No |
| | | 40 | 5200 | 14.12 | 14.50 | No |
| | | 48 | 5240 | 14.11 | 14.50 | No |
| | 802.11n(HT40) | 38 | 5190 | 14.30 | 14.50 | No |
| | | 46 | 5230 | 14.40 | 14.50 | No |
| | 802.11ac(VHT40) | 38 | 5190 | 14.22 | 14.50 | No |
| | | 46 | 5230 | 14.15 | 14.50 | No |
| | 802.11ac(VHT80) | 42 | 5210 | 14.27 | 14.50 | No |

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Maximum Tune-up(dBm) | SAR Test Require. |
|---------------------------|-----------------|---------|-------------|---------------------|----------------------|-------------------|
| U-NII-2a (5.250~5.350) | 802.11a | 52 | 5260 | 14.15 | 14.50 | No |
| | | 60 | 5300 | 14.34 | 14.50 | No |
| | | 64 | 5320 | 14.46 | 14.50 | Yes |
| | 802.11n(HT20) | 52 | 5260 | 14.00 | 14.00 | No |
| | | 60 | 5300 | 14.21 | 14.50 | No |
| | | 64 | 5320 | 14.35 | 14.50 | No |
| | 802.11ac(VHT20) | 52 | 5260 | 14.27 | 14.50 | No |
| | | 60 | 5300 | 14.28 | 14.50 | No |
| | | 64 | 5320 | 14.25 | 14.50 | No |
| | 802.11n(HT40) | 54 | 5270 | 14.21 | 14.50 | No |
| | | 62 | 5310 | 14.38 | 14.50 | No |
| | 802.11ac(VHT40) | 54 | 5270 | 14.16 | 14.50 | No |
| | | 62 | 5310 | 14.18 | 14.50 | No |
| | 802.11ac(VHT80) | 58 | 5290 | 14.15 | 14.50 | No |

| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Maximum Tune-up(dBm) | SAR Test Require. |
|---------------------------|-----------------|---------|-------------|---------------------|----------------------|-------------------|
| U-NII-2c (5.470-5.725) | 802.11a | 100 | 5500 | 14.36 | 14.50 | No |
| | | 116 | 5580 | 14.26 | 14.50 | No |
| | | 140 | 5700 | 15.01 | 15.50 | Yes |
| | 802.11n(HT20) | 100 | 5500 | 14.21 | 14.50 | No |
| | | 116 | 5580 | 14.04 | 14.50 | No |
| | | 140 | 5700 | 14.91 | 15.00 | No |
| | 802.11ac(VHT20) | 100 | 5500 | 14.68 | 15.00 | No |
| | | 116 | 5580 | 14.55 | 15.00 | No |
| | | 140 | 5700 | 14.39 | 14.50 | No |
| | 802.11n(HT40) | 102 | 5510 | 14.13 | 14.50 | No |
| | | 110 | 5550 | 13.87 | 14.00 | No |
| | | 134 | 5670 | 14.83 | 15.00 | No |
| | 802.11ac(VHT40) | 102 | 5510 | 13.74 | 14.00 | No |
| | | 110 | 5550 | 13.53 | 14.00 | No |
| | | 134 | 5670 | 13.29 | 13.50 | No |
| 802.11ac(VHT80) | 106 | 5530 | 13.70 | 14.00 | No | |
| | 122 | 5610 | 13.54 | 14.00 | No | |
| Band (GHz) | Mode | Channel | Freq. (MHz) | Average Power (dBm) | Maximum Tune-up(dBm) | SAR Test Require. |
| U-NII-3 (5.725-5.850) | 802.11a | 149 | 5745 | 14.90 | 15.00 | Yes |
| | | 157 | 5785 | 14.84 | 15.00 | No |
| | | 165 | 5825 | 14.79 | 15.00 | No |
| | 802.11n(HT20) | 149 | 5745 | 14.69 | 15.00 | No |
| | | 157 | 5785 | 14.57 | 15.00 | No |
| | | 165 | 5825 | 14.66 | 15.00 | No |
| | 802.11ac(VHT20) | 149 | 5745 | 14.67 | 15.00 | No |
| | | 157 | 5785 | 14.80 | 15.00 | No |
| | | 165 | 5825 | 14.71 | 15.00 | No |
| | 802.11n(HT40) | 151 | 5755 | 14.83 | 15.00 | No |
| | | 159 | 5795 | 14.76 | 15.00 | No |
| | 802.11ac(VHT40) | 151 | 5755 | 14.61 | 15.00 | No |
| | | 159 | 5795 | 14.79 | 15.00 | No |
| | 802.11ac(VHT80) | 155 | 5775 | 13.91 | 15.00 | No |

8.5 Bluetooth

| EDR | Mode | Maximum Tune-up(dBm) | Average Conducted Output Power (dBm) | | |
|--------------|------|----------------------|--------------------------------------|---------|---------|
| | | | 0 | 39 | 78 |
| | | | 2402MHz | 2441MHz | 2480MHz |
| | | | | | |
| GFSK | 6.50 | 5.75 | 6.46 | 6.41 | |
| $\pi/4$ QPSK | 6.00 | 5.10 | 5.71 | 5.97 | |
| 8DPSK | 6.50 | 5.22 | 5.83 | 6.07 | |

| BLE | Mode | Maximum Tune-up(dBm) | Average Conducted Output Power (dBm) | | |
|-------|-------|----------------------|--------------------------------------|---------|---------|
| | | | 0 | 20 | 39 |
| | | | 2402MHz | 2440MHz | 2480MHz |
| | | | | | |
| 1Mbps | -1.50 | -2.30 | -1.88 | -1.74 | |
| 2Mbps | -1.50 | -2.19 | -1.78 | -1.64 | |

| Channel | Frequency (GHz) | Max. Tune-up Power (dBm) | Max. Power (mW) | Test distance (mm) | Exclusion thresholds for 1-g SAR(mW) | RF exposure evaluation required |
|---------|-----------------|--------------------------|-----------------|--------------------|--------------------------------------|---------------------------------|
| 39 | 2.441 | 6.50 | 7.94 | 0 | 2.75 | Yes |
| 39 | 2.441 | 6.50 | 7.94 | 10 | 10.28 | No |

Note

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

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

where

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

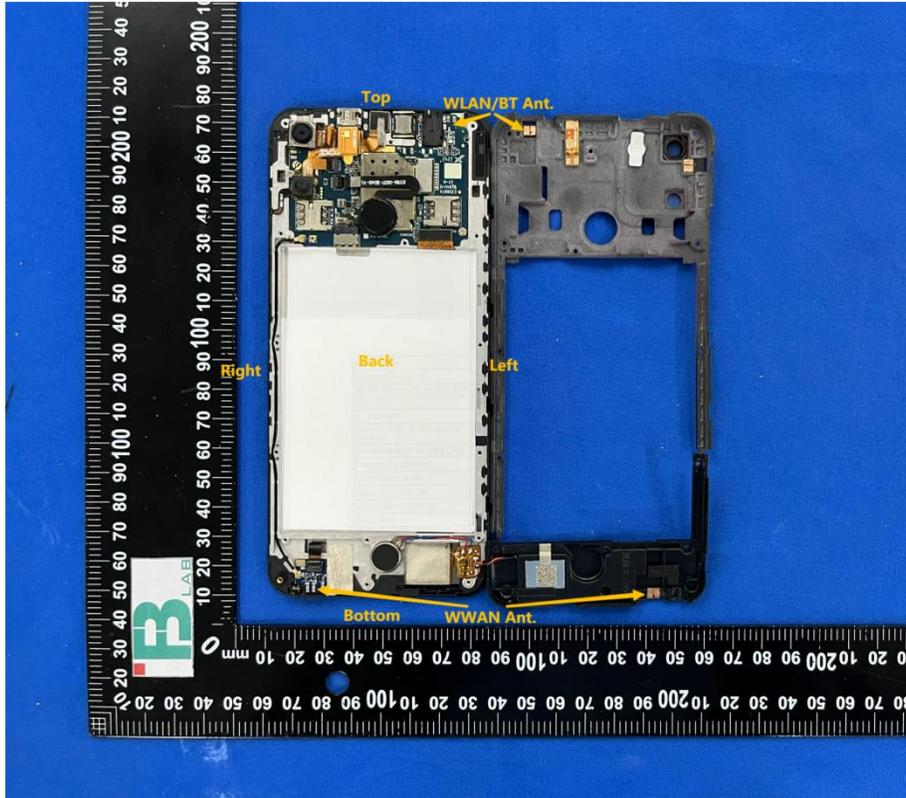
$$x = -\log_{10} \left(\frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right)$$

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

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

9. Test Exclusion Consideration

Antenna information:



| | |
|--|---------------------|
| WWAN Main Antenna | GSM/WCDMA/LTE TX/RX |
| WLAN/BT Antenna | WLAN/BT TX/RX |
| Note: 1. KDB 447498 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 | 59 | <25 | 161 | <25 |
| BT/Wifi | <25 | <25 | <25 | 61 | <25 | 161 |

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

9.1 SAR Test Exclusion Consideration Table

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

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

W/kg for test separation distances ≤ 50 mm;

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

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

| Mode | Channel | Frequency (GHz) | Max tune-up power (dBm) | Max. Power (mW) | Exposure Position | Head | Body-worn |
|------|---------|-----------------|-------------------------|-----------------|---------------------|------|-----------|
| | | | | | Test Dist. (mm) | 5 | 10 |
| BT | 39 | 2.441 | 9.00 | 7.94 | Estimated SAR(W/kg) | / | 0.093 |

10. Test Result

GSM

| Head(0mm gap) | | | | | | | | | | | | |
|------------------------------|-------------|-----|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| GSM 850 (voice) | Left Cheek | 190 | 836.6 | 2.650 | 0.226 | 100.00 | 1.000 | 31.85 | 32.00 | 1.035 | 0.234 | 1# |
| | Left Tilt | 190 | 836.6 | 3.010 | 0.125 | 100.00 | 1.000 | 31.85 | 32.00 | 1.035 | 0.129 | / |
| | Right Cheek | 190 | 836.6 | 4.590 | 0.177 | 100.00 | 1.000 | 31.85 | 32.00 | 1.035 | 0.183 | / |
| | Right Tilt | 190 | 836.6 | -1.840 | 0.139 | 100.00 | 1.000 | 31.85 | 32.00 | 1.035 | 0.144 | / |
| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| GPRS 850+3slots | Front | 190 | 836.6 | -1.880 | 0.153 | 100.00 | 1.000 | 28.33 | 28.50 | 1.040 | 0.159 | / |
| | Back | 190 | 836.6 | -3.280 | 0.423 | 100.00 | 1.000 | 28.33 | 28.50 | 1.040 | 0.440 | 2# |
| | Right | 190 | 836.6 | -1.660 | 0.133 | 100.00 | 1.000 | 28.33 | 28.50 | 1.040 | 0.138 | / |
| | Bottom | 190 | 836.6 | -4.690 | 0.230 | 100.00 | 1.000 | 28.33 | 28.50 | 1.040 | 0.239 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|------------------------------|-------------|-----|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| GSM 1900 (voice) | Left Cheek | 512 | 1850.2 | -1.300 | 0.067 | 100.00 | 1.000 | 30.20 | 30.50 | 1.072 | 0.072 | / |
| | Left Tilt | 512 | 1850.2 | 0.090 | 0.056 | 100.00 | 1.000 | 30.20 | 30.50 | 1.072 | 0.060 | / |
| | Right Cheek | 512 | 1850.2 | 2.610 | 0.068 | 100.00 | 1.000 | 30.20 | 30.50 | 1.072 | 0.073 | 3# |
| | Right Tilt | 512 | 1850.2 | 0.470 | 0.057 | 100.00 | 1.000 | 30.20 | 30.50 | 1.072 | 0.061 | / |
| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| GPRS 1900+3slots | Front | 512 | 1850.2 | -1.210 | 0.170 | 100.00 | 1.000 | 27.05 | 27.50 | 1.109 | 0.189 | / |
| | Back | 512 | 1850.2 | 1.980 | 0.601 | 100.00 | 1.000 | 27.05 | 27.50 | 1.109 | 0.667 | 4# |
| | Right | 512 | 1850.2 | 0.700 | 0.112 | 100.00 | 1.000 | 27.05 | 27.50 | 1.109 | 0.124 | / |
| | Bottom | 512 | 1850.2 | 0.770 | 0.362 | 100.00 | 1.000 | 27.05 | 27.50 | 1.109 | 0.401 | / |

WCDMA

| Head(0mm gap) | | | | | | | | | | | | |
|------------------------------|-------------|------|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 2 (RMC*) | Left Cheek | 9262 | 1852.4 | 1.002 | 0.135 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.143 | / |
| | Left Tilt | 9262 | 1852.4 | 0.990 | 0.106 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.112 | / |
| | Right Cheek | 9262 | 1852.4 | 2.210 | 0.144 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.152 | 5# |
| | Right Tilt | 9262 | 1852.4 | 2.600 | 0.108 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.114 | / |
| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 2 (RMC*) | Front | 9262 | 1852.4 | -1.650 | 0.187 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.198 | / |
| | Back | 9262 | 1852.4 | -2.730 | 0.743 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.785 | 6# |
| | Right | 9262 | 1852.4 | -1.770 | 0.141 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.149 | / |
| | Bottom | 9262 | 1852.4 | 1.610 | 0.445 | 100.00 | 1.000 | 22.26 | 22.50 | 1.057 | 0.470 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|------------------------------|-------------|------|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 4 (RMC*) | Left Cheek | 1413 | 1732.6 | 1.112 | 0.116 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.130 | / |
| | Left Tilt | 1413 | 1732.6 | 0.890 | 0.046 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.052 | / |
| | Right Cheek | 1413 | 1732.6 | 1.080 | 0.138 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.155 | 7# |
| | Right Tilt | 1413 | 1732.6 | -1.500 | 0.045 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.050 | / |
| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 4 (RMC*) | Front | 1413 | 1732.6 | -0.030 | 0.247 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.277 | / |
| | Back | 1413 | 1732.6 | 1.660 | 0.659 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.739 | 8# |
| | Right | 1413 | 1732.6 | 0.770 | 0.158 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.177 | / |
| | Bottom | 1413 | 1732.6 | -4.260 | 0.250 | 100.00 | 1.000 | 22.50 | 23.00 | 1.122 | 0.281 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|------------------------------|-------------|------|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 5 (RMC*) | Left Cheek | 4233 | 846.6 | 1.151 | 0.205 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.222 | / |
| | Left Tilt | 4233 | 846.6 | 0.977 | 0.106 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.115 | / |
| | Right Cheek | 4233 | 846.6 | -1.050 | 0.210 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.227 | 9# |
| | Right Tilt | 4233 | 846.6 | 1.240 | 0.125 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.135 | / |
| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| WCDMA Band 5 (RMC*) | Front | 4233 | 846.6 | -1.500 | 0.153 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.165 | / |
| | Back | 4233 | 846.6 | 3.790 | 0.222 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.240 | 10# |
| | Right | 4233 | 846.6 | 2.710 | 0.077 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.083 | / |
| | Bottom | 4233 | 846.6 | -3.290 | 0.129 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.139 | / |

LTE

| Head(0mm gap) | | | | | | | | | | | | | |
|--------------------|--------------|-------------|-------|-------------|-----------------|---------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas. SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 2 (BW: 20MHz) | 1RB | Left Cheek | 18700 | 1860.0 | -1.930 | 0.185 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.193 | / |
| | | Left Tilt | 18700 | 1860.0 | 0.890 | 0.123 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.128 | / |
| | | Right Cheek | 18700 | 1860.0 | 1.020 | 0.188 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.196 | 11# |
| | | Right Tilt | 18700 | 1860.0 | 0.680 | 0.127 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.132 | / |
| | 50%RB | Left Cheek | 18700 | 1860.0 | 3.190 | 0.142 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.146 | / |
| | | Left Tilt | 18700 | 1860.0 | 0.551 | 0.087 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.089 | / |
| | | Right Cheek | 18700 | 1860.0 | 2.830 | 0.145 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.149 | / |
| | | Right Tilt | 18700 | 1860.0 | 2.014 | 0.088 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.090 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 2 (BW: 20MHz) | 1RB | Front | 18700 | 1860.0 | -4.310 | 0.232 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.242 | / |
| | | Back | 18700 | 1860.0 | 0.590 | 0.633 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.660 | 12# |
| | | Right | 18700 | 1860.0 | 3.000 | 0.183 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.191 | / |
| | | Bottom | 18700 | 1860.0 | 1.480 | 0.271 | 100.00 | 1.000 | 22.32 | 22.50 | 1.042 | 0.282 | / |
| | 50%RB | Front | 18700 | 1860.0 | -1.023 | 0.209 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.214 | / |
| | | Back | 18700 | 1860.0 | 0.653 | 0.516 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.529 | / |
| | | Right | 18700 | 1860.0 | -0.322 | 0.114 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.117 | / |
| | | Bottom | 18700 | 1860.0 | 2.315 | 0.200 | 100.00 | 1.000 | 21.39 | 21.50 | 1.026 | 0.205 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|-----------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 4 (BW: 20MHz) | 1RB | Left Cheek | 20050 | 1720.0 | -1.930 | 0.202 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.208 | / |
| | | Left Tilt | 20050 | 1720.0 | 0.890 | 0.165 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.170 | / |
| | | Right Cheek | 20050 | 1720.0 | 2.190 | 0.239 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.246 | 13# |
| | | Right Tilt | 20050 | 1720.0 | -2.890 | 0.184 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.190 | / |
| | 50%RB | Left Cheek | 20050 | 1720.0 | 3.190 | 0.162 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.172 | / |
| | | Left Tilt | 20050 | 1720.0 | 0.551 | 0.109 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.115 | / |
| | | Right Cheek | 20050 | 1720.0 | 1.220 | 0.164 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.174 | / |
| | | Right Tilt | 20050 | 1720.0 | 2.014 | 0.112 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.119 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 4 (BW: 20MHz) | 1RB | Front | 20050 | 1720.0 | 0.090 | 0.253 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.261 | / |
| | | Back | 20050 | 1720.0 | -3.170 | 0.510 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.525 | 14# |
| | | Right | 20050 | 1720.0 | -2.220 | 0.177 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.182 | / |
| | | Bottom | 20050 | 1720.0 | 1.710 | 0.273 | 100.00 | 1.000 | 22.87 | 23.00 | 1.030 | 0.281 | / |
| | 50%RB | Front | 20050 | 1720.0 | -1.023 | 0.225 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.238 | / |
| | | Back | 20050 | 1720.0 | 0.653 | 0.489 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.518 | / |
| | | Right | 20050 | 1720.0 | -0.322 | 0.101 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.107 | / |
| | | Bottom | 20050 | 1720.0 | -4.510 | 0.259 | 100.00 | 1.000 | 21.75 | 22.00 | 1.059 | 0.274 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|-----------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 5 (BW: 10MHz) | 1RB | Left Cheek | 20600 | 844.0 | -1.930 | 0.143 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.152 | / |
| | | Left Tilt | 20600 | 844.0 | 0.890 | 0.121 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.129 | / |
| | | Right Cheek | 20600 | 844.0 | -2.260 | 0.164 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.174 | 15# |
| | | Right Tilt | 20600 | 844.0 | 0.280 | 0.140 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.149 | / |
| | 50%RB | Left Cheek | 20600 | 844.0 | 3.190 | 0.115 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.126 | / |
| | | Left Tilt | 20600 | 844.0 | 0.551 | 0.096 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.106 | / |
| | | Right Cheek | 20600 | 844.0 | 1.220 | 0.120 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.132 | / |
| | | Right Tilt | 20600 | 844.0 | 2.014 | 0.101 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.111 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 5 (BW: 10MHz) | 1RB | Front | 20600 | 844.0 | 0.860 | 0.187 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.199 | / |
| | | Back | 20600 | 844.0 | -1.770 | 0.334 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.355 | 16# |
| | | Right | 20600 | 844.0 | 4.340 | 0.107 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.114 | / |
| | | Bottom | 20600 | 844.0 | -4.290 | 0.196 | 100.00 | 1.000 | 22.24 | 22.50 | 1.062 | 0.208 | / |
| | 50%RB | Front | 20600 | 844.0 | 0.350 | 0.149 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.164 | / |
| | | Back | 20600 | 844.0 | 0.653 | 0.291 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.320 | / |
| | | Right | 20600 | 844.0 | -0.322 | 0.098 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.108 | / |
| | | Bottom | 20600 | 844.0 | 2.315 | 0.164 | 100.00 | 1.000 | 21.09 | 21.50 | 1.099 | 0.180 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 12 (BW: 10MHz) | 1RB | Left Cheek | 23130 | 711.0 | -1.930 | 0.110 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.118 | / |
| | | Left Tilt | 23130 | 711.0 | 0.890 | 0.068 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.073 | / |
| | | Right Cheek | 23130 | 711.0 | -3.870 | 0.116 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.124 | 17# |
| | | Right Tilt | 23130 | 711.0 | -1.700 | 0.069 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.074 | / |
| | 50%RB | Left Cheek | 23130 | 711.0 | 3.190 | 0.101 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.108 | / |
| | | Left Tilt | 23130 | 711.0 | 0.551 | 0.052 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.055 | / |
| | | Right Cheek | 23130 | 711.0 | 1.220 | 0.109 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.116 | / |
| | | Right Tilt | 23130 | 711.0 | 2.014 | 0.054 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.058 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 12 (BW: 10MHz) | 1RB | Front | 23130 | 711.0 | -1.960 | 0.179 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.192 | / |
| | | Back | 23130 | 711.0 | 1.450 | 0.225 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.241 | 18# |
| | | Right | 23130 | 711.0 | -2.040 | 0.095 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.102 | / |
| | | Bottom | 23130 | 711.0 | 2.110 | 0.103 | 100.00 | 1.000 | 22.20 | 22.50 | 1.072 | 0.110 | / |
| | 50%RB | Front | 23130 | 711.0 | -1.023 | 0.125 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.133 | / |
| | | Back | 23130 | 711.0 | 0.653 | 0.196 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.209 | / |
| | | Right | 23130 | 711.0 | -0.322 | 0.082 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.087 | / |
| | | Bottom | 23130 | 711.0 | 2.315 | 0.091 | 100.00 | 1.000 | 21.22 | 21.50 | 1.067 | 0.097 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 13 (BW: 10MHz) | 1RB | Left Cheek | 23230 | 782.0 | -1.930 | 0.125 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.133 | / |
| | | Left Tilt | 23230 | 782.0 | 0.890 | 0.098 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.104 | / |
| | | Right Cheek | 23230 | 782.0 | 1.010 | 0.130 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.138 | 19# |
| | | Right Tilt | 23230 | 782.0 | -2.270 | 0.102 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.109 | / |
| | 50%RB | Left Cheek | 23230 | 782.0 | 3.190 | 0.121 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.126 | / |
| | | Left Tilt | 23230 | 782.0 | 0.551 | 0.052 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.054 | / |
| | | Right Cheek | 23230 | 782.0 | 1.220 | 0.120 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.125 | / |
| | | Right Tilt | 23230 | 782.0 | 2.014 | 0.054 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.056 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 13 (BW: 10MHz) | 1RB | Front | 23230 | 782.0 | -4.650 | 0.142 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.151 | / |
| | | Back | 23230 | 782.0 | -1.830 | 0.253 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.269 | 20# |
| | | Right | 23230 | 782.0 | -2.340 | 0.098 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.104 | / |
| | | Bottom | 23230 | 782.0 | 2.320 | 0.111 | 100.00 | 1.000 | 22.73 | 23.00 | 1.064 | 0.118 | / |
| | 50%RB | Front | 23230 | 782.0 | -1.023 | 0.125 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.131 | / |
| | | Back | 23230 | 782.0 | 0.653 | 0.203 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.212 | / |
| | | Right | 23230 | 782.0 | -0.322 | 0.072 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.075 | / |
| | | Bottom | 23230 | 782.0 | 2.315 | 0.094 | 100.00 | 1.000 | 21.81 | 22.00 | 1.045 | 0.098 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 25 (BW: 20MHz) | 1RB | Left Cheek | 26140 | 1860.0 | -1.930 | 0.189 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.197 | / |
| | | Left Tilt | 26140 | 1860.0 | 0.890 | 0.125 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.130 | / |
| | | Right Cheek | 26140 | 1860.0 | -1.100 | 0.192 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.200 | 21# |
| | | Right Tilt | 26140 | 1860.0 | 2.830 | 0.130 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.135 | / |
| | 50%RB | Left Cheek | 26140 | 1860.0 | 3.190 | 0.145 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.160 | / |
| | | Left Tilt | 26140 | 1860.0 | 0.551 | 0.089 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.098 | / |
| | | Right Cheek | 26140 | 1860.0 | 1.220 | 0.150 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.165 | / |
| | | Right Tilt | 26140 | 1860.0 | 2.014 | 0.090 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.099 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 25 (BW: 20MHz) | 1RB | Front | 26140 | 1860.0 | -1.550 | 0.285 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.296 | / |
| | | Back | 26140 | 1860.0 | 0.240 | 0.636 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.661 | 22# |
| | | Right | 26140 | 1860.0 | 1.940 | 0.185 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.192 | / |
| | | Bottom | 26140 | 1860.0 | -0.920 | 0.293 | 100.00 | 1.000 | 22.33 | 22.50 | 1.040 | 0.305 | / |
| | 50%RB | Front | 26140 | 1860.0 | -1.023 | 0.232 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.256 | / |
| | | Back | 26140 | 1860.0 | 0.653 | 0.589 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.649 | / |
| | | Right | 26140 | 1860.0 | -0.322 | 0.121 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.133 | / |
| | | Bottom | 26140 | 1860.0 | -4.510 | 0.250 | 100.00 | 1.000 | 21.58 | 22.00 | 1.102 | 0.276 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 26 (BW: 15MHz) | 1RB | Left Cheek | 26865 | 831.5 | -1.930 | 0.127 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.131 | / |
| | | Left Tilt | 26865 | 831.5 | 0.890 | 0.085 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.088 | / |
| | | Right Cheek | 26865 | 831.5 | -2.230 | 0.134 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.138 | 23# |
| | | Right Tilt | 26865 | 831.5 | 0.220 | 0.102 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.105 | / |
| | 50%RB | Left Cheek | 26865 | 831.5 | 3.190 | 0.112 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.116 | / |
| | | Left Tilt | 26865 | 831.5 | 0.551 | 0.059 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.061 | / |
| | | Right Cheek | 26865 | 831.5 | 1.220 | 0.120 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.125 | / |
| | | Right Tilt | 26865 | 831.5 | 2.014 | 0.060 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.062 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 26 (BW: 15MHz) | 1RB | Front | 26865 | 831.5 | -1.110 | 0.143 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.148 | / |
| | | Back | 26865 | 831.5 | 1.340 | 0.242 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.250 | 24# |
| | | Right | 26865 | 831.5 | 0.140 | 0.088 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.091 | / |
| | | Bottom | 26865 | 831.5 | 0.470 | 0.151 | 100.00 | 1.000 | 22.36 | 22.50 | 1.033 | 0.156 | / |
| | 50%RB | Front | 26865 | 831.5 | -1.023 | 0.132 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.137 | / |
| | | Back | 26865 | 831.5 | 0.653 | 0.220 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.228 | / |
| | | Right | 26865 | 831.5 | -0.322 | 0.080 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.083 | / |
| | | Bottom | 26865 | 831.5 | -4.510 | 0.140 | 100.00 | 1.000 | 21.34 | 21.50 | 1.038 | 0.145 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 41 (BW: 20MHz) | 1RB | Left Cheek | 40620 | 2593.0 | -1.930 | 0.072 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.073 | / |
| | | Left Tilt | 40620 | 2593.0 | 0.890 | 0.049 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.050 | / |
| | | Right Cheek | 40620 | 2593.0 | 2.200 | 0.083 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.084 | 25# |
| | | Right Tilt | 40620 | 2593.0 | -1.530 | 0.058 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.059 | / |
| | 50%RB | Left Cheek | 40620 | 2593.0 | 3.190 | 0.064 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.065 | / |
| | | Left Tilt | 40620 | 2593.0 | 0.551 | 0.039 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.040 | / |
| | | Right Cheek | 40620 | 2593.0 | 1.220 | 0.065 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.066 | / |
| | | Right Tilt | 40620 | 2593.0 | 2.190 | 0.038 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.039 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|-------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 41 (BW: 20MHz) | 1RB | Front | 40620 | 2593.0 | 2.200 | 0.132 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.134 | / |
| | | Back | 40620 | 2593.0 | -1.660 | 0.240 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.244 | 26# |
| | | Right | 40620 | 2593.0 | -2.930 | 0.088 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.089 | / |
| | | Bottom | 40620 | 2593.0 | 1.130 | 0.101 | 100.00 | 1.000 | 23.93 | 24.00 | 1.016 | 0.103 | / |
| | 50%RB | Front | 40620 | 2593.0 | -1.023 | 0.115 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.117 | / |
| | | Back | 40620 | 2593.0 | 0.653 | 0.193 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.196 | / |
| | | Right | 40620 | 2593.0 | -0.322 | 0.070 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.071 | / |
| | | Bottom | 40620 | 2593.0 | 2.315 | 0.084 | 100.00 | 1.000 | 22.94 | 23.00 | 1.014 | 0.085 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|--------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 66 (BW: 20MHz) | 1RB | Left Cheek | 132072 | 1720.0 | -1.930 | 0.266 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.277 | / |
| | | Left Tilt | 132072 | 1720.0 | 0.890 | 0.185 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.193 | / |
| | | Right Cheek | 132072 | 1720.0 | 1.750 | 0.271 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.282 | 27# |
| | | Right Tilt | 132072 | 1720.0 | -1.290 | 0.207 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.216 | / |
| | 50%RB | Left Cheek | 132072 | 1720.0 | 3.190 | 0.252 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.267 | / |
| | | Left Tilt | 132072 | 1720.0 | 0.551 | 0.159 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.168 | / |
| | | Right Cheek | 132072 | 1720.0 | 1.220 | 0.264 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.280 | / |
| | | Right Tilt | 132072 | 1720.0 | 2.014 | 0.160 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.169 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|--------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 66 (BW: 20MHz) | 1RB | Front | 132072 | 1720.0 | -0.600 | 0.326 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.340 | / |
| | | Back | 132072 | 1720.0 | -2.600 | 0.487 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.507 | 28# |
| | | Right | 132072 | 1720.0 | -1.850 | 0.266 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.277 | / |
| | | Bottom | 132072 | 1720.0 | -1.810 | 0.280 | 100.00 | 1.000 | 23.32 | 23.50 | 1.042 | 0.292 | / |
| | 50%RB | Front | 132072 | 1720.0 | -1.023 | 0.285 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.302 | / |
| | | Back | 132072 | 1720.0 | 0.653 | 0.389 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.412 | / |
| | | Right | 132072 | 1720.0 | -0.322 | 0.181 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.192 | / |
| | | Bottom | 132072 | 1720.0 | -4.510 | 0.215 | 100.00 | 1.000 | 22.25 | 22.50 | 1.059 | 0.228 | / |

| Head(0mm gap) | | | | | | | | | | | | | |
|------------------------|--------------|-------------|--------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 71 (BW: 20MHz) | 1RB | Left Cheek | 133222 | 673.0 | -1.930 | 0.080 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.086 | / |
| | | Left Tilt | 133222 | 673.0 | 0.890 | 0.075 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.081 | / |
| | | Right Cheek | 133222 | 673.0 | -1.210 | 0.092 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.099 | 29# |
| | | Right Tilt | 133222 | 673.0 | -1.570 | 0.068 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.074 | / |
| | 50%RB | Left Cheek | 133222 | 673.0 | 3.190 | 0.063 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.063 | / |
| | | Left Tilt | 133222 | 673.0 | 0.551 | 0.052 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.052 | / |
| | | Right Cheek | 133222 | 673.0 | 1.220 | 0.064 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.064 | / |
| | | Right Tilt | 133222 | 673.0 | 2.014 | 0.051 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.051 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | | |
|------------------------------|--------------|----------|--------|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Channel Type | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Band 71 (BW: 20MHz) | 1RB | Front | 133222 | 673.0 | 2.260 | 0.129 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.139 | / |
| | | Back | 133222 | 673.0 | -1.690 | 0.170 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.184 | 30# |
| | | Right | 133222 | 673.0 | -4.250 | 0.143 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.155 | / |
| | | Bottom | 133222 | 673.0 | 1.260 | 0.149 | 100.00 | 1.000 | 22.16 | 22.50 | 1.081 | 0.161 | / |
| | 50%RB | Front | 133222 | 673.0 | -1.023 | 0.109 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.110 | / |
| | | Back | 133222 | 673.0 | 0.653 | 0.160 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.161 | / |
| | | Right | 133222 | 673.0 | -0.322 | 0.121 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.122 | / |
| | | Bottom | 133222 | 673.0 | -4.510 | 0.132 | 100.00 | 1.000 | 20.97 | 21.00 | 1.007 | 0.133 | / |

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| Head(0mm gap) | | | | | | | | | | | | |
|----------------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| 2.4g (2.4~2.4835) | Left Cheek | 11 | 2462 | 1.550 | 0.220 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.230 | / |
| | Left Tilt | 11 | 2462 | 0.390 | 0.202 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.211 | / |
| | Right Cheek | 11 | 2462 | -1.540 | 0.236 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.247 | 31# |
| | Right Tilt | 11 | 2462 | 1.530 | 0.214 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.224 | / |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
|------------------------------|----------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| 2.4g (2.4-2.4835) | Front | 11 | 2462 | 1.330 | 0.110 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.115 | / |
| | Back | 11 | 2462 | -1.790 | 0.246 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.257 | 32# |
| | Left | 11 | 2462 | 2.080 | 0.080 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.084 | / |
| | Top | 11 | 2462 | 0.770 | 0.073 | 100.00 | 1.000 | 20.31 | 20.50 | 1.045 | 0.076 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|-------------------------------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-1 (5.150-5.250) 802.11a | Left Cheek | 36 | 5180 | -1.350 | 0.259 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.271 | / |
| | Left Tilt | 36 | 5180 | 0.300 | 0.388 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.405 | / |
| | Right Cheek | 36 | 5180 | 2.520 | 0.279 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.292 | / |
| | Right Tilt | 36 | 5180 | 1.400 | 0.406 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.424 | 33# |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
|-------------------------------------|----------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-1 (5.150-5.250) 802.11a | Front | 36 | 5180 | 0.430 | 0.150 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.157 | / |
| | Back | 36 | 5180 | 1.180 | 0.389 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.407 | 34# |
| | Left | 36 | 5180 | 1.180 | 0.187 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.195 | / |
| | Top | 36 | 5180 | 2.560 | 0.245 | 100.00 | 1.000 | 16.31 | 16.50 | 1.045 | 0.256 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|--------------------------------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-2a (5.250-5.350) 802.11a | Left Cheek | 64 | 5320 | 1.550 | 0.225 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.227 | / |
| | Left Tilt | 64 | 5320 | 0.390 | 0.310 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.313 | / |
| | Right Cheek | 64 | 5320 | 0.540 | 0.231 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.233 | / |
| | Right Tilt | 64 | 5320 | -1.002 | 0.315 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.318 | 35# |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
|--------------------------------------|----------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-2a (5.250-5.350) 802.11a | Front | 64 | 5320 | 2.870 | 0.130 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.131 | / |
| | Back | 64 | 5320 | -1.300 | 0.291 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.294 | 36# |
| | Left | 64 | 5320 | -2.680 | 0.160 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.161 | / |
| | Top | 64 | 5320 | -1.330 | 0.242 | 100.00 | 1.000 | 14.46 | 14.50 | 1.009 | 0.244 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|--------------------------------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-2c (5.470-5.725) 802.11a | Left Cheek | 140 | 5700 | 1.550 | 0.125 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.140 | / |
| | Left Tilt | 140 | 5700 | 0.390 | 0.285 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.319 | / |
| | Right Cheek | 140 | 5700 | 1.020 | 0.126 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.141 | / |
| | Right Tilt | 140 | 5700 | 2.530 | 0.288 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.322 | 37# |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
|--------------------------------------|----------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-2c (5.470-5.725) 802.11a | Front | 140 | 5700 | -2.380 | 0.118 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.132 | / |
| | Back | 140 | 5700 | -0.550 | 0.201 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.225 | 38# |
| | Left | 140 | 5700 | 1.600 | 0.138 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.154 | / |
| | Top | 140 | 5700 | 3.044 | 0.185 | 100.00 | 1.000 | 15.01 | 15.50 | 1.119 | 0.207 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|-------------------------------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-3 (5.725-5.850) 802.11a | Left Cheek | 149 | 5745 | 1.550 | 0.188 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.192 | / |
| | Left Tilt | 149 | 5745 | 0.390 | 0.301 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.308 | / |
| | Right Cheek | 149 | 5745 | 1.020 | 0.194 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.198 | / |
| | Right Tilt | 149 | 5745 | -1.720 | 0.312 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.319 | 39# |

| Body(hotspot open, 10mm Gap) | | | | | | | | | | | | |
|-------------------------------------|----------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| U-NII-3 (5.725-5.850) 802.11a | Front | 149 | 5745 | 1.670 | 0.129 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.132 | / |
| | Back | 149 | 5745 | -1.070 | 0.218 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.223 | 40# |
| | Left | 149 | 5745 | 1.910 | 0.152 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.155 | / |
| | Top | 149 | 5745 | -2.550 | 0.199 | 100.00 | 1.000 | 14.90 | 15.00 | 1.023 | 0.204 | / |

| Head(0mm gap) | | | | | | | | | | | | |
|---------------|-------------|-----|-------------|-----------------|--------------------|----------------|-------------------|-------------------|--------------------------|----------------|----------------------|-----------|
| Mode | Position | Ch. | Freq. (MHz) | Power Drift (%) | 1g Meas SAR (W/kg) | Duty cycle (%) | Duty cycle Factor | Meas. Power (dBm) | Max. tune-up power (dBm) | Scaling Factor | 1g Scaled SAR (W/kg) | Meas. No. |
| Bluetooth | Left Cheek | 39 | 2441 | 1.550 | 0.070 | 100.00 | 1.000 | 6.46 | 6.50 | 1.009 | 0.071 | / |
| | Left Tilt | 39 | 2441 | 0.390 | 0.050 | 100.00 | 1.000 | 6.46 | 6.50 | 1.009 | 0.050 | / |
| | Right Cheek | 39 | 2441 | -1.650 | 0.072 | 100.00 | 1.000 | 6.46 | 6.50 | 1.009 | 0.073 | 41# |
| | Right Tilt | 39 | 2441 | -1.002 | 0.051 | 100.00 | 1.000 | 6.46 | 6.50 | 1.009 | 0.051 | / |

- 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. $Scaling\ Factor = 10^{[(tune-up\ limit\ power(dBm) - Ave.power\ power\ (dBm))/10]}$, where tune-up limit is the maximum rated power among all production units.
Reported SAR(W/kg)=Measured SAR (W/kg)*Scaling Factor.

11. SAR Measurement Variability

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

SAR repeated measurement procedure:

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

Note: For 1g SAR, the highest measured 1g SAR is $0.743 < 0.80$ W/kg, repeated measurement is not required.

12. Simultaneous Transmission

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

12.1 Simultaneous Transmission Mode Considerations

Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneous transmitting antenna. The device has 2 Tx antennas, WWAN main antenna, Wifi/BT antenna supports 2.4G/5G Wi-Fi and BT. The 2 antennas can always transmit simultaneously. The work mode combination is showed as below table.

Application Simultaneous Transmission information:

| NO. | Configuration | Head | Body-worn |
|-----|-----------------|------|-----------|
| 1 | WWAN+WIFI(2.4g) | Yes | Yes |
| 2 | WWAN+WIFI(5g) | Yes | Yes |
| 3 | WWAN+BT | Yes | Yes |

12.2 Sum SAR of Simultaneous Transmission

Head

| Band | Test Position | Scaled SAR | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|-----------------|---------------|--------------|--------------|--------------|--------------|-------------------------------|-----------------------------|------------------------|-------|--------|
| | | WWAN | WIFI 2.4G | WIFI 5G | BT | | | | | |
| GSM850 (voice) | Left Cheek | 0.234 | 0.230 | 0.271 | 0.071 | 0.464 | 0.505 | 0.305 | N/A | N/A |
| | Left Tilt | 0.129 | 0.211 | 0.405 | 0.050 | 0.340 | 0.534 | 0.179 | N/A | N/A |
| | Right Cheek | 0.183 | 0.247 | 0.292 | 0.073 | 0.430 | 0.475 | 0.256 | N/A | N/A |
| | Right Tilt | 0.144 | 0.224 | 0.424 | 0.051 | 0.368 | 0.568 | 0.195 | N/A | N/A |
| GSM1900 (voice) | Left Cheek | 0.072 | 0.230 | 0.271 | 0.071 | 0.302 | 0.343 | 0.143 | N/A | N/A |
| | Left Tilt | 0.060 | 0.211 | 0.405 | 0.050 | 0.271 | 0.465 | 0.110 | N/A | N/A |
| | Right Cheek | 0.073 | 0.247 | 0.292 | 0.073 | 0.320 | 0.365 | 0.146 | N/A | N/A |
| | Right Tilt | 0.061 | 0.224 | 0.424 | 0.051 | 0.285 | 0.485 | 0.112 | N/A | N/A |
| WCDMA Band II | Left Cheek | 0.143 | 0.230 | 0.271 | 0.071 | 0.373 | 0.414 | 0.214 | N/A | N/A |
| | Left Tilt | 0.112 | 0.211 | 0.405 | 0.050 | 0.323 | 0.517 | 0.162 | N/A | N/A |
| | Right Cheek | 0.152 | 0.247 | 0.292 | 0.073 | 0.399 | 0.444 | 0.225 | N/A | N/A |
| | Right Tilt | 0.114 | 0.224 | 0.424 | 0.051 | 0.338 | 0.538 | 0.165 | N/A | N/A |
| WCDMA Band IV | Left Cheek | 0.130 | 0.230 | 0.271 | 0.071 | 0.360 | 0.401 | 0.201 | N/A | N/A |
| | Left Tilt | 0.052 | 0.211 | 0.405 | 0.050 | 0.263 | 0.457 | 0.102 | N/A | N/A |
| | Right Cheek | 0.155 | 0.247 | 0.292 | 0.073 | 0.402 | 0.447 | 0.228 | N/A | N/A |
| | Right Tilt | 0.050 | 0.224 | 0.424 | 0.051 | 0.274 | 0.474 | 0.101 | N/A | N/A |
| WCDMA Band V | Left Cheek | 0.222 | 0.230 | 0.271 | 0.071 | 0.452 | 0.493 | 0.293 | N/A | N/A |
| | Left Tilt | 0.115 | 0.211 | 0.405 | 0.050 | 0.326 | 0.520 | 0.165 | N/A | N/A |
| | Right Cheek | 0.227 | 0.247 | 0.292 | 0.073 | 0.474 | 0.519 | 0.300 | N/A | N/A |
| | Right Tilt | 0.135 | 0.224 | 0.424 | 0.051 | 0.359 | 0.559 | 0.186 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|--------------------------|---------------|---------------|--------------|--------------|--------------|--------------|-------------------------------|-----------------------------|------------------------|-------|--------|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 2 QPSK (20MHz) | Left Cheek | 1RB | 0.193 | 0.230 | 0.271 | 0.071 | 0.423 | 0.464 | 0.264 | N/A | N/A |
| | Left Tilt | | 0.128 | 0.211 | 0.405 | 0.050 | 0.339 | 0.533 | 0.178 | N/A | N/A |
| | Right Cheek | | 0.196 | 0.247 | 0.292 | 0.073 | 0.443 | 0.488 | 0.269 | N/A | N/A |
| | Right Tilt | 50%RB | 0.132 | 0.224 | 0.424 | 0.051 | 0.356 | 0.556 | 0.183 | N/A | N/A |
| | Left Cheek | | 0.146 | 0.230 | 0.271 | 0.071 | 0.376 | 0.417 | 0.217 | N/A | N/A |
| | Left Tilt | | 0.089 | 0.211 | 0.405 | 0.050 | 0.300 | 0.494 | 0.139 | N/A | N/A |
| LTE Band 4 QPSK (20MHz) | Right Cheek | 1RB | 0.149 | 0.247 | 0.292 | 0.073 | 0.396 | 0.441 | 0.222 | N/A | N/A |
| | Right Tilt | | 0.090 | 0.224 | 0.424 | 0.051 | 0.314 | 0.514 | 0.141 | N/A | N/A |
| | Left Cheek | | 0.208 | 0.230 | 0.271 | 0.071 | 0.438 | 0.479 | 0.279 | N/A | N/A |
| | Left Tilt | 50%RB | 0.170 | 0.211 | 0.405 | 0.050 | 0.381 | 0.575 | 0.220 | N/A | N/A |
| | Right Cheek | | 0.246 | 0.247 | 0.292 | 0.073 | 0.493 | 0.538 | 0.319 | N/A | N/A |
| | Right Tilt | | 0.190 | 0.224 | 0.424 | 0.051 | 0.414 | 0.614 | 0.241 | N/A | N/A |
| LTE Band 5 QPSK (10MHz) | Left Cheek | 1RB | 0.172 | 0.230 | 0.271 | 0.071 | 0.402 | 0.443 | 0.243 | N/A | N/A |
| | Left Tilt | | 0.115 | 0.211 | 0.405 | 0.050 | 0.326 | 0.520 | 0.165 | N/A | N/A |
| | Right Cheek | | 0.174 | 0.247 | 0.292 | 0.073 | 0.421 | 0.466 | 0.247 | N/A | N/A |
| | Right Tilt | 50%RB | 0.119 | 0.224 | 0.424 | 0.051 | 0.343 | 0.543 | 0.170 | N/A | N/A |
| | Left Cheek | | 0.152 | 0.230 | 0.271 | 0.071 | 0.382 | 0.423 | 0.223 | N/A | N/A |
| | Left Tilt | | 0.129 | 0.211 | 0.405 | 0.050 | 0.340 | 0.534 | 0.179 | N/A | N/A |
| LTE Band 12 QPSK (10MHz) | Right Cheek | 1RB | 0.174 | 0.247 | 0.292 | 0.073 | 0.421 | 0.466 | 0.247 | N/A | N/A |
| | Right Tilt | | 0.149 | 0.224 | 0.424 | 0.051 | 0.373 | 0.573 | 0.200 | N/A | N/A |
| | Left Cheek | | 0.126 | 0.230 | 0.271 | 0.071 | 0.356 | 0.397 | 0.197 | N/A | N/A |
| | Left Tilt | 50%RB | 0.106 | 0.211 | 0.405 | 0.050 | 0.317 | 0.511 | 0.156 | N/A | N/A |
| | Right Cheek | | 0.132 | 0.247 | 0.292 | 0.073 | 0.379 | 0.424 | 0.205 | N/A | N/A |
| | Right Tilt | | 0.111 | 0.224 | 0.424 | 0.051 | 0.335 | 0.535 | 0.162 | N/A | N/A |
| LTE Band 13 QPSK (10MHz) | Left Cheek | 1RB | 0.118 | 0.230 | 0.271 | 0.071 | 0.348 | 0.389 | 0.189 | N/A | N/A |
| | Left Tilt | | 0.073 | 0.211 | 0.405 | 0.050 | 0.284 | 0.478 | 0.123 | N/A | N/A |
| | Right Cheek | | 0.124 | 0.247 | 0.292 | 0.073 | 0.371 | 0.416 | 0.197 | N/A | N/A |
| | Right Tilt | 50%RB | 0.074 | 0.224 | 0.424 | 0.051 | 0.298 | 0.498 | 0.125 | N/A | N/A |
| | Left Cheek | | 0.108 | 0.230 | 0.271 | 0.071 | 0.338 | 0.379 | 0.179 | N/A | N/A |
| | Left Tilt | | 0.055 | 0.211 | 0.405 | 0.050 | 0.266 | 0.460 | 0.105 | N/A | N/A |
| LTE Band 25 QPSK (20MHz) | Right Cheek | 1RB | 0.116 | 0.247 | 0.292 | 0.073 | 0.363 | 0.408 | 0.189 | N/A | N/A |
| | Right Tilt | | 0.058 | 0.224 | 0.424 | 0.051 | 0.282 | 0.482 | 0.109 | N/A | N/A |
| | Left Cheek | | 0.133 | 0.230 | 0.271 | 0.071 | 0.363 | 0.404 | 0.204 | N/A | N/A |
| | Left Tilt | 50%RB | 0.104 | 0.211 | 0.405 | 0.050 | 0.315 | 0.509 | 0.154 | N/A | N/A |
| | Right Cheek | | 0.138 | 0.247 | 0.292 | 0.073 | 0.385 | 0.430 | 0.211 | N/A | N/A |
| | Right Tilt | | 0.109 | 0.224 | 0.424 | 0.051 | 0.333 | 0.533 | 0.160 | N/A | N/A |
| LTE Band 26 QPSK (15MHz) | Left Cheek | 1RB | 0.126 | 0.230 | 0.271 | 0.071 | 0.356 | 0.397 | 0.197 | N/A | N/A |
| | Left Tilt | | 0.054 | 0.211 | 0.405 | 0.050 | 0.265 | 0.459 | 0.104 | N/A | N/A |
| | Right Cheek | | 0.125 | 0.247 | 0.292 | 0.073 | 0.372 | 0.417 | 0.198 | N/A | N/A |
| | Right Tilt | 50%RB | 0.056 | 0.224 | 0.424 | 0.051 | 0.280 | 0.480 | 0.107 | N/A | N/A |
| | Left Cheek | | 0.197 | 0.230 | 0.271 | 0.071 | 0.427 | 0.468 | 0.268 | N/A | N/A |
| | Left Tilt | | 0.130 | 0.211 | 0.405 | 0.050 | 0.341 | 0.535 | 0.180 | N/A | N/A |
| LTE Band 41 QPSK (20MHz) | Right Cheek | 1RB | 0.200 | 0.247 | 0.292 | 0.073 | 0.447 | 0.492 | 0.273 | N/A | N/A |
| | Right Tilt | | 0.135 | 0.224 | 0.424 | 0.051 | 0.359 | 0.559 | 0.186 | N/A | N/A |
| | Left Cheek | | 0.160 | 0.230 | 0.271 | 0.071 | 0.390 | 0.431 | 0.231 | N/A | N/A |
| | Left Tilt | 50%RB | 0.098 | 0.211 | 0.405 | 0.050 | 0.309 | 0.503 | 0.148 | N/A | N/A |
| | Right Cheek | | 0.165 | 0.247 | 0.292 | 0.073 | 0.412 | 0.457 | 0.238 | N/A | N/A |
| | Right Tilt | | 0.099 | 0.224 | 0.424 | 0.051 | 0.323 | 0.523 | 0.150 | N/A | N/A |
| LTE Band 66 QPSK (20MHz) | Left Cheek | 1RB | 0.131 | 0.230 | 0.271 | 0.071 | 0.361 | 0.402 | 0.202 | N/A | N/A |
| | Left Tilt | | 0.088 | 0.211 | 0.405 | 0.050 | 0.299 | 0.493 | 0.138 | N/A | N/A |
| | Right Cheek | | 0.138 | 0.247 | 0.292 | 0.073 | 0.385 | 0.430 | 0.211 | N/A | N/A |
| | Right Tilt | 50%RB | 0.105 | 0.224 | 0.424 | 0.051 | 0.329 | 0.529 | 0.156 | N/A | N/A |
| | Left Cheek | | 0.116 | 0.230 | 0.271 | 0.071 | 0.346 | 0.387 | 0.187 | N/A | N/A |
| | Left Tilt | | 0.061 | 0.211 | 0.405 | 0.050 | 0.272 | 0.466 | 0.111 | N/A | N/A |
| LTE Band 71 QPSK (20MHz) | Right Cheek | 1RB | 0.125 | 0.247 | 0.292 | 0.073 | 0.372 | 0.417 | 0.198 | N/A | N/A |
| | Right Tilt | | 0.062 | 0.224 | 0.424 | 0.051 | 0.286 | 0.486 | 0.113 | N/A | N/A |
| | Left Cheek | | 0.073 | 0.230 | 0.271 | 0.071 | 0.303 | 0.344 | 0.144 | N/A | N/A |
| | Left Tilt | 50%RB | 0.050 | 0.211 | 0.405 | 0.050 | 0.261 | 0.455 | 0.100 | N/A | N/A |
| | Right Cheek | | 0.084 | 0.247 | 0.292 | 0.073 | 0.331 | 0.376 | 0.157 | N/A | N/A |
| | Right Tilt | | 0.059 | 0.224 | 0.424 | 0.051 | 0.283 | 0.483 | 0.110 | N/A | N/A |
| LTE Band 68 QPSK (20MHz) | Left Cheek | 1RB | 0.065 | 0.230 | 0.271 | 0.071 | 0.295 | 0.336 | 0.136 | N/A | N/A |
| | Left Tilt | | 0.040 | 0.211 | 0.405 | 0.050 | 0.251 | 0.445 | 0.090 | N/A | N/A |
| | Right Cheek | | 0.066 | 0.247 | 0.292 | 0.073 | 0.313 | 0.358 | 0.139 | N/A | N/A |
| | Right Tilt | 50%RB | 0.039 | 0.224 | 0.424 | 0.051 | 0.263 | 0.463 | 0.090 | N/A | N/A |
| | Left Cheek | | 0.277 | 0.230 | 0.271 | 0.071 | 0.507 | 0.548 | 0.348 | N/A | N/A |
| | Left Tilt | | 0.193 | 0.211 | 0.405 | 0.050 | 0.404 | 0.598 | 0.243 | N/A | N/A |
| LTE Band 69 QPSK (20MHz) | Right Cheek | 1RB | 0.282 | 0.247 | 0.292 | 0.073 | 0.529 | 0.574 | 0.355 | N/A | N/A |
| | Right Tilt | | 0.216 | 0.224 | 0.424 | 0.051 | 0.440 | 0.640 | 0.267 | N/A | N/A |
| | Left Cheek | | 0.267 | 0.230 | 0.271 | 0.071 | 0.497 | 0.538 | 0.338 | N/A | N/A |
| | Left Tilt | 50%RB | 0.168 | 0.211 | 0.405 | 0.050 | 0.379 | 0.573 | 0.218 | N/A | N/A |
| | Right Cheek | | 0.280 | 0.247 | 0.292 | 0.073 | 0.527 | 0.572 | 0.353 | N/A | N/A |
| | Right Tilt | | 0.169 | 0.224 | 0.424 | 0.051 | 0.393 | 0.593 | 0.220 | N/A | N/A |
| LTE Band 77 QPSK (20MHz) | Left Cheek | 1RB | 0.086 | 0.230 | 0.271 | 0.071 | 0.316 | 0.357 | 0.157 | N/A | N/A |
| | Left Tilt | | 0.081 | 0.211 | 0.405 | 0.050 | 0.292 | 0.486 | 0.131 | N/A | N/A |
| | Right Cheek | | 0.099 | 0.247 | 0.292 | 0.073 | 0.346 | 0.391 | 0.172 | N/A | N/A |
| | Right Tilt | 50%RB | 0.074 | 0.224 | 0.424 | 0.051 | 0.298 | 0.498 | 0.125 | N/A | N/A |
| | Left Cheek | | 0.063 | 0.230 | 0.271 | 0.071 | 0.293 | 0.334 | 0.134 | N/A | N/A |
| | Left Tilt | | 0.052 | 0.211 | 0.405 | 0.050 | 0.263 | 0.457 | 0.102 | N/A | N/A |
| LTE Band 78 QPSK (20MHz) | Right Cheek | 50%RB | 0.064 | 0.247 | 0.292 | 0.073 | 0.311 | 0.356 | 0.137 | N/A | N/A |
| | Right Tilt | | 0.051 | 0.224 | 0.424 | 0.051 | 0.275 | 0.475 | 0.102 | N/A | N/A |

Hotspot(body-worn)

| Band | Test Position | Scaled SAR | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|-----------------------|---------------|--------------|--------------|--------------|-------|-------------------------------|-----------------------------|------------------------|-------|--------|
| | | WWAN | WIFI 2.4G | WIFI 5G | BT | | | | | |
| GSM850 (GPRS 3slots) | Front | 0.159 | 0.115 | 0.157 | 0.093 | 0.274 | 0.316 | 0.252 | N/A | N/A |
| | Back | 0.440 | 0.257 | 0.407 | 0.093 | 0.697 | 0.847 | 0.533 | N/A | N/A |
| | Left | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | 0.138 | / | / | / | 0.138 | 0.138 | 0.138 | N/A | N/A |
| | Top | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | 0.239 | / | / | / | 0.239 | 0.239 | 0.239 | N/A | N/A |
| GSM1900 (GPRS 3slots) | Front | 0.189 | 0.115 | 0.157 | 0.093 | 0.304 | 0.346 | 0.282 | N/A | N/A |
| | Back | 0.667 | 0.257 | 0.407 | 0.093 | 0.924 | 1.074 | 0.760 | N/A | N/A |
| | Left | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | 0.124 | / | / | / | 0.124 | 0.124 | 0.124 | N/A | N/A |
| | Top | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | 0.401 | / | / | / | 0.401 | 0.401 | 0.401 | N/A | N/A |
| WCDMA Band II | Front | 0.198 | 0.115 | 0.157 | 0.093 | 0.313 | 0.355 | 0.291 | N/A | N/A |
| | Back | 0.785 | 0.257 | 0.407 | 0.093 | 1.042 | 1.192 | 0.878 | N/A | N/A |
| | Left | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | 0.149 | / | / | / | 0.149 | 0.149 | 0.149 | N/A | N/A |
| | Top | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | 0.470 | / | / | / | 0.470 | 0.470 | 0.470 | N/A | N/A |
| WCDMA Band IV | Front | 0.277 | 0.115 | 0.157 | 0.093 | 0.392 | 0.434 | 0.370 | N/A | N/A |
| | Back | 0.739 | 0.257 | 0.407 | 0.093 | 0.996 | 1.146 | 0.832 | N/A | N/A |
| | Left | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | 0.177 | / | / | / | 0.177 | 0.177 | 0.177 | N/A | N/A |
| | Top | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | 0.281 | / | / | / | 0.281 | 0.281 | 0.281 | N/A | N/A |
| WCDMA Band V | Front | 0.165 | 0.115 | 0.157 | 0.093 | 0.280 | 0.322 | 0.258 | N/A | N/A |
| | Back | 0.240 | 0.257 | 0.407 | 0.093 | 0.497 | 0.647 | 0.333 | N/A | N/A |
| | Left | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | 0.083 | / | / | / | 0.083 | 0.083 | 0.083 | N/A | N/A |
| | Top | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | 0.139 | / | / | / | 0.139 | 0.139 | 0.139 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|--------------------------|---------------|---------------|--------------|--------------|--------------|-----------|-------------------------------|-----------------------------|------------------------|-------|--------|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 2 QPSK (20MHz) | Front | 1RB | 0.242 | 0.115 | 0.157 | 0.093 | 0.357 | 0.399 | 0.335 | N/A | N/A |
| | Back | | 0.660 | 0.257 | 0.407 | 0.093 | 0.917 | 1.067 | 0.753 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.191 | / | / | / | 0.191 | 0.191 | 0.191 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.282 | / | / | / | 0.282 | 0.282 | 0.282 | N/A | N/A |
| LTE Band 4 QPSK (20MHz) | Front | 50%RB | 0.214 | 0.115 | 0.157 | 0.093 | 0.329 | 0.371 | 0.307 | N/A | N/A |
| | Back | | 0.529 | 0.257 | 0.407 | 0.093 | 0.786 | 0.936 | 0.622 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.117 | / | / | / | 0.117 | 0.117 | 0.117 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.205 | / | / | / | 0.205 | 0.205 | 0.205 | N/A | N/A |
| LTE Band 5 QPSK (10MHz) | Front | 1RB | 0.261 | 0.115 | 0.157 | 0.093 | 0.376 | 0.418 | 0.354 | N/A | N/A |
| | Back | | 0.525 | 0.257 | 0.407 | 0.093 | 0.782 | 0.932 | 0.618 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.182 | / | / | / | 0.182 | 0.182 | 0.182 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.281 | / | / | / | 0.281 | 0.281 | 0.281 | N/A | N/A |
| LTE Band 12 QPSK (10MHz) | Front | 50%RB | 0.238 | 0.115 | 0.157 | 0.093 | 0.353 | 0.395 | 0.331 | N/A | N/A |
| | Back | | 0.518 | 0.257 | 0.407 | 0.093 | 0.775 | 0.925 | 0.611 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.107 | / | / | / | 0.107 | 0.107 | 0.107 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.274 | / | / | / | 0.274 | 0.274 | 0.274 | N/A | N/A |
| LTE Band 5 QPSK (10MHz) | Front | 1RB | 0.199 | 0.115 | 0.157 | 0.093 | 0.314 | 0.356 | 0.292 | N/A | N/A |
| | Back | | 0.355 | 0.257 | 0.407 | 0.093 | 0.612 | 0.762 | 0.448 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.114 | / | / | / | 0.114 | 0.114 | 0.114 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.208 | / | / | / | 0.208 | 0.208 | 0.208 | N/A | N/A |
| LTE Band 12 QPSK (10MHz) | Front | 50%RB | 0.164 | 0.115 | 0.157 | 0.093 | 0.279 | 0.321 | 0.257 | N/A | N/A |
| | Back | | 0.320 | 0.257 | 0.407 | 0.093 | 0.577 | 0.727 | 0.413 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.108 | / | / | / | 0.108 | 0.108 | 0.108 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.180 | / | / | / | 0.180 | 0.180 | 0.180 | N/A | N/A |
| LTE Band 12 QPSK (10MHz) | Front | 1RB | 0.192 | 0.115 | 0.157 | 0.093 | 0.307 | 0.349 | 0.285 | N/A | N/A |
| | Back | | 0.241 | 0.257 | 0.407 | 0.093 | 0.498 | 0.648 | 0.334 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.102 | / | / | / | 0.102 | 0.102 | 0.102 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.110 | / | / | / | 0.110 | 0.110 | 0.110 | N/A | N/A |
| LTE Band 12 QPSK (10MHz) | Front | 50%RB | 0.133 | 0.115 | 0.157 | 0.093 | 0.248 | 0.290 | 0.226 | N/A | N/A |
| | Back | | 0.209 | 0.257 | 0.407 | 0.093 | 0.466 | 0.616 | 0.302 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | 0.087 | / | / | / | 0.087 | 0.087 | 0.087 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | 0.097 | / | / | / | 0.097 | 0.097 | 0.097 | N/A | N/A |

| Band | Test Position | RB allocation | Scaled | | | | Σ SAR (W/kg) WWAN + WIFI 2.4G | Σ SAR (W/kg) WWAN + WIFI 5G | Σ SAR (W/kg) WWAN + BT | SPLSR | Remark |
|--------------------------|---------------|---------------|--------------|--------------|--------------|-----------|-------------------------------|-----------------------------|------------------------|-------|--------|
| | | | WWAN | WIFI 2.4G | WIFI 5G | Bluetooth | | | | | |
| LTE Band 13 QPSK (10MHz) | Front | 1RB | 0.151 | 0.115 | 0.157 | 0.093 | 0.266 | 0.308 | 0.244 | N/A | N/A |
| | Back | | 0.269 | 0.257 | 0.407 | 0.093 | 0.526 | 0.676 | 0.362 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.104 | 0.104 | 0.104 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.118 | 0.118 | 0.118 | N/A | N/A |
| | Front | 50%RB | 0.131 | 0.115 | 0.157 | 0.093 | 0.246 | 0.288 | 0.224 | N/A | N/A |
| | Back | | 0.212 | 0.257 | 0.407 | 0.093 | 0.469 | 0.619 | 0.305 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.075 | 0.075 | 0.075 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.098 | 0.098 | 0.098 | N/A | N/A |
| LTE Band 25 QPSK (20MHz) | Front | 1RB | 0.296 | 0.115 | 0.157 | 0.093 | 0.411 | 0.453 | 0.389 | N/A | N/A |
| | Back | | 0.661 | 0.257 | 0.407 | 0.093 | 0.918 | 1.068 | 0.754 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.192 | 0.192 | 0.192 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.305 | 0.305 | 0.305 | N/A | N/A |
| | Front | 50%RB | 0.256 | 0.115 | 0.157 | 0.093 | 0.371 | 0.413 | 0.349 | N/A | N/A |
| | Back | | 0.649 | 0.257 | 0.407 | 0.093 | 0.906 | 1.056 | 0.742 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.133 | 0.133 | 0.133 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.276 | 0.276 | 0.276 | N/A | N/A |
| LTE Band 26 QPSK (15MHz) | Front | 1RB | 0.148 | 0.115 | 0.157 | 0.093 | 0.263 | 0.305 | 0.241 | N/A | N/A |
| | Back | | 0.250 | 0.257 | 0.407 | 0.093 | 0.507 | 0.657 | 0.343 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.091 | 0.091 | 0.091 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.156 | 0.156 | 0.156 | N/A | N/A |
| | Front | 50%RB | 0.137 | 0.115 | 0.157 | 0.093 | 0.252 | 0.294 | 0.230 | N/A | N/A |
| | Back | | 0.228 | 0.257 | 0.407 | 0.093 | 0.485 | 0.635 | 0.321 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.083 | 0.083 | 0.083 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.145 | 0.145 | 0.145 | N/A | N/A |
| LTE Band 41 QPSK (20MHz) | Front | 1RB | 0.134 | 0.115 | 0.157 | 0.093 | 0.249 | 0.291 | 0.227 | N/A | N/A |
| | Back | | 0.244 | 0.257 | 0.407 | 0.093 | 0.501 | 0.651 | 0.337 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.089 | 0.089 | 0.089 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.103 | 0.103 | 0.103 | N/A | N/A |
| | Front | 50%RB | 0.117 | 0.115 | 0.157 | 0.093 | 0.232 | 0.274 | 0.210 | N/A | N/A |
| | Back | | 0.196 | 0.257 | 0.407 | 0.093 | 0.453 | 0.603 | 0.289 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.071 | 0.071 | 0.071 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.085 | 0.085 | 0.085 | N/A | N/A |
| LTE Band 66 QPSK (20MHz) | Front | 1RB | 0.340 | 0.115 | 0.157 | 0.093 | 0.455 | 0.497 | 0.433 | N/A | N/A |
| | Back | | 0.507 | 0.257 | 0.407 | 0.093 | 0.764 | 0.914 | 0.600 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.277 | 0.277 | 0.277 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.292 | 0.292 | 0.292 | N/A | N/A |
| | Front | 50%RB | 0.302 | 0.115 | 0.157 | 0.093 | 0.417 | 0.459 | 0.395 | N/A | N/A |
| | Back | | 0.412 | 0.257 | 0.407 | 0.093 | 0.669 | 0.819 | 0.505 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.192 | 0.192 | 0.192 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.228 | 0.228 | 0.228 | N/A | N/A |
| LTE Band 71 QPSK (20MHz) | Front | 1RB | 0.139 | 0.115 | 0.157 | 0.093 | 0.254 | 0.296 | 0.232 | N/A | N/A |
| | Back | | 0.184 | 0.257 | 0.407 | 0.093 | 0.441 | 0.591 | 0.277 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.155 | 0.155 | 0.155 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.161 | 0.161 | 0.161 | N/A | N/A |
| | Front | 50%RB | 0.110 | 0.115 | 0.157 | 0.093 | 0.225 | 0.267 | 0.203 | N/A | N/A |
| | Back | | 0.161 | 0.257 | 0.407 | 0.093 | 0.418 | 0.568 | 0.254 | N/A | N/A |
| | Left | | / | 0.084 | 0.195 | 0.093 | 0.084 | 0.195 | 0.093 | N/A | N/A |
| | Right | | / | / | / | / | 0.122 | 0.122 | 0.122 | N/A | N/A |
| | Top | | / | 0.076 | 0.256 | 0.093 | 0.076 | 0.256 | 0.093 | N/A | N/A |
| | Bottom | | / | / | / | / | 0.133 | 0.133 | 0.133 | N/A | N/A |

13. Test Equipment List

| Description | Manufacturer | Model | Serial No./Version | Cal. Date | Cal. Due |
|-------------------------------------|-------------------|---------------|---------------------|------------|------------|
| E-Field Probe | MVG | SSE2 | 04/22 EPG0365 | 2023/02/06 | 2024/02/05 |
| 6 1/2 Digital Multimeter | Keithley | DMM6500 | 4527164 | 2022/11/24 | 2023/11/23 |
| Wideband Radio Communication Tester | ROHDE & SCHWARZ | CMW500 | 161997 | 2022/11/24 | 2023/11/23 |
| MXG Vector Signal Generator | Agilent | N5182A | MY46240163 | 2022/11/24 | 2023/11/23 |
| E-Series Avg. Power Sensor | KEYSIGHT | E9300A | MY55050017 | 2023/03/24 | 2024/03/23 |
| EPM Series Power Meter | KEYSIGHT | E4418B | MY41293435 | 2023/03/24 | 2024/03/23 |
| 10dB Attenuator | MIDWEST MICROWAVE | 263-10dB | / | 2023/03/24 | 2024/03/23 |
| Coupler | MERRIMAC | CWM-10R-10.8G | LOT-83391 | 2023/03/24 | 2024/03/23 |
| 750MHz Validation Dipole | MVG | SID750 | 07/22 DIP 0G835-655 | 2023/02/06 | 2024/02/05 |
| 835MHz Validation Dipole | MVG | SID835 | 07/22 DIP 0G835-656 | 2023/02/06 | 2024/02/05 |
| 1800MHz Validation Dipole | MVG | SID1800 | 07/22 DIP 1G800-657 | 2023/02/06 | 2024/02/05 |
| 1900MHz Validation Dipole | MVG | SID1900 | 07/22 DIP 1G900-658 | 2023/02/06 | 2024/02/05 |
| 2450MHz Validation Dipole | MVG | SID2450 | 07/22 DIP 2G450-662 | 2023/02/06 | 2024/02/05 |
| 2600MHz Validation Dipole | MVG | SID2600 | 07/22 DIP 2G600-663 | 2023/02/06 | 2024/02/05 |
| 5200MHz-5800MHz Validation Dipole | MVG | SID5000 | 07/22 DIP5G000-670 | 2023/02/06 | 2024/02/05 |
| LIMESAR Dielectric Probe | MVG | SCLMP | 06/22 OCPG88 | / | / |
| ENA Series Network Analyzer | Agilent | E5071B | MY42301221 | 2022/11/24 | 2023/11/23 |
| Thermometer | Riters | DT-232 | 21A11 | 2023/03/24 | 2024/03/23 |
| Antenna network emulator | MVG | ANTA 74 | 07/22 ANTA 74 | / | / |
| SAM Phantom | MVG | SAM | 07/22 SAM149 | / | / |
| Mobile Phone Positioning System | MVG | MSH 118 | 07/22 MSH 118 | / | / |
| Mechanical Calibration Kit | PNA | / | / | / | / |
| Open SAR test software | MVG | / | V5.3.5 | / | / |

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

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

ANNEX A Simulating Liquid Verification Result

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

| Dielectric performance of tissue simulating liquid | | | | | | | | | |
|--|--------------|----------|----------------|----------|------------------------|--------------------|-------|-----------|-----------|
| Frequency (MHz) | ϵ_r | | σ (s/m) | | Delta (ϵ_r) | Delta (σ) | Limit | Temp (°C) | Date |
| | Target | Measured | Target | Measured | | | | | |
| 750 | 41.90 | 41.80 | 0.89 | 0.86 | 0.24% | 3.37% | ±5% | 20.0 | 24/4/2023 |
| 835 | 41.50 | 41.41 | 0.90 | 0.87 | 0.22% | 3.33% | ±5% | 20.0 | 24/4/2023 |
| 1800 | 40.00 | 39.91 | 1.40 | 1.37 | 0.23% | 2.14% | ±5% | 20.0 | 25/4/2023 |
| 1900 | 40.00 | 39.88 | 1.40 | 1.41 | 0.30% | -0.71% | ±5% | 20.0 | 25/4/2023 |
| 2450 | 39.20 | 39.08 | 1.80 | 1.81 | 0.31% | -0.56% | ±5% | 20.0 | 26/4/2023 |
| 2600 | 39.00 | 38.88 | 1.96 | 1.97 | 0.31% | -0.51% | ±5% | 20.0 | 26/4/2023 |
| 5200 | 36.00 | 35.88 | 4.66 | 4.70 | 0.33% | -0.86% | ±5% | 20.0 | 26/4/2023 |
| 5400 | 35.8 | 35.68 | 4.86 | 4.90 | 0.34% | -0.82% | ±5% | 20.0 | 26/4/2023 |
| 5600 | 35.5 | 35.38 | 5.07 | 5.11 | 0.34% | -0.79% | ±5% | 20.0 | 26/4/2023 |
| 5800 | 35.30 | 35.18 | 5.27 | 5.31 | 0.34% | -0.76% | ±5% | 20.0 | 26/4/2023 |

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

ANNEX B System Check Result

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

| Frequency (MHz) | Input Power (mW) | 1g SAR (W/Kg) | 10g SAR (W/Kg) | 1g SAR 1W input power normalized (W/Kg) | 10g SAR 1W input power normalized (W/Kg) | 1g SAR Standard target (1W) (W/Kg) | 10g SAR Standard target (1W) (W/Kg) | 1g SAR Deviation | 10g SAR Deviation |
|-----------------|------------------|---------------|----------------|---|--|------------------------------------|-------------------------------------|------------------|-------------------|
| 750 | 16 | 0.138 | 0.092 | 8.63 | 5.75 | 8.25 | 5.38 | 4.55% | 6.88% |
| 835 | 16 | 0.163 | 0.106 | 10.19 | 6.63 | 9.79 | 6.17 | 4.06% | 7.37% |
| 1800 | 16 | 0.588 | 0.312 | 36.75 | 19.50 | 39.33 | 20.61 | -6.56% | -5.39% |
| 1900 | 16 | 0.630 | 0.322 | 39.38 | 20.13 | 40.97 | 20.7 | -3.89% | -2.78% |
| 2450 | 16 | 0.793 | 0.352 | 49.56 | 22.00 | 54.4 | 23.86 | -8.89% | -7.80% |
| 2600 | 16 | 0.866 | 0.421 | 54.13 | 26.31 | 57.14 | 24.48 | -5.28% | 7.49% |
| 5200 | 13 | 0.998 | 0.294 | 76.77 | 22.62 | 73.88 | 21.29 | 3.91% | 6.23% |
| 5400 | 13 | 1.120 | 0.327 | 86.15 | 25.15 | 81.47 | 23.23 | 5.75% | 8.28% |
| 5600 | 13 | 1.084 | 0.314 | 83.38 | 24.15 | 78.71 | 22.64 | 5.94% | 6.69% |
| 5800 | 13 | 1.023 | 0.280 | 78.69 | 21.54 | 74.21 | 21.50 | 6.04% | 0.18% |

System Performance Check Data (750 MHz)

System check at 750 MHz

Date of measurement: 24/4/2023

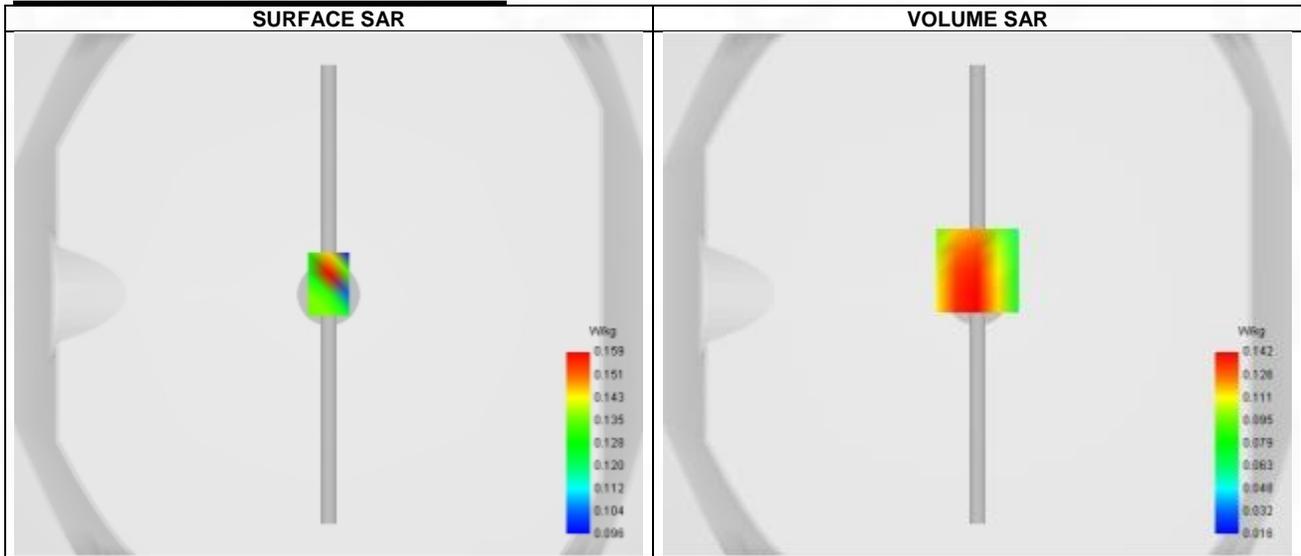
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 750.000 |
| Relative permittivity (real part) | 41.800 |
| Relative permittivity (imaginary part) | 21.460 |
| Conductivity (S/m) | 0.860 |

C. SAR Surface and Volume



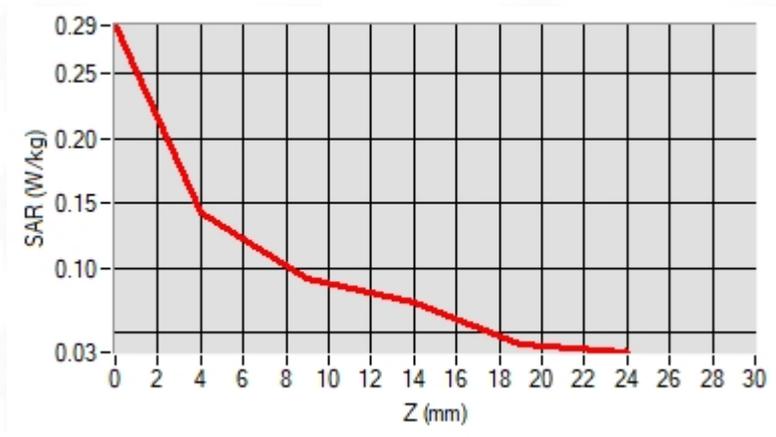
Maximum location: X=0.00, Y=9.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

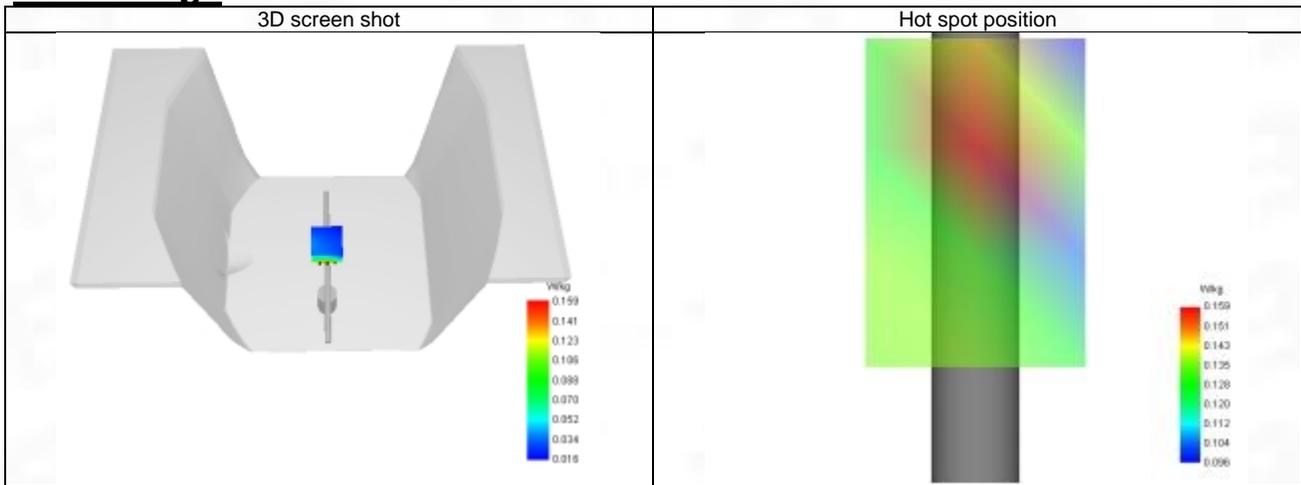
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.092 |
| SAR 1g (W/Kg) | 0.138 |
| Variation (%) | -2.190 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (835 MHz)

System check at 835 MHz

Date of measurement: 24/4/2023

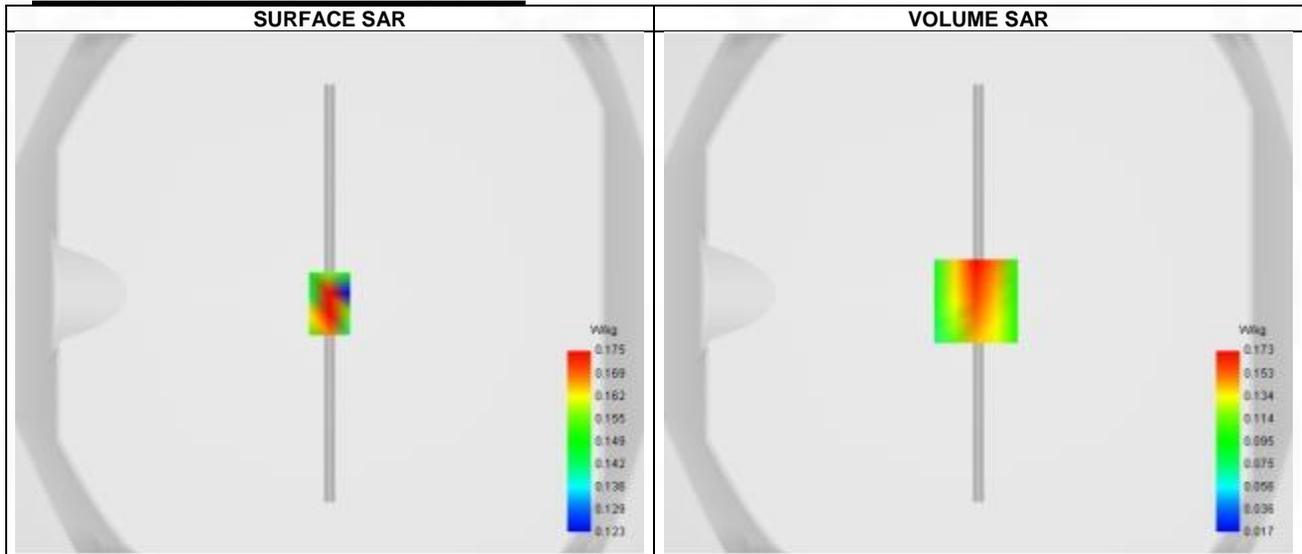
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 835.000 |
| Relative permittivity (real part) | 41.410 |
| Relative permittivity (imaginary part) | 19.490 |
| Conductivity (S/m) | 0.870 |

C. SAR Surface and Volume



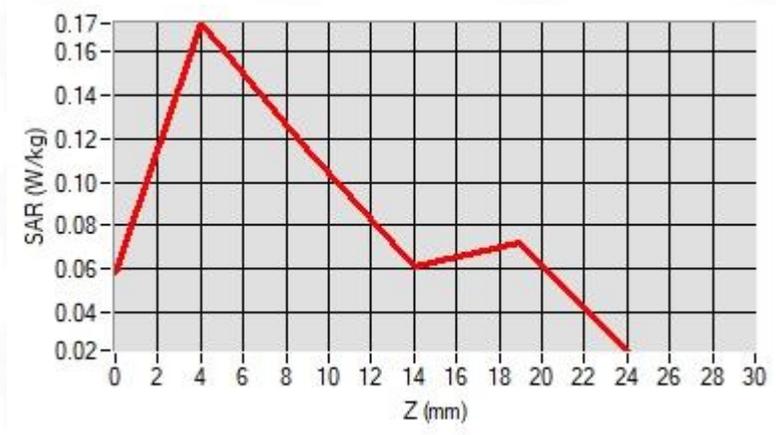
Maximum location: X=-1.00, Y=-3.00 ; SAR Peak: 0.26 W/kg

D. SAR 1g & 10g

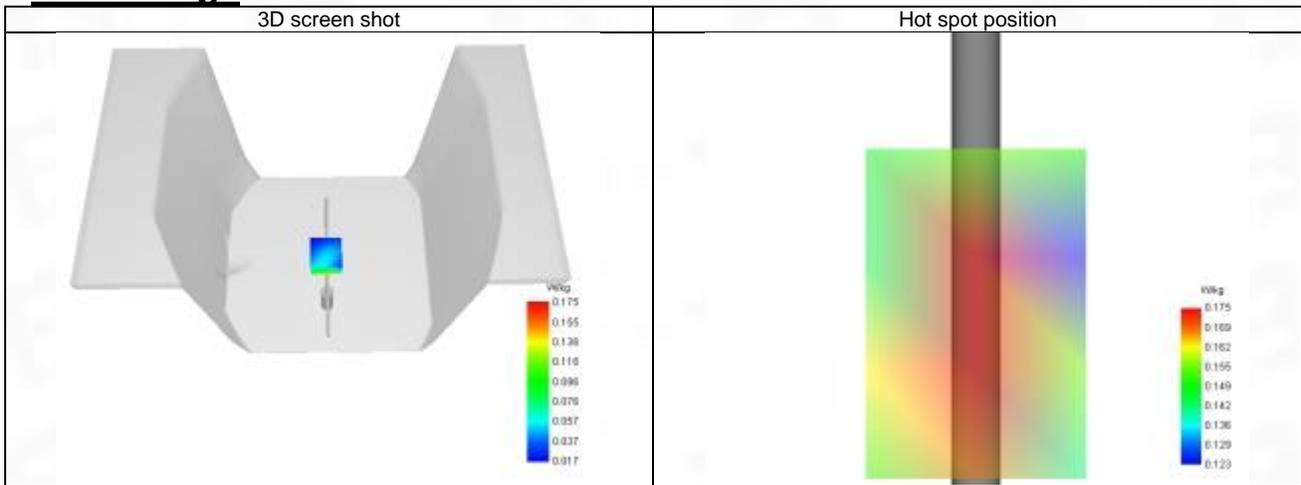
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.106 |
| SAR 1g (W/Kg) | 0.163 |
| Variation (%) | -3.390 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (1800 MHz)

System check at 1800 MHz

Date of measurement: 25/4/2023

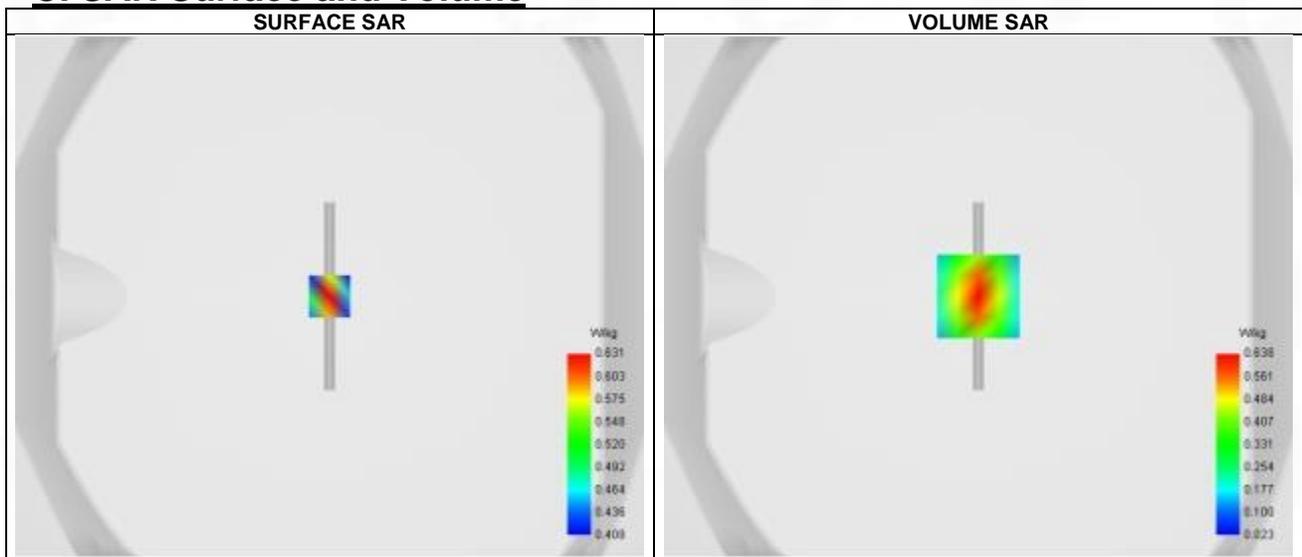
A. Experimental conditions.

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

B. Permittivity

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

C. SAR Surface and Volume



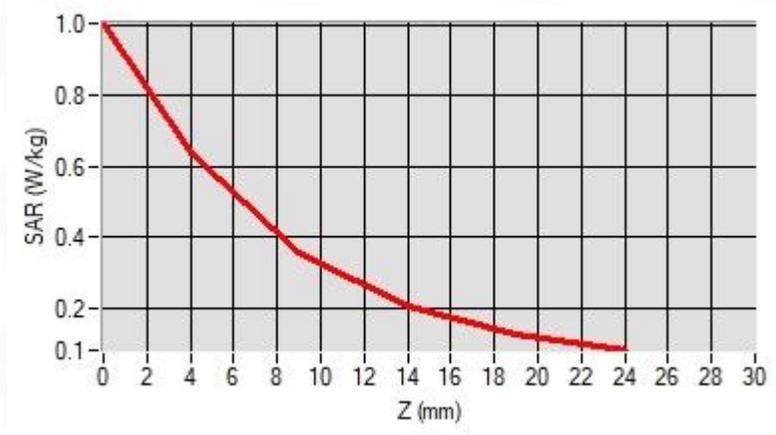
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.00 W/kg

D. SAR 1g & 10g

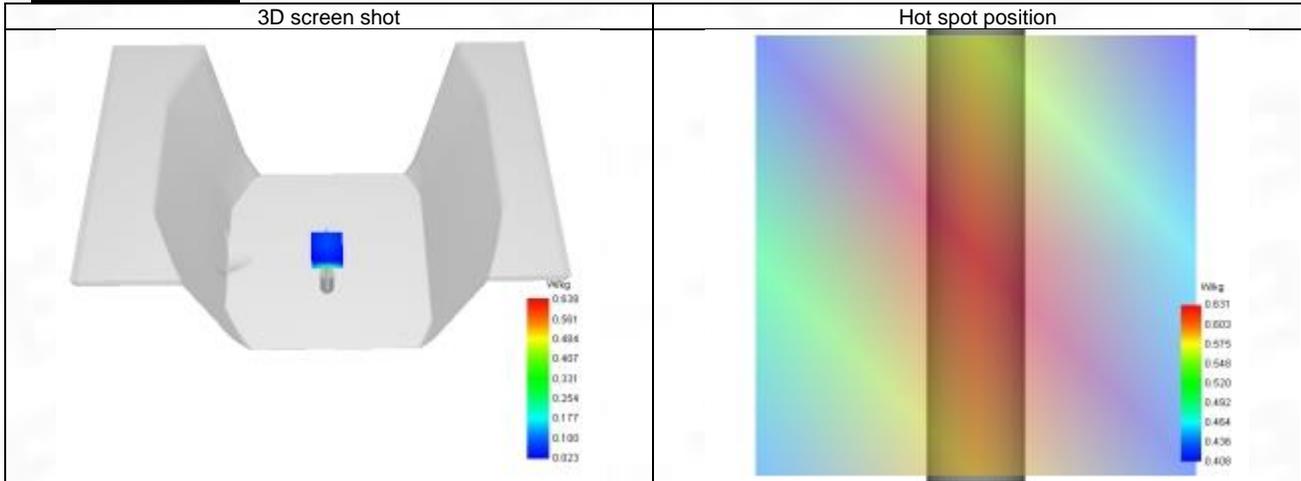
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.312 |
| SAR 1g (W/Kg) | 0.588 |
| Variation (%) | -0.250 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (1900 MHz)

System check at 1900 MHz

Date of measurement: 25/4/2023

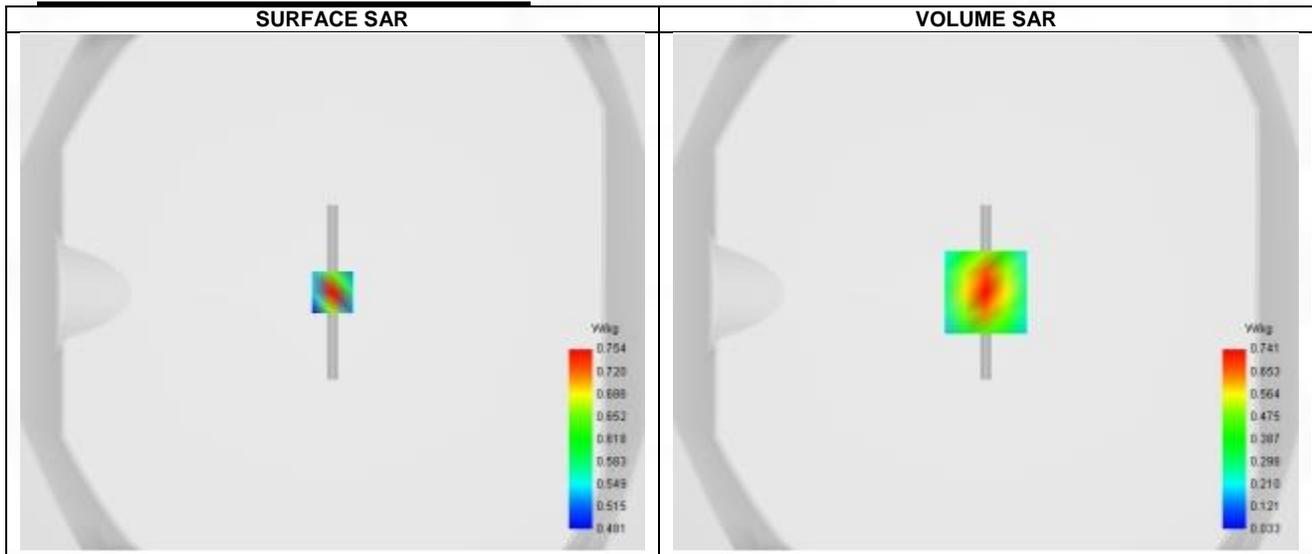
A. Experimental conditions.

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

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1900.000 |
| Relative permittivity (real part) | 39.880 |
| Relative permittivity (imaginary part) | 13.380 |
| Conductivity (S/m) | 1.410 |

C. SAR Surface and Volume



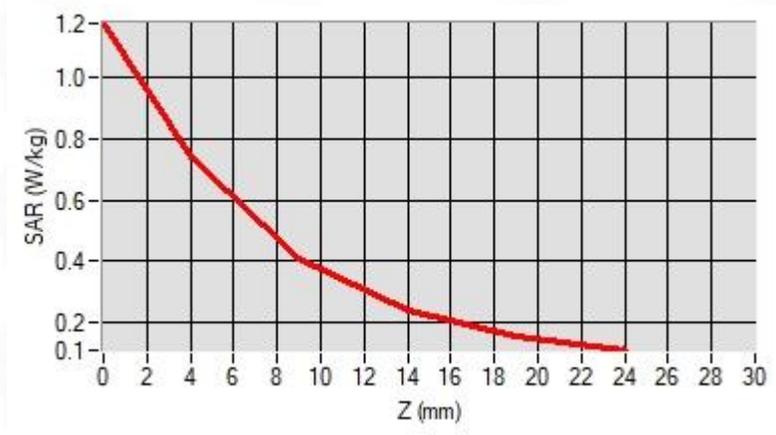
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.18 W/kg

D. SAR 1g & 10g

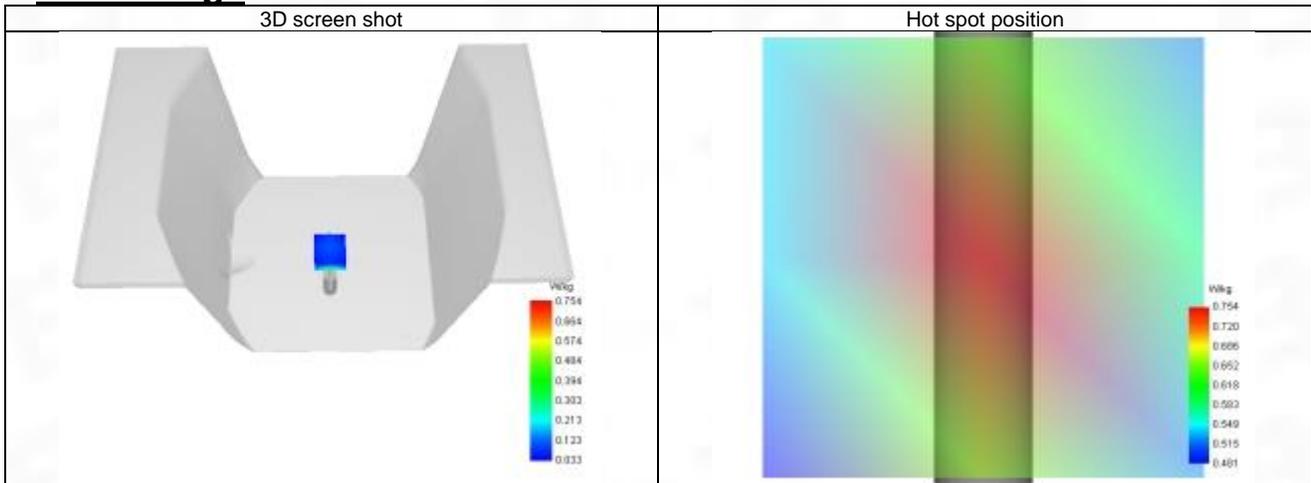
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.322 |
| SAR 1g (W/Kg) | 0.630 |
| Variation (%) | -2.080 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (2450 MHz)

System check at 2450 MHz

Date of measurement: 26/4/2023

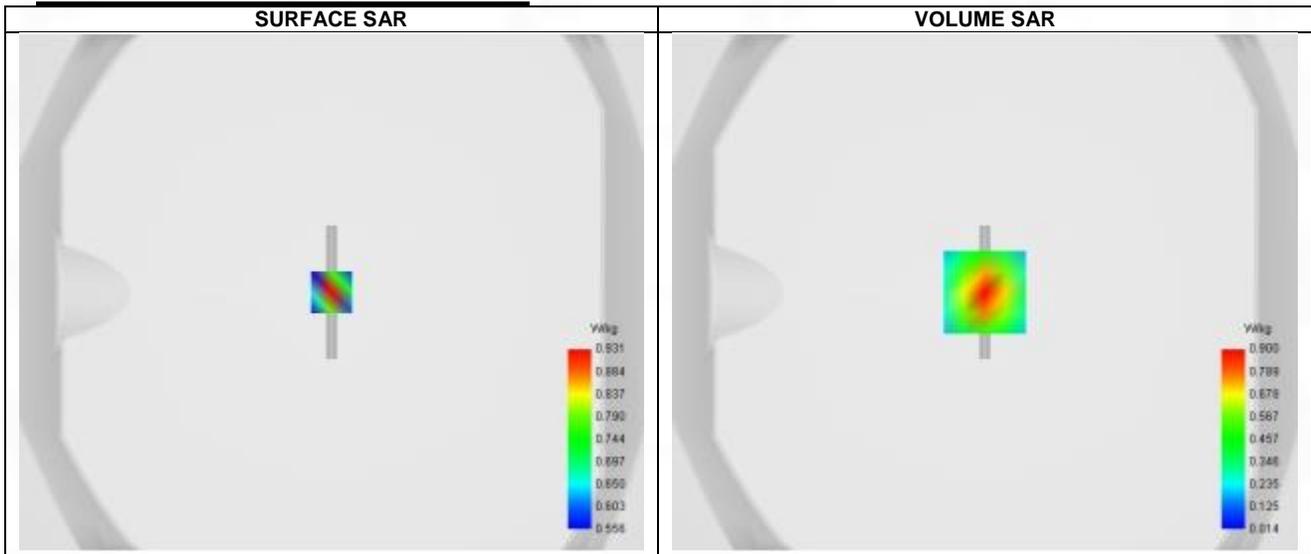
A. Experimental conditions.

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

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 2450.000 |
| Relative permittivity (real part) | 39.080 |
| Relative permittivity (imaginary part) | 13.340 |
| Conductivity (S/m) | 1.810 |

C. SAR Surface and Volume



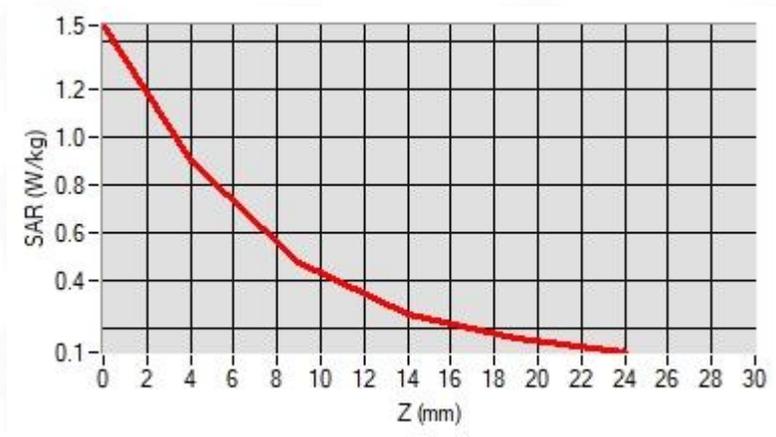
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 1.47 W/kg

D. SAR 1g & 10g

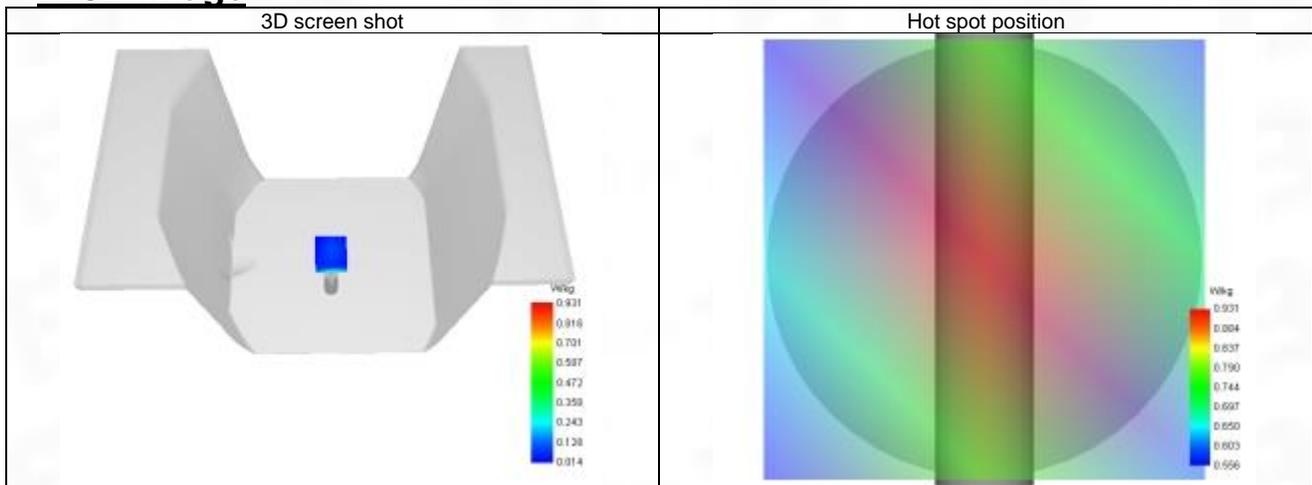
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.352 |
| SAR 1g (W/Kg) | 0.793 |
| Variation (%) | -2.570 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (2600 MHz)

System check at 2600 MHz

Date of measurement: 26/4/2023

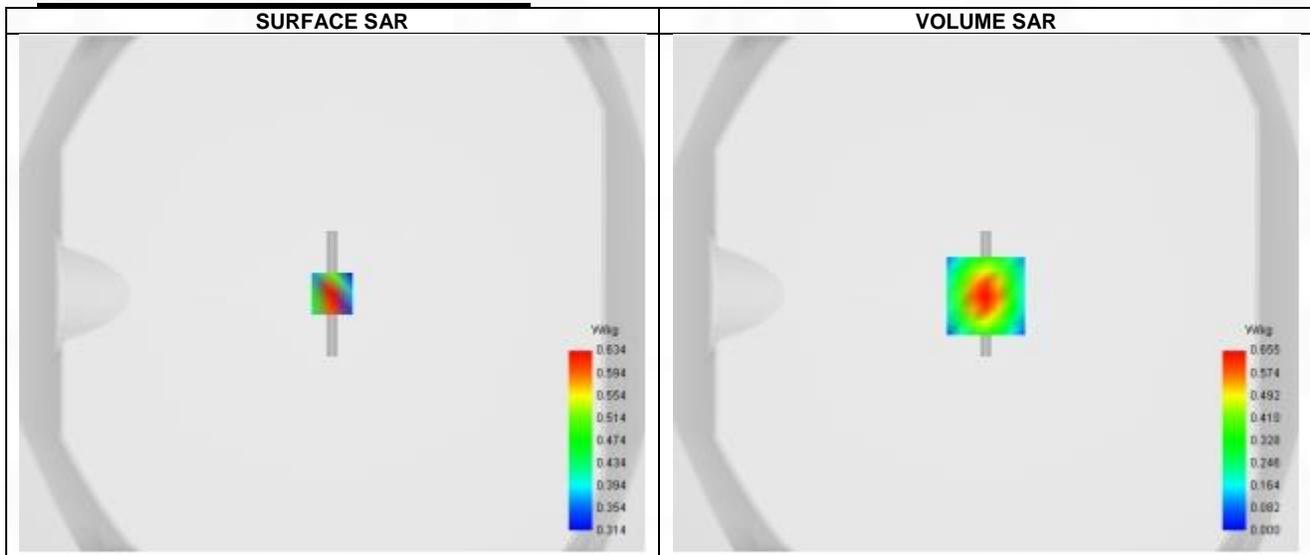
A. Experimental conditions.

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

B. Permittivity

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

C. SAR Surface and Volume



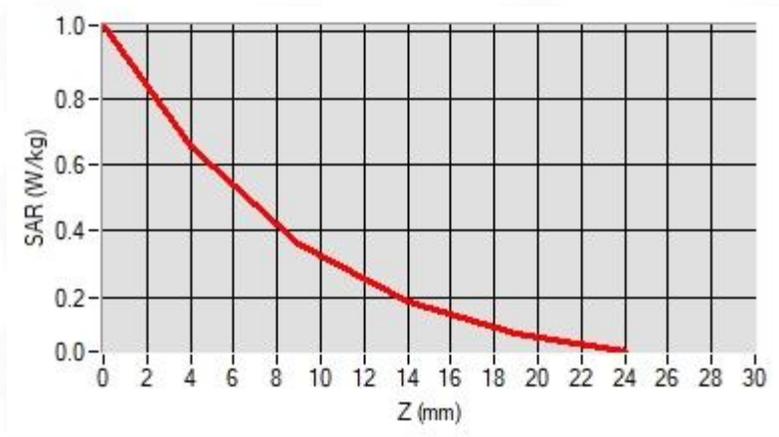
Maximum location: X=0.00, Y=-1.00 ; SAR Peak: 1.02 W/kg

D. SAR 1g & 10g

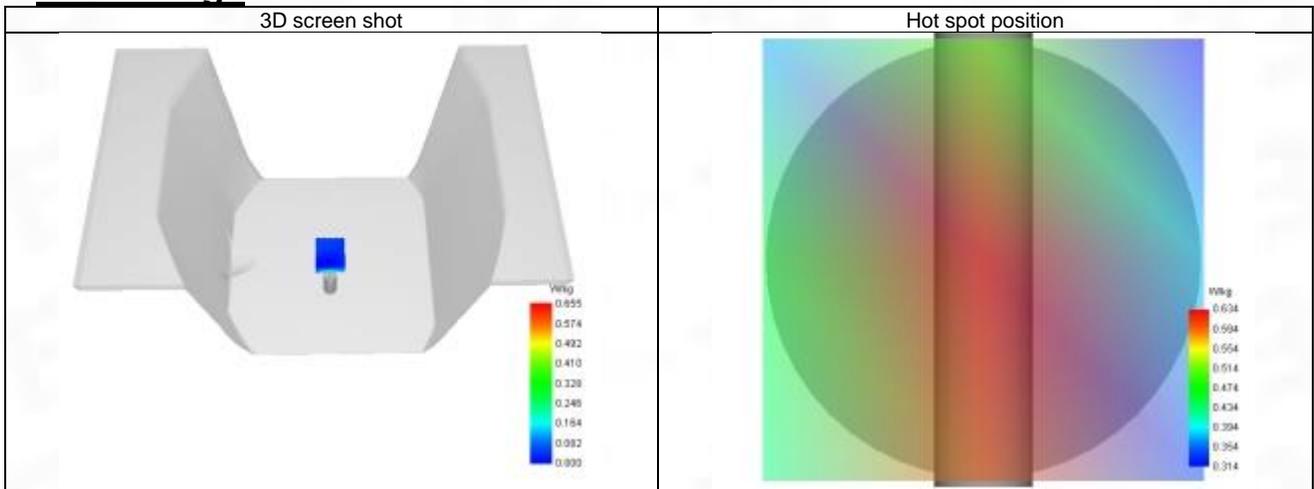
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.421 |
| SAR 1g (W/Kg) | 0.866 |
| Variation (%) | 2.980 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (5200 MHz)

System check at 5200 MHz

Date of measurement: 26/4/2023

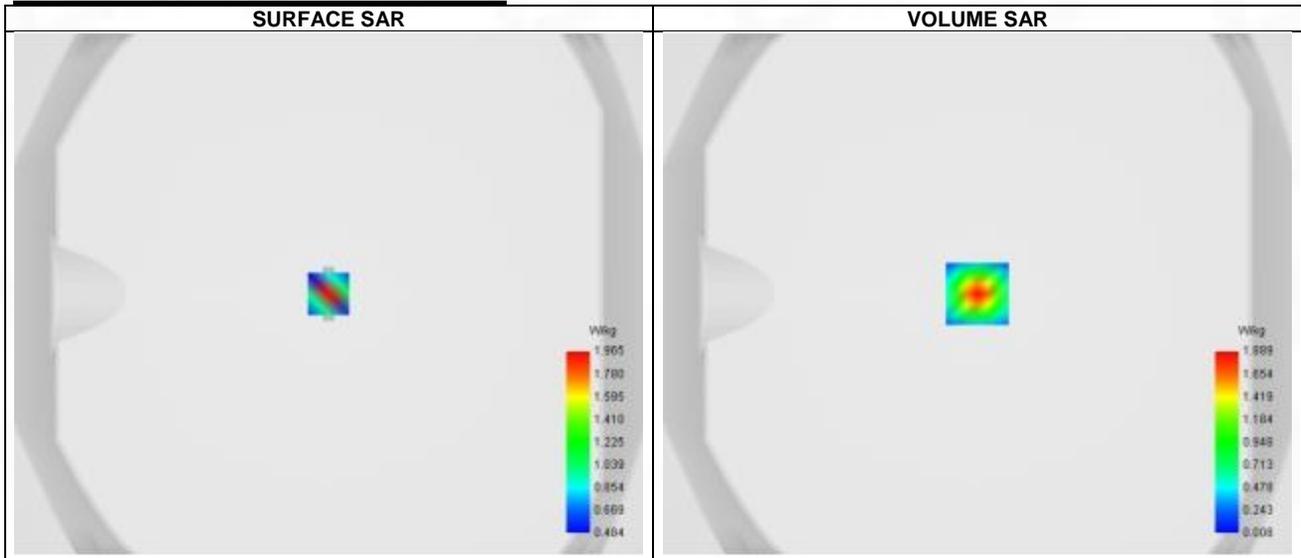
A. Experimental conditions.

| | |
|-----------------|--|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.24 |
| Area Scan | dx=8mm dy=8mm, Adaptive 1 max |
| Zoom Scan | 7x7x12, dx=4mm dy=4mm dz=5mm, Complete |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW5200 |
| Channels | Middle |
| Signal | CW |

B. Permittivity

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

C. SAR Surface and Volume



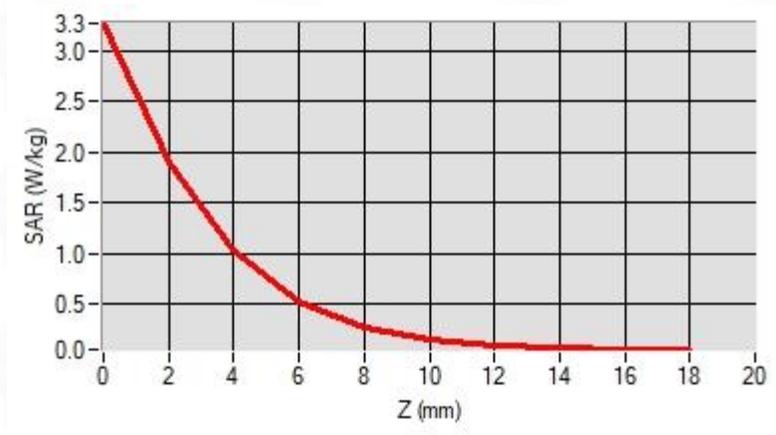
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.38 W/kg

D. SAR 1g & 10g

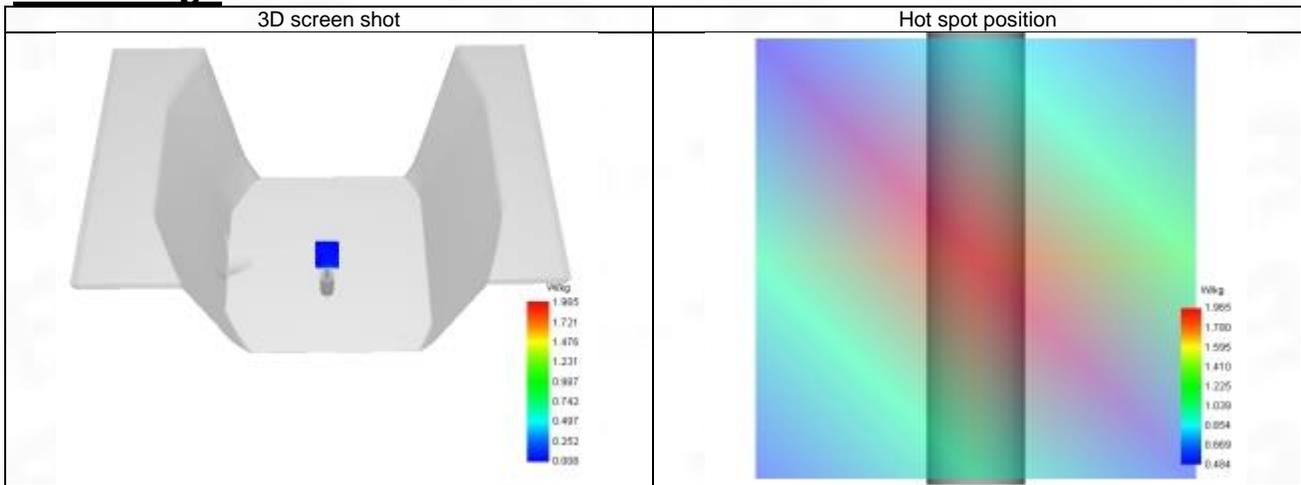
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.294 |
| SAR 1g (W/Kg) | 0.998 |
| Variation (%) | -3.400 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



System Performance Check Data (5400 MHz)

System check at 5400 MHz

Date of measurement: 26/4/2023

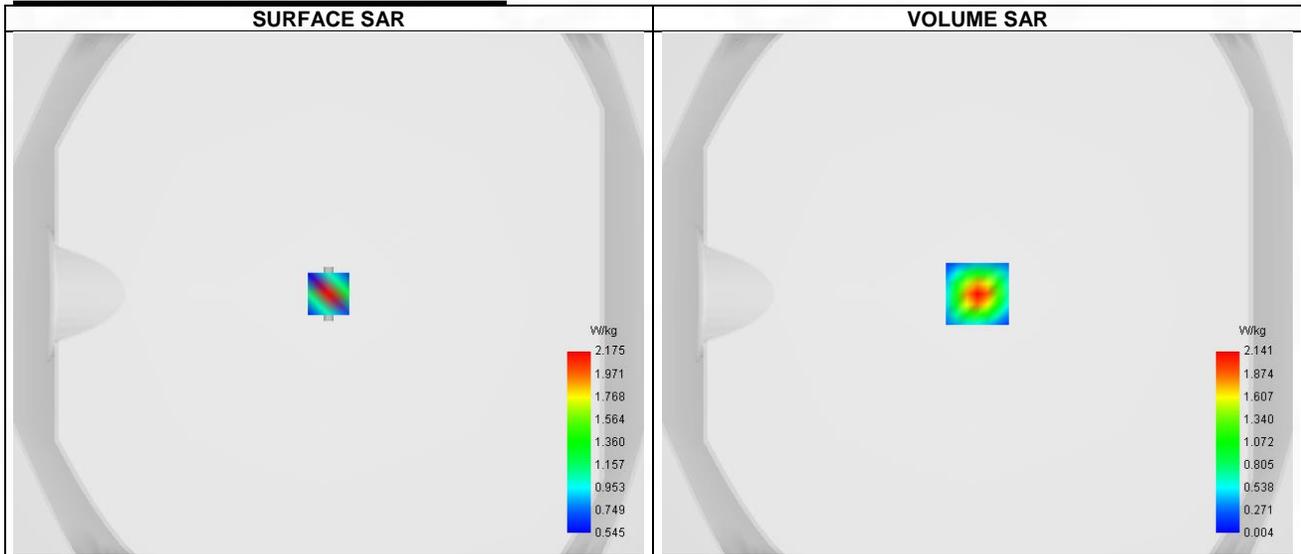
A. Experimental conditions.

| | |
|-----------------|--------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.12 |
| Area Scan | dx=8mm dy=8mm, Adaptive 1 max |
| Zoom Scan | 7x7x12,dx=4mm dy=4mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW5400 |
| Channels | Middle |
| Signal | CW |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5400.000 |
| Relative permittivity (real part) | 35.800 |
| Relative permittivity (imaginary part) | 16.200 |
| Conductivity (S/m) | 4.860 |

C. SAR Surface and Volume



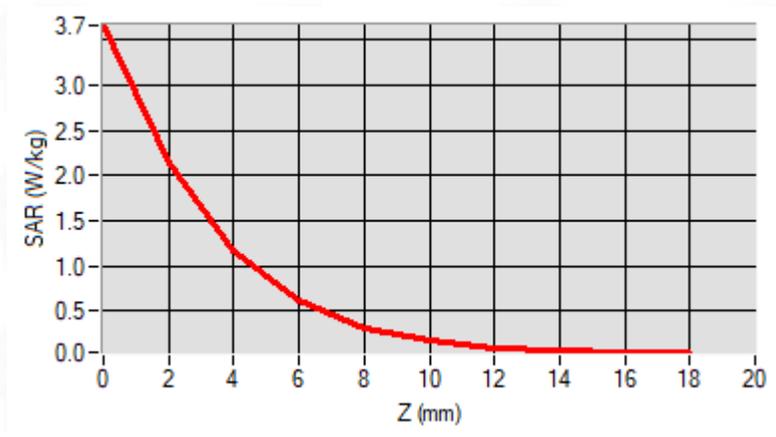
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.78 W/kg

D. SAR 1g & 10g

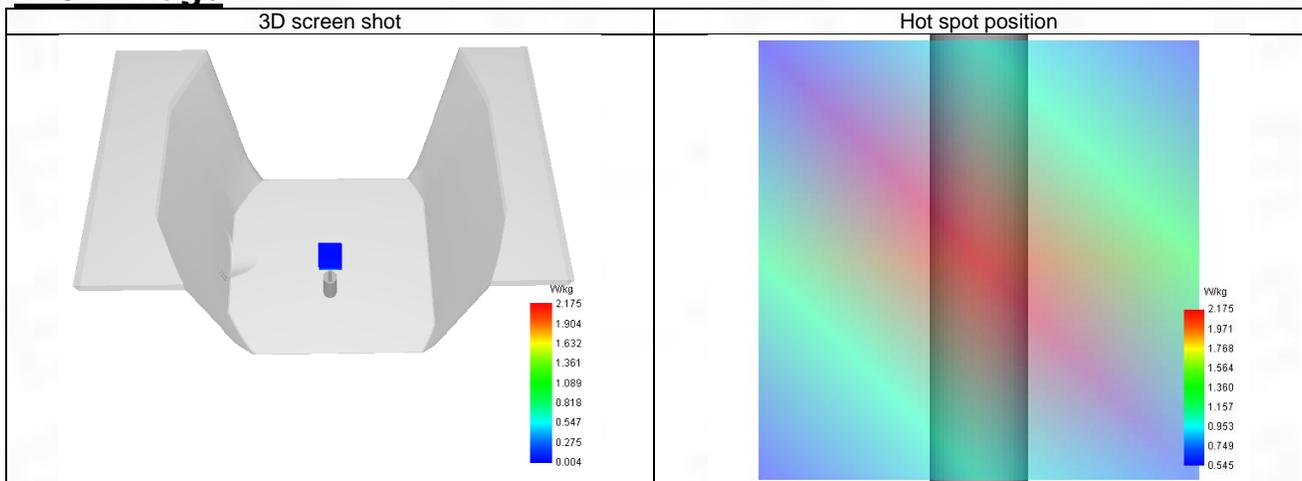
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.327 |
| SAR 1g (W/Kg) | 1.120 |
| Variation (%) | -4.610 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
| SAR (W/Kg) | 3.660 | 2.141 | 1.177 | 0.614 | 0.317 | 0.169 | 0.098 | 0.065 | 0.050 |



F. 3D Image



System Performance Check Data (5600 MHz)

System check at 5600 MHz

Date of measurement: 26/4/2023

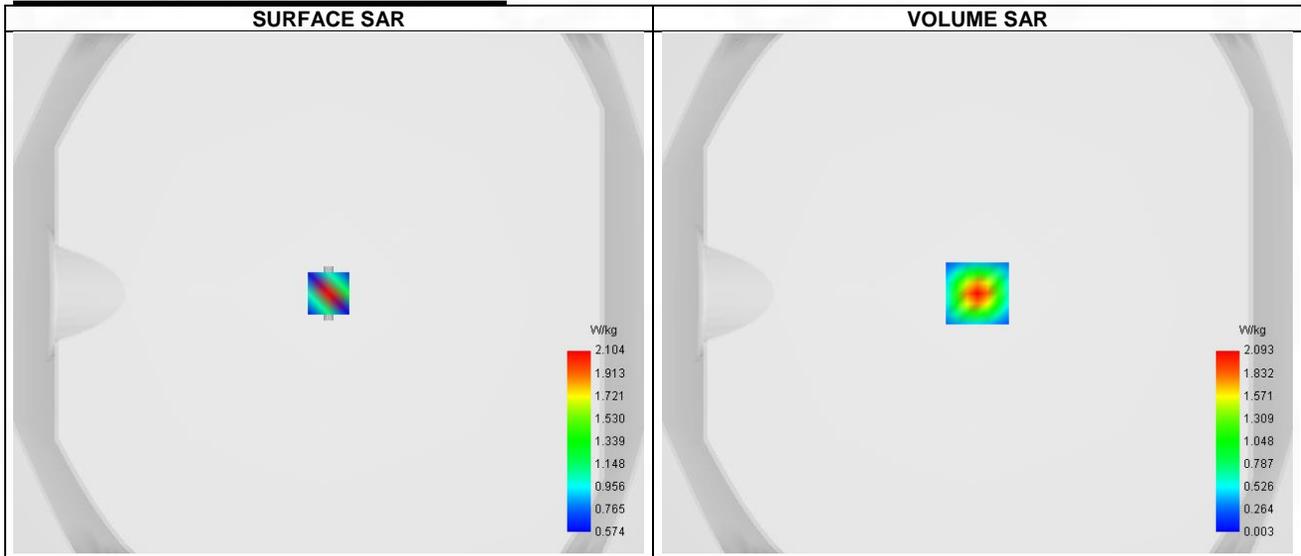
A. Experimental conditions.

| | |
|-----------------|--------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.18 |
| Area Scan | dx=8mm dy=8mm, Adaptive 1 max |
| Zoom Scan | 7x7x12,dx=4mm dy=4mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW5600 |
| Channels | Middle |
| Signal | CW |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5600.000 |
| Relative permittivity (real part) | 35.500 |
| Relative permittivity (imaginary part) | 16.300 |
| Conductivity (S/m) | 5.071 |

C. SAR Surface and Volume



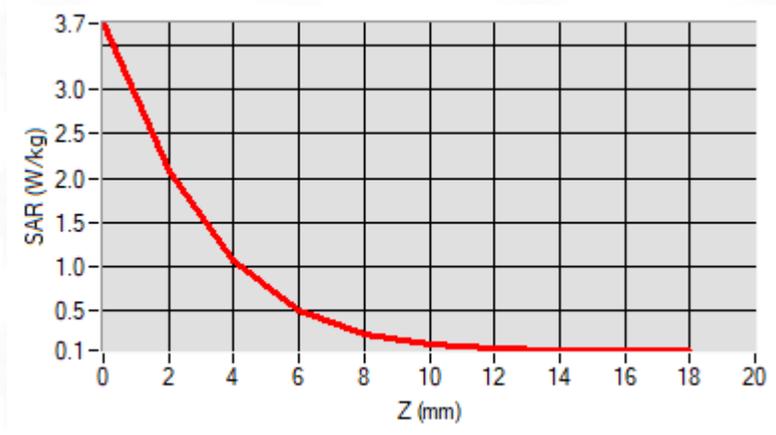
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 3.90 W/kg

D. SAR 1g & 10g

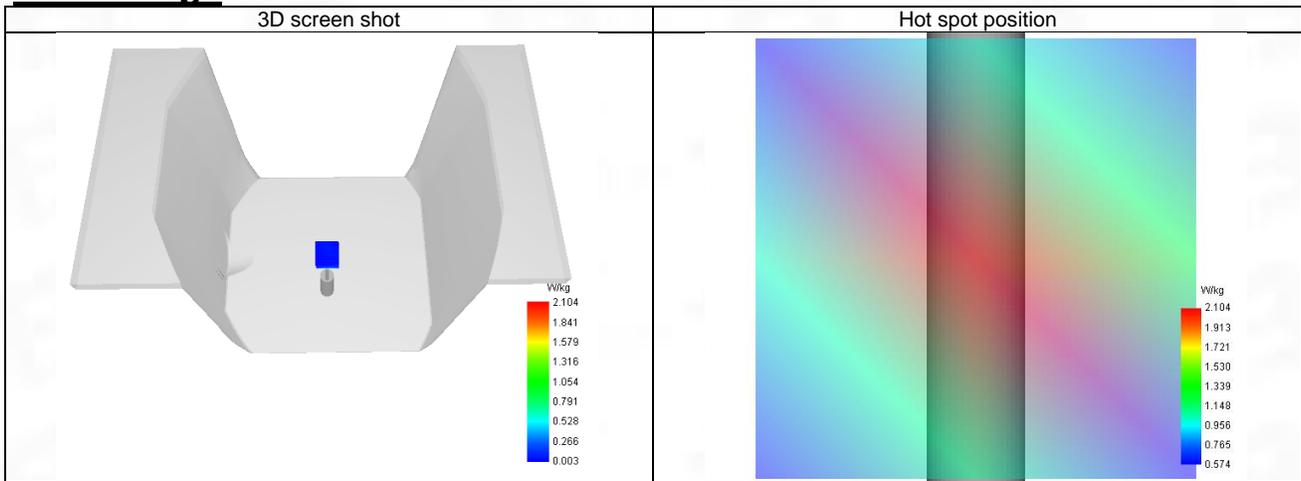
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.314 |
| SAR 1g (W/Kg) | 1.084 |
| Variation (%) | -0.190 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | | | | | |
|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 4.00 | 6.00 | 8.00 | 10.00 | 12.00 | 14.00 | 16.00 |
| SAR (W/Kg) | 3.748 | 2.093 | 1.074 | 0.514 | 0.243 | 0.122 | 0.072 | 0.056 | 0.056 |



F. 3D Image



System Performance Check Data (5800 MHz)

System check at 5800 MHz

Date of measurement: 26/4/2023

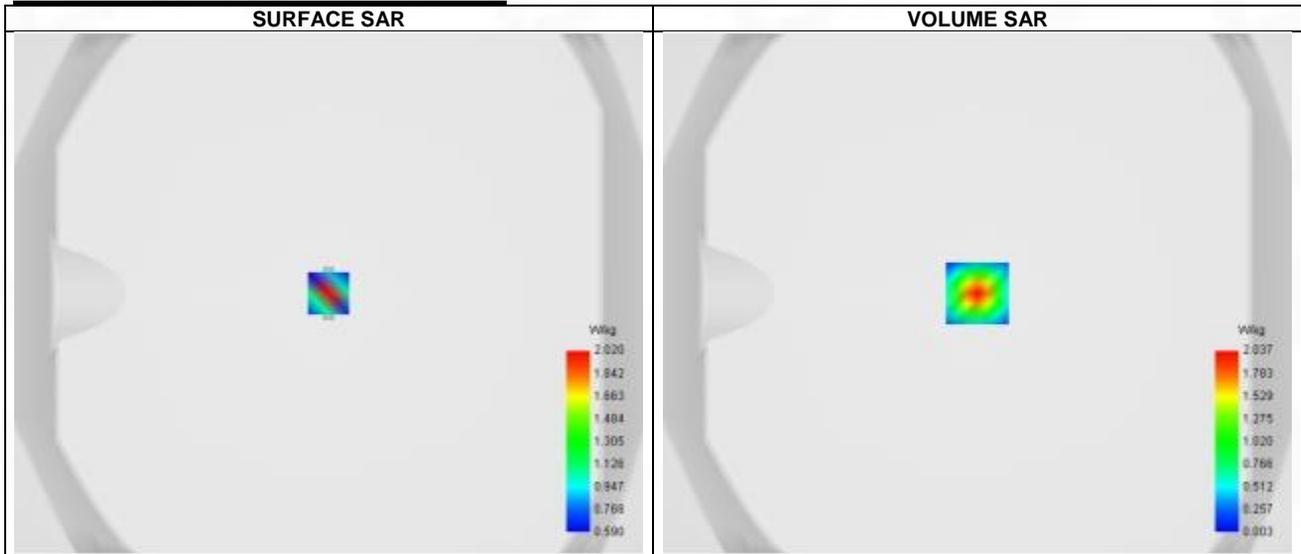
A. Experimental conditions.

| | |
|-----------------|--------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.04 |
| Area Scan | dx=8mm dy=8mm, Adaptive 1 max |
| Zoom Scan | 7x7x12,dx=4mm dy=4mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Dipole |
| Band | CW5800 |
| Channels | Middle |
| Signal | CW |

B. Permittivity

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

C. SAR Surface and Volume



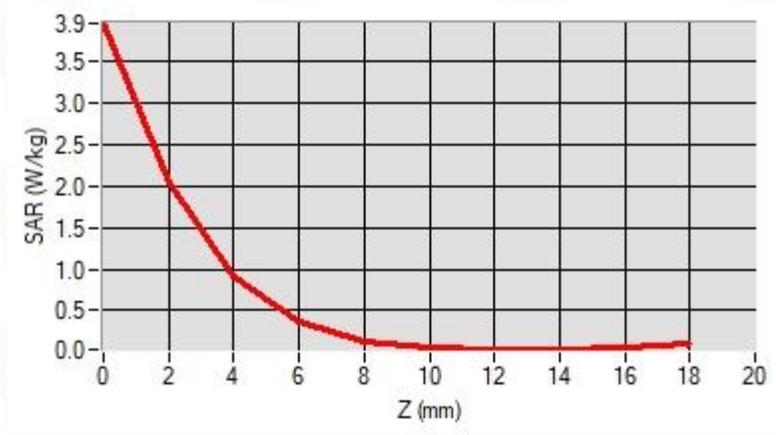
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 4.17 W/kg

D. SAR 1g & 10g

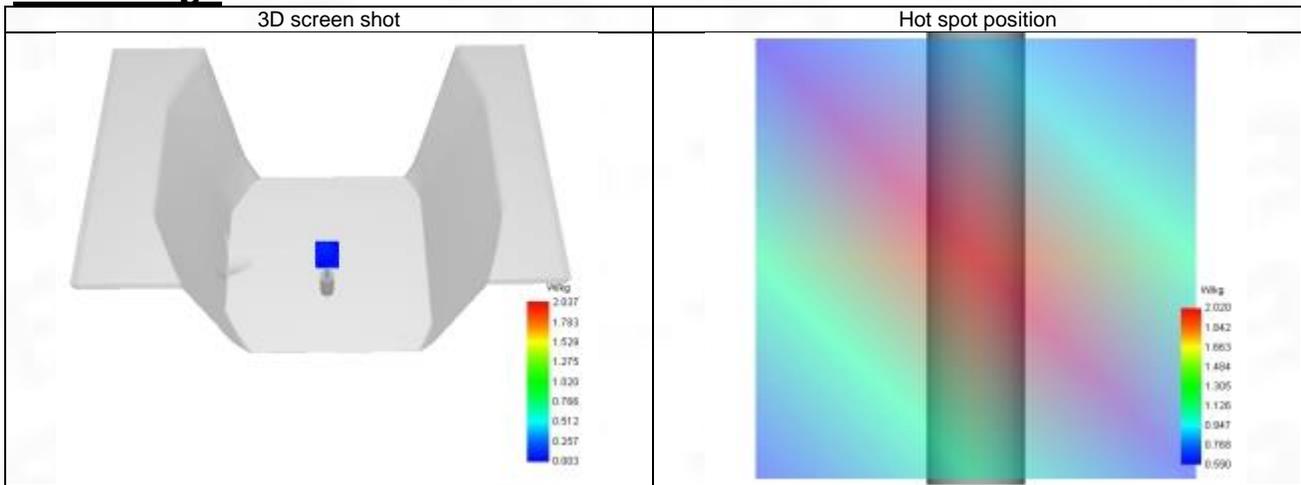
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.280 |
| SAR 1g (W/Kg) | 1.023 |
| Variation (%) | 0.490 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

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



F. 3D Image



ANNEX C Test Data

1-Head with front position in dist. 0mm on Channel 190 in GSM850 voice

SAR Measurement at GSM850 (Cheek, Left)

Date of measurement: 24/4/2023

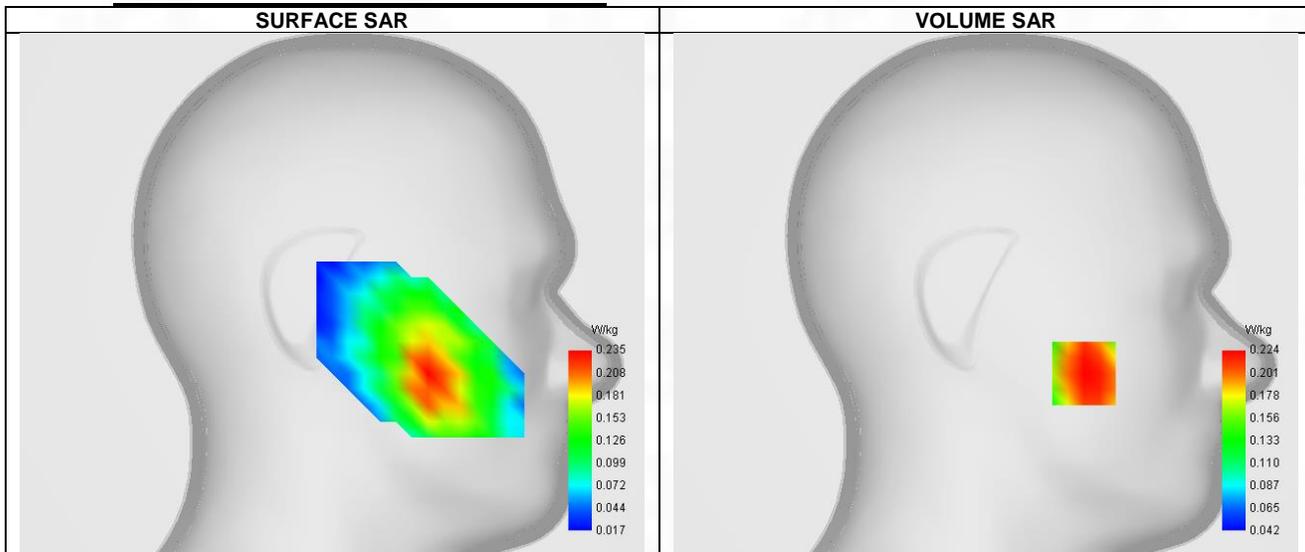
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.68 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Left head |
| Device Position | Cheek |
| Band | GSM850 |
| Channels | Middle (190) |
| Signal | TDMA (GSM) |
| Modulation | GMSK |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 836.600 |
| Relative permittivity (real part) | 41.408 |
| Relative permittivity (imaginary part) | 19.492 |
| Conductivity (S/m) | 0.871 |

C. SAR Surface and Volume



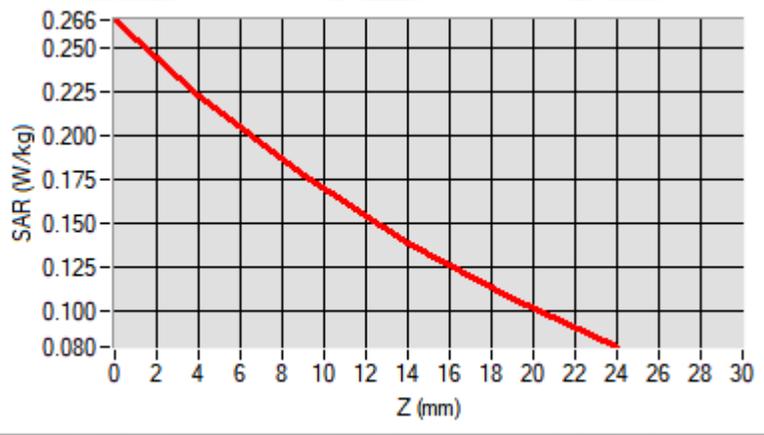
Maximum location: X=-49.00, Y=-40.00 ; SAR Peak: 0.28 W/kg

D. SAR 1g & 10g

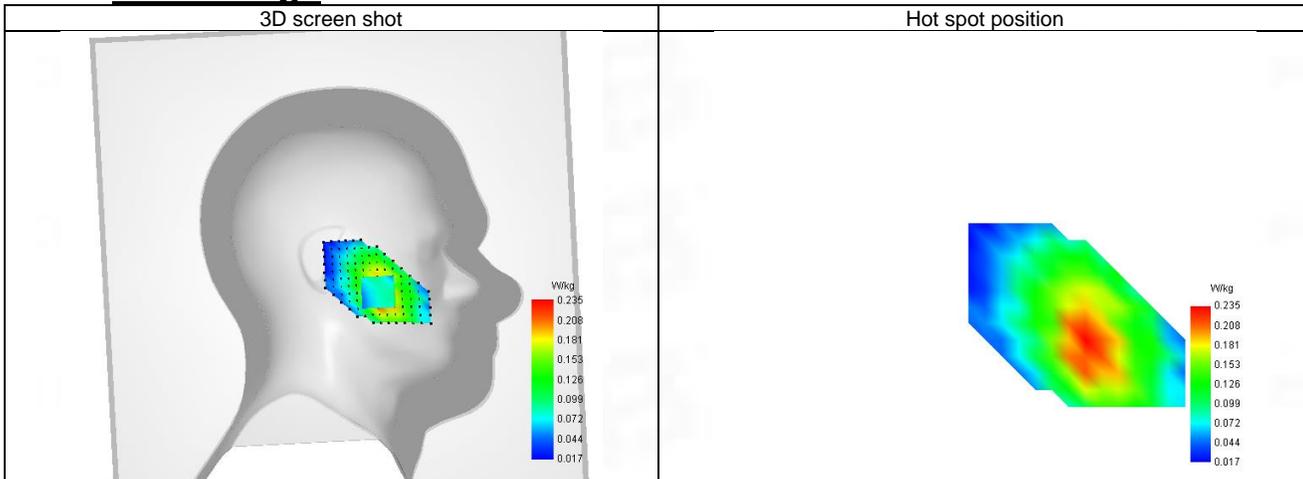
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.166 |
| SAR 1g (W/Kg) | 0.226 |
| Variation (%) | 2.650 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.266 | 0.224 | 0.178 | 0.139 | 0.107 |



F. 3D Image



2-Body with back position in dist. 10mm on Channel 190 in GPRS850+3slots

SAR Measurement at GPRS850 (Body, Validation Plane)

Date of measurement: 24/4/2023

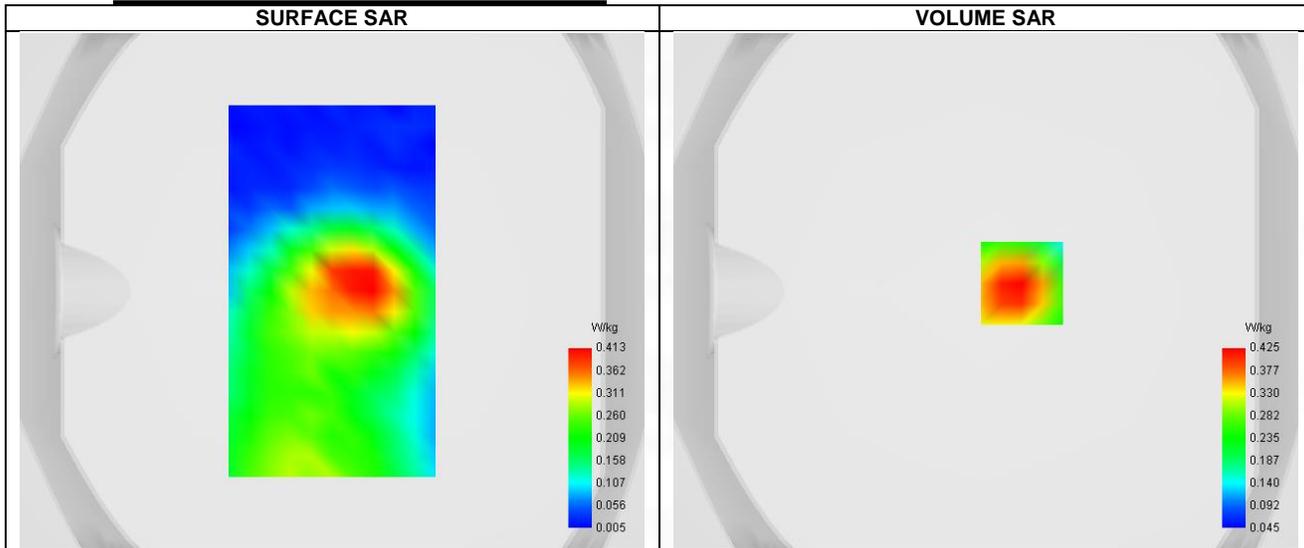
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.68 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | GPRS850 |
| Channels | Middle (190) |
| Signal | TDMA (GPRS) |
| Modulation | GMSK (CS-1) |
| TX-slots | 3 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 836.600 |
| Relative permittivity (real part) | 41.408 |
| Relative permittivity (imaginary part) | 19.492 |
| Conductivity (S/m) | 0.871 |

C. SAR Surface and Volume



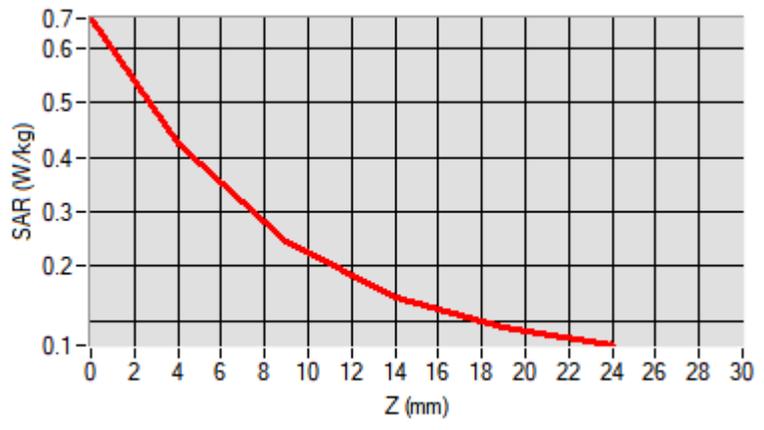
Maximum location: X=14.00, Y=3.00 ; SAR Peak: 0.66 W/kg

D. SAR 1g & 10g

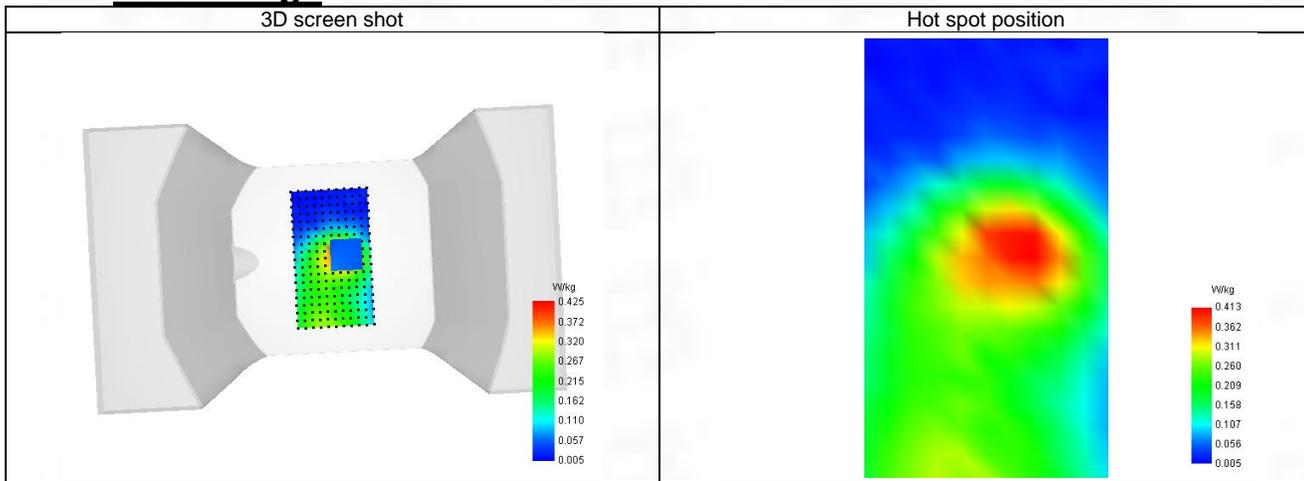
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.247 |
| SAR 1g (W/Kg) | 0.423 |
| Variation (%) | -3.280 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.654 | 0.425 | 0.244 | 0.143 | 0.089 |



F. 3D Image



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

SAR Measurement at GSM1900 (Cheek, Right)

Date of measurement: 25/4/2023

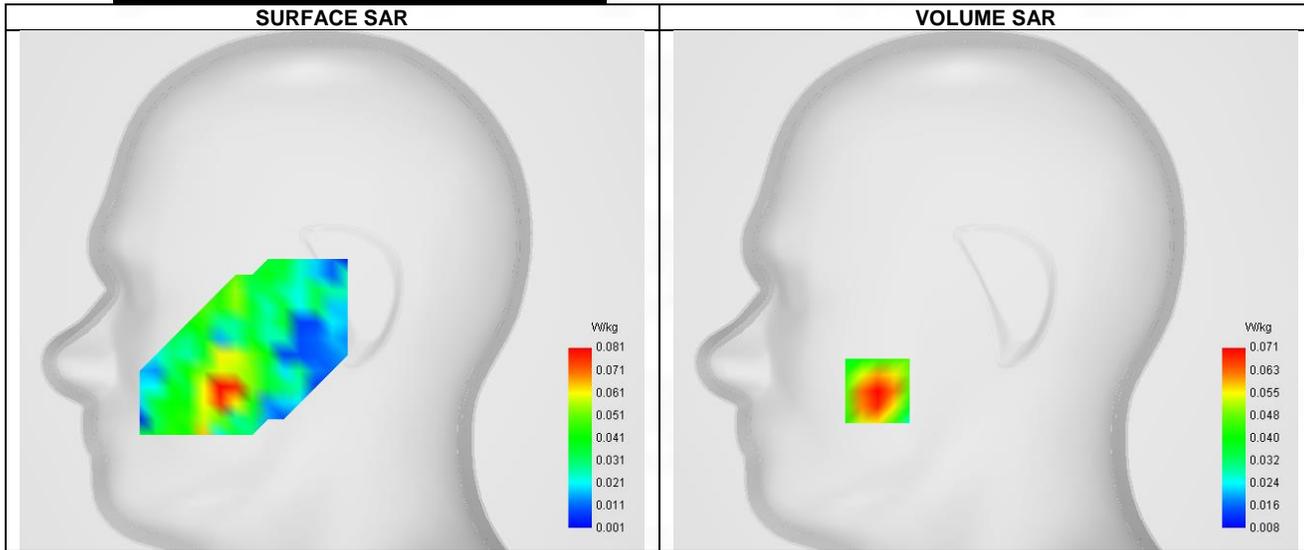
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | GSM1900 |
| Channels | Lower (512) |
| Signal | TDMA (GSM) |
| Modulation | GMSK |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1850.200 |
| Relative permittivity (real part) | 39.952 |
| Relative permittivity (imaginary part) | 13.308 |
| Conductivity (S/m) | 1.374 |

C. SAR Surface and Volume



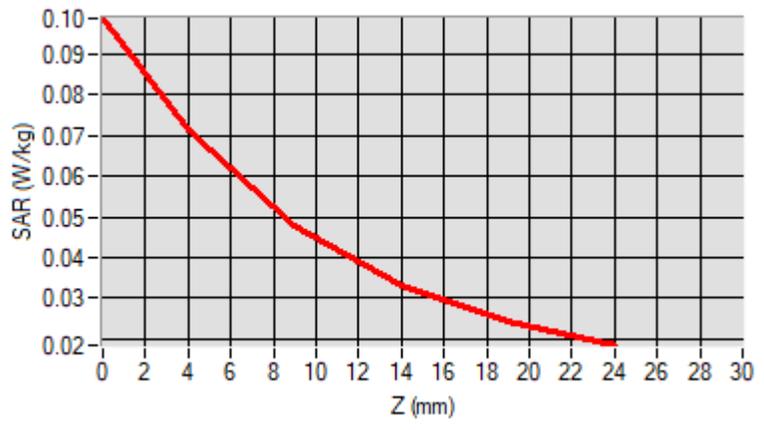
Maximum location: X=-54.00, Y=-50.00 ; SAR Peak: 0.10 W/kg

D. SAR 1g & 10g

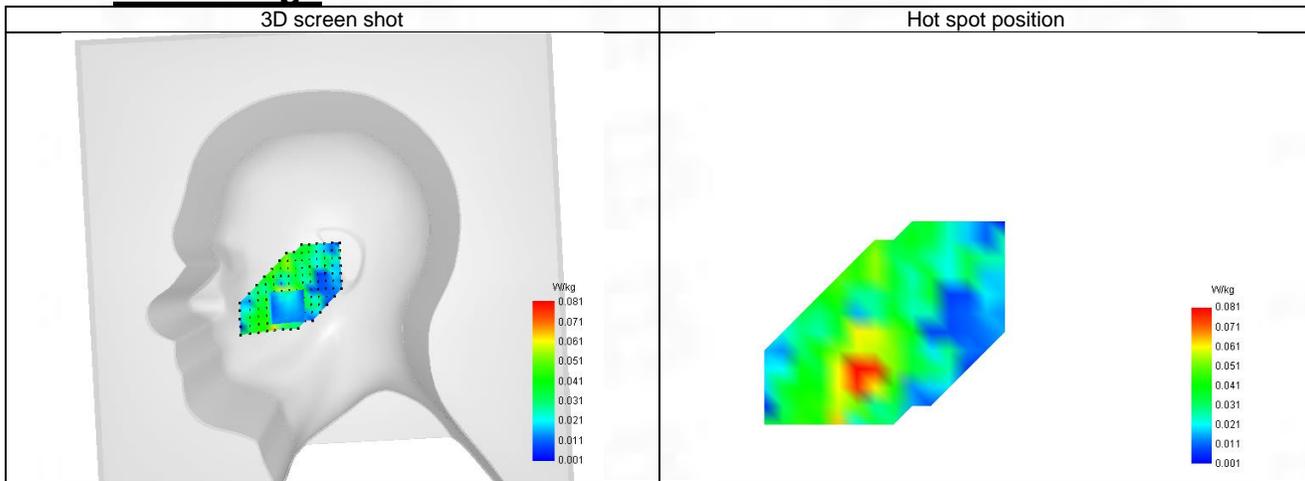
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.044 |
| SAR 1g (W/Kg) | 0.068 |
| Variation (%) | 2.610 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.099 | 0.071 | 0.048 | 0.033 | 0.024 |



F. 3D Image



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

SAR Measurement at GPRS1900 (Body, Validation Plane)

Date of measurement: 25/4/2023

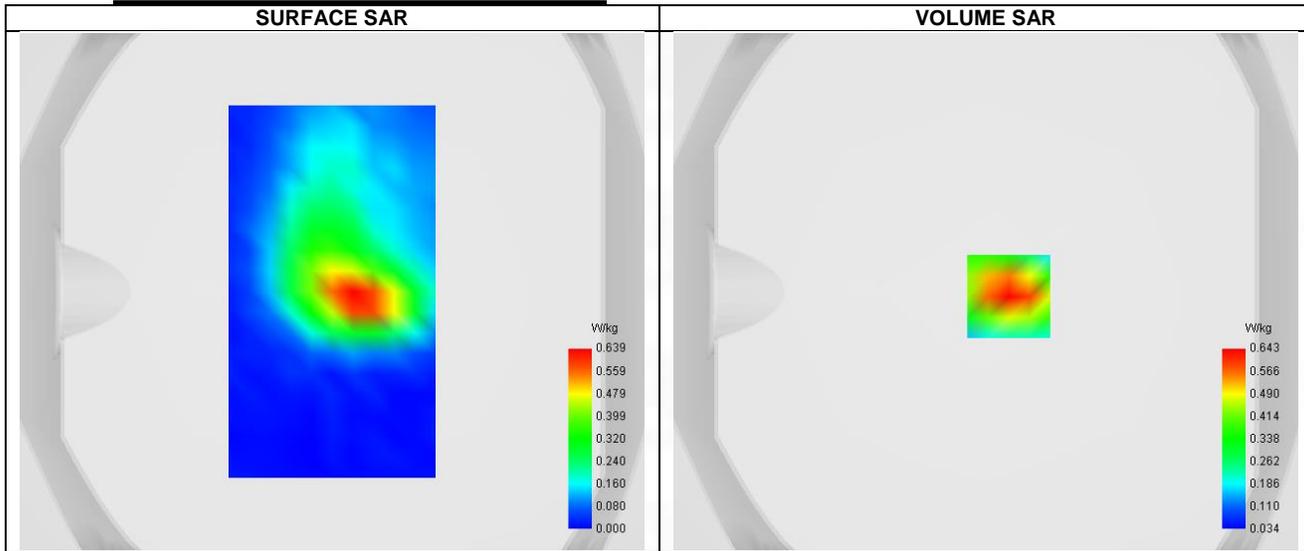
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.24 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | GPRS1900 |
| Channels | Lower (512) |
| Signal | TDMA (GPRS) |
| Modulation | GMSK (CS-1) |
| TX-slots | 3 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1850.200 |
| Relative permittivity (real part) | 39.952 |
| Relative permittivity (imaginary part) | 13.308 |
| Conductivity (S/m) | 1.374 |

C. SAR Surface and Volume

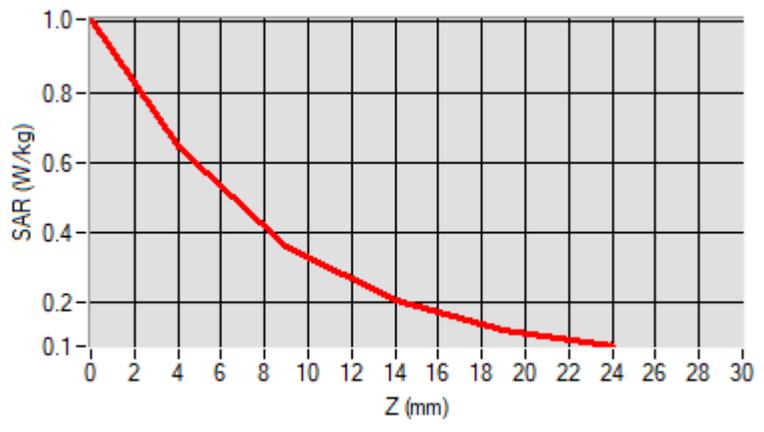


D. SAR 1g & 10g

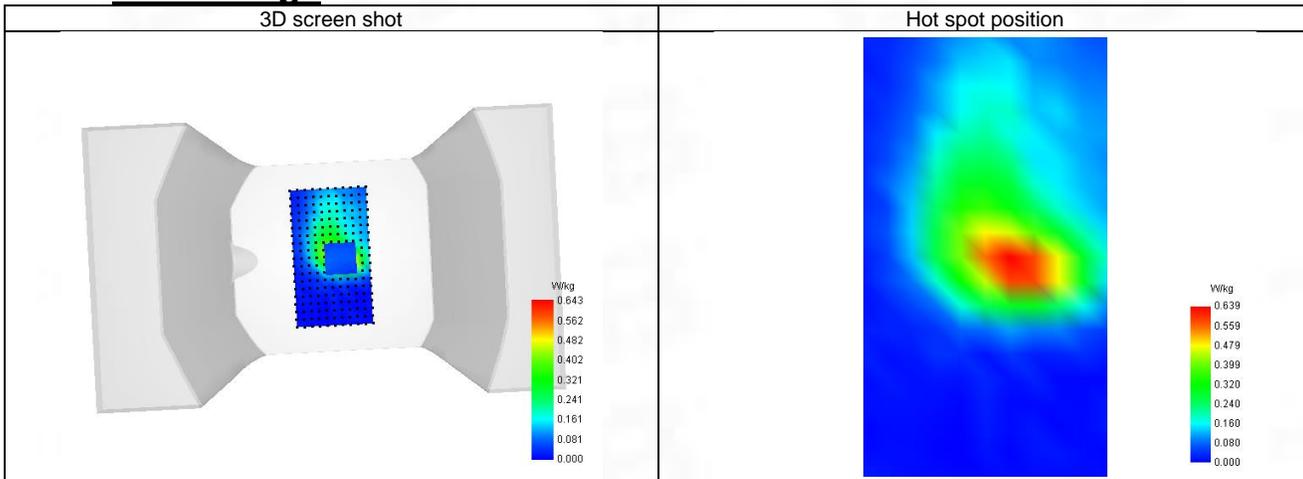
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.328 |
| SAR 1g (W/Kg) | 0.601 |
| Variation (%) | 1.980 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 1.008 | 0.643 | 0.358 | 0.203 | 0.123 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

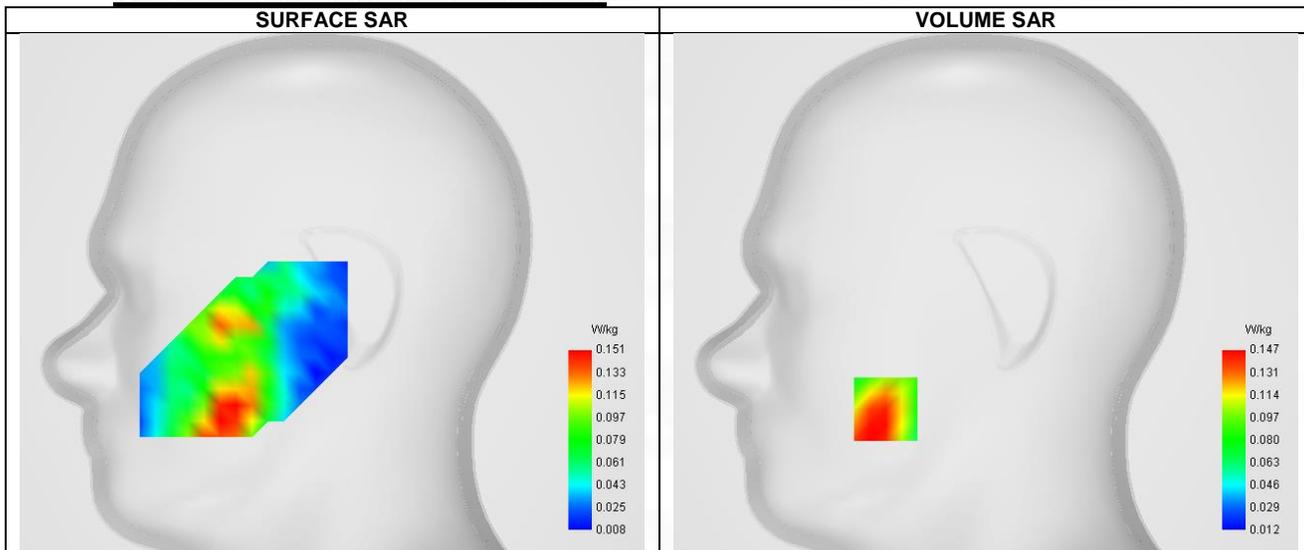
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | Band 2 (1900) |
| Channels | Lower (9262) |
| Signal | WCDMA |
| Mode | Release 99 |
| Connection Type | RMC, 12.2 kbps |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1852.400 |
| Relative permittivity (real part) | 39.949 |
| Relative permittivity (imaginary part) | 13.311 |
| Conductivity (S/m) | 1.375 |

C. SAR Surface and Volume



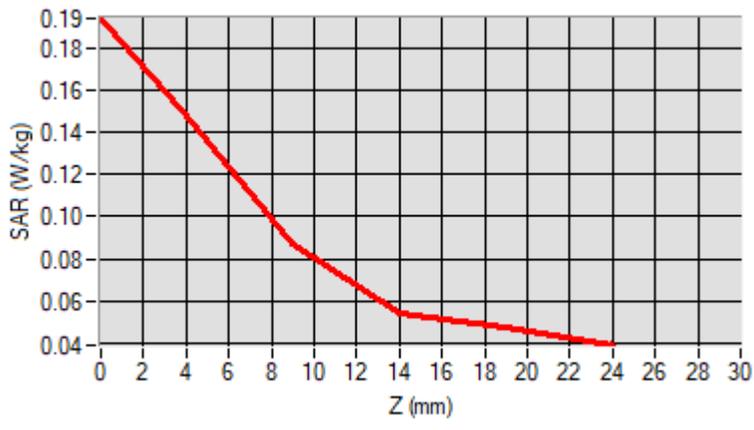
Maximum location: X=-50.00, Y=-58.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

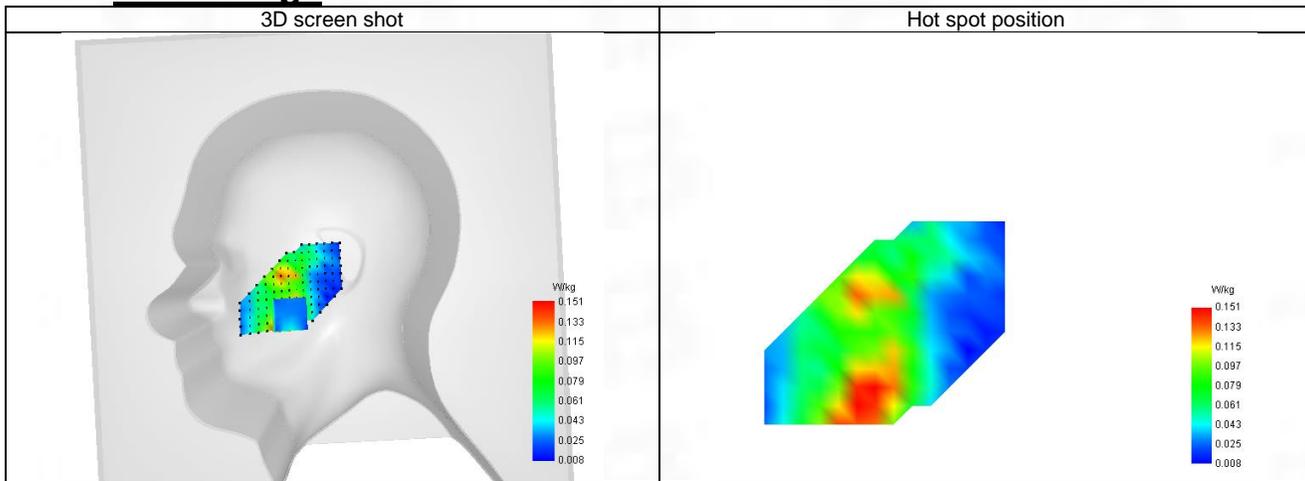
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.091 |
| SAR 1g (W/Kg) | 0.144 |
| Variation (%) | 2.210 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.194 | 0.147 | 0.087 | 0.054 | 0.048 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

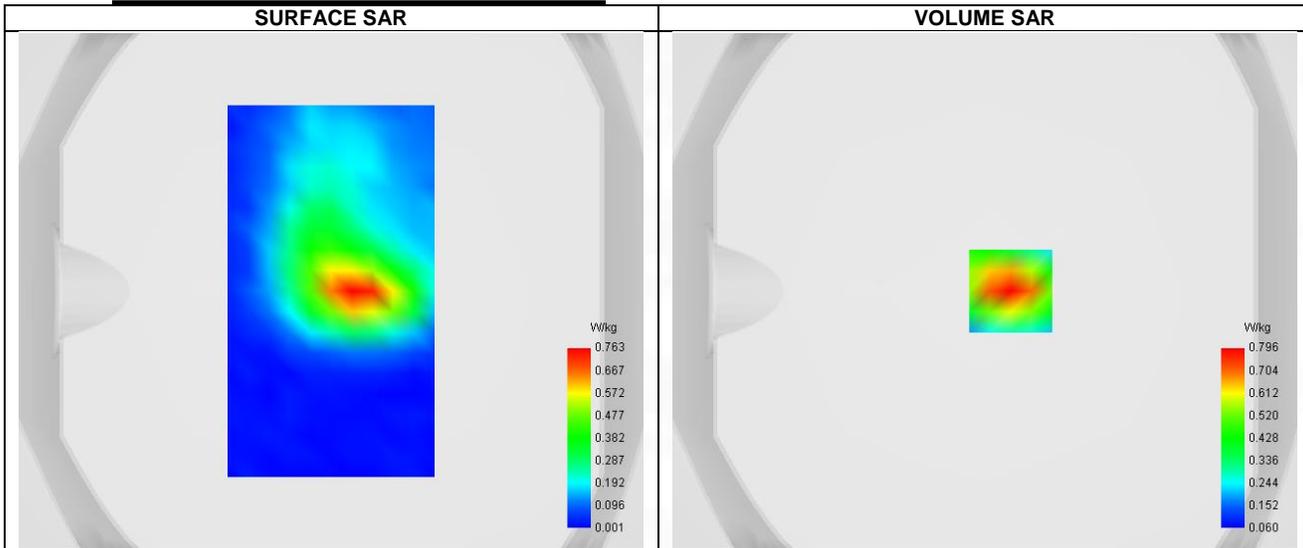
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | Band 2 (1900) |
| Channels | Lower (9262) |
| Signal | WCDMA |
| Mode | Release 99 |
| Connection Type | RMC, 12.2 kbps |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1852.400 |
| Relative permittivity (real part) | 39.949 |
| Relative permittivity (imaginary part) | 13.311 |
| Conductivity (S/m) | 1.375 |

C. SAR Surface and Volume



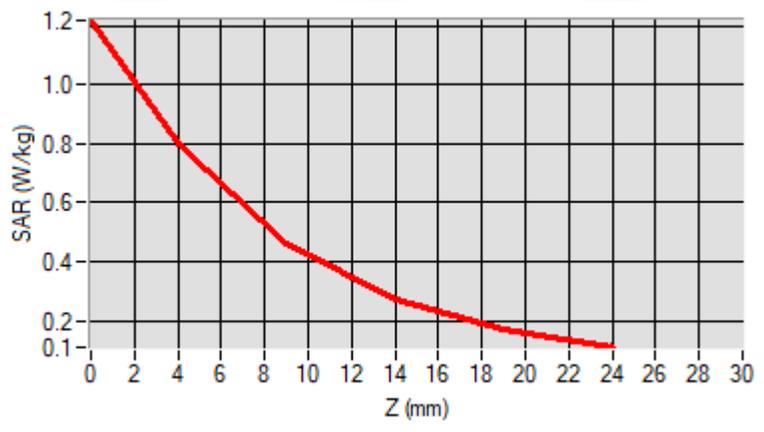
Maximum location: X=10.00, Y=0.00 ; SAR Peak: 1.23 W/kg

D. SAR 1g & 10g

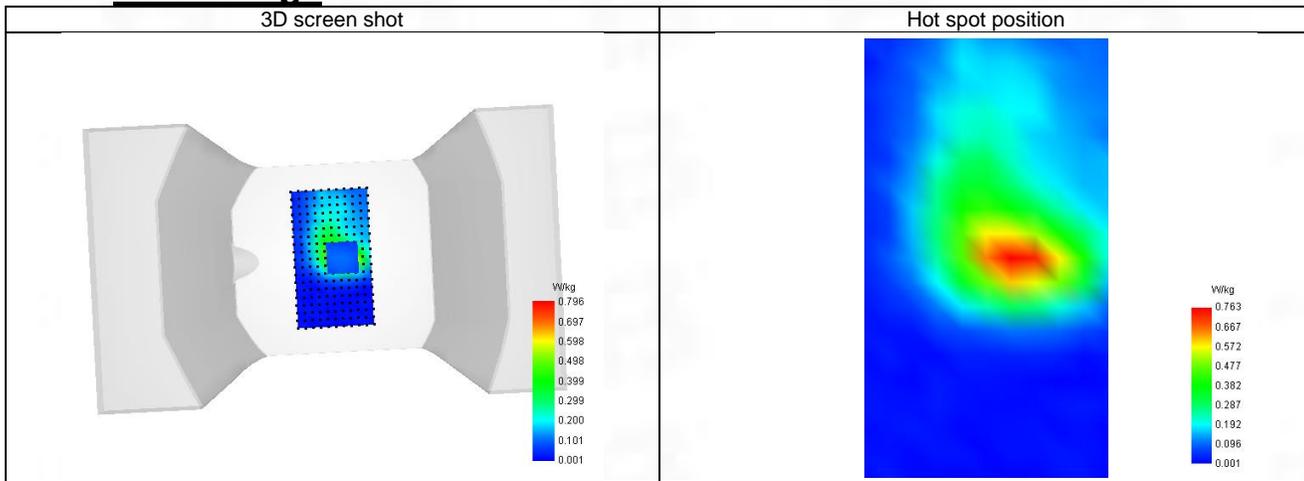
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.410 |
| SAR 1g (W/Kg) | 0.743 |
| Variation (%) | -2.730 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 1.219 | 0.796 | 0.461 | 0.273 | 0.172 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

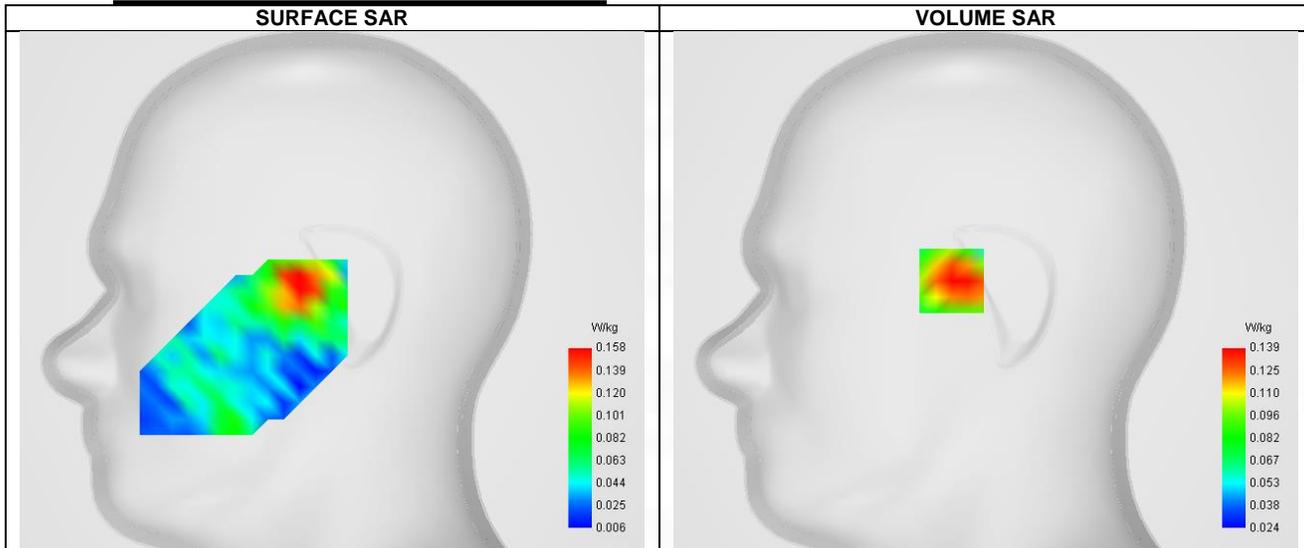
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.96 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | Band 4 (1700) |
| Channels | Middle (1413) |
| Signal | WCDMA |
| Mode | Release 99 |
| Connection Type | RMC, 12.2 kbps |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1732.600 |
| Relative permittivity (real part) | 40.015 |
| Relative permittivity (imaginary part) | 13.985 |
| Conductivity (S/m) | 1.335 |

C. SAR Surface and Volume



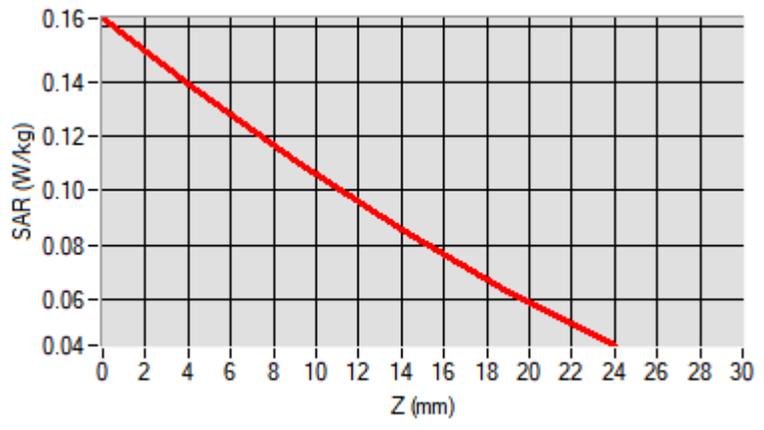
Maximum location: X=-17.00, Y=5.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

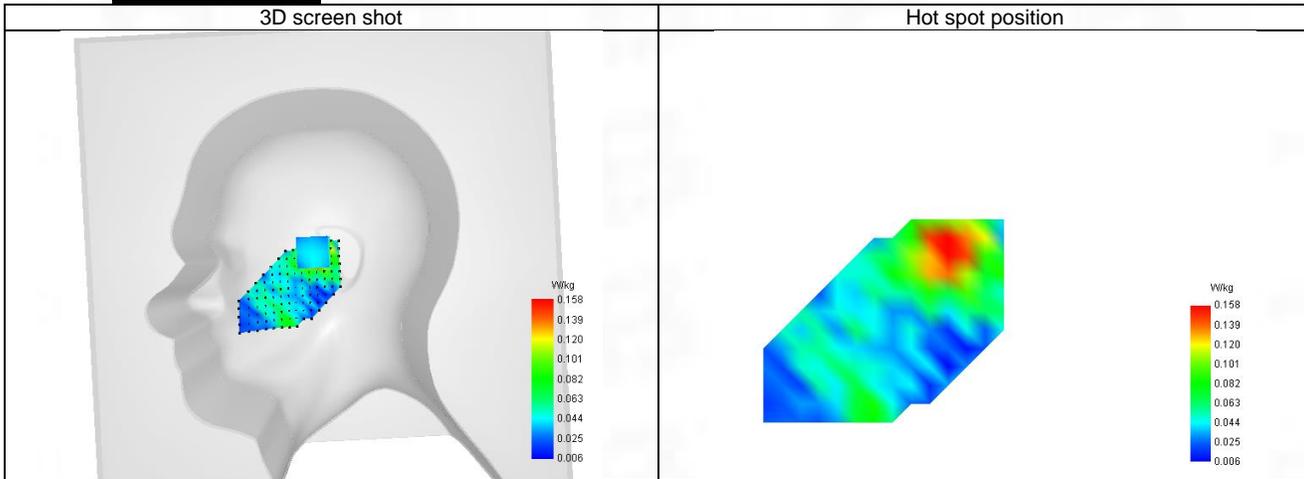
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.095 |
| SAR 1g (W/Kg) | 0.138 |
| Variation (%) | 1.080 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.163 | 0.139 | 0.111 | 0.086 | 0.063 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

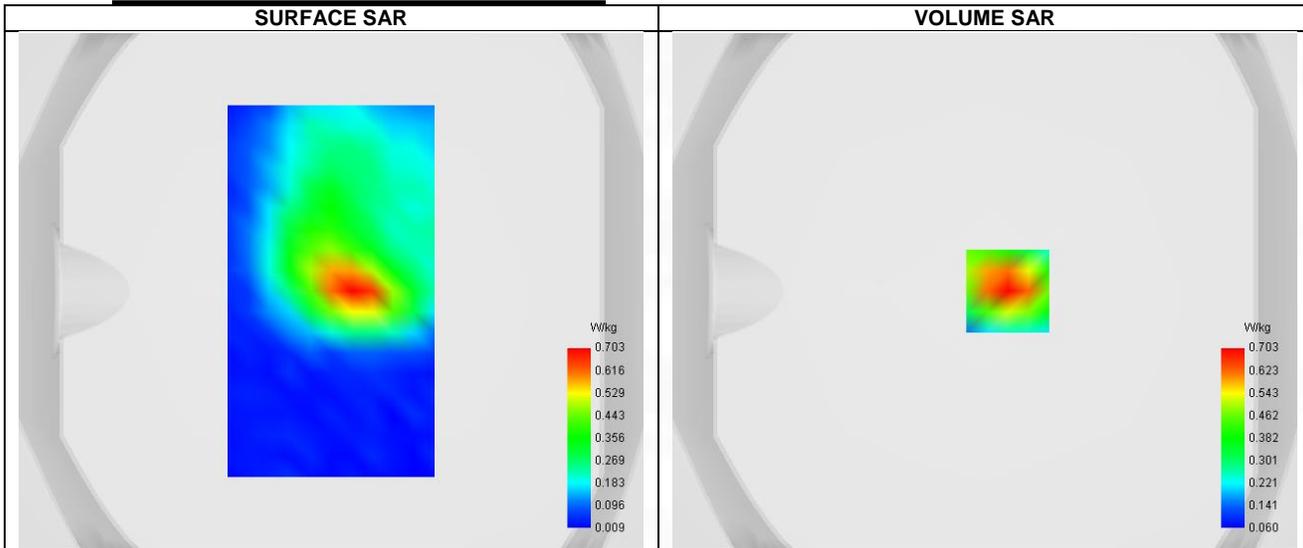
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.96 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | Band 4 (1700) |
| Channels | Middle (1413) |
| Signal | WCDMA |
| Mode | Release 99 |
| Connection Type | RMC, 12.2 kbps |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1732.600 |
| Relative permittivity (real part) | 40.015 |
| Relative permittivity (imaginary part) | 13.985 |
| Conductivity (S/m) | 1.335 |

C. SAR Surface and Volume



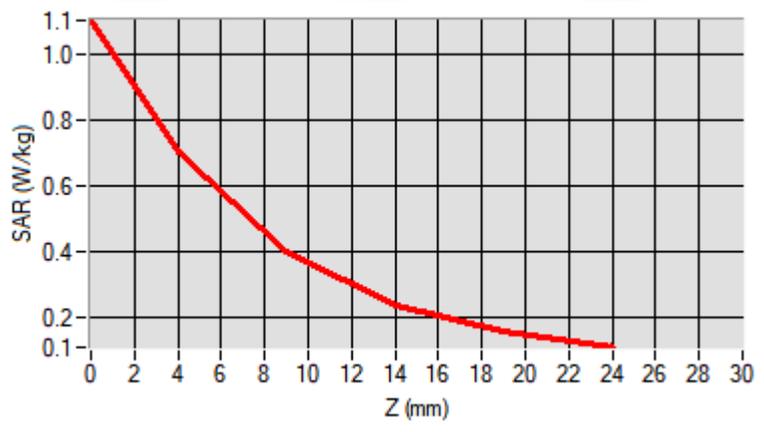
Maximum location: X=9.00, Y=0.00 ; SAR Peak: 1.11 W/kg

D. SAR 1g & 10g

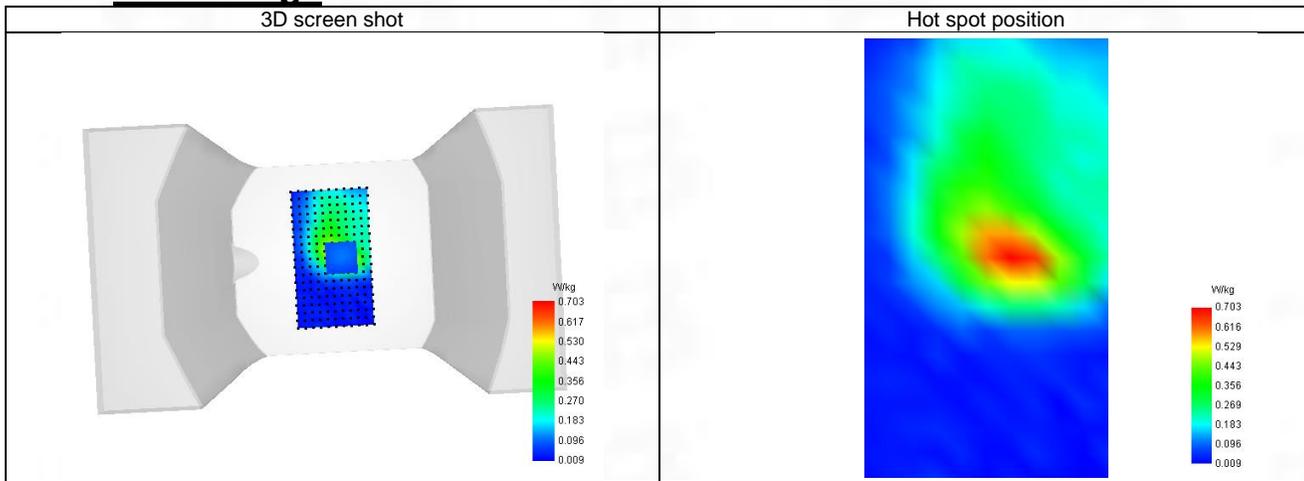
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.367 |
| SAR 1g (W/Kg) | 0.659 |
| Variation (%) | 1.660 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 1.100 | 0.703 | 0.399 | 0.237 | 0.157 |



F. 3D Image



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

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

Date of measurement: 24/4/2023

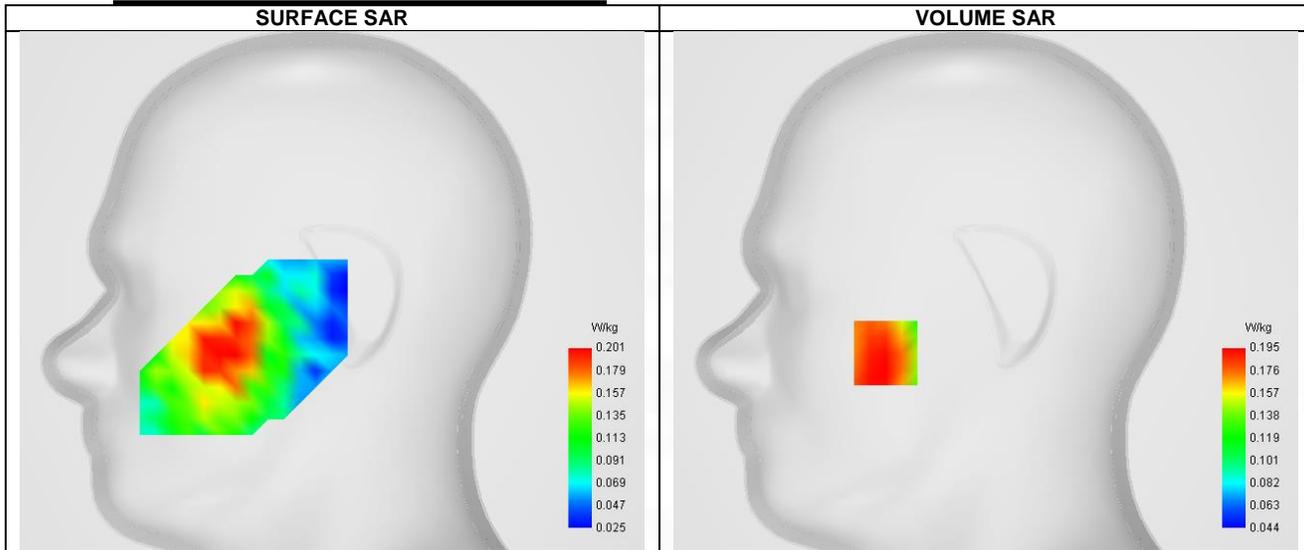
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 846.600 |
| Relative permittivity (real part) | 41.392 |
| Relative permittivity (imaginary part) | 19.508 |
| Conductivity (S/m) | 0.876 |

C. SAR Surface and Volume



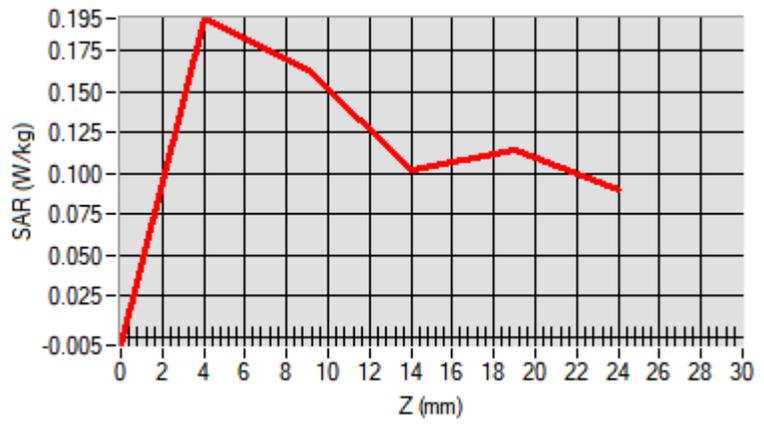
Maximum location: X=-50.00, Y=-31.00 ; SAR Peak: 0.30 W/kg

D. SAR 1g & 10g

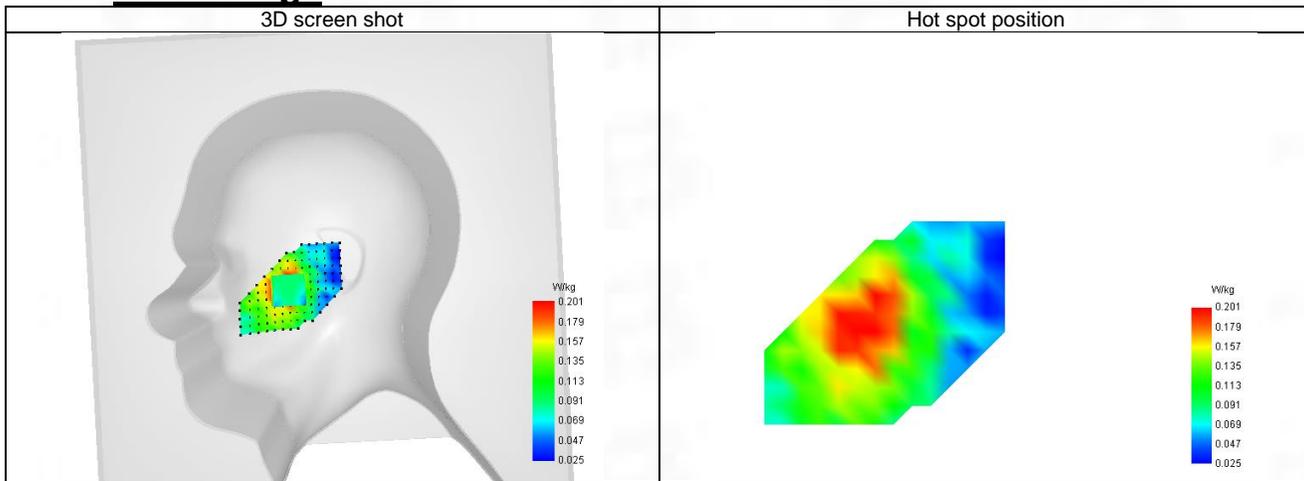
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.157 |
| SAR 1g (W/Kg) | 0.210 |
| Variation (%) | -1.050 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|--------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | -0.005 | 0.195 | 0.163 | 0.102 | 0.114 |



F. 3D Image



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

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

Date of measurement: 24/4/2023

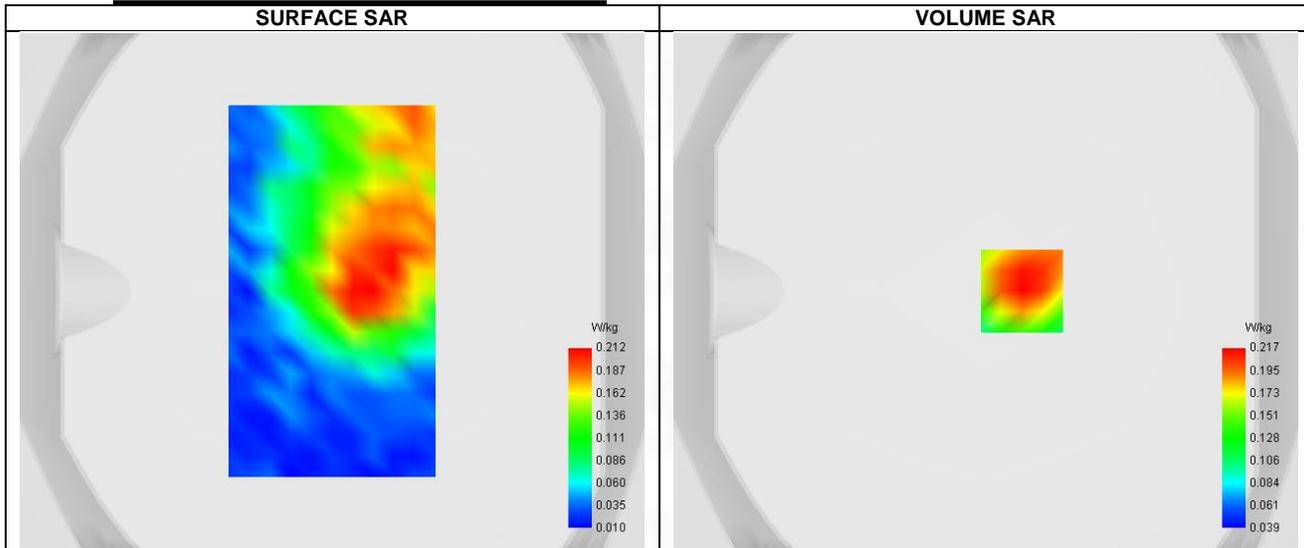
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 846.600 |
| Relative permittivity (real part) | 41.392 |
| Relative permittivity (imaginary part) | 19.508 |
| Conductivity (S/m) | 0.876 |

C. SAR Surface and Volume



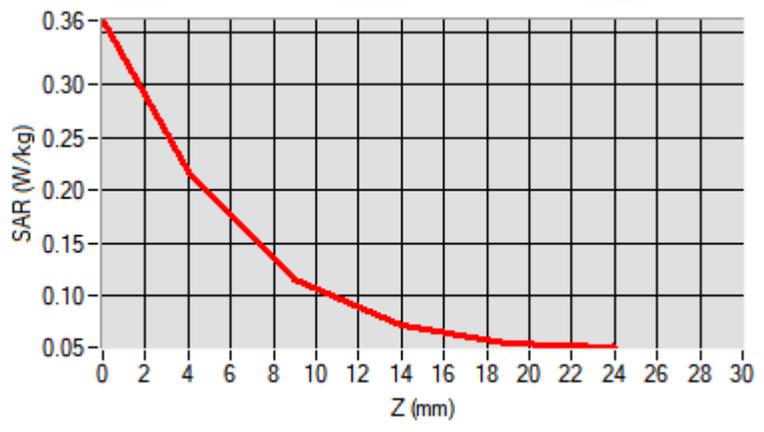
Maximum location: X=14.00, Y=0.00 ; SAR Peak: 0.36 W/kg

D. SAR 1g & 10g

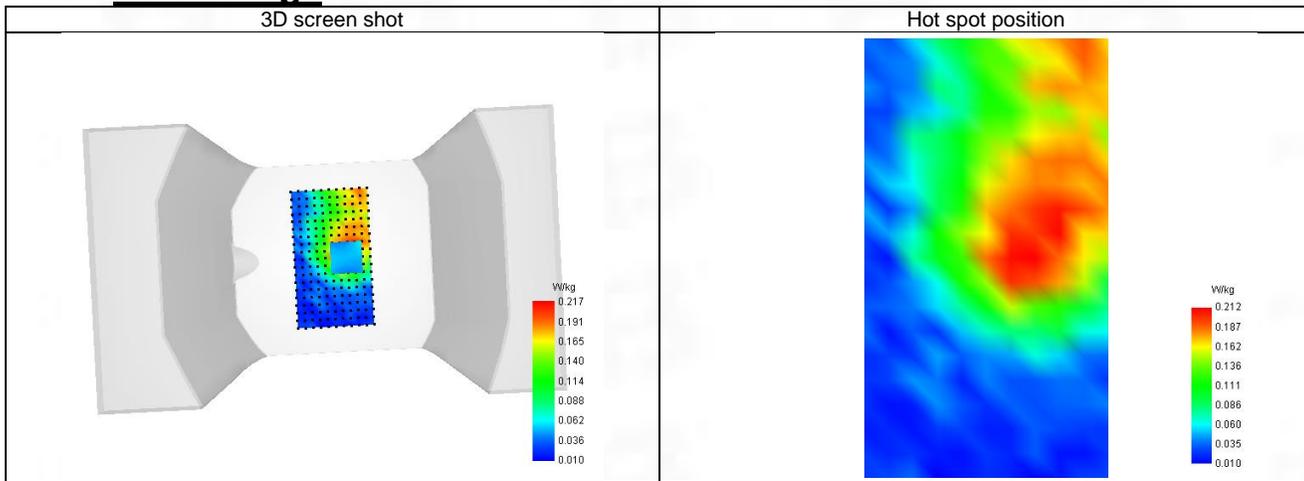
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.135 |
| SAR 1g (W/Kg) | 0.222 |
| Variation (%) | 3.790 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.361 | 0.217 | 0.116 | 0.071 | 0.056 |



F. 3D Image



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

SAR Measurement at LTE band 2 (Cheek, Right)

Date of measurement: 25/4/2023

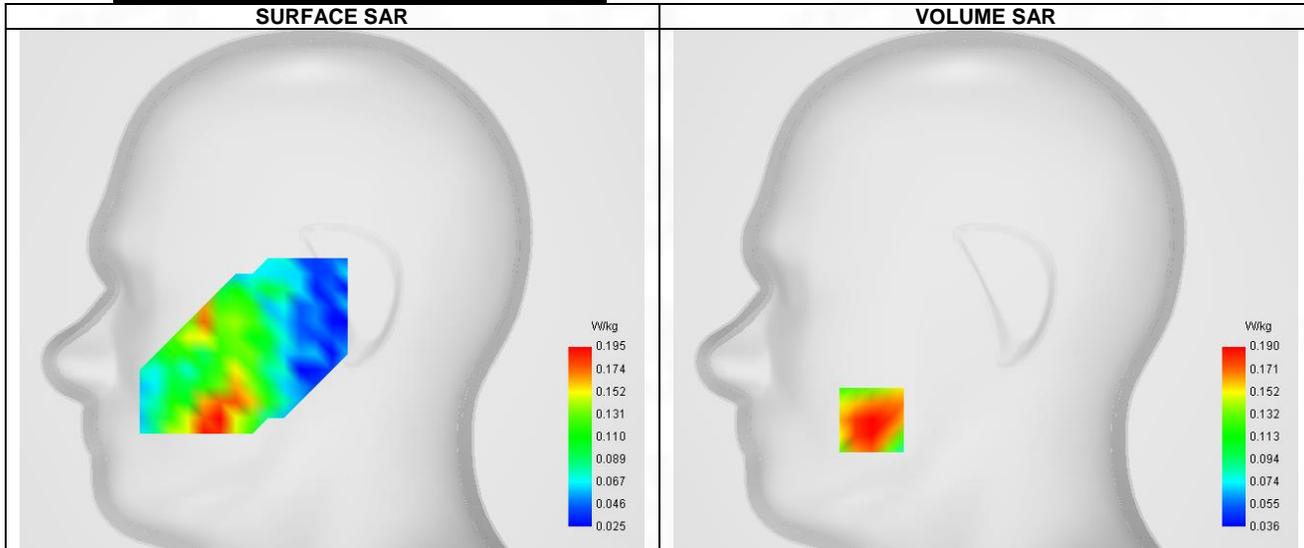
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.24 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 2 |
| Channels | Lower (18700) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1859.910 |
| Relative permittivity (real part) | 39.938 |
| Relative permittivity (imaginary part) | 13.322 |
| Conductivity (S/m) | 1.381 |

C. SAR Surface and Volume



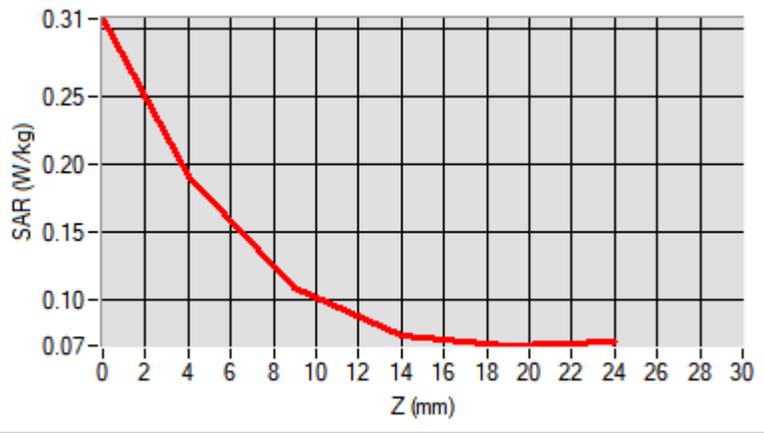
Maximum location: X=-57.00, Y=-65.00 ; SAR Peak: 0.32 W/kg

D. SAR 1g & 10g

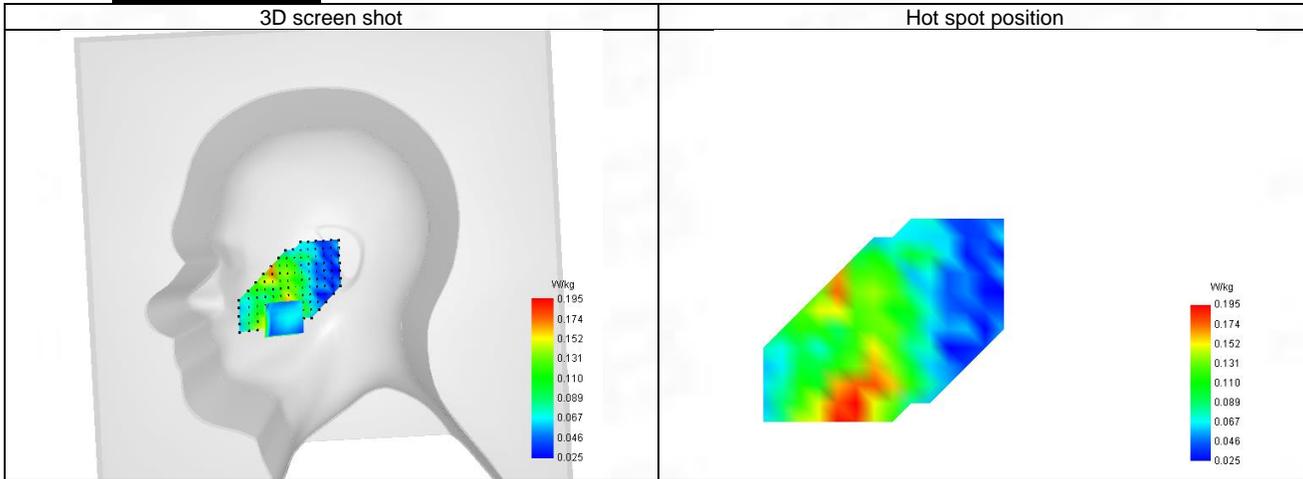
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.123 |
| SAR 1g (W/Kg) | 0.188 |
| Variation (%) | 1.020 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.307 | 0.190 | 0.108 | 0.074 | 0.066 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

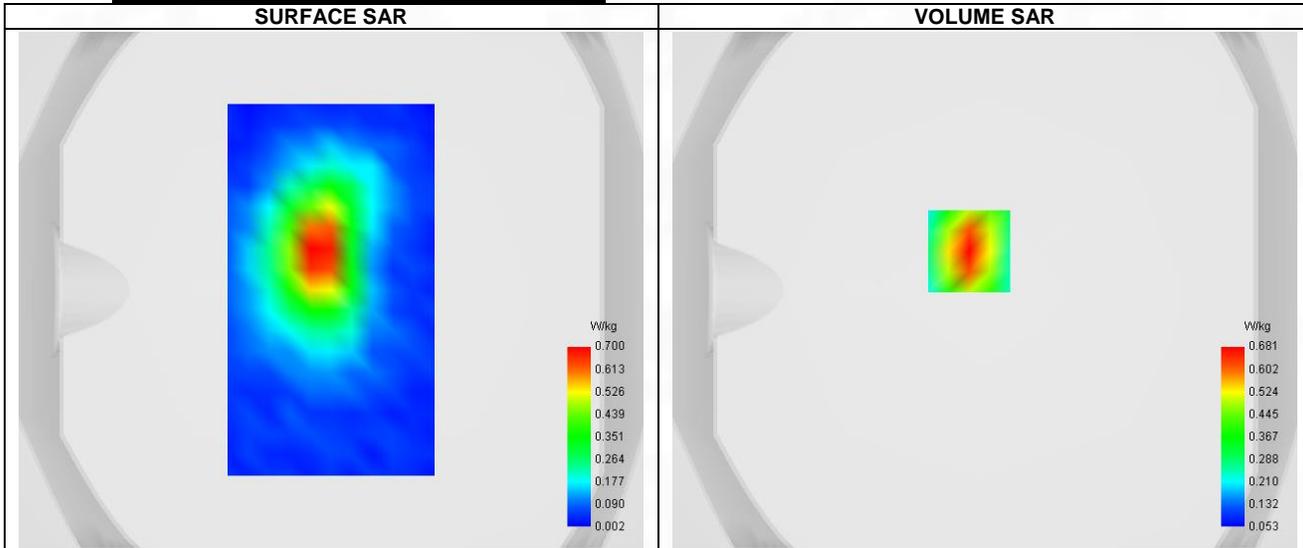
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 2 |
| Channels | Lower (18700) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1859.910 |
| Relative permittivity (real part) | 39.938 |
| Relative permittivity (imaginary part) | 13.322 |
| Conductivity (S/m) | 1.381 |

C. SAR Surface and Volume



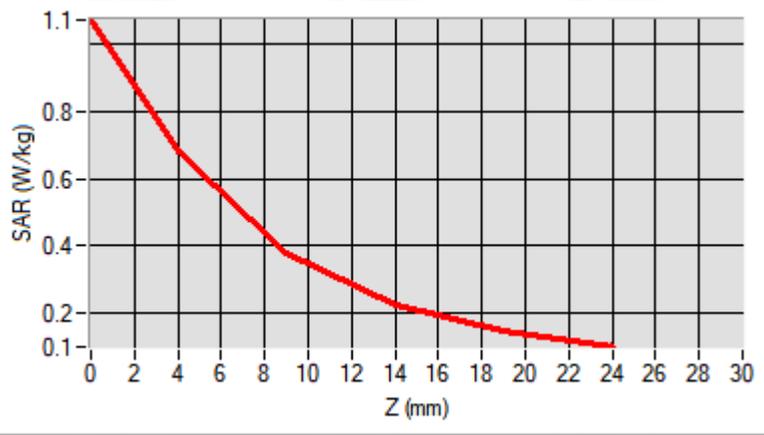
Maximum location: X=-6.00, Y=15.00 ; SAR Peak: 1.07 W/kg

D. SAR 1g & 10g

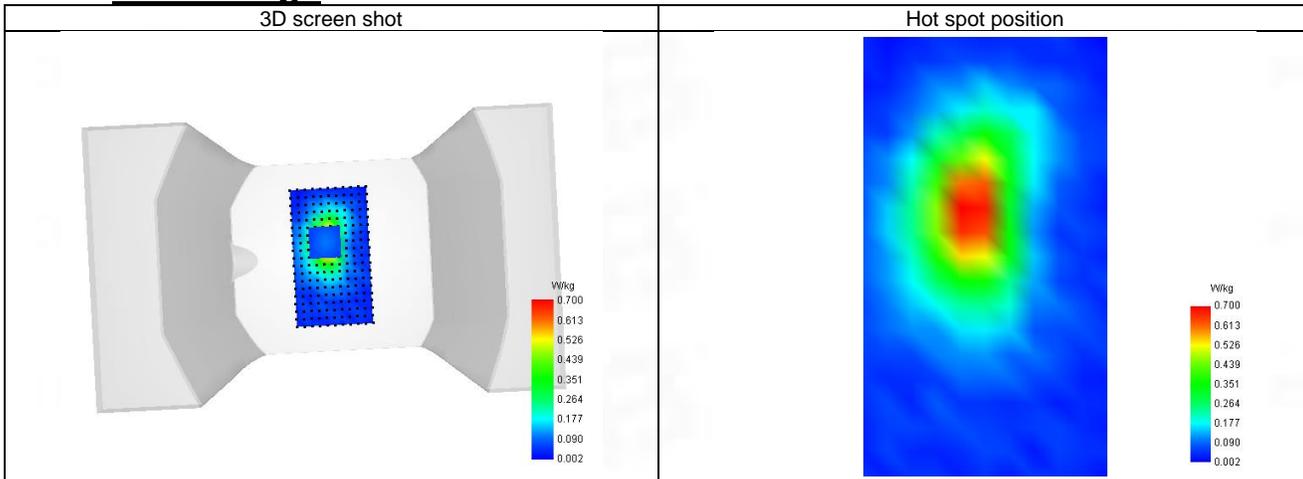
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.347 |
| SAR 1g (W/Kg) | 0.633 |
| Variation (%) | 0.590 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 1.071 | 0.681 | 0.382 | 0.224 | 0.146 |



F. 3D Image



13-Head with front position in dist. 0mm on Channel 20050 in LTE band 4

SAR Measurement at LTE band 4 (Cheek, Right)

Date of measurement: 25/4/2023

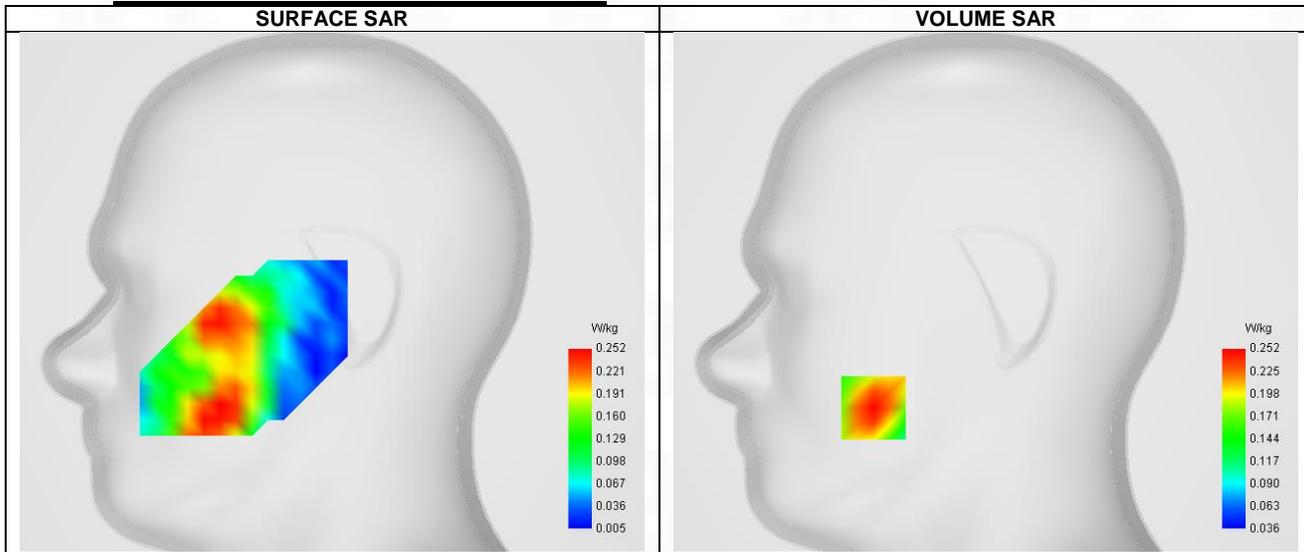
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.96 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 4 |
| Channels | Lower (20050) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1720.000 |
| Relative permittivity (real part) | 40.034 |
| Relative permittivity (imaginary part) | 13.966 |
| Conductivity (S/m) | 1.329 |

C. SAR Surface and Volume



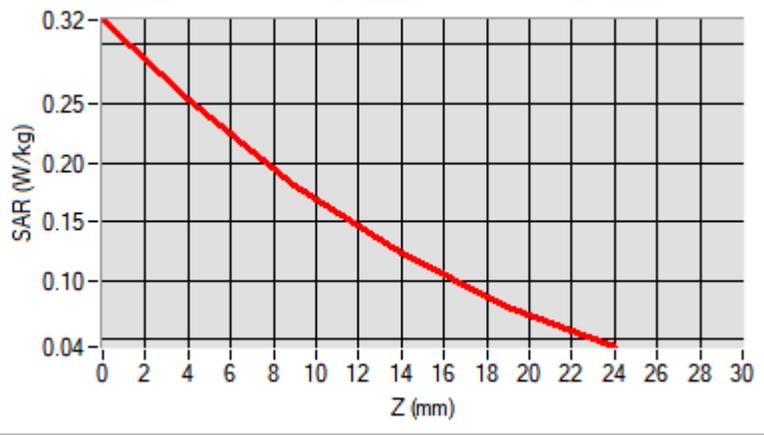
Maximum location: X=-56.00, Y=-58.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

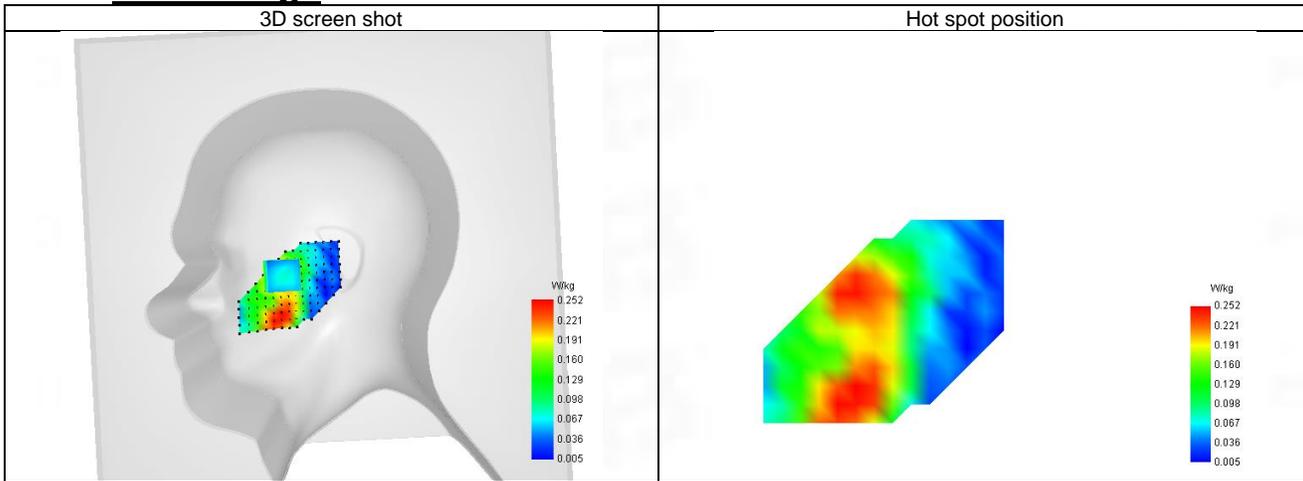
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.157 |
| SAR 1g (W/Kg) | 0.239 |
| Variation (%) | 2.190 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.321 | 0.252 | 0.181 | 0.123 | 0.078 |



F. 3D Image



14-Body with back position in dist. 10mm on Channel 20050 in LTE band 4

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

Date of measurement: 25/4/2023

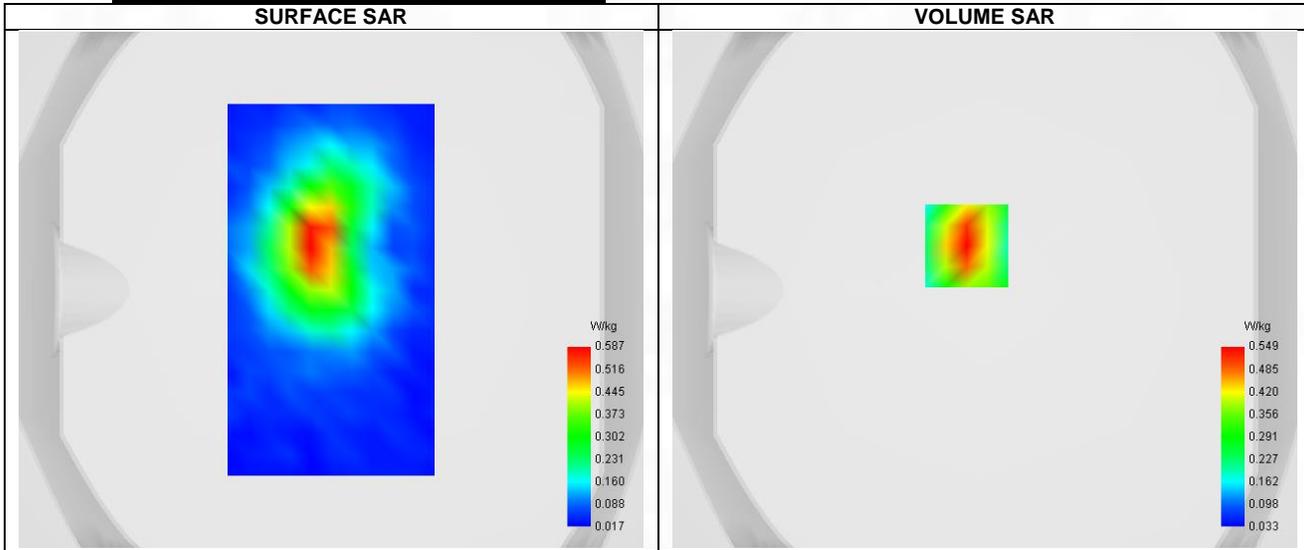
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.96 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 4 |
| Channels | Lower (20050) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1720.000 |
| Relative permittivity (real part) | 40.034 |
| Relative permittivity (imaginary part) | 13.966 |
| Conductivity (S/m) | 1.329 |

C. SAR Surface and Volume



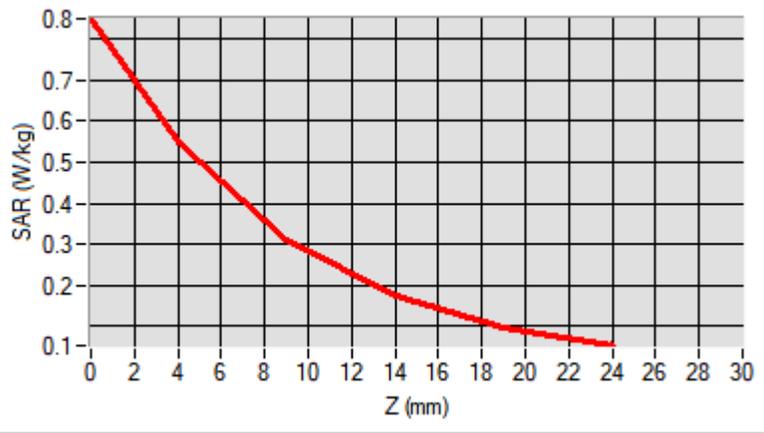
Maximum location: X=-7.00, Y=17.00 ; SAR Peak: 0.85 W/kg

D. SAR 1g & 10g

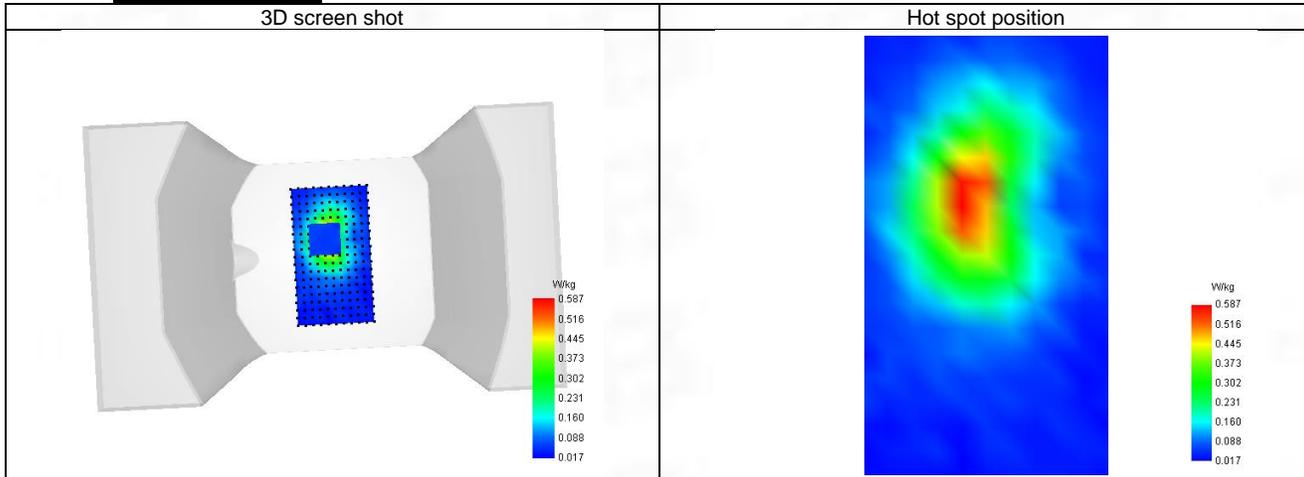
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.279 |
| SAR 1g (W/Kg) | 0.510 |
| Variation (%) | -3.170 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.850 | 0.549 | 0.309 | 0.173 | 0.099 |



F. 3D Image



15-Head with front position in dist. 0mm on Channel 20600 in LTE band 5

SAR Measurement at LTE band 5 (Cheek, Right)

Date of measurement: 24/4/2023

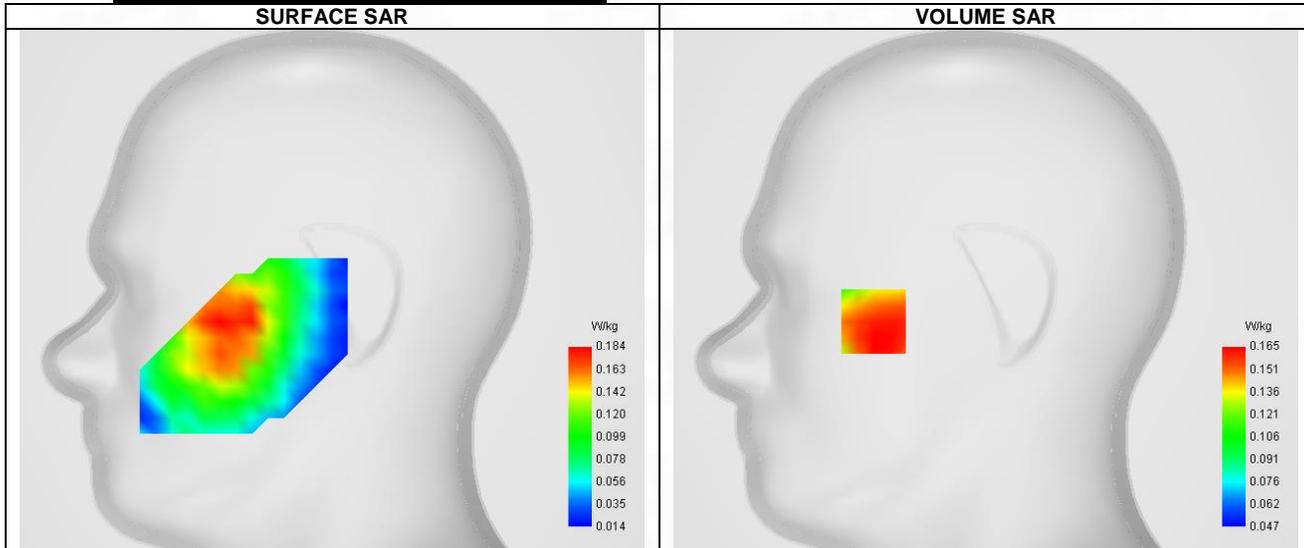
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 1.68 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 5 |
| Channels | Higher (20600) |
| Signal | LTE FDD |
| Cell Bandwidth | 10 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 25 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 843.910 |
| Relative permittivity (real part) | 41.396 |
| Relative permittivity (imaginary part) | 19.504 |
| Conductivity (S/m) | 0.875 |

C. SAR Surface and Volume



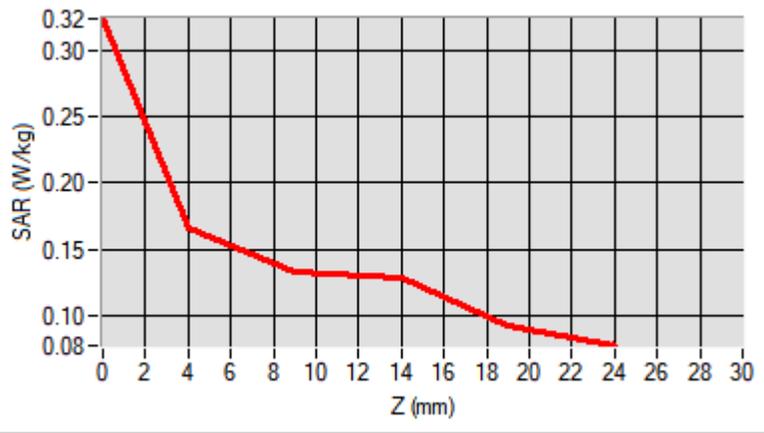
Maximum location: X=-56.00, Y=-16.00 ; SAR Peak: 0.20 W/kg

D. SAR 1g & 10g

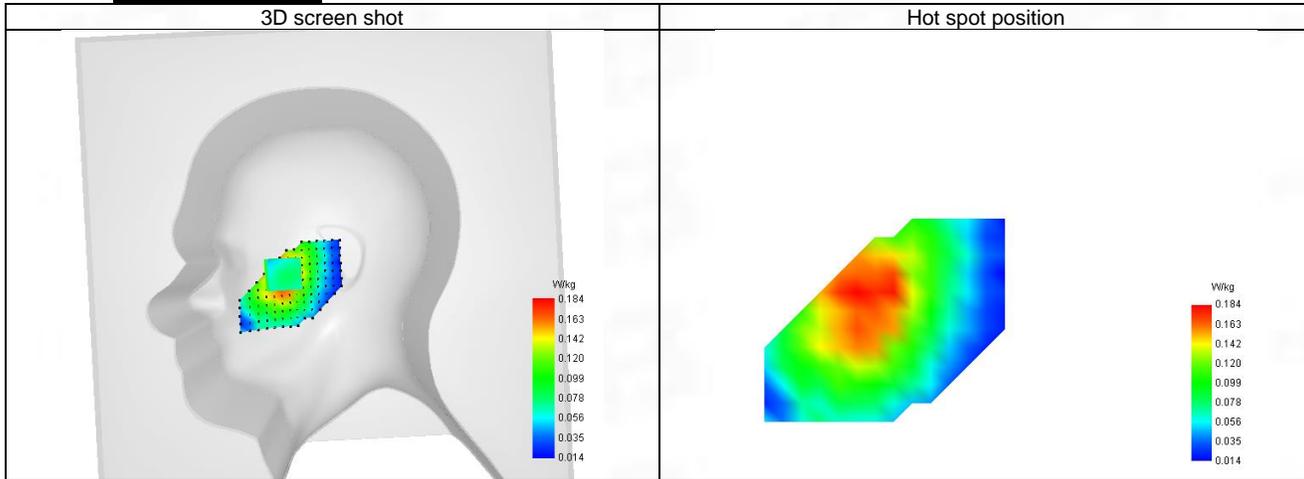
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.134 |
| SAR 1g (W/Kg) | 0.164 |
| Variation (%) | -2.260 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.323 | 0.165 | 0.133 | 0.129 | 0.092 |



F. 3D Image



16-Body with back position in dist. 10mm on Channel 20600 in LTE band 5

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

Date of measurement: 24/4/2023

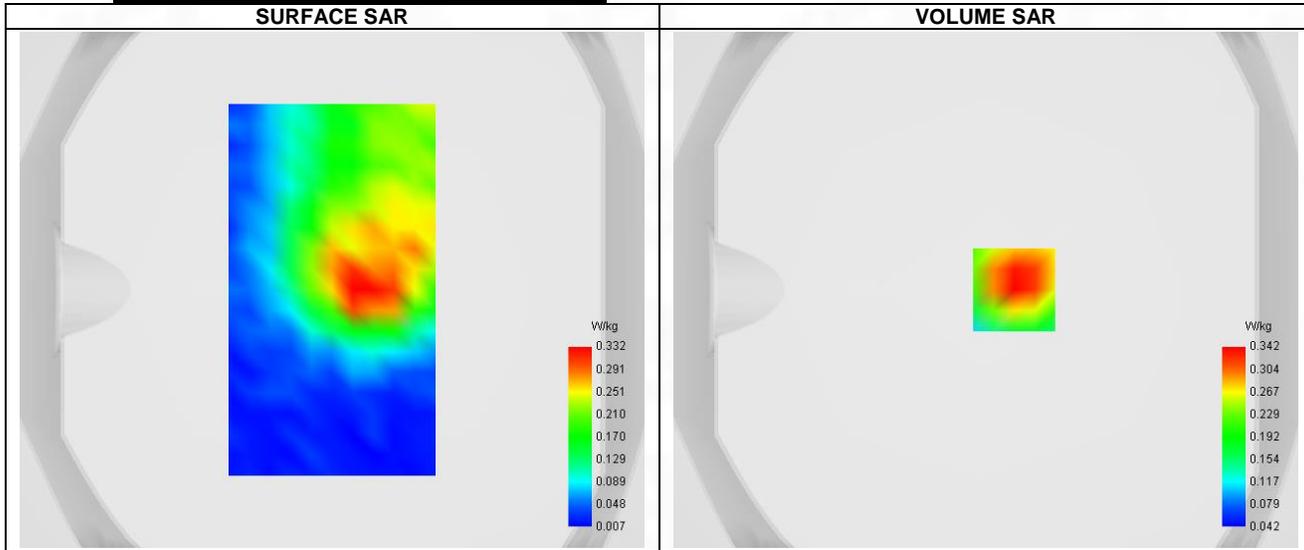
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 1.68 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 5 |
| Channels | Higher (20600) |
| Signal | LTE FDD |
| Cell Bandwidth | 10 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 25 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 843.910 |
| Relative permittivity (real part) | 41.396 |
| Relative permittivity (imaginary part) | 19.504 |
| Conductivity (S/m) | 0.875 |

C. SAR Surface and Volume



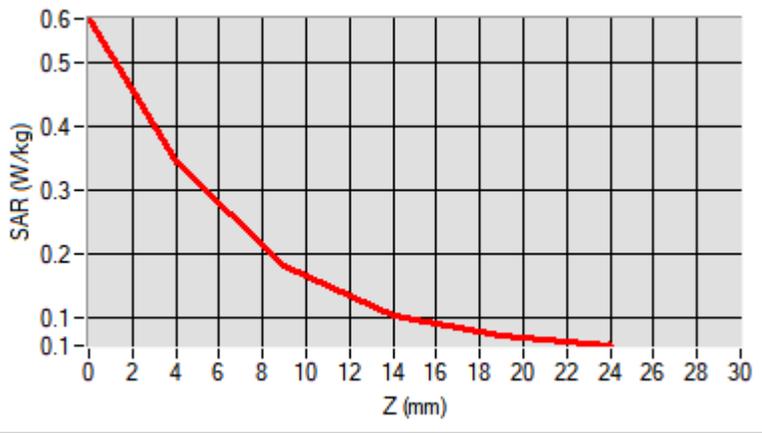
Maximum location: X=11.00, Y=0.00 ; SAR Peak: 0.58 W/kg

D. SAR 1g & 10g

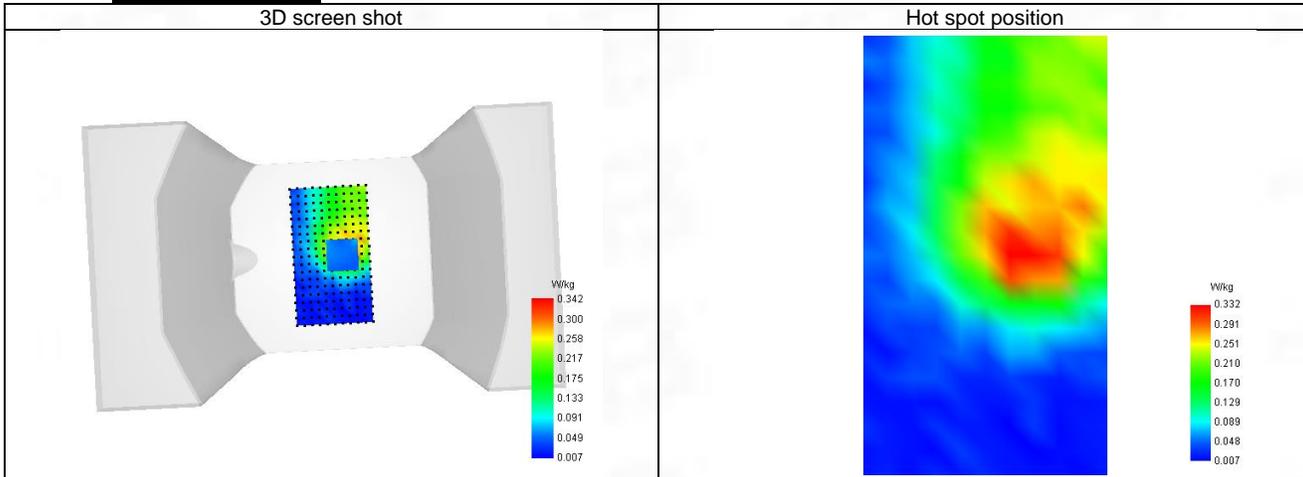
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.196 |
| SAR 1g (W/Kg) | 0.334 |
| Variation (%) | -1.770 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.568 | 0.342 | 0.179 | 0.102 | 0.070 |



F. 3D Image



17-Head with front position in dist. 0mm on Channel 23130 in LTE band 12

SAR Measurement at LTE band 12 (Cheek, Right)

Date of measurement: 24/4/2023

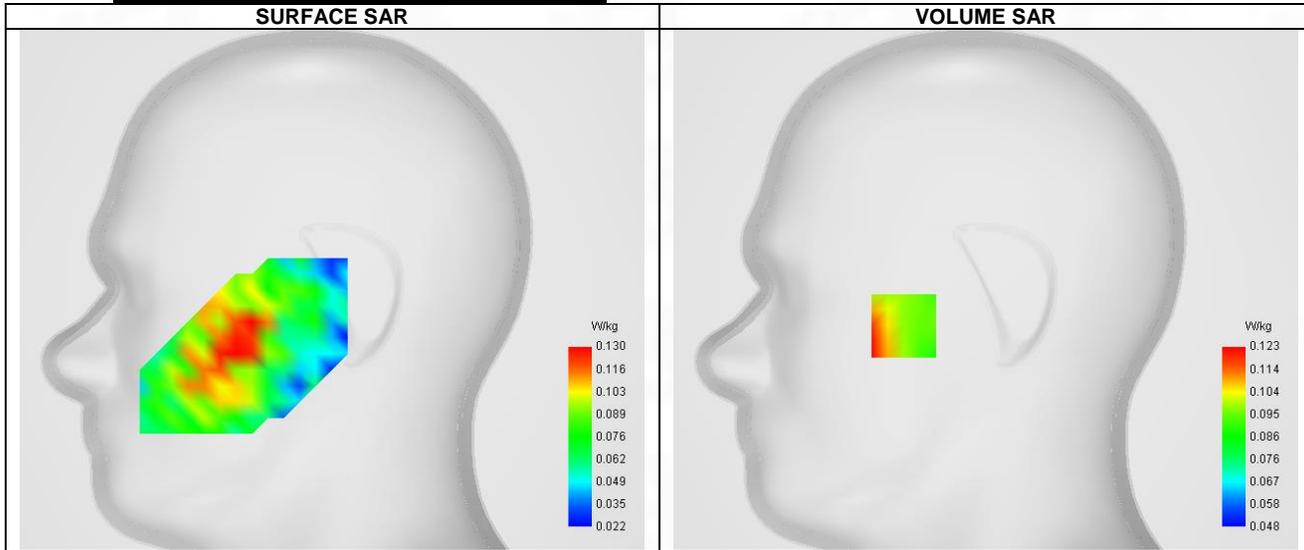
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.65 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 12 |
| Channels | Higher (23130) |
| Signal | LTE FDD |
| Cell Bandwidth | 10 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 25 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 710.910 |
| Relative permittivity (real part) | 41.603 |
| Relative permittivity (imaginary part) | 19.297 |
| Conductivity (S/m) | 0.806 |

C. SAR Surface and Volume

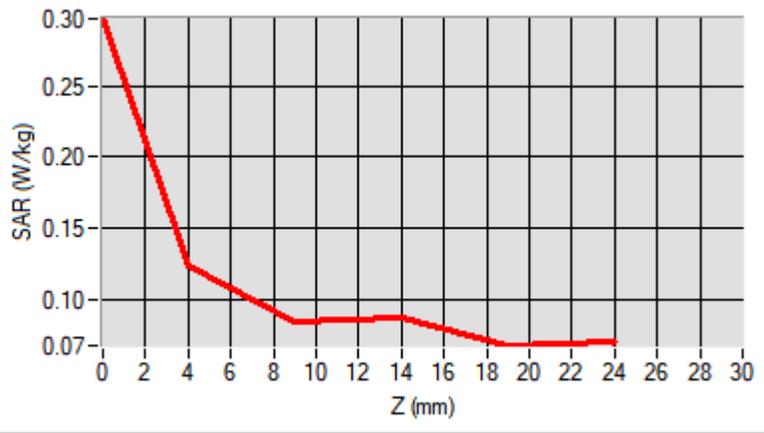


D. SAR 1g & 10g

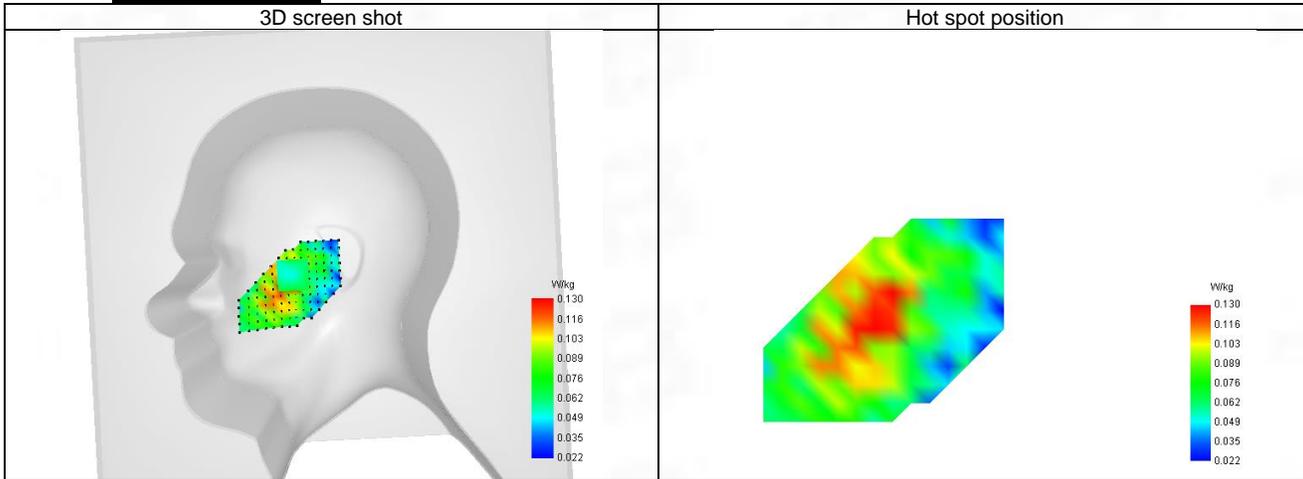
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.096 |
| SAR 1g (W/Kg) | 0.116 |
| Variation (%) | -3.870 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.297 | 0.123 | 0.084 | 0.087 | 0.067 |



F. 3D Image



18-Body with back position in dist. 10mm on Channel 23130 in LTE band 12

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

Date of measurement: 24/4/2023

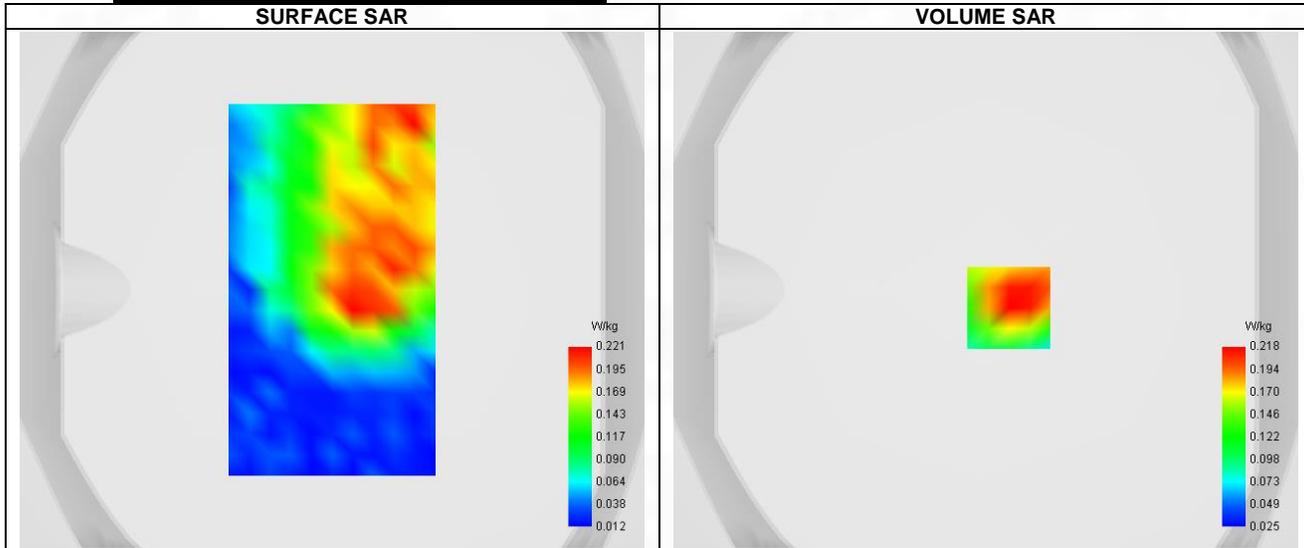
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.65 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 12 |
| Channels | Higher (23130) |
| Signal | LTE FDD |
| Cell Bandwidth | 10 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 25 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 710.910 |
| Relative permittivity (real part) | 41.603 |
| Relative permittivity (imaginary part) | 19.297 |
| Conductivity (S/m) | 0.806 |

C. SAR Surface and Volume



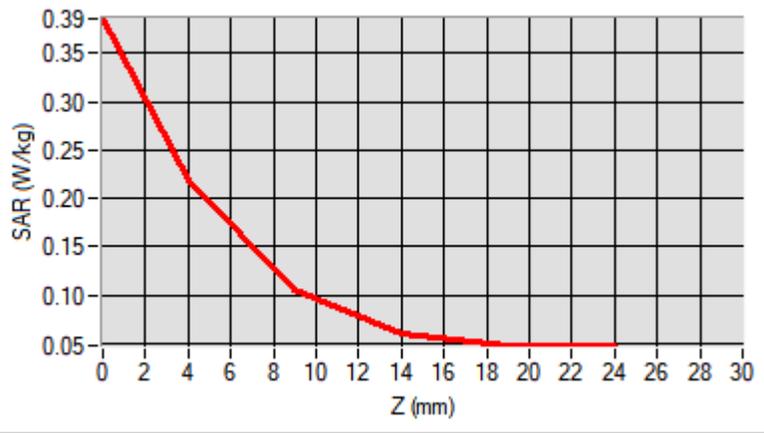
Maximum location: X=9.00, Y=-7.00 ; SAR Peak: 0.40 W/kg

D. SAR 1g & 10g

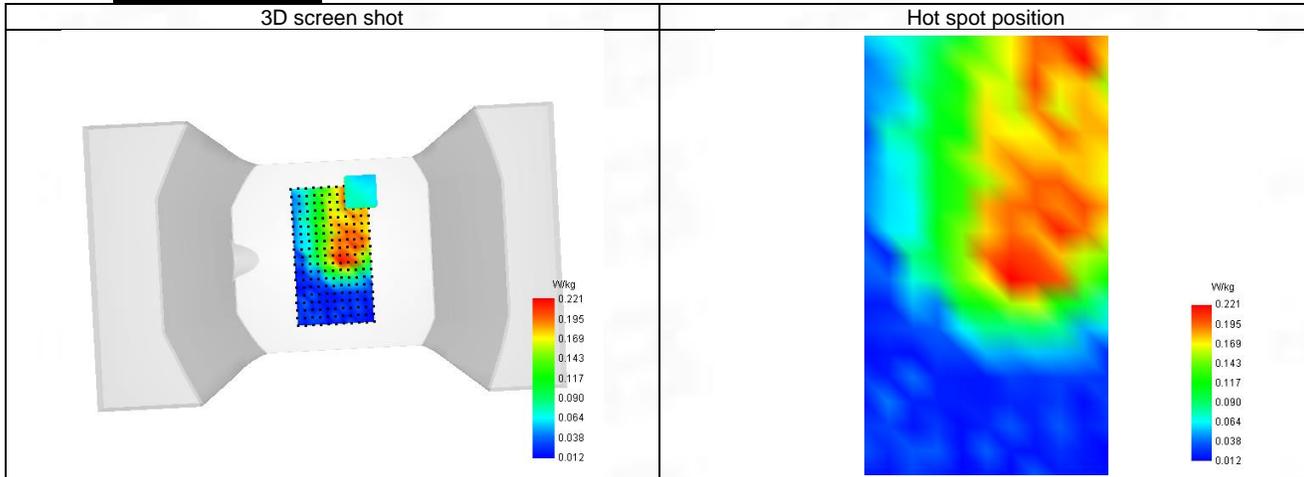
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.130 |
| SAR 1g (W/Kg) | 0.225 |
| Variation (%) | 1.450 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.385 | 0.218 | 0.106 | 0.061 | 0.048 |



F. 3D Image



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

SAR Measurement at LTE band 13 (Cheek, Right)

Date of measurement: 24/4/2023

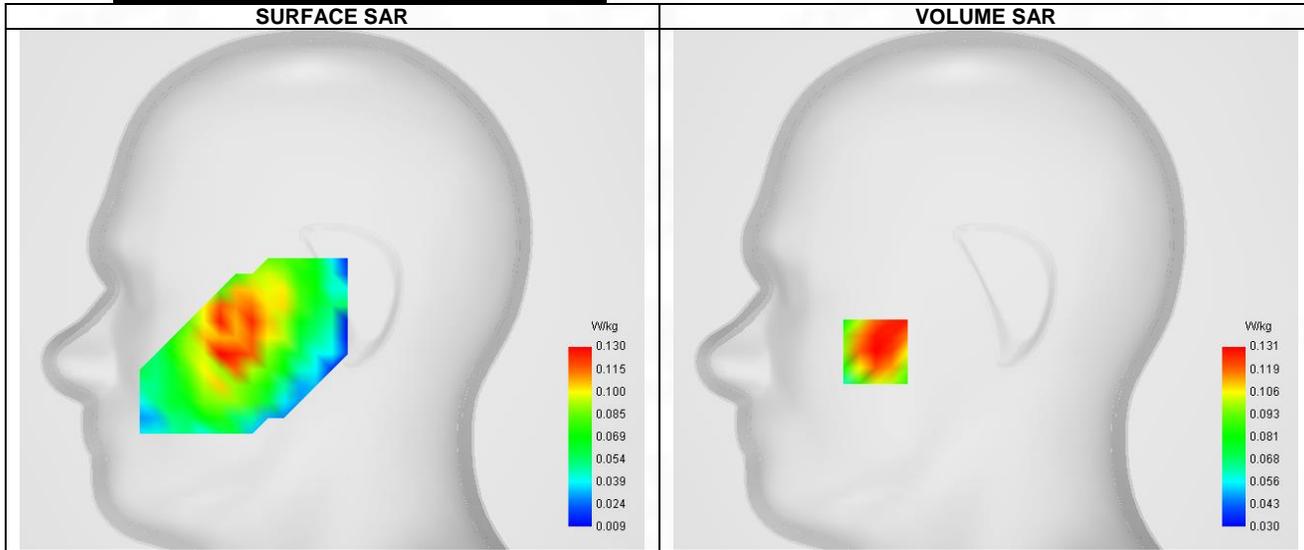
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 782.090 |
| Relative permittivity (real part) | 41.492 |
| Relative permittivity (imaginary part) | 19.408 |
| Conductivity (S/m) | 0.843 |

C. SAR Surface and Volume



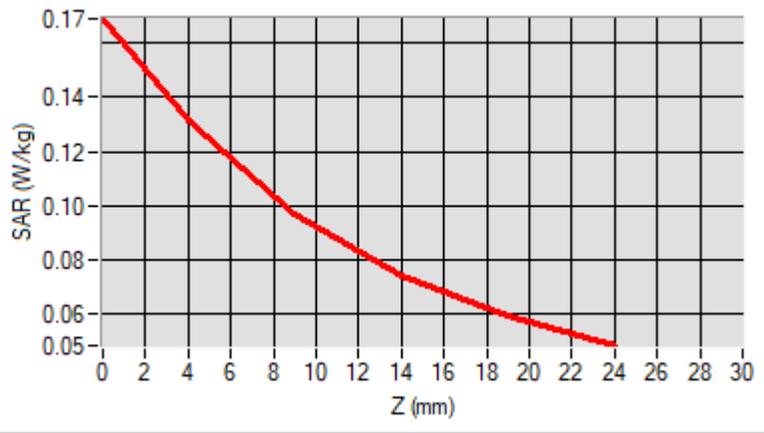
Maximum location: X=-55.00, Y=-31.00 ; SAR Peak: 0.17 W/kg

D. SAR 1g & 10g

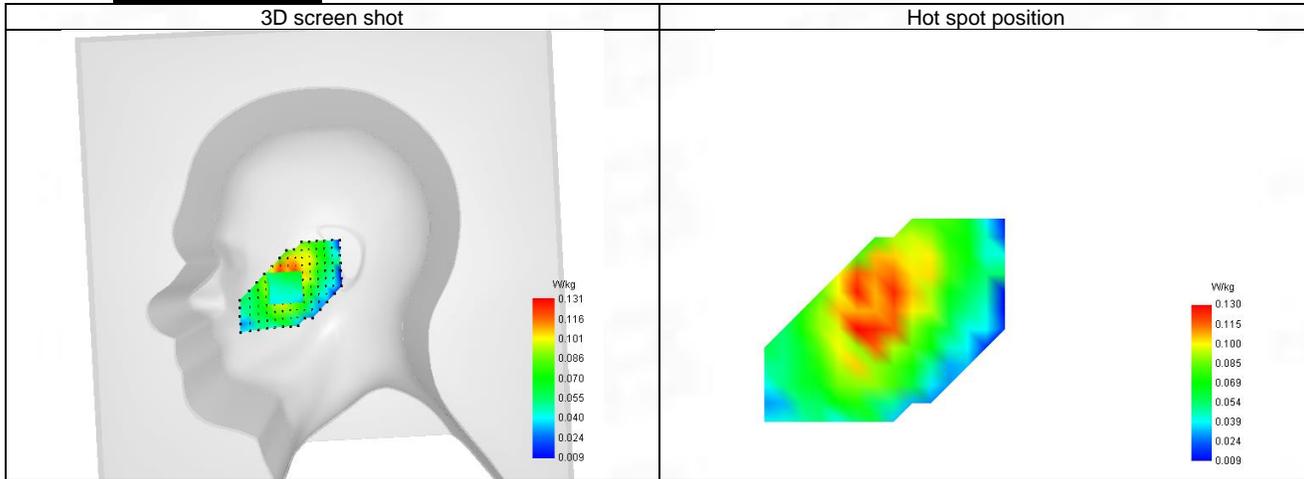
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.098 |
| SAR 1g (W/Kg) | 0.130 |
| Variation (%) | 1.010 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.169 | 0.131 | 0.097 | 0.074 | 0.059 |



F. 3D Image



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

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

Date of measurement: 24/4/2023

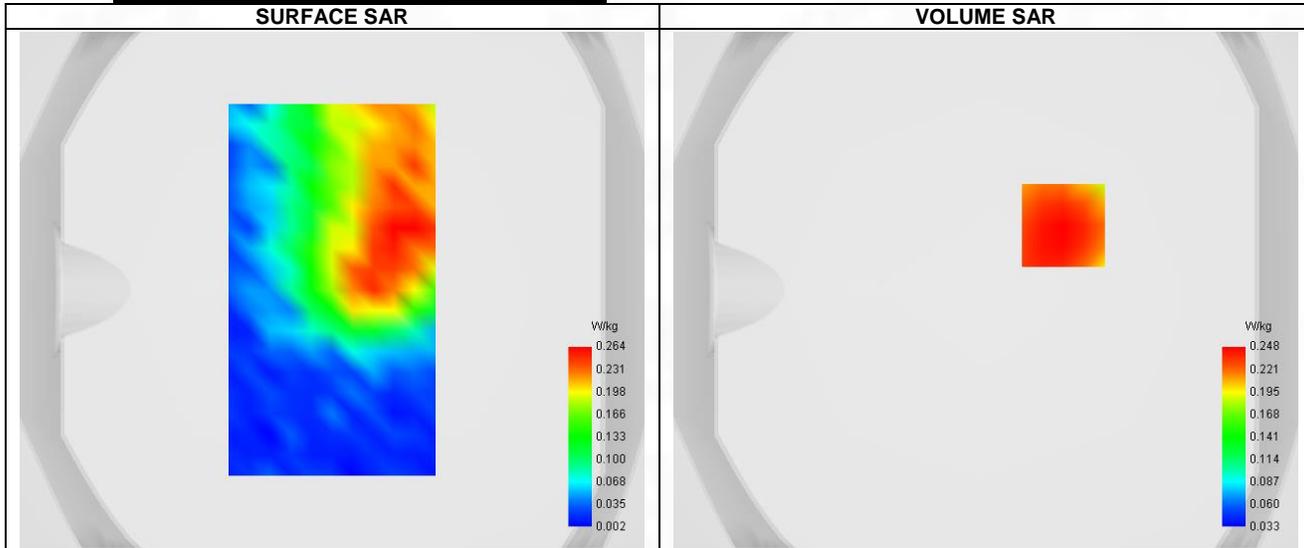
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 782.090 |
| Relative permittivity (real part) | 41.492 |
| Relative permittivity (imaginary part) | 19.408 |
| Conductivity (S/m) | 0.843 |

C. SAR Surface and Volume



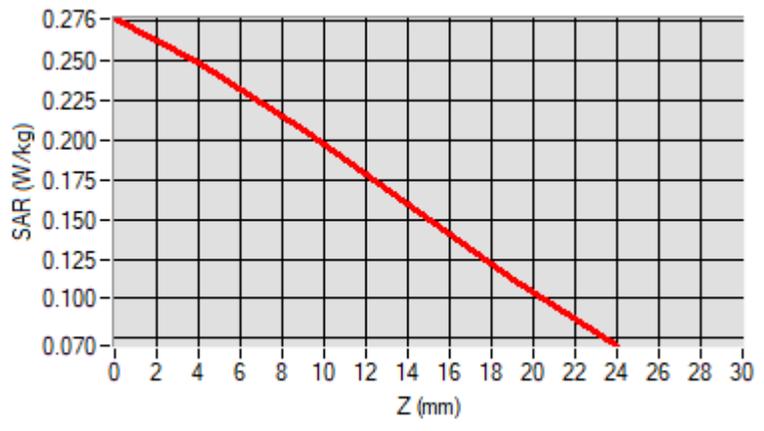
Maximum location: X=30.00, Y=25.00 ; SAR Peak: 0.37 W/kg

D. SAR 1g & 10g

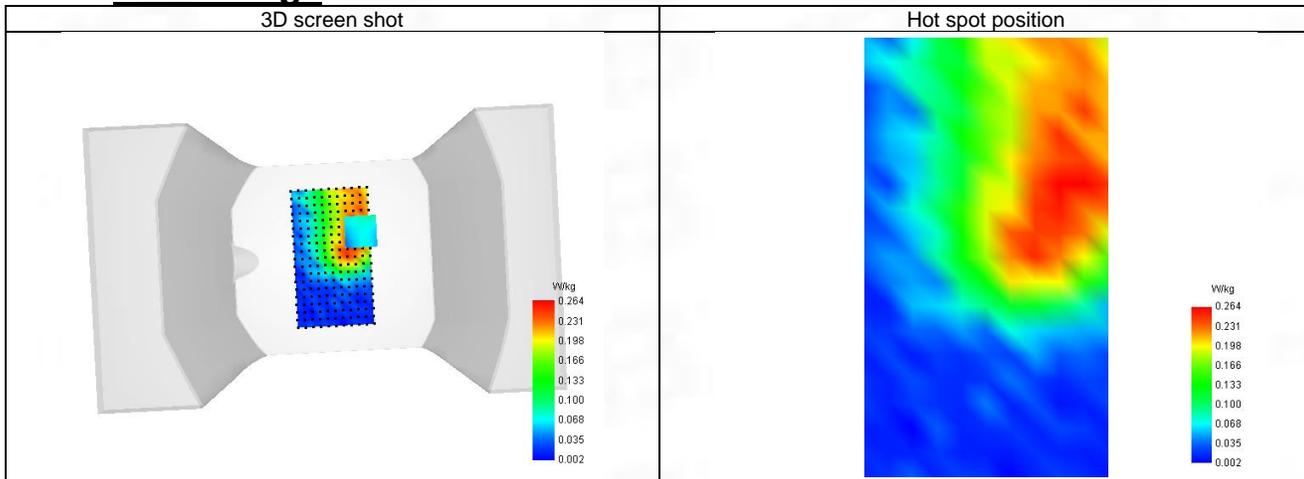
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.187 |
| SAR 1g (W/Kg) | 0.253 |
| Variation (%) | -1.830 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.276 | 0.248 | 0.206 | 0.159 | 0.112 |



F. 3D Image



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

SAR Measurement at LTE band 25 (Cheek, Right)

Date of measurement: 25/4/2023

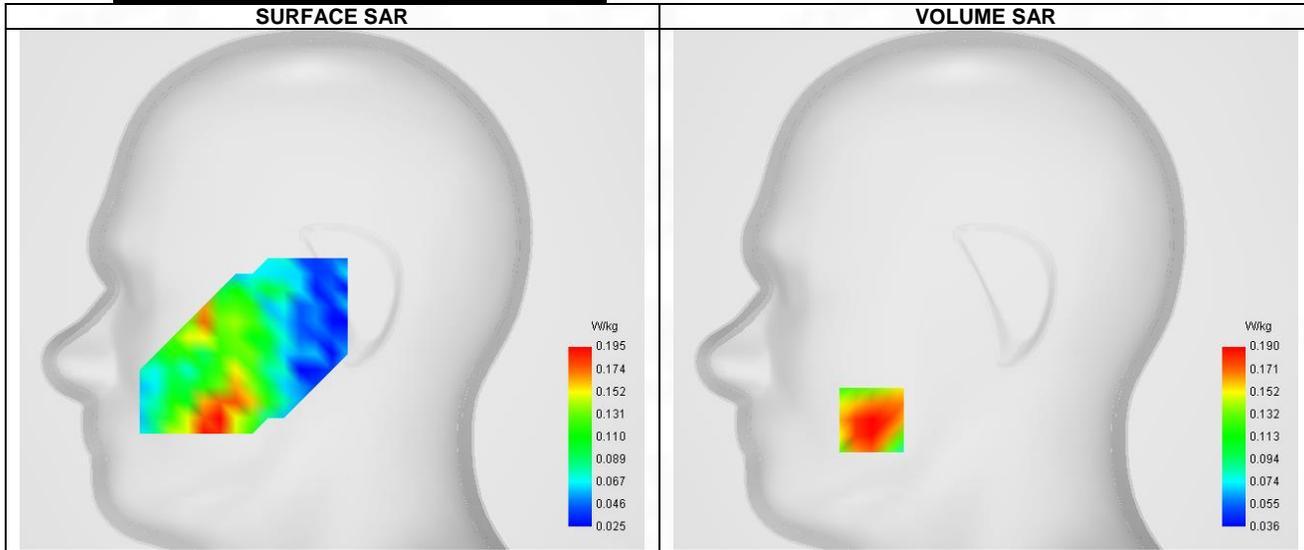
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 25 |
| Channels | Lower (26140) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1860.090 |
| Relative permittivity (real part) | 39.938 |
| Relative permittivity (imaginary part) | 13.322 |
| Conductivity (S/m) | 1.381 |

C. SAR Surface and Volume



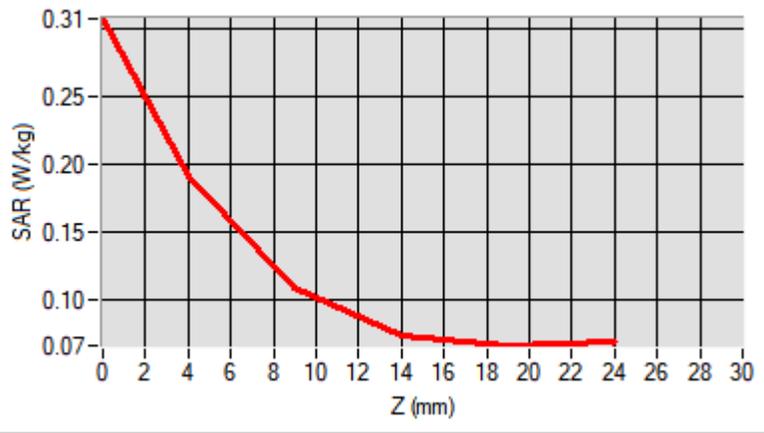
Maximum location: X=-57.00, Y=-65.00 ; SAR Peak: 0.34 W/kg

D. SAR 1g & 10g

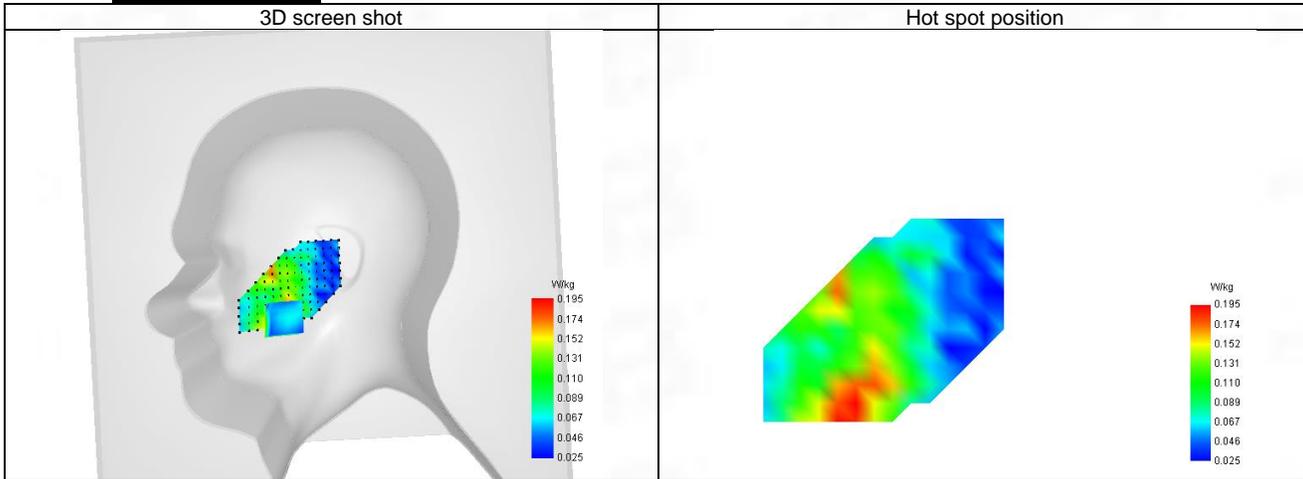
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.126 |
| SAR 1g (W/Kg) | 0.192 |
| Variation (%) | -1.100 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.307 | 0.190 | 0.108 | 0.074 | 0.066 |



F. 3D Image



22-Body with back position in dist. 10mm on Channel 26140 in LTE band 25

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

Date of measurement: 25/4/2023

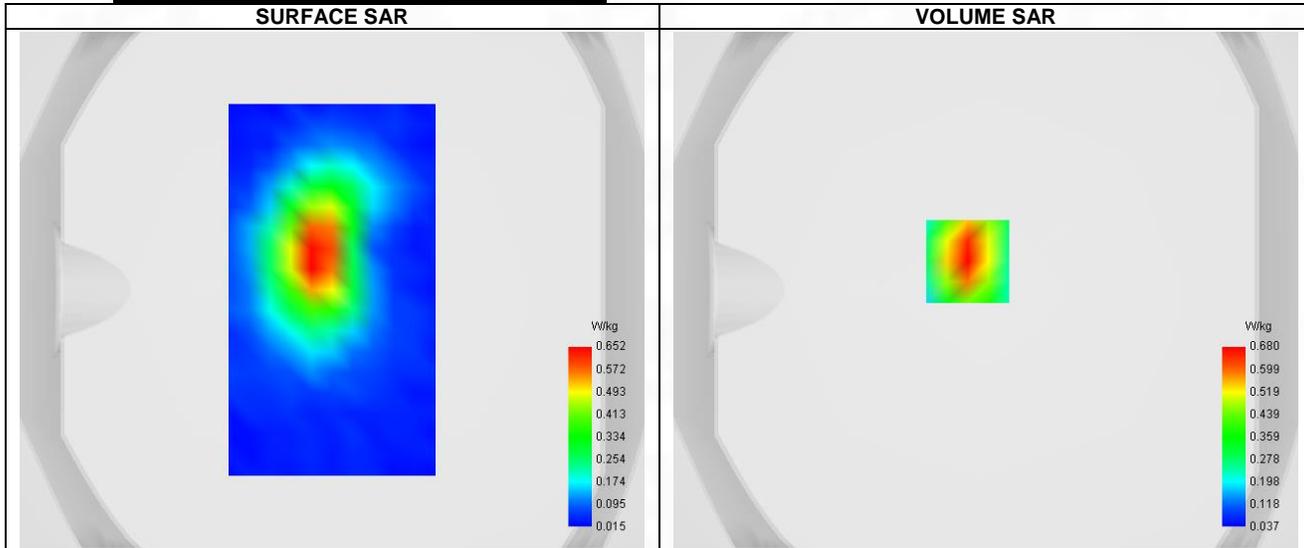
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.24 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 25 |
| Channels | Lower (26140) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1860.090 |
| Relative permittivity (real part) | 39.938 |
| Relative permittivity (imaginary part) | 13.322 |
| Conductivity (S/m) | 1.381 |

C. SAR Surface and Volume



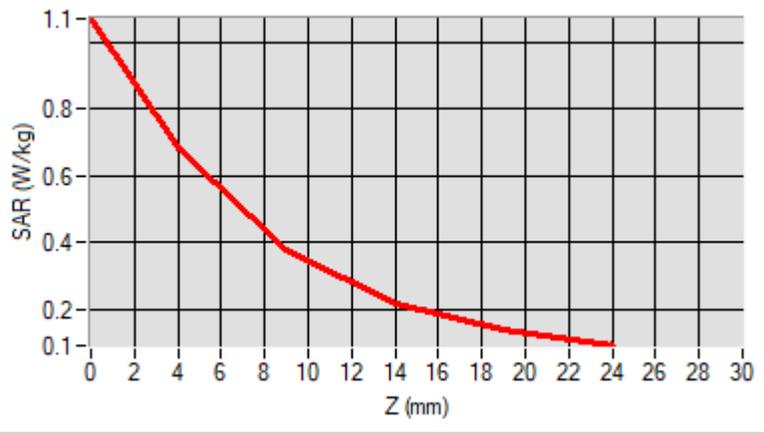
Maximum location: X=-7.00, Y=11.00 ; SAR Peak: 1.07 W/kg

D. SAR 1g & 10g

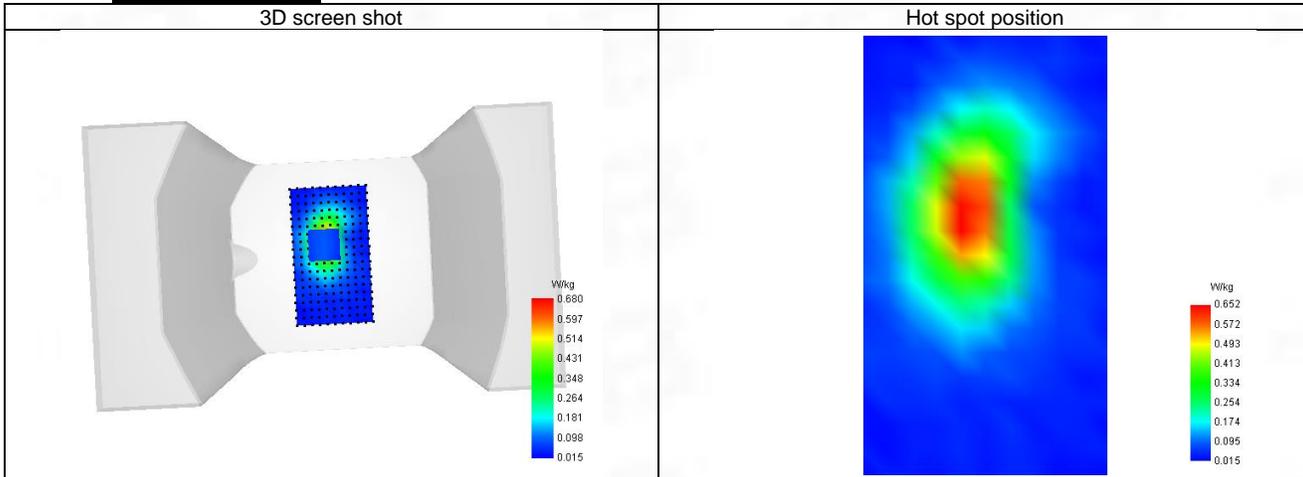
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.352 |
| SAR 1g (W/Kg) | 0.636 |
| Variation (%) | 0.240 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 1.071 | 0.680 | 0.379 | 0.219 | 0.138 |



F. 3D Image



23-Head with front position in dist. 0mm on Channel 26865 in LTE band 26

SAR Measurement at LTE band 26 (Cheek, Right)

Date of measurement: 24/4/2023

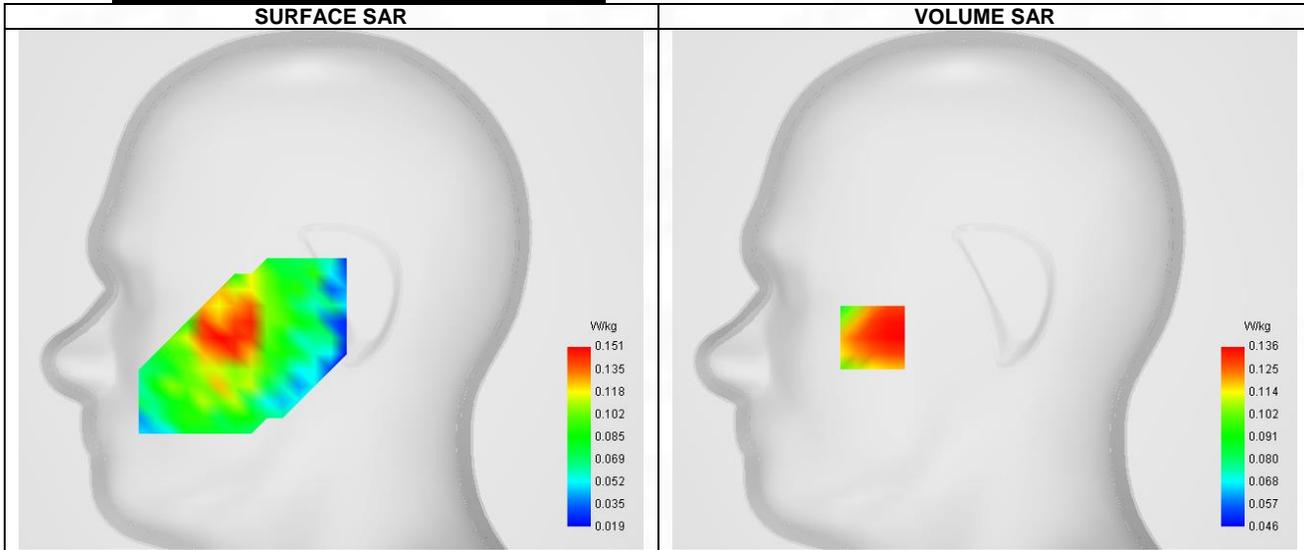
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.68 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 26 |
| Channels | Middle (26865) |
| Signal | LTE FDD |
| Cell Bandwidth | 15 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 38 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 831.680 |
| Relative permittivity (real part) | 41.415 |
| Relative permittivity (imaginary part) | 19.485 |
| Conductivity (S/m) | 0.868 |

C. SAR Surface and Volume



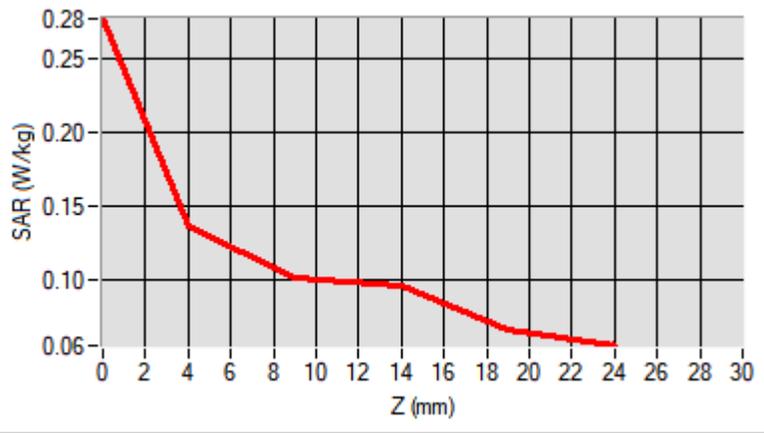
Maximum location: X=-56.00, Y=-24.00 ; SAR Peak: 0.15 W/kg

D. SAR 1g & 10g

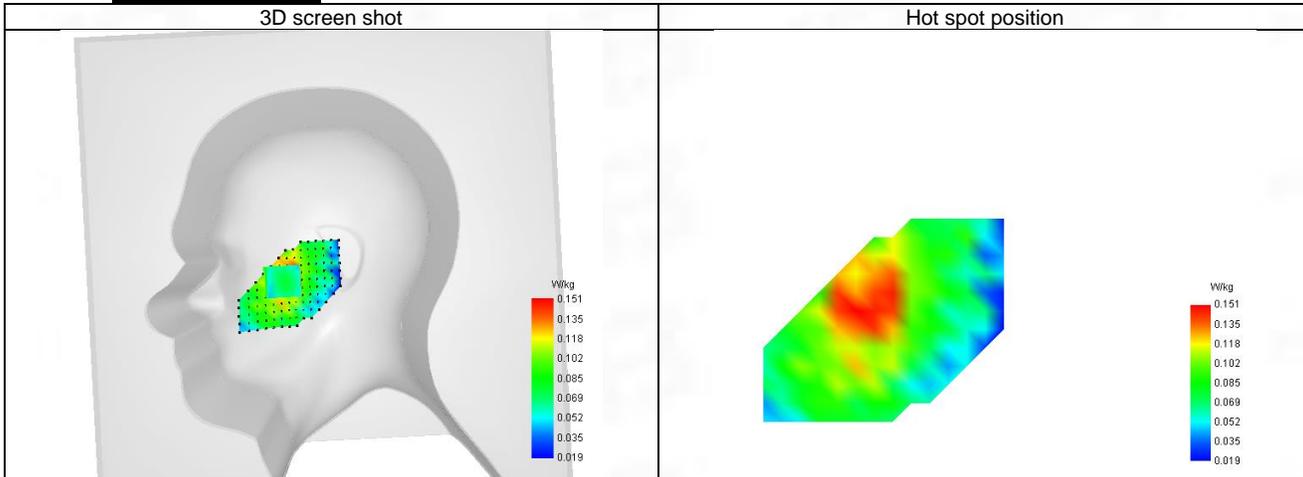
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.111 |
| SAR 1g (W/Kg) | 0.134 |
| Variation (%) | -2.230 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.277 | 0.136 | 0.102 | 0.096 | 0.067 |



F. 3D Image



24-Body with back position in dist. 10mm on Channel 26865 in LTE band 26

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

Date of measurement: 24/4/2023

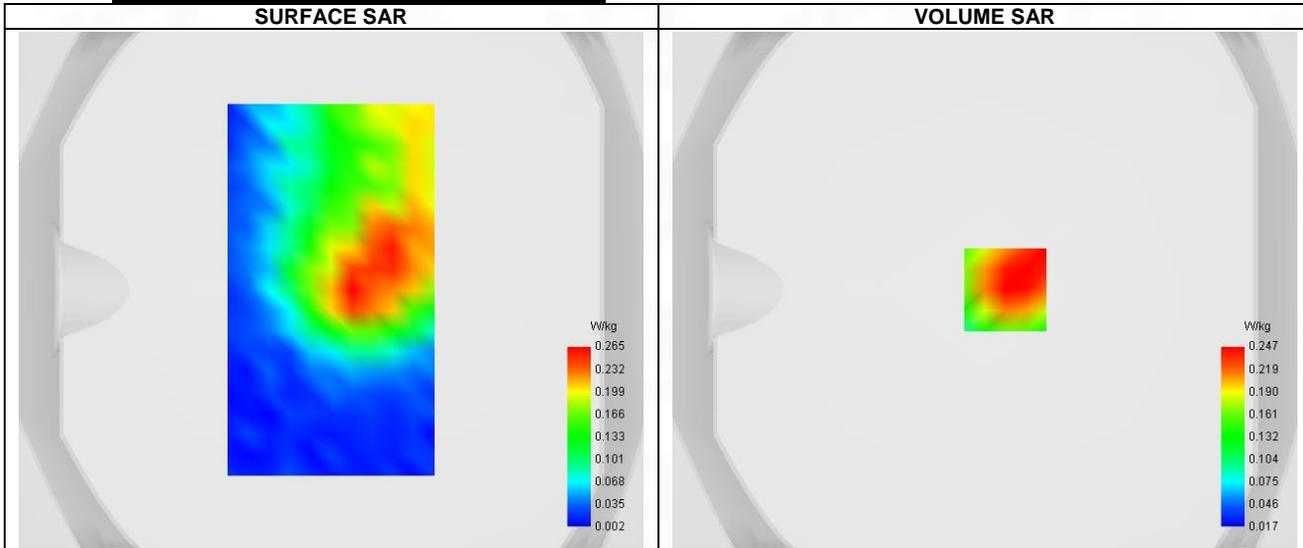
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.68 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 26 |
| Channels | Middle (26865) |
| Signal | LTE FDD |
| Cell Bandwidth | 15 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 38 |
| RB size | 1 |

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 831.680 |
| Relative permittivity (real part) | 41.415 |
| Relative permittivity (imaginary part) | 19.485 |
| Conductivity (S/m) | 0.868 |

C. SAR Surface and Volume



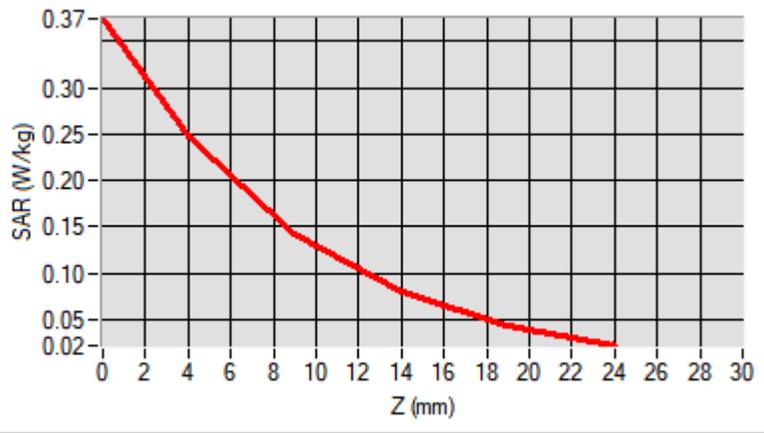
Maximum location: X=8.00, Y=0.00 ; SAR Peak: 0.38 W/kg

D. SAR 1g & 10g

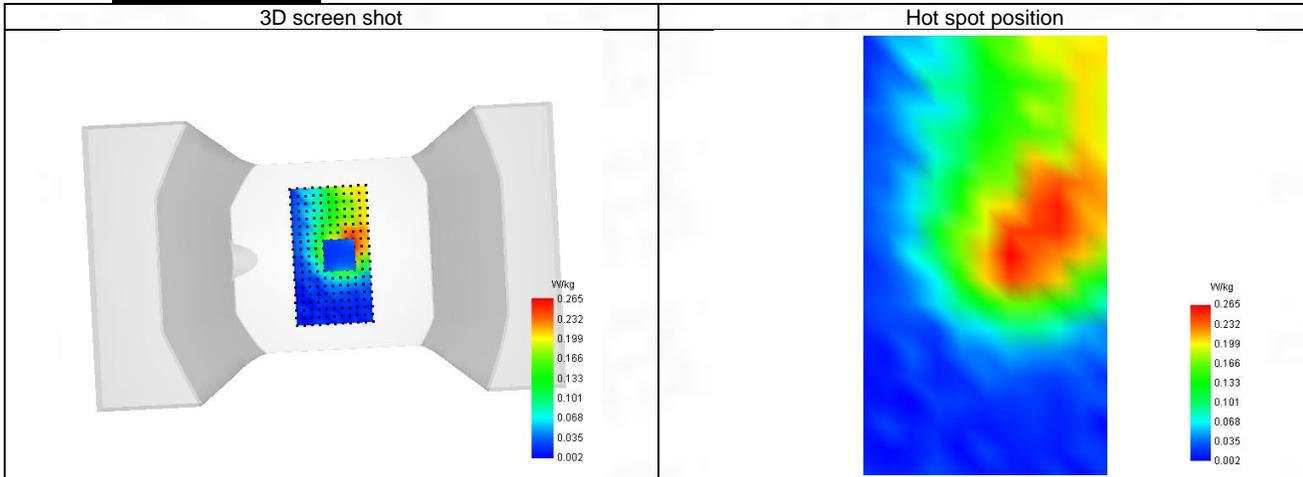
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.146 |
| SAR 1g (W/Kg) | 0.242 |
| Variation (%) | 1.340 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.374 | 0.247 | 0.143 | 0.080 | 0.044 |



F. 3D Image



25-Head with front position in dist. 0mm on Channel 40620 in LTE band 41

SAR Measurement at LTE band 41 (Cheek, Right)

Date of measurement: 26/4/2023

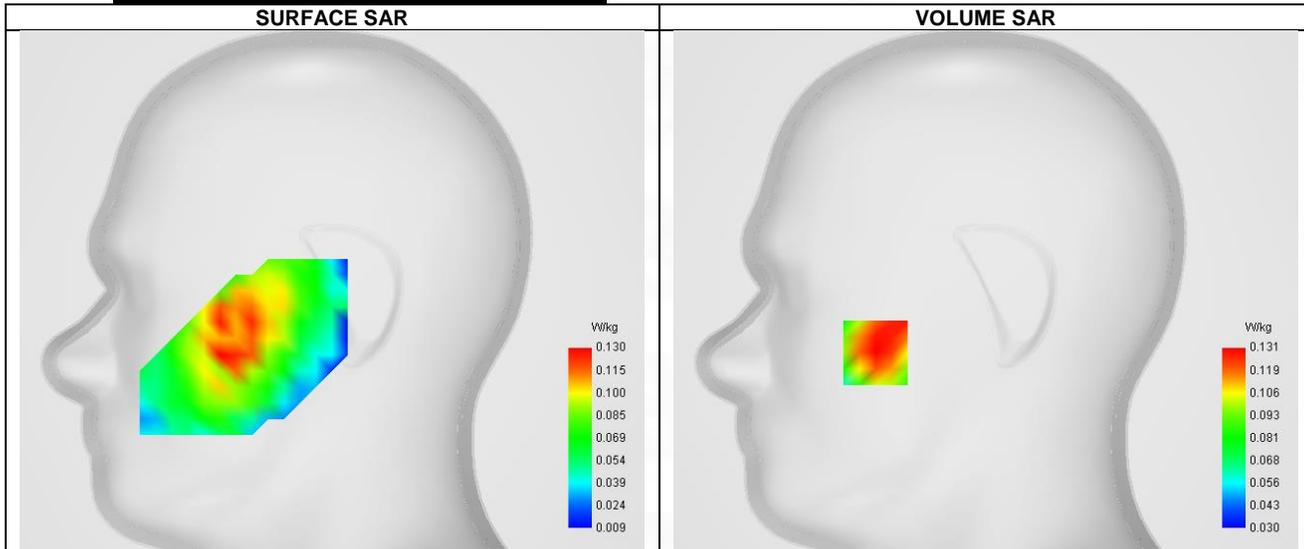
A. Experimental conditions.

| | |
|--------------------------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.40 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 41 |
| Channels | Middle (40620) |
| Signal | LTE TDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 99 |
| RB size | 1 |
| Subframe configuration | 0 |
| Special subframe configuration | 0 |
| Cyclic prefix | Normal |
| Duty Cycle (%) | 0.61 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 2601.910 |
| Relative permittivity (real part) | 38.877 |
| Relative permittivity (imaginary part) | 12.693 |
| Conductivity (S/m) | 1.972 |

C. SAR Surface and Volume



Maximum location: X=-55.00, Y=-31.00 ; SAR Peak: 0.12 W/kg

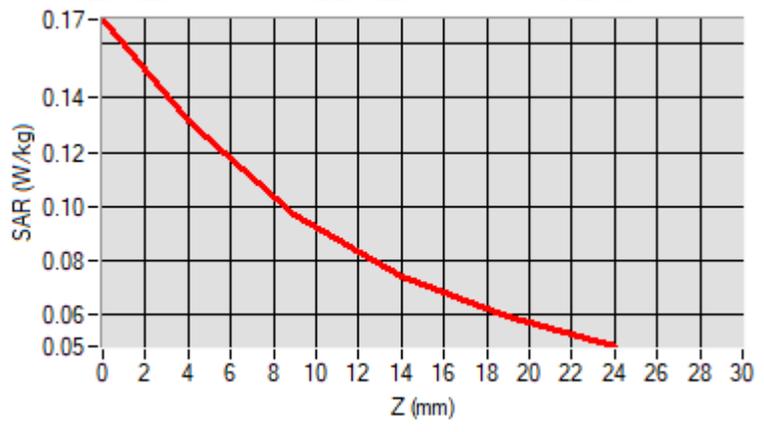
D. SAR 1g & 10g

| | |
|---|----------|
| SAR 10g (W/Kg) | 0.048 |
| SAR 1g (W/Kg) | 0.083 |
| Variation (%) | 2.200 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |

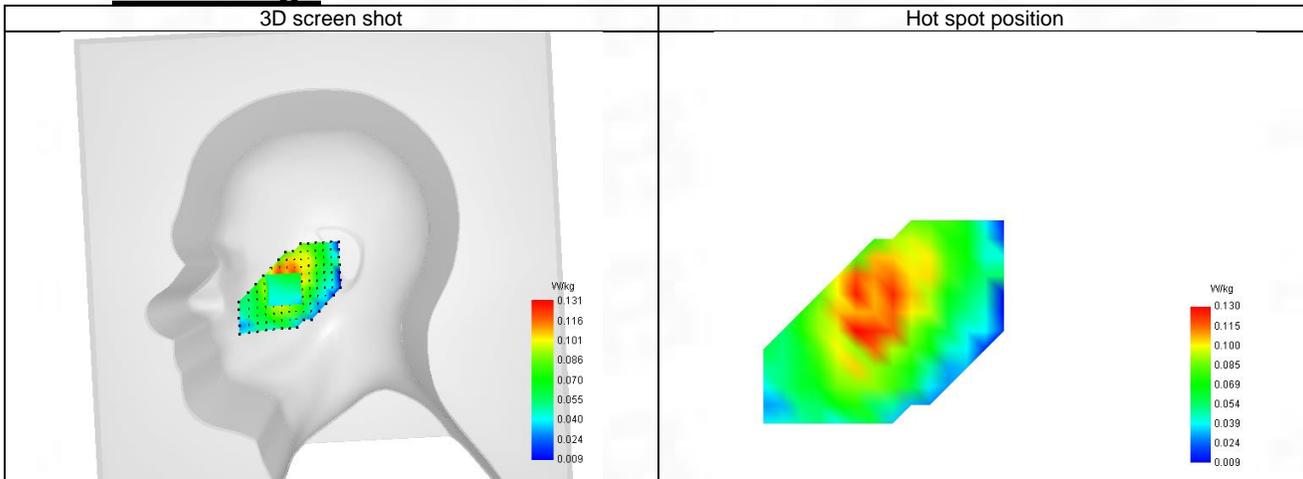
| | |
|---|----------|
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |
|---|----------|

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.169 | 0.131 | 0.097 | 0.074 | 0.059 |



F. 3D Image



26-Body with back position in dist. 10mm on Channel 40620 in LTE band 41

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

Date of measurement: 26/4/2023

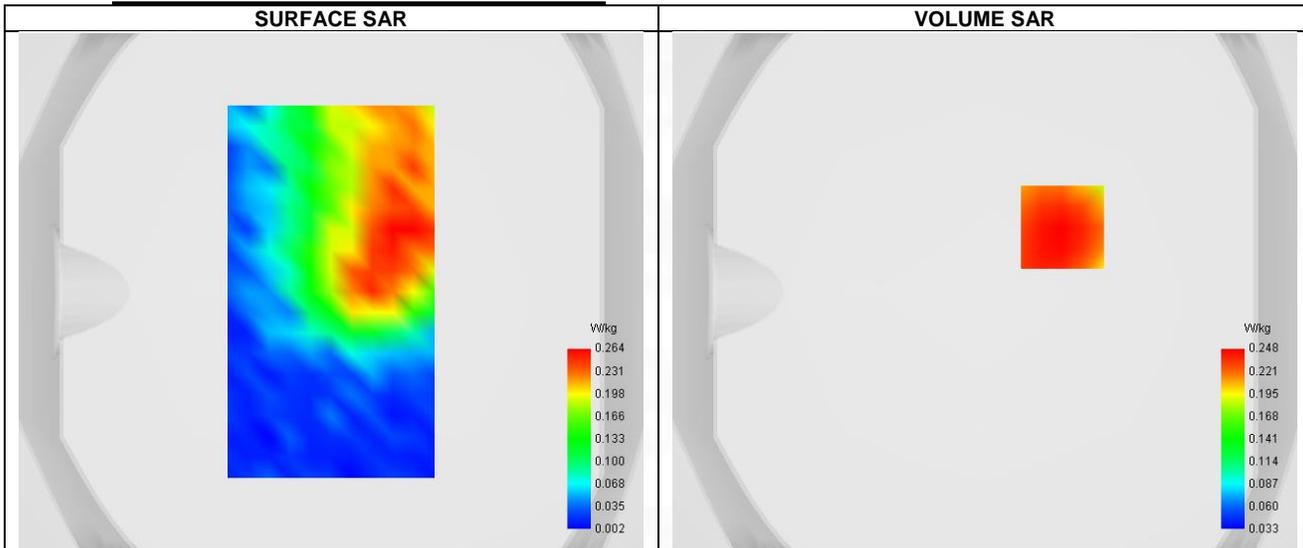
A. Experimental conditions.

| | |
|--------------------------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.40 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 41 |
| Channels | Middle (40620) |
| Signal | LTE TDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 99 |
| RB size | 1 |
| Subframe configuration | 0 |
| Special subframe configuration | 0 |
| Cyclic prefix | Normal |
| Duty Cycle (%) | 0.61 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 2601.910 |
| Relative permittivity (real part) | 38.877 |
| Relative permittivity (imaginary part) | 12.693 |
| Conductivity (S/m) | 1.972 |

C. SAR Surface and Volume



Maximum location: X=30.00, Y=25.00 ; SAR Peak: 0.35 W/kg

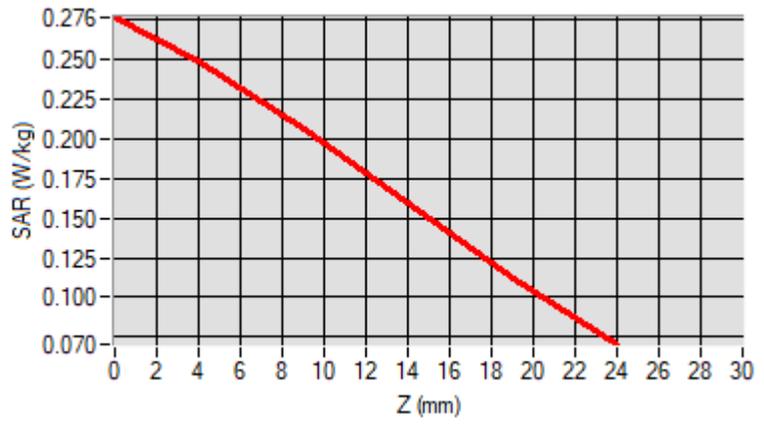
D. SAR 1g & 10g

| | |
|---|----------|
| SAR 10g (W/Kg) | 0.172 |
| SAR 1g (W/Kg) | 0.240 |
| Variation (%) | -1.660 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |

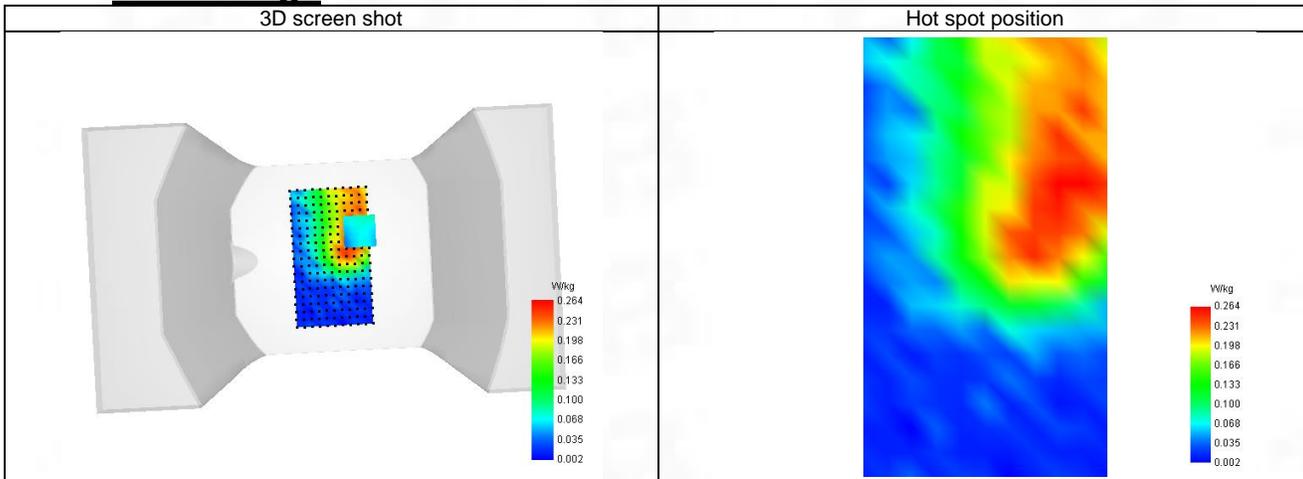
| | |
|---|----------|
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |
|---|----------|

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.276 | 0.248 | 0.206 | 0.159 | 0.112 |



F. 3D Image



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

SAR Measurement at LTE band 66 (Cheek, Right)

Date of measurement: 25/4/2023

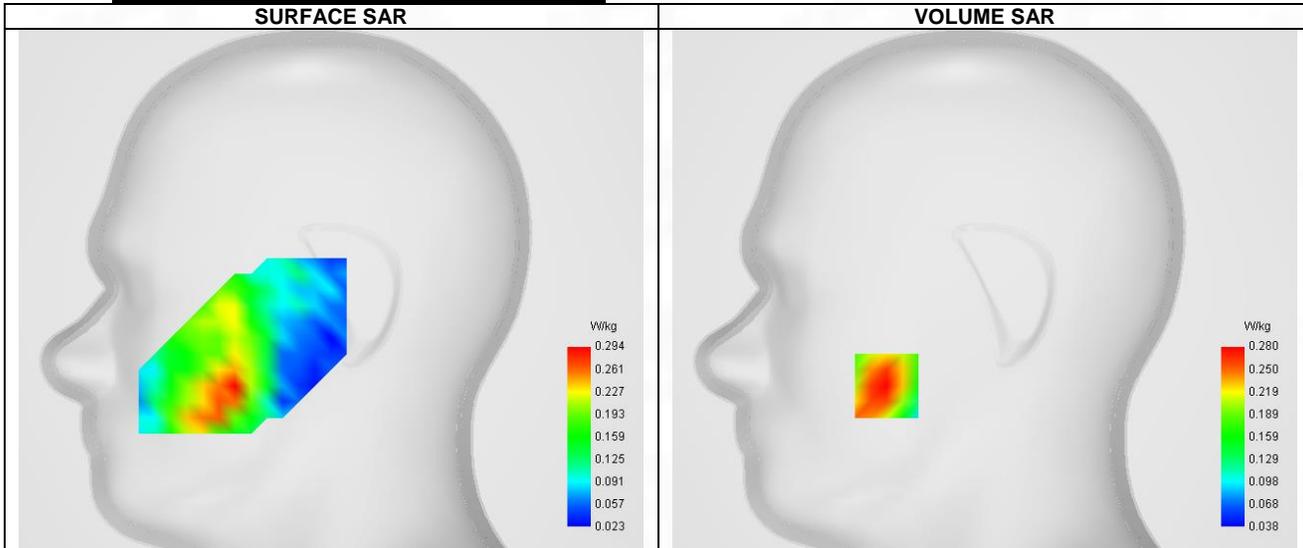
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 1.96 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | LTE band 66 |
| Channels | Lower (132072) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1720.090 |
| Relative permittivity (real part) | 40.034 |
| Relative permittivity (imaginary part) | 13.966 |
| Conductivity (S/m) | 1.329 |

C. SAR Surface and Volume



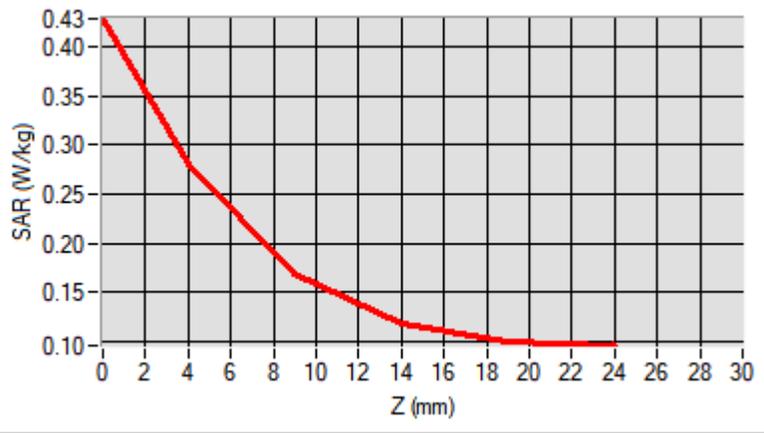
Maximum location: X=-49.00, Y=-48.00 ; SAR Peak: 0.43 W/kg

D. SAR 1g & 10g

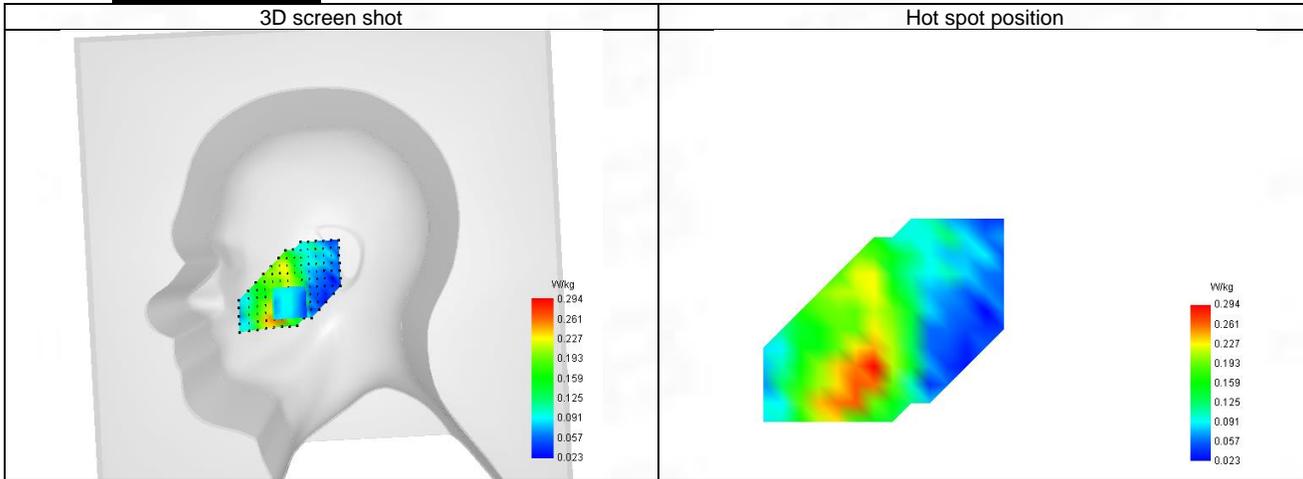
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.178 |
| SAR 1g (W/Kg) | 0.271 |
| Variation (%) | 1.750 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.429 | 0.280 | 0.170 | 0.118 | 0.100 |



F. 3D Image



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

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

Date of measurement: 25/4/2023

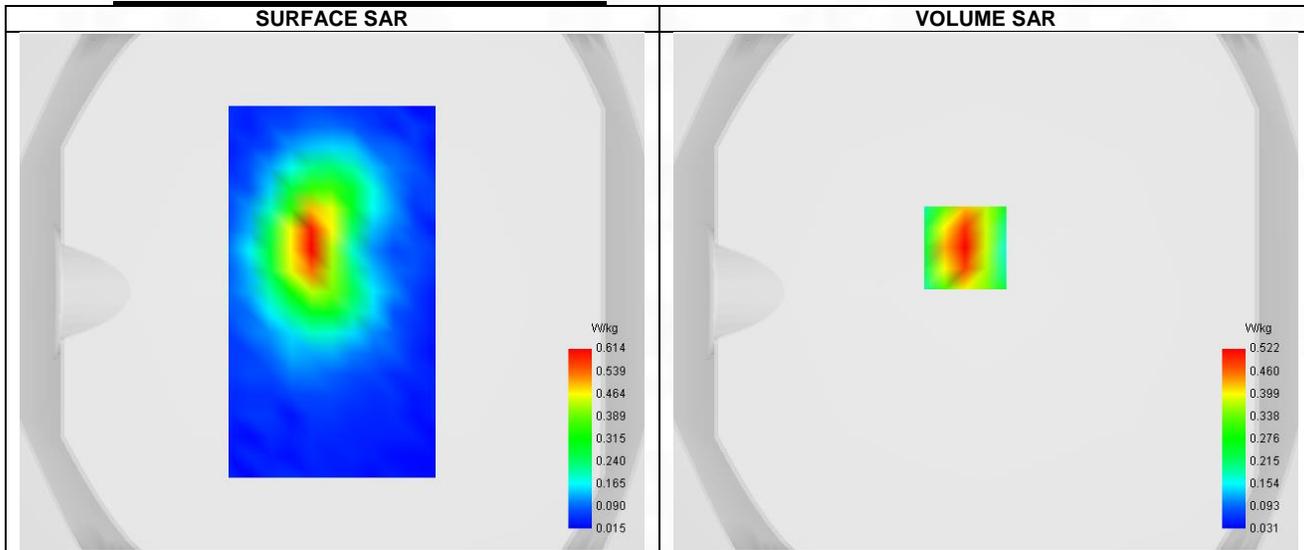
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 1.96 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | LTE band 66 |
| Channels | Lower (132072) |
| Signal | LTE FDD |
| Cell Bandwidth | 20 Mhz |
| Modulation | SC-OFDM - QPSK |
| RB offset | 50 |
| RB size | 1 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 1720.090 |
| Relative permittivity (real part) | 40.034 |
| Relative permittivity (imaginary part) | 13.966 |
| Conductivity (S/m) | 1.329 |

C. SAR Surface and Volume



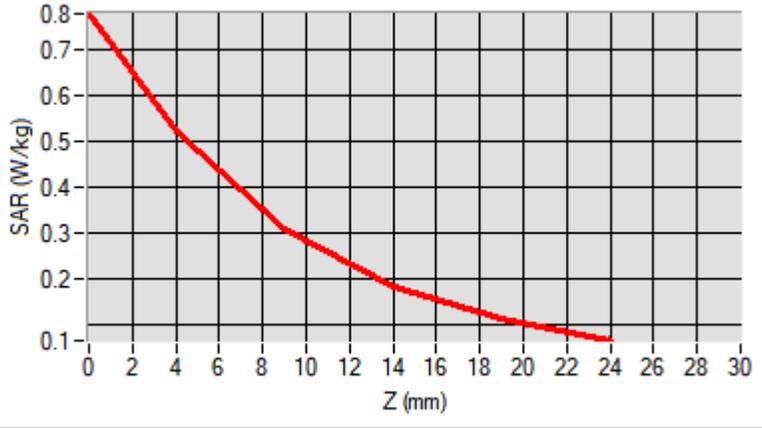
Maximum location: X=-8.00, Y=17.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

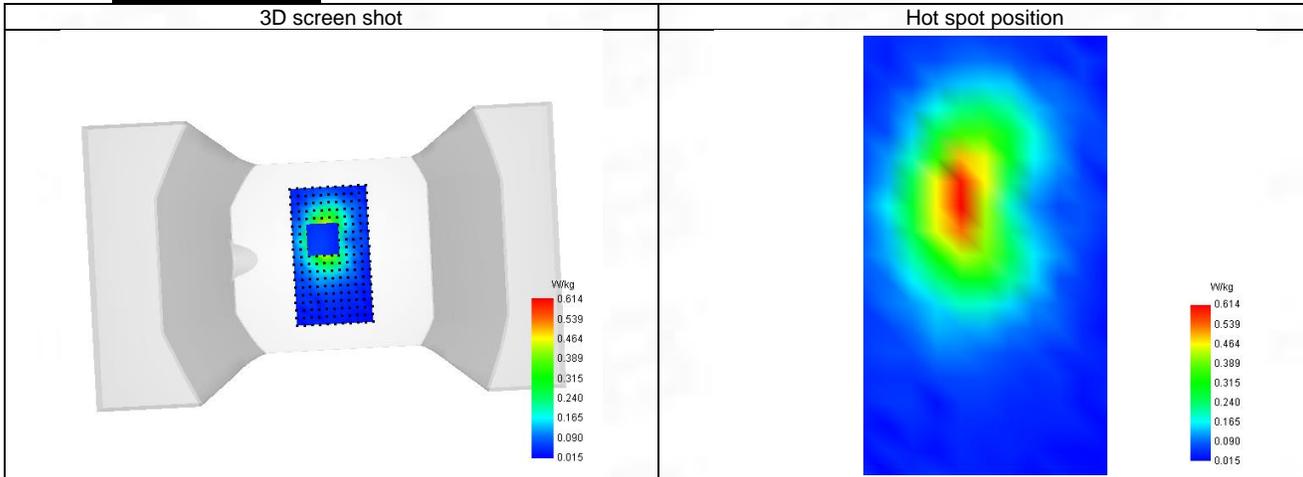
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.274 |
| SAR 1g (W/Kg) | 0.487 |
| Variation (%) | -2.600 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.780 | 0.522 | 0.309 | 0.183 | 0.111 |



F. 3D Image



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

SAR Measurement at LTE band 71 (Cheek, Right)

Date of measurement: 24/4/2023

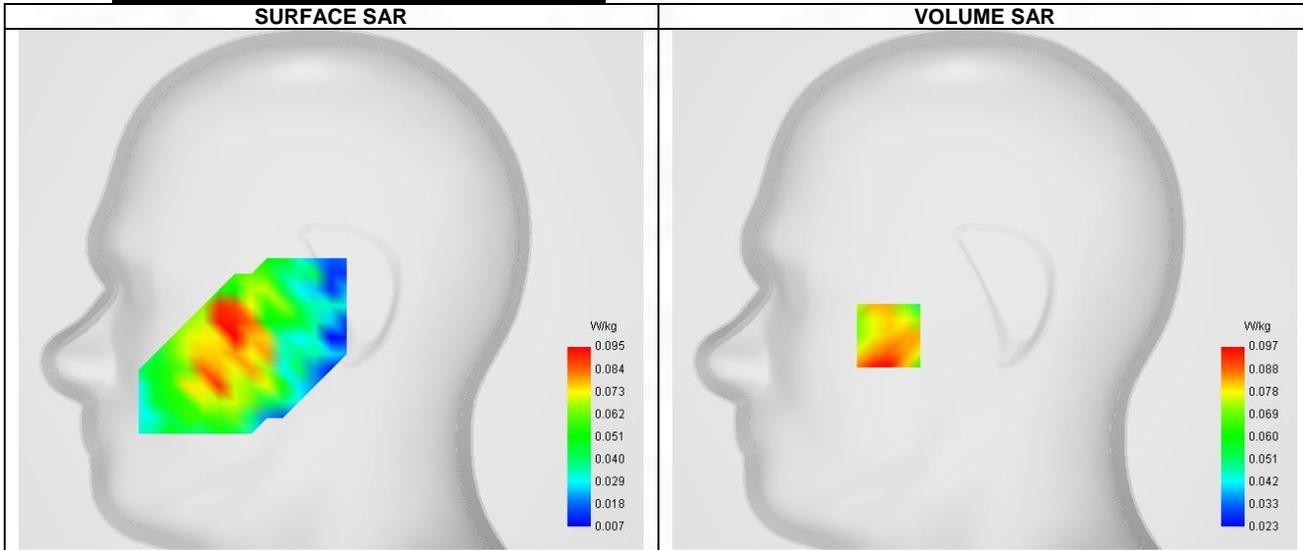
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 673.090 |
| Relative permittivity (real part) | 41.662 |
| Relative permittivity (imaginary part) | 19.238 |
| Conductivity (S/m) | 0.786 |

C. SAR Surface and Volume



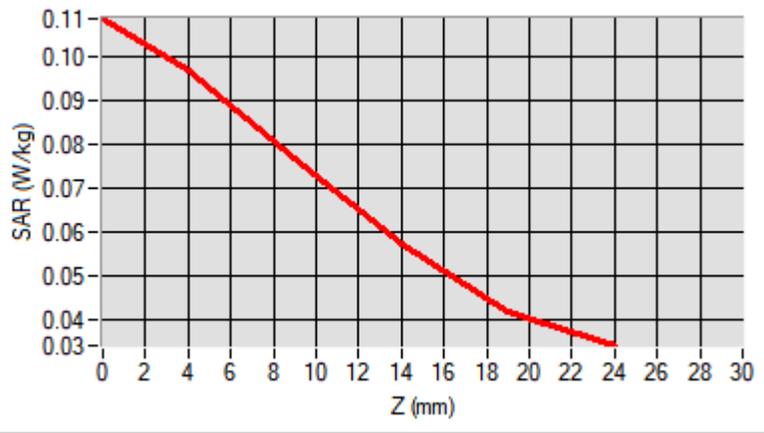
Maximum location: X=-48.00, Y=-23.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

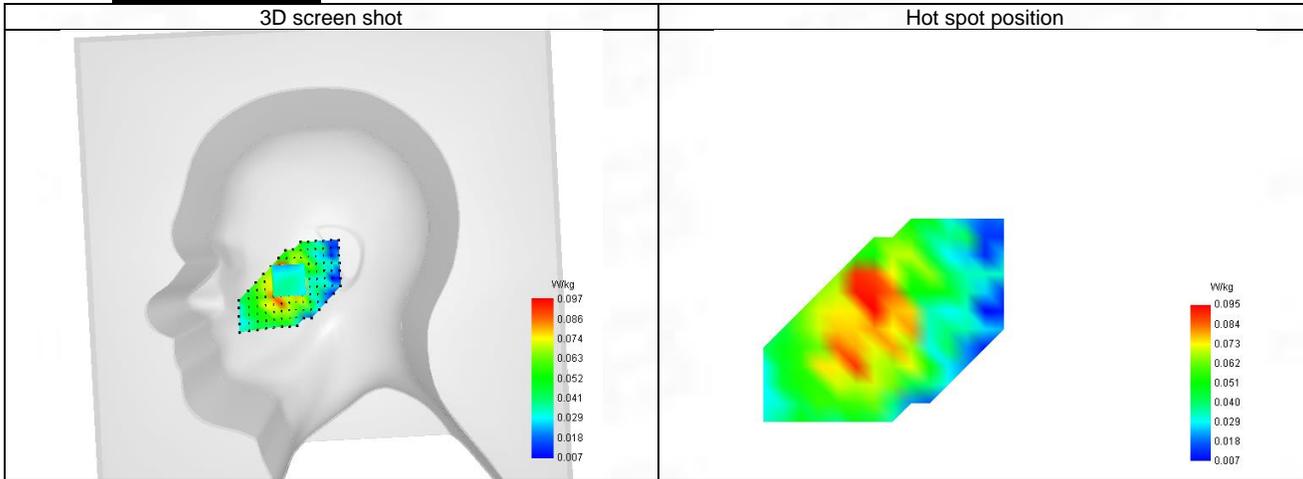
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.066 |
| SAR 1g (W/Kg) | 0.092 |
| Variation (%) | -1.210 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.109 | 0.097 | 0.077 | 0.057 | 0.042 |



F. 3D Image



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

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

Date of measurement: 24/4/2023

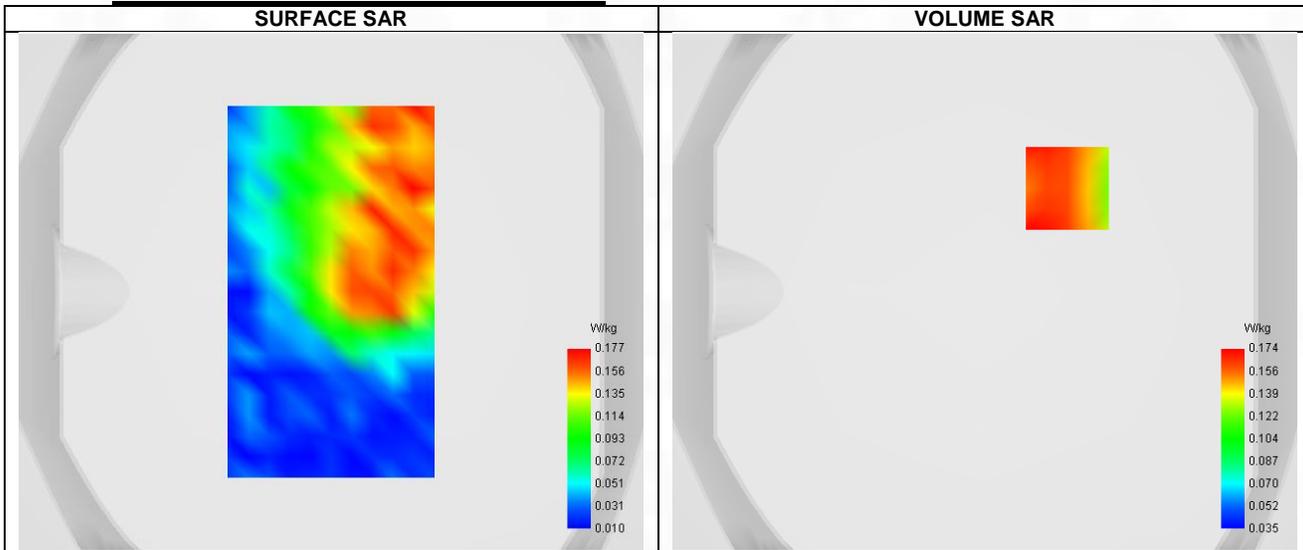
A. Experimental conditions.

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

B. Permittivity

| | |
|--|---------|
| Frequency (MHz) | 673.090 |
| Relative permittivity (real part) | 41.662 |
| Relative permittivity (imaginary part) | 19.238 |
| Conductivity (S/m) | 0.786 |

C. SAR Surface and Volume



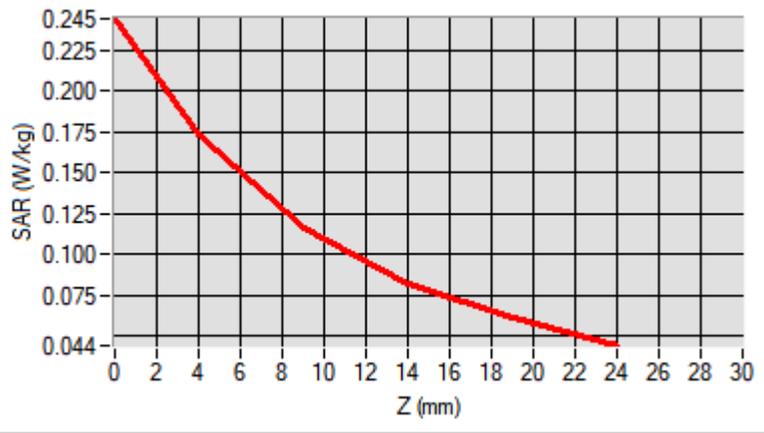
Maximum location: X=32.00, Y=40.00 ; SAR Peak: 0.24 W/kg

D. SAR 1g & 10g

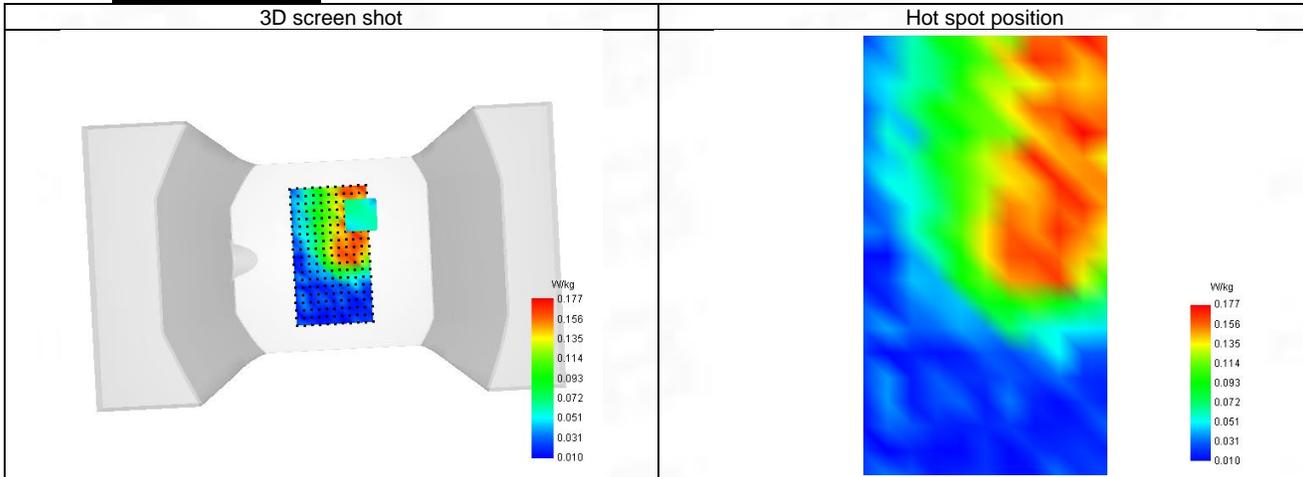
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.128 |
| SAR 1g (W/Kg) | 0.170 |
| Variation (%) | -1.690 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.245 | 0.174 | 0.116 | 0.082 | 0.062 |



F. 3D Image



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

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

Date of measurement: 26/4/2023

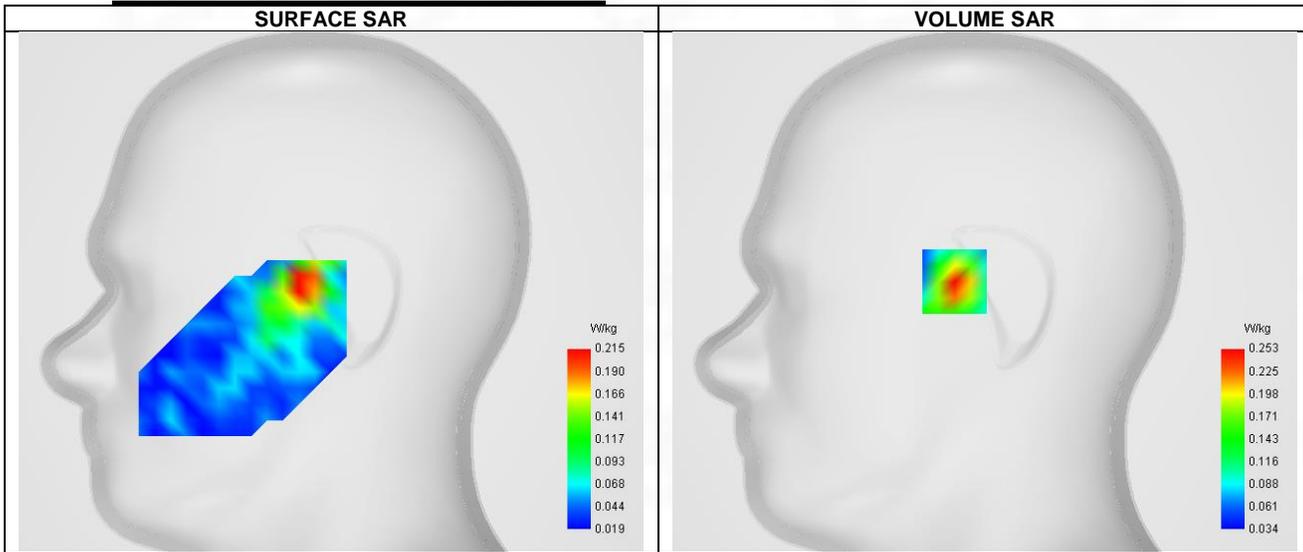
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.36 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | IEEE 802.11b ISM |
| Channels | Higher (11) |
| Signal | IEEE 802.11 |

B. Permittivity

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

C. SAR Surface and Volume



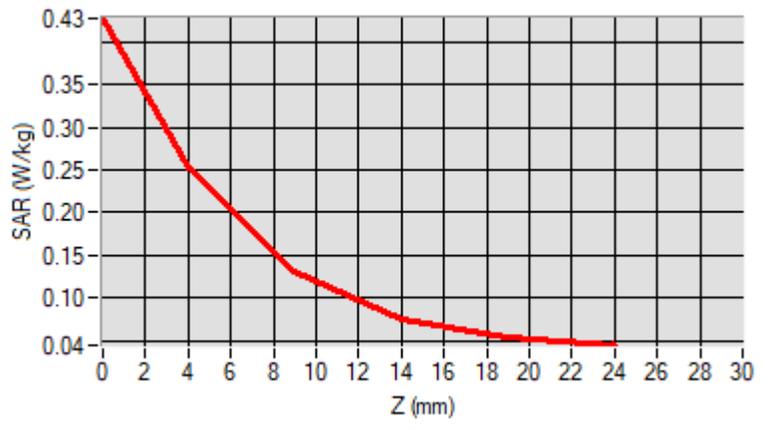
Maximum location: X=-15.00, Y=5.00 ; SAR Peak: 0.43 W/kg

D. SAR 1g & 10g

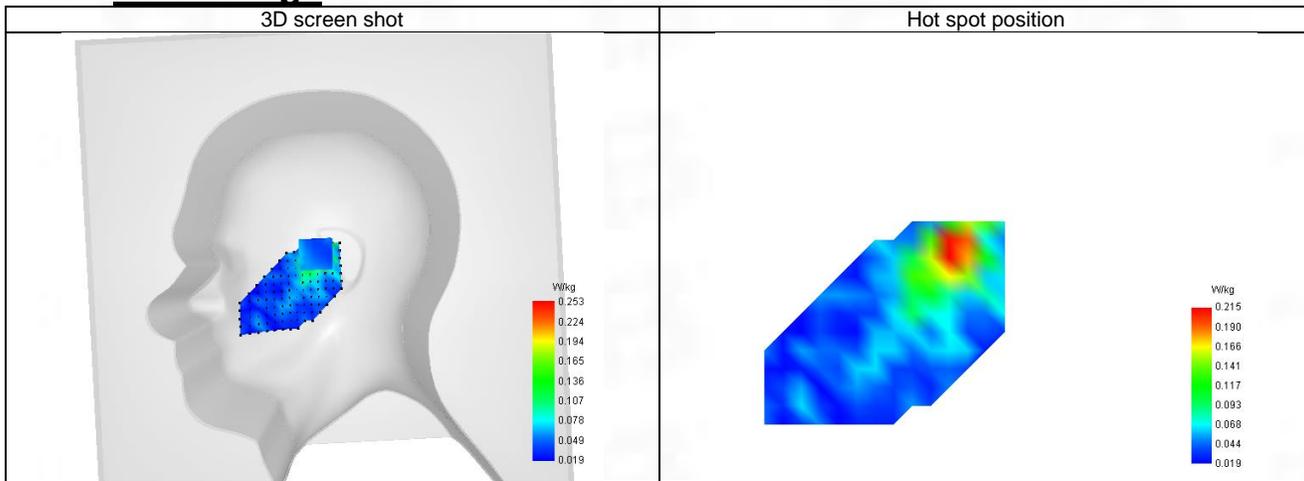
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.128 |
| SAR 1g (W/Kg) | 0.236 |
| Variation (%) | -1.540 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.427 | 0.253 | 0.130 | 0.074 | 0.053 |



F. 3D Image



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

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

Date of measurement: 26/4/2023

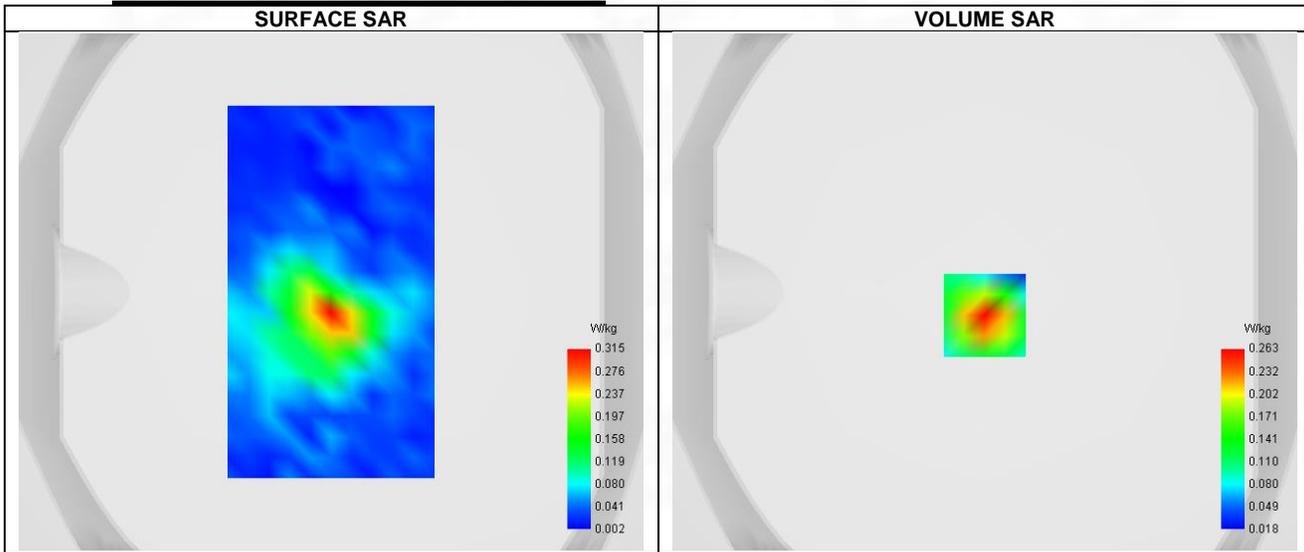
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.36 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | IEEE 802.11b ISM |
| Channels | Higher (11) |
| Signal | IEEE 802.11 |

B. Permittivity

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

C. SAR Surface and Volume



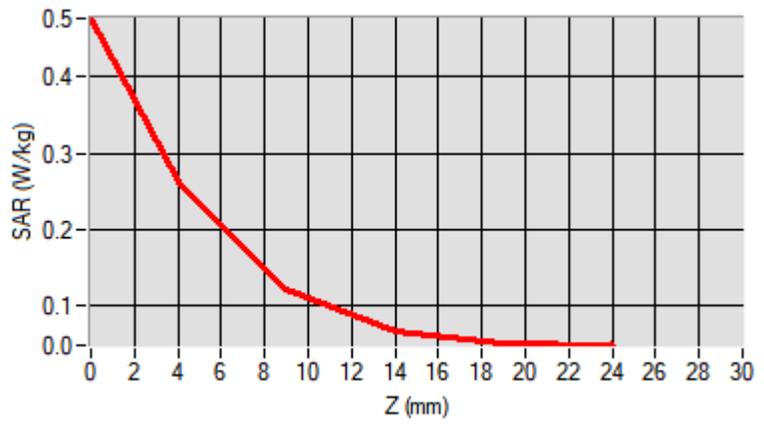
Maximum location: X=0.00, Y=-9.00 ; SAR Peak: 0.48 W/kg

D. SAR 1g & 10g

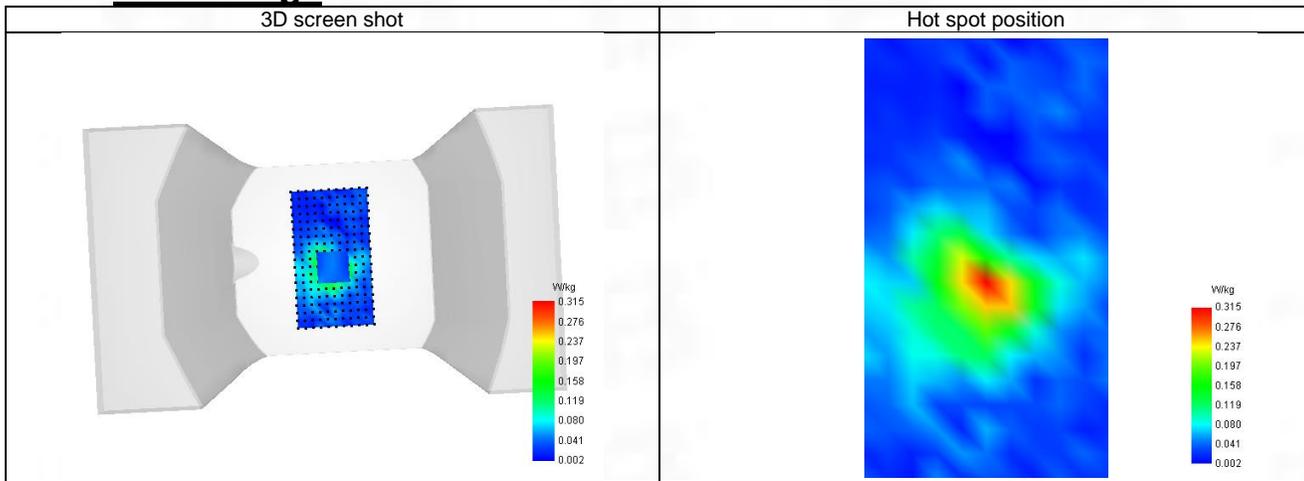
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.123 |
| SAR 1g (W/Kg) | 0.246 |
| Variation (%) | -1.790 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.476 | 0.263 | 0.122 | 0.066 | 0.050 |



F. 3D Image



33-Head with front position in dist. 0mm on Channel 36 in IEEE 802.11a U-NII

SAR Measurement at IEEE 802.11a U-NII (Tilt, Right)

Date of measurement: 26/4/2023

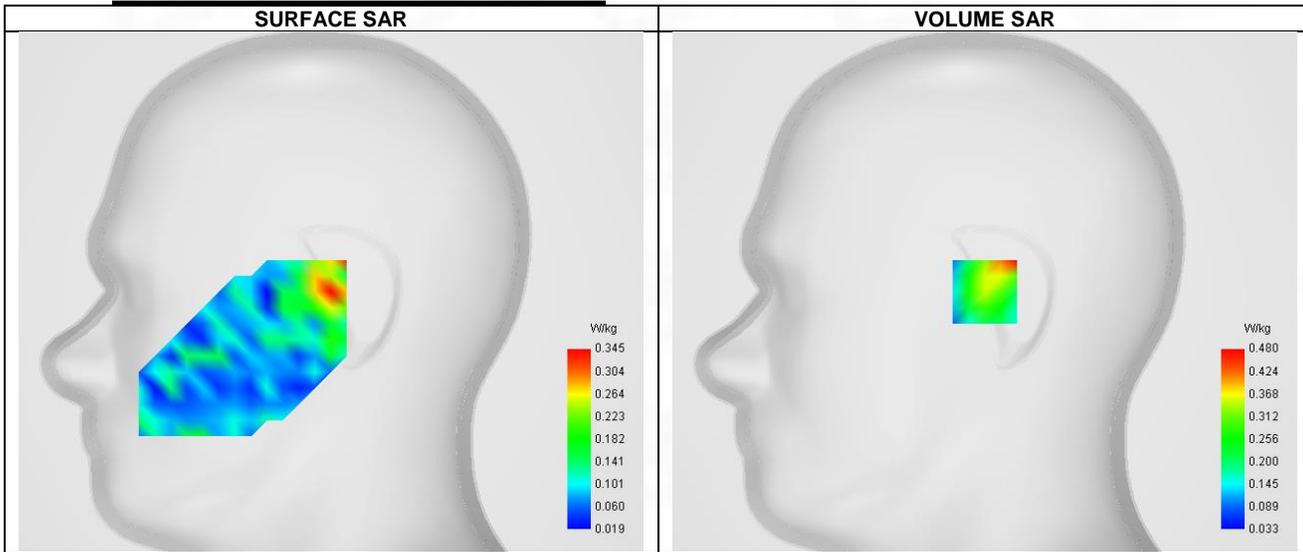
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.24 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Tilt |
| Band | IEEE 802.11a U-NII |
| Channels | Lower (36) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5180.000 |
| Relative permittivity (real part) | 36.020 |
| Relative permittivity (imaginary part) | 16.119 |
| Conductivity (S/m) | 4.639 |

C. SAR Surface and Volume



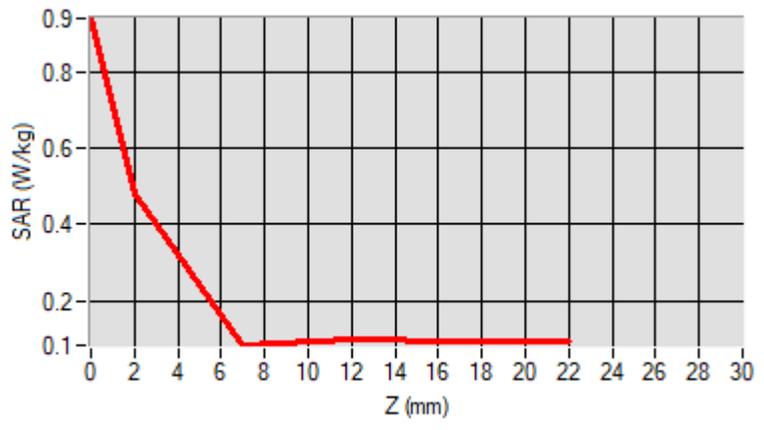
Maximum location: X=0.00, Y=0.00 ; SAR Peak: 0.93 W/kg

D. SAR 1g & 10g

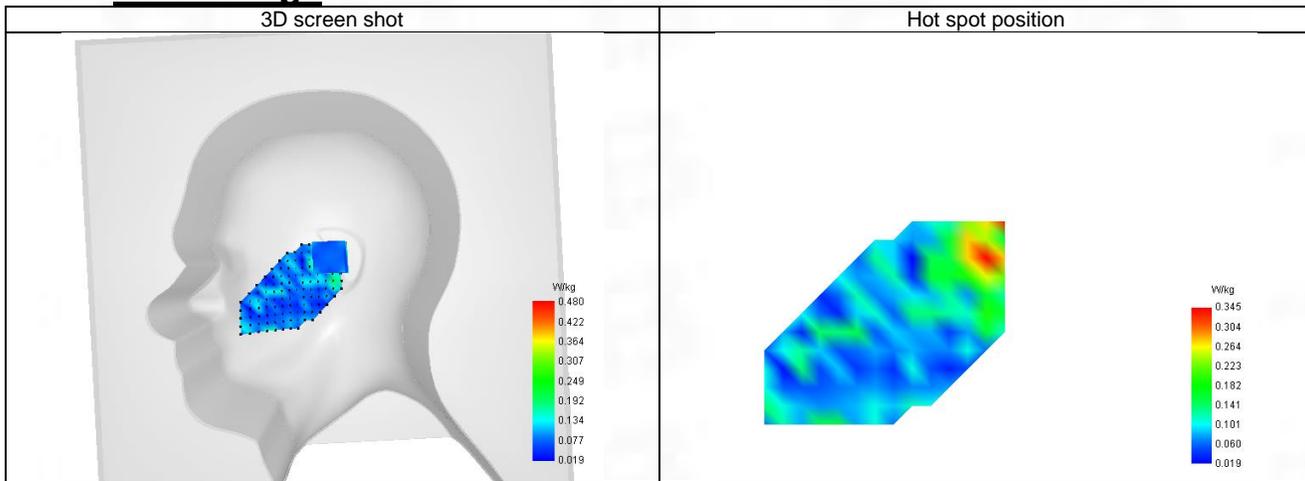
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.195 |
| SAR 1g (W/Kg) | 0.406 |
| Variation (%) | 1.400 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.941 | 0.480 | 0.083 | 0.101 | 0.095 |



F. 3D Image



34-Body with top position in dist. 10mm on Channel 36 in IEEE 802.11a U-NII

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

Date of measurement: 26/4/2023

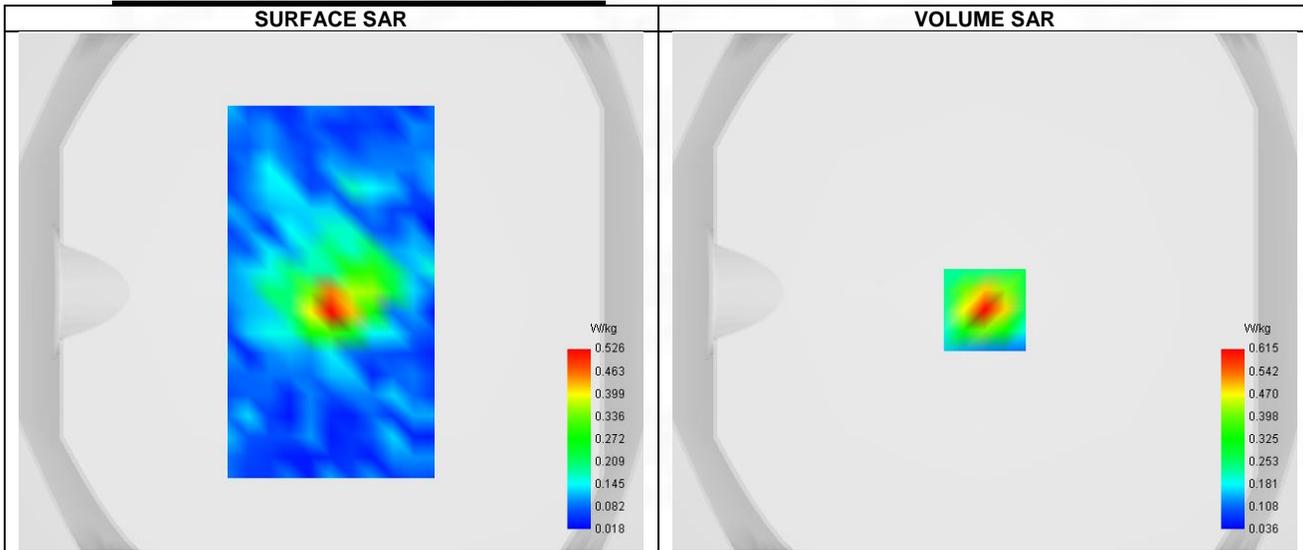
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.24 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | IEEE 802.11a U-NII |
| Channels | Lower (36) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5180.000 |
| Relative permittivity (real part) | 36.020 |
| Relative permittivity (imaginary part) | 16.119 |
| Conductivity (S/m) | 4.639 |

C. SAR Surface and Volume



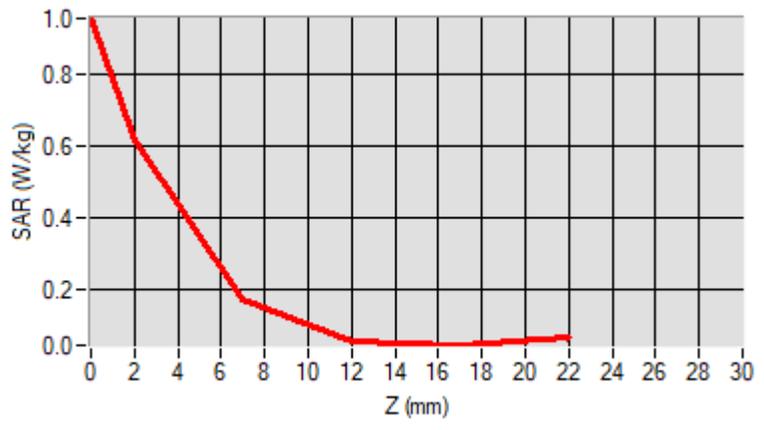
Maximum location: X=0.00, Y=-7.00 ; SAR Peak: 0.99 W/kg

D. SAR 1g & 10g

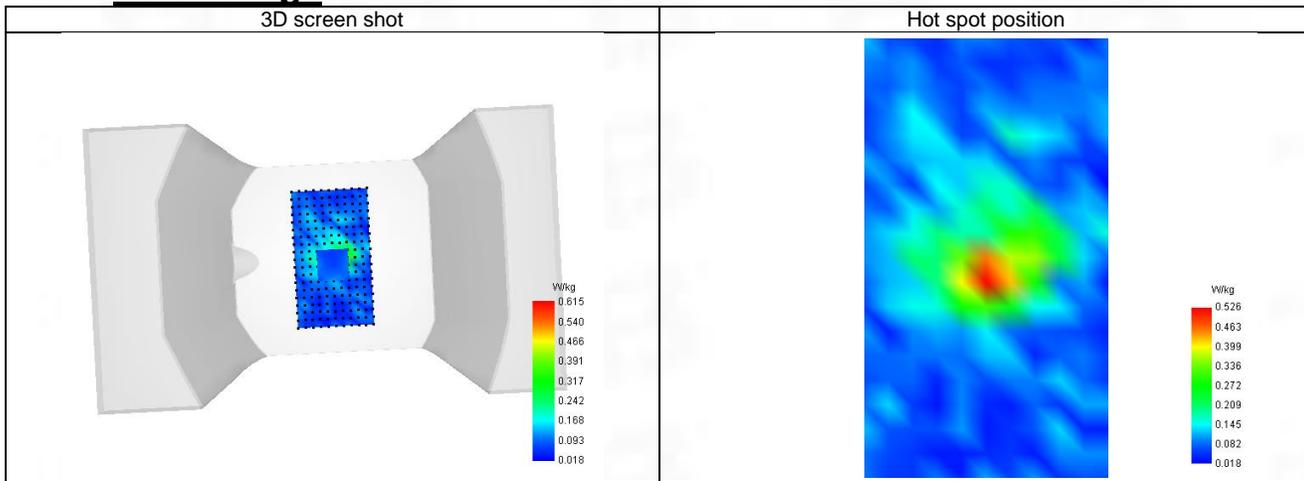
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.187 |
| SAR 1g (W/Kg) | 0.389 |
| Variation (%) | 1.180 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.958 | 0.615 | 0.172 | 0.053 | 0.041 |



F. 3D Image



35-Head with front position in dist. 0mm on Channel 64 in IEEE 802.11a U-NII

SAR Measurement at IEEE 802.11a U-NII (Tilt, Right)

Date of measurement: 26/4/2023

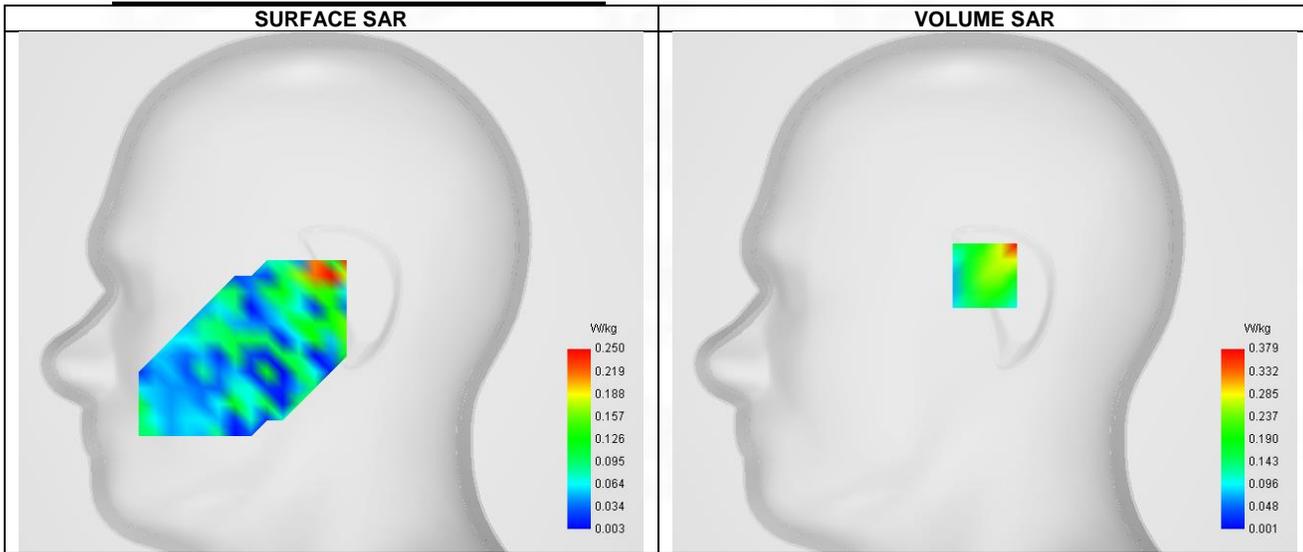
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.12 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Tilt |
| Band | IEEE 802.11a U-NII |
| Channels | Higher (64) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5320.000 |
| Relative permittivity (real part) | 35.880 |
| Relative permittivity (imaginary part) | 16.172 |
| Conductivity (S/m) | 4.780 |

C. SAR Surface and Volume



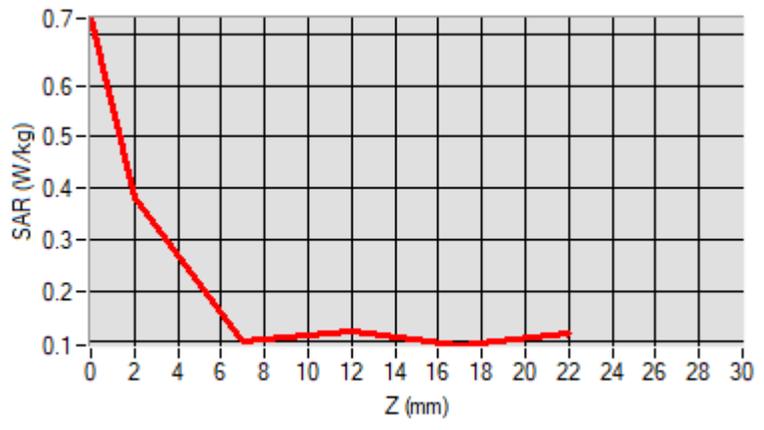
Maximum location: X=0.00, Y=8.00 ; SAR Peak: 0.71 W/kg

D. SAR 1g & 10g

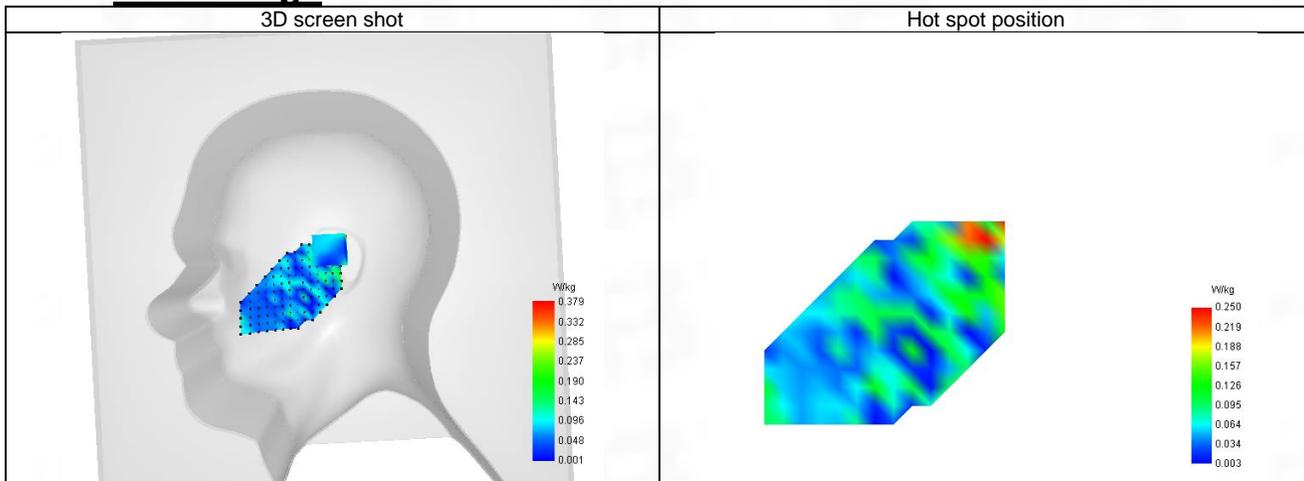
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.150 |
| SAR 1g (W/Kg) | 0.315 |
| Variation (%) | -1.002 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.731 | 0.379 | 0.102 | 0.119 | 0.093 |



F. 3D Image



36-Body with back position in dist. 10mm on Channel 64 in IEEE 802.11a U-NII

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

Date of measurement: 26/4/2023

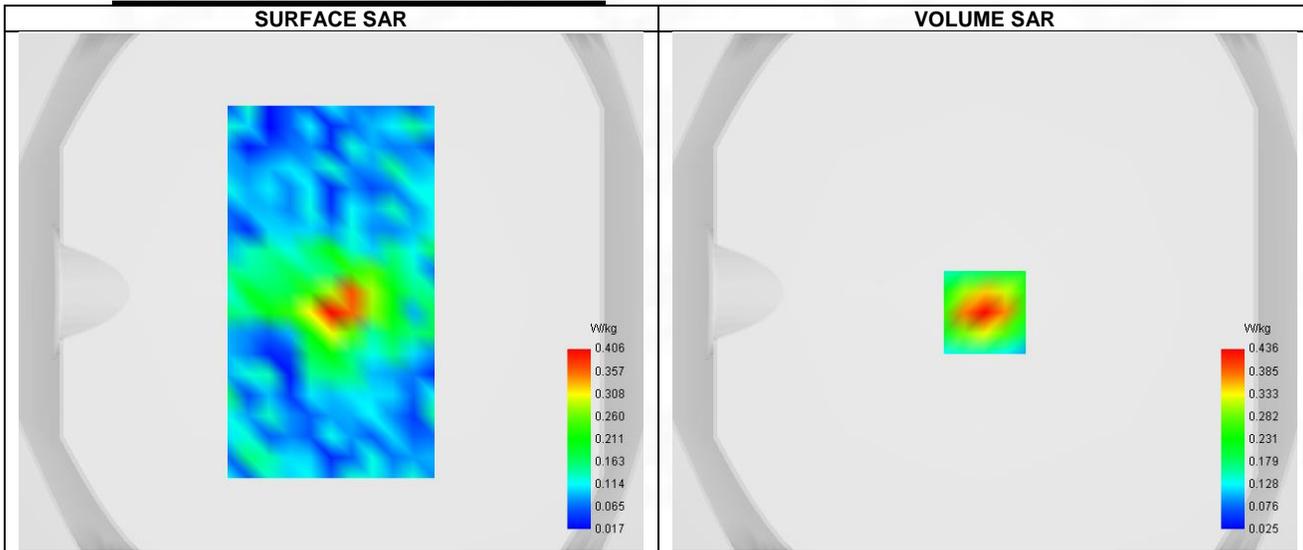
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.12 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | IEEE 802.11a U-NII |
| Channels | Higher (64) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5320.000 |
| Relative permittivity (real part) | 35.880 |
| Relative permittivity (imaginary part) | 16.172 |
| Conductivity (S/m) | 4.780 |

C. SAR Surface and Volume



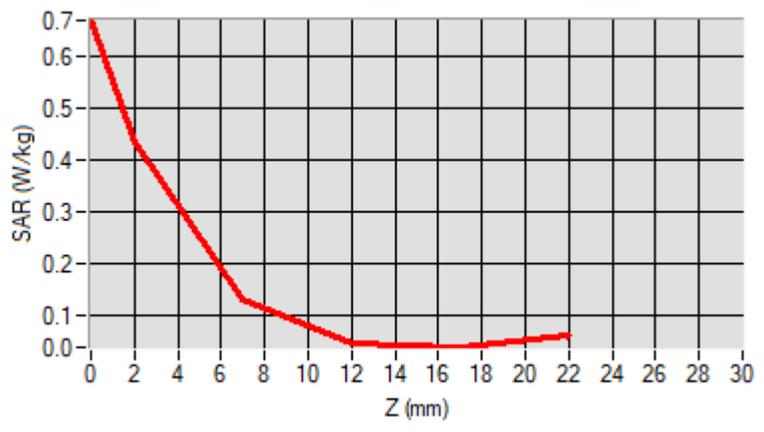
Maximum location: X=0.00, Y=-8.00 ; SAR Peak: 0.69 W/kg

D. SAR 1g & 10g

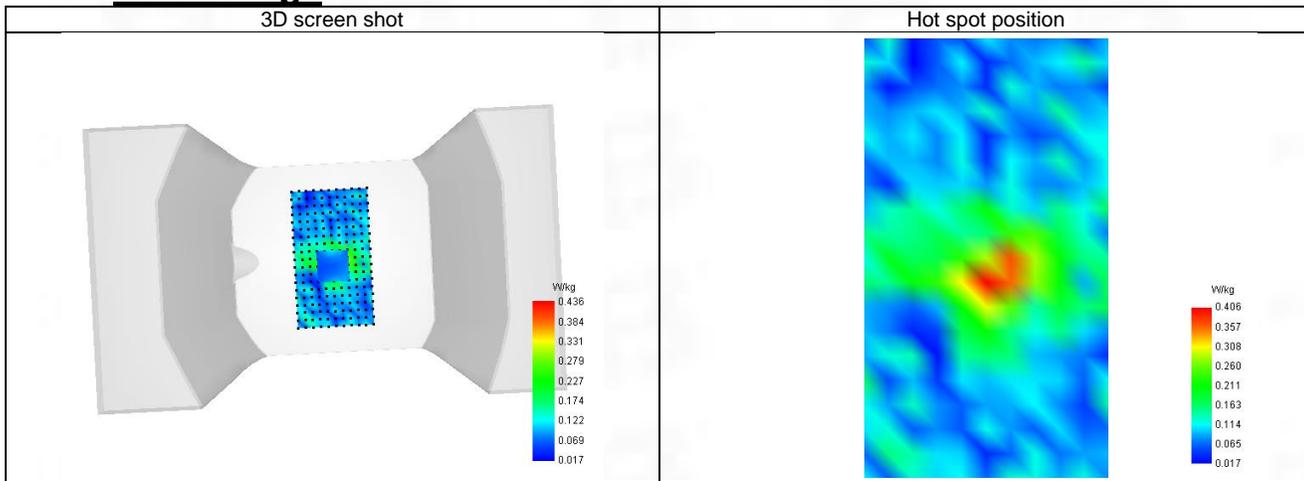
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.157 |
| SAR 1g (W/Kg) | 0.291 |
| Variation (%) | -1.300 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.671 | 0.436 | 0.131 | 0.046 | 0.040 |



F. 3D Image



37-Head with front position in dist. 0mm on Channel 140 in IEEE 802.11a U-NII

SAR Measurement at IEEE 802.11a U-NII (Tilt, Right)

Date of measurement: 26/4/2023

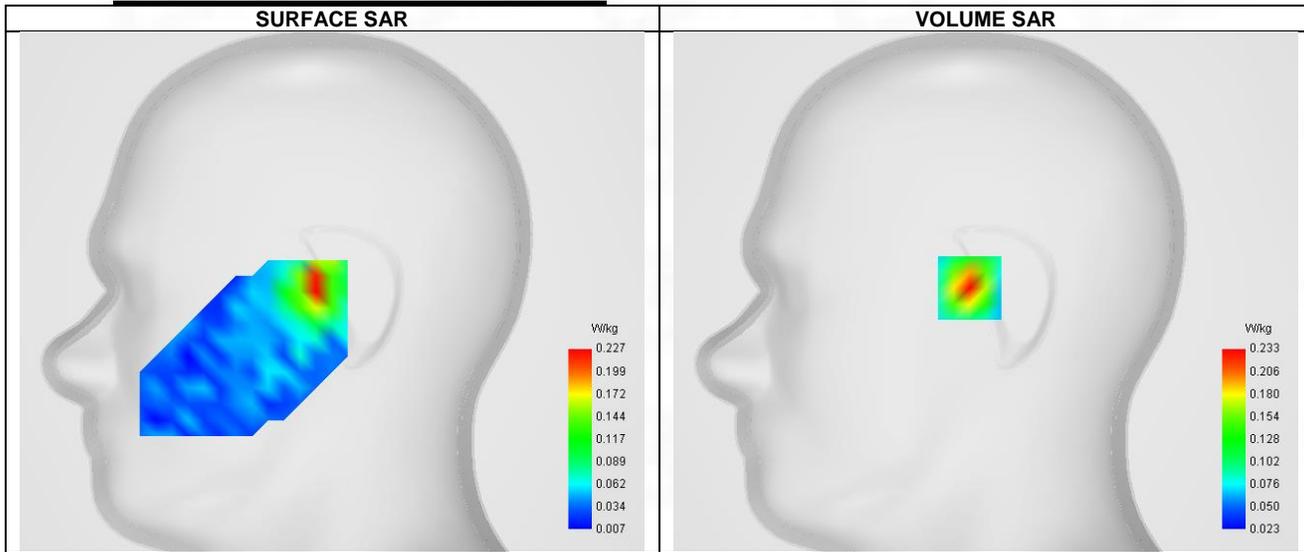
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.04 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Tilt |
| Band | IEEE 802.11a U-NII |
| Channels | Higher (140) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5700.000 |
| Relative permittivity (real part) | 35.280 |
| Relative permittivity (imaginary part) | 16.520 |
| Conductivity (S/m) | 5.210 |

C. SAR Surface and Volume



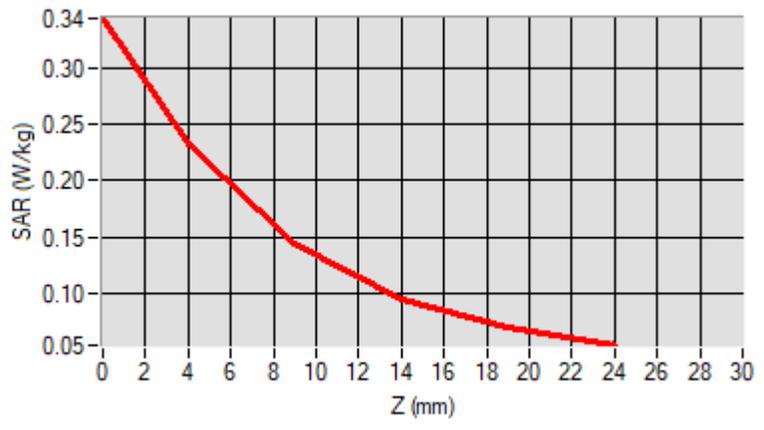
Maximum location: X=-8.00, Y=2.00 ; SAR Peak: 0.35 W/kg

D. SAR 1g & 10g

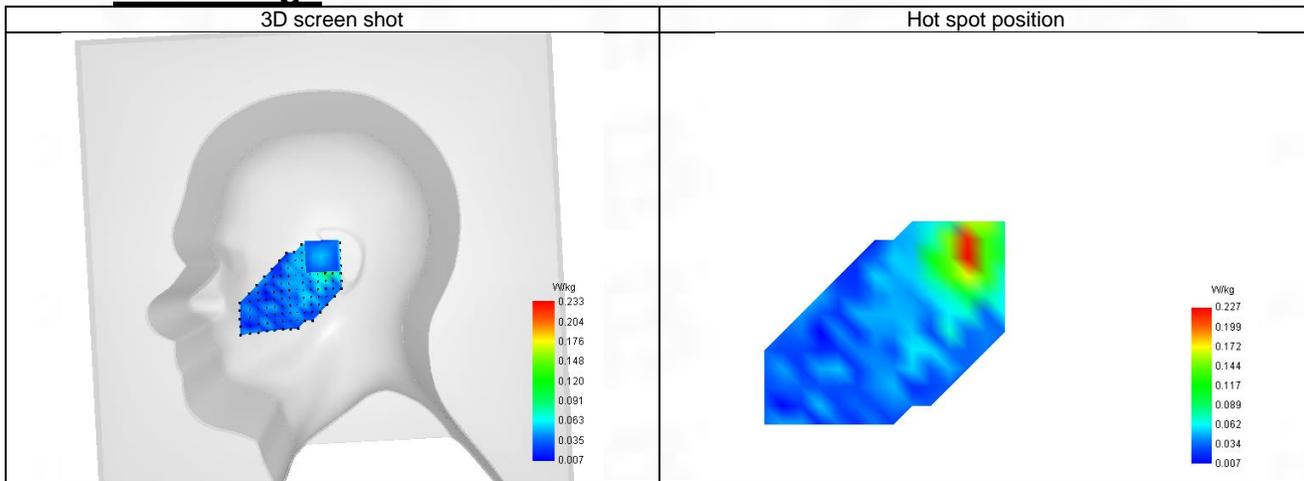
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.177 |
| SAR 1g (W/Kg) | 0.288 |
| Variation (%) | 2.530 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.343 | 0.233 | 0.144 | 0.095 | 0.069 |



F. 3D Image



38-Body with back position in dist. 10mm on Channel 140 in IEEE 802.11a U-NII

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

Date of measurement: 26/4/2023

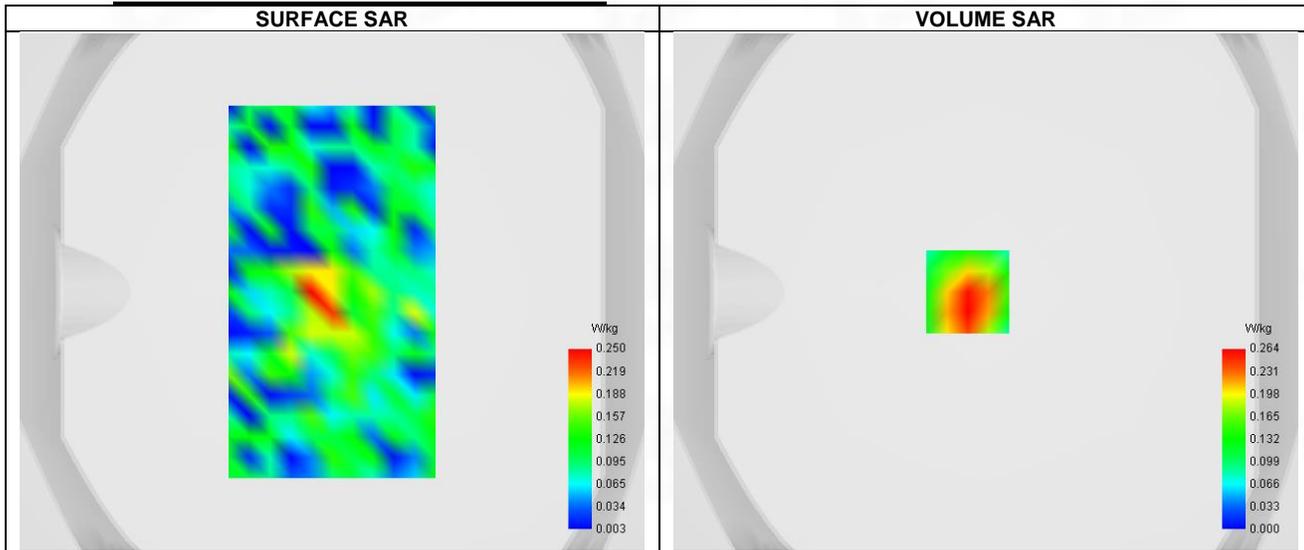
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.04 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | IEEE 802.11a U-NII |
| Channels | Higher (140) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5700.000 |
| Relative permittivity (real part) | 35.280 |
| Relative permittivity (imaginary part) | 16.520 |
| Conductivity (S/m) | 5.210 |

C. SAR Surface and Volume



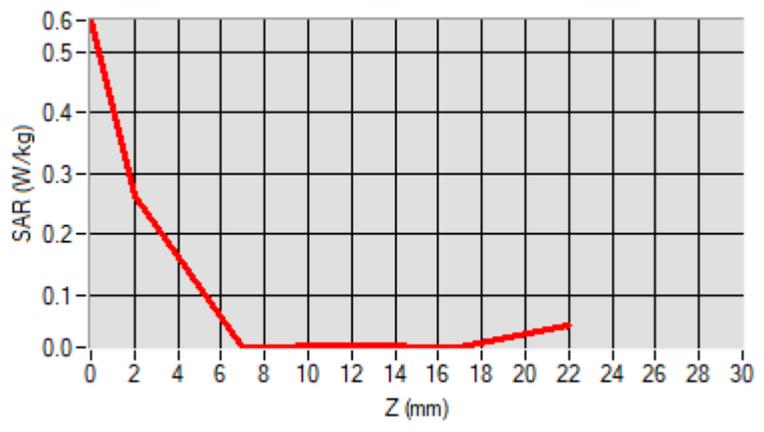
Maximum location: X=-7.00, Y=0.00 ; SAR Peak: 0.53 W/kg

D. SAR 1g & 10g

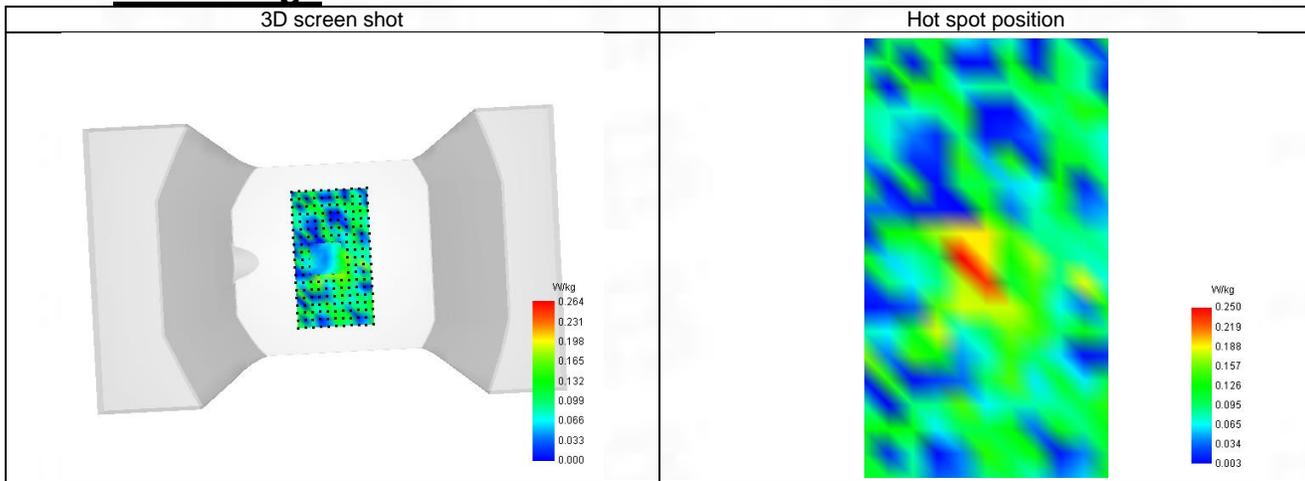
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.105 |
| SAR 1g (W/Kg) | 0.201 |
| Variation (%) | -0.550 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.551 | 0.264 | 0.014 | 0.019 | 0.016 |



F. 3D Image



39-Head with front position in dist. 0mm on Channel 149 in IEEE 802.11a U-NII

SAR Measurement at IEEE 802.11a U-NII (Tilt, Right)

Date of measurement: 26/4/2023

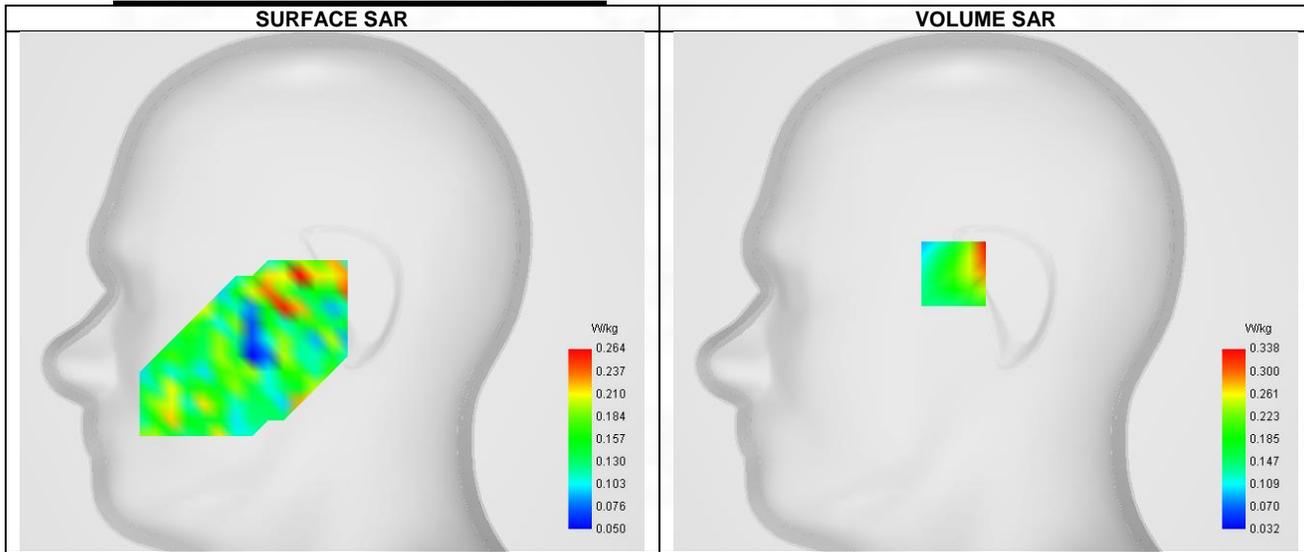
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.04 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Tilt |
| Band | IEEE 802.11a U-NII |
| Channels | Lower (149) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5745.000 |
| Relative permittivity (real part) | 35.355 |
| Relative permittivity (imaginary part) | 16.344 |
| Conductivity (S/m) | 5.216 |

C. SAR Surface and Volume



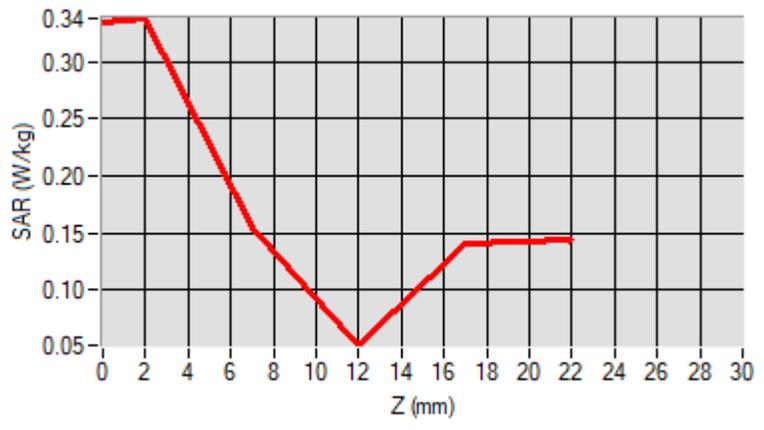
Maximum location: X=-16.00, Y=9.00 ; SAR Peak: 0.79 W/kg

D. SAR 1g & 10g

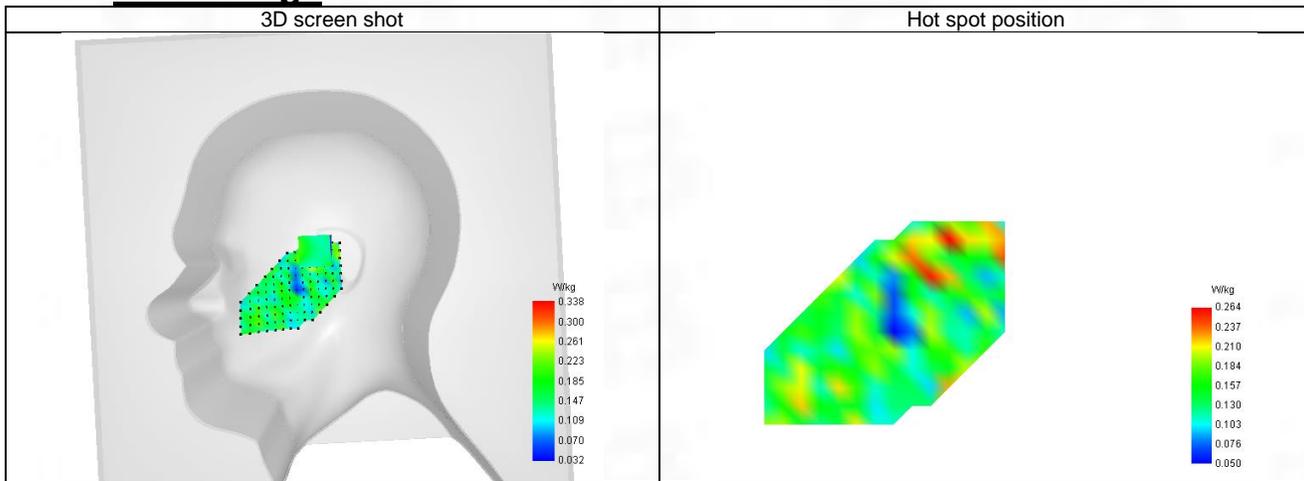
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.192 |
| SAR 1g (W/Kg) | 0.312 |
| Variation (%) | -1.720 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.334 | 0.338 | 0.155 | 0.052 | 0.142 |



F. 3D Image



40-Body with front position in dist. 10mm on Channel 149 in IEEE 802.11a U-NII

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

Date of measurement: 26/4/2023

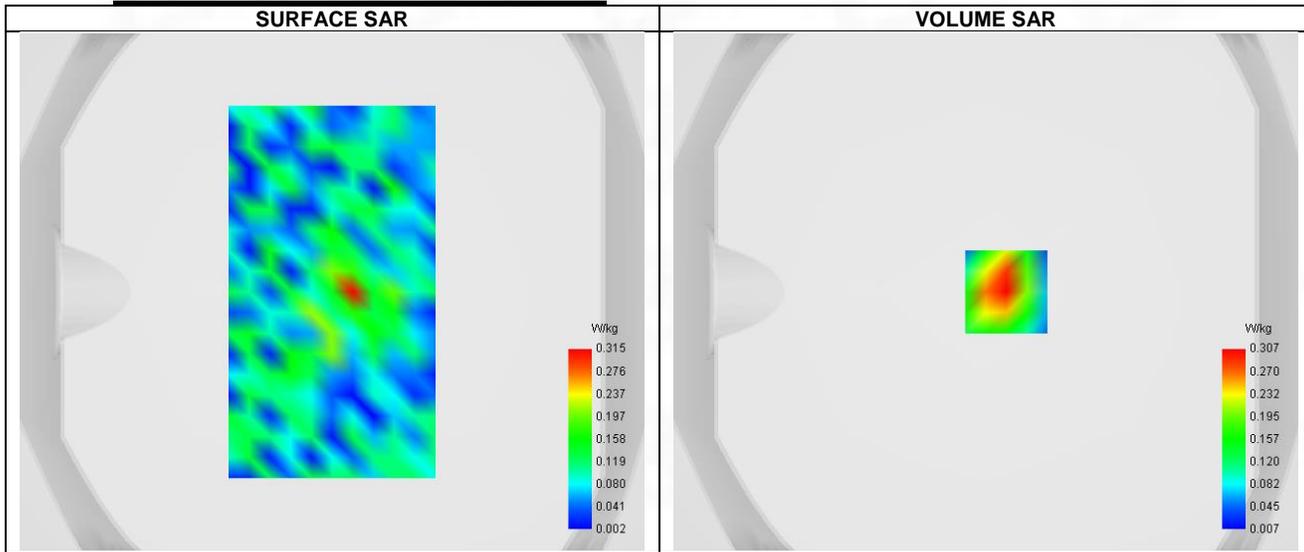
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPGO365 |
| ConvF | 2.04 |
| Area Scan | surf_sam_plan.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Validation plane |
| Device Position | Body |
| Band | IEEE 802.11a U-NII |
| Channels | Lower (149) |
| Signal | IEEE 802.11 |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 5745.000 |
| Relative permittivity (real part) | 35.355 |
| Relative permittivity (imaginary part) | 16.344 |
| Conductivity (S/m) | 5.216 |

C. SAR Surface and Volume



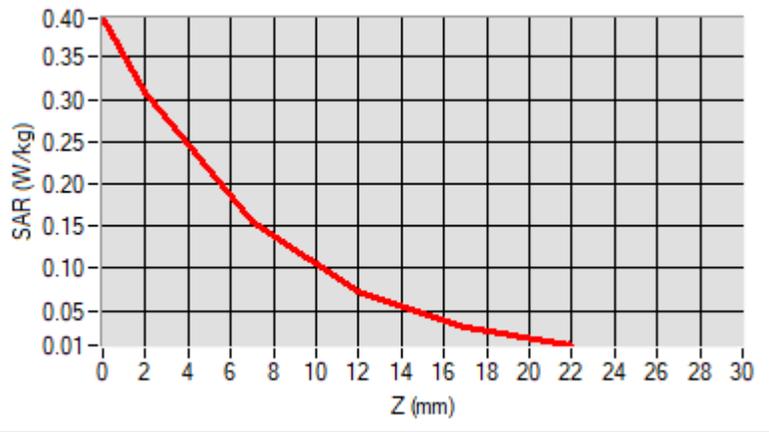
Maximum location: X=8.00, Y=0.00 ; SAR Peak: 0.41 W/kg

D. SAR 1g & 10g

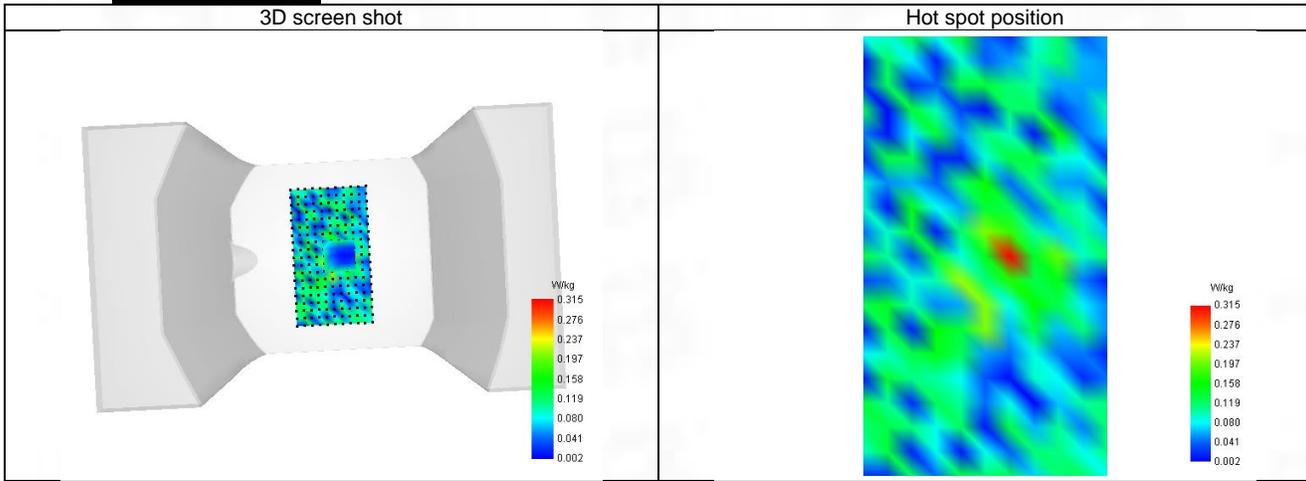
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.116 |
| SAR 1g (W/Kg) | 0.218 |
| Variation (%) | -1.070 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 2.00 | 7.00 | 12.00 | 17.00 |
| SAR (W/Kg) | 0.396 | 0.307 | 0.155 | 0.072 | 0.030 |



F. 3D Image



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

SAR Measurement at Bluetooth (Cheek, Right)

Date of measurement: 26/4/2023

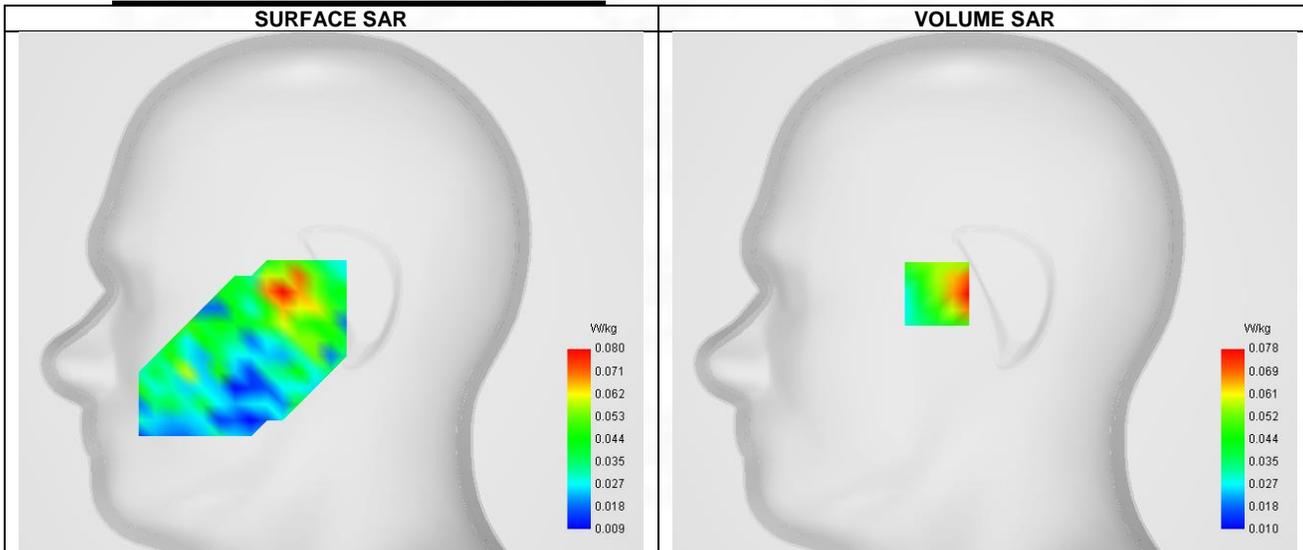
A. Experimental conditions.

| | |
|-----------------|-------------------------------------|
| Probe | SN 04/22 EPG0365 |
| ConvF | 2.36 |
| Area Scan | sam_direct_droit2_surf8mm.txt |
| Zoom Scan | 5x5x7,dx=8mm dy=8mm dz=5mm,Complete |
| Phantom | Right head |
| Device Position | Cheek |
| Band | Bluetooth |
| Channels | Middle (39) |
| Signal | Bluetooth |

B. Permittivity

| | |
|--|----------|
| Frequency (MHz) | 2441.000 |
| Relative permittivity (real part) | 39.092 |
| Relative permittivity (imaginary part) | 13.379 |
| Conductivity (S/m) | 1.800 |

C. SAR Surface and Volume



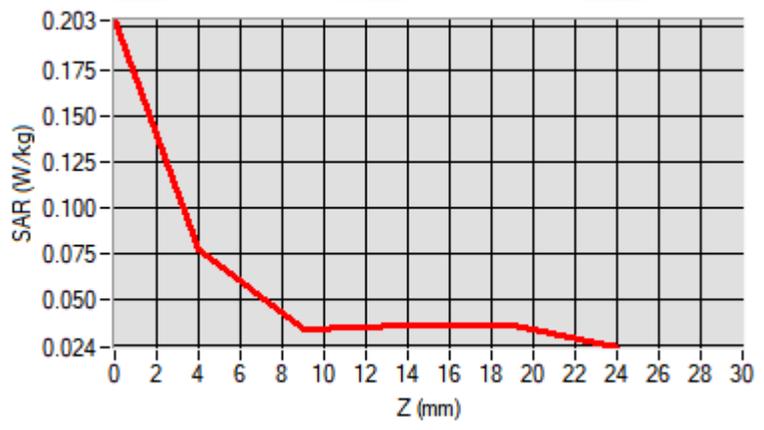
Maximum location: X=-24.00, Y=-1.00 ; SAR Peak: 0.12 W/kg

D. SAR 1g & 10g

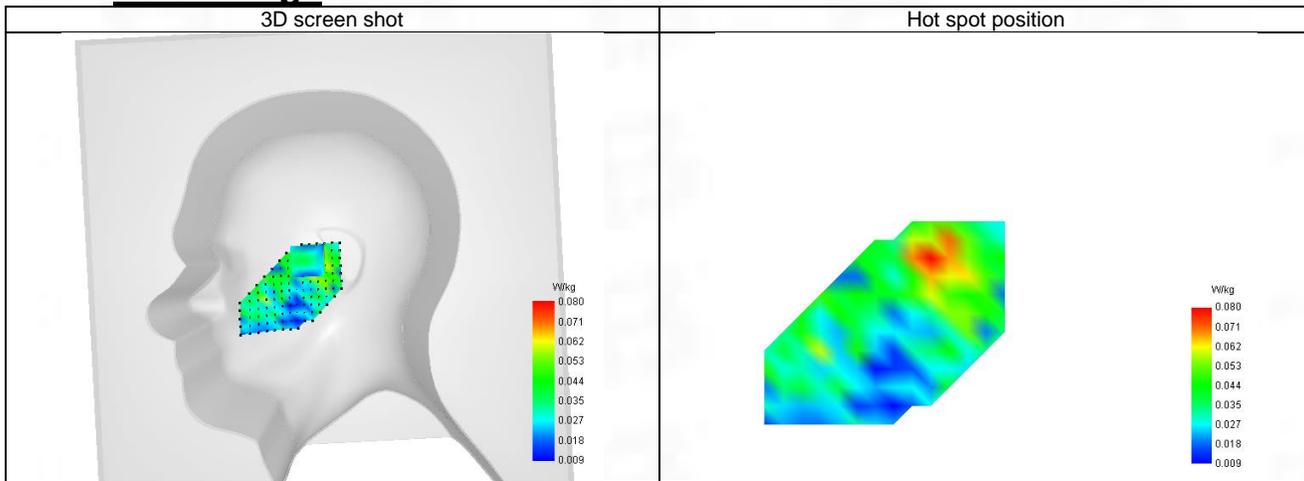
| | |
|---|----------|
| SAR 10g (W/Kg) | 0.050 |
| SAR 1g (W/Kg) | 0.072 |
| Variation (%) | -1.650 |
| Horizontal validation criteria: minimum distance (mm) | 0.000000 |
| Vertical validation criteria: SAR ratio M2/M1 (%) | 0.000000 |

E. Z Axis Scan

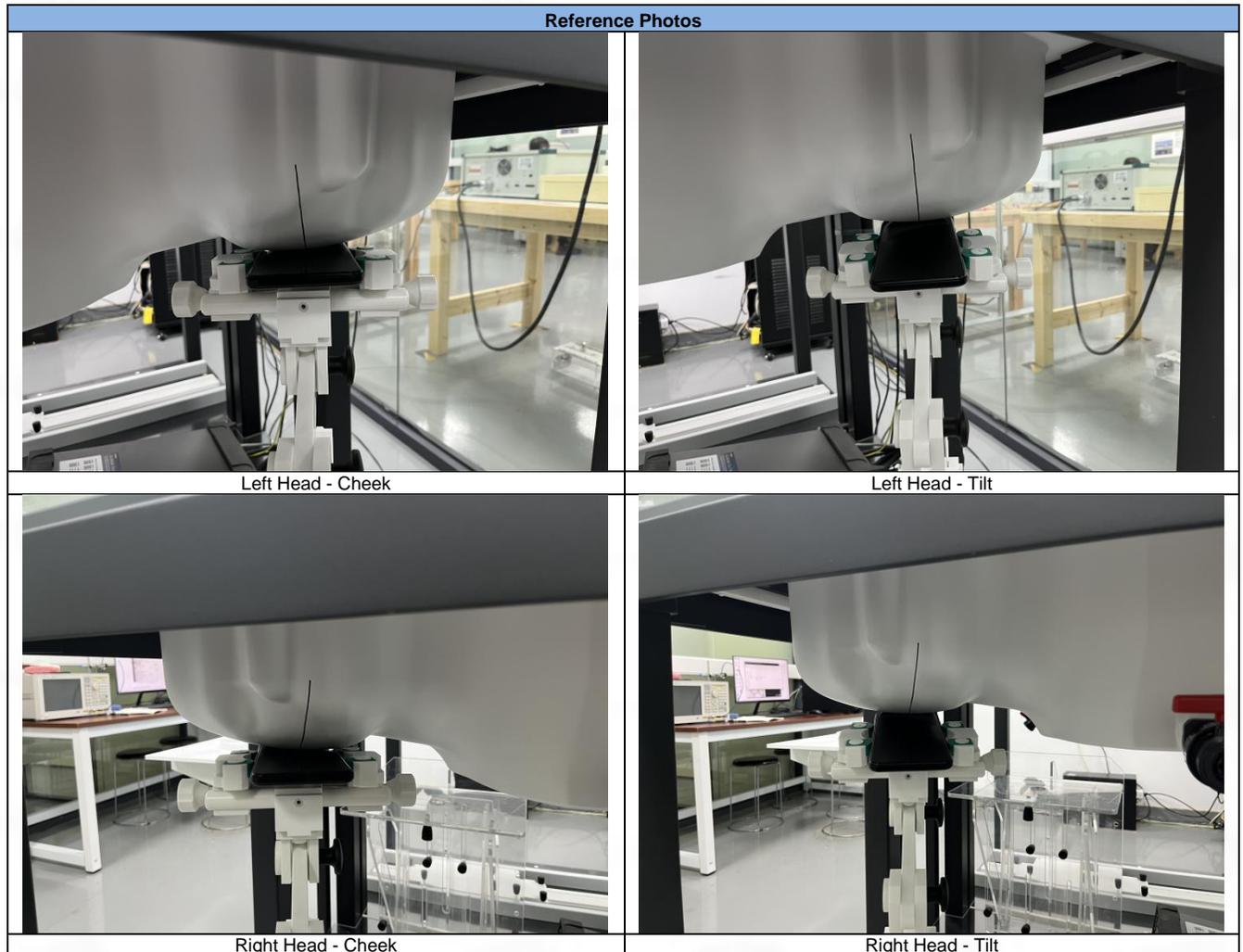
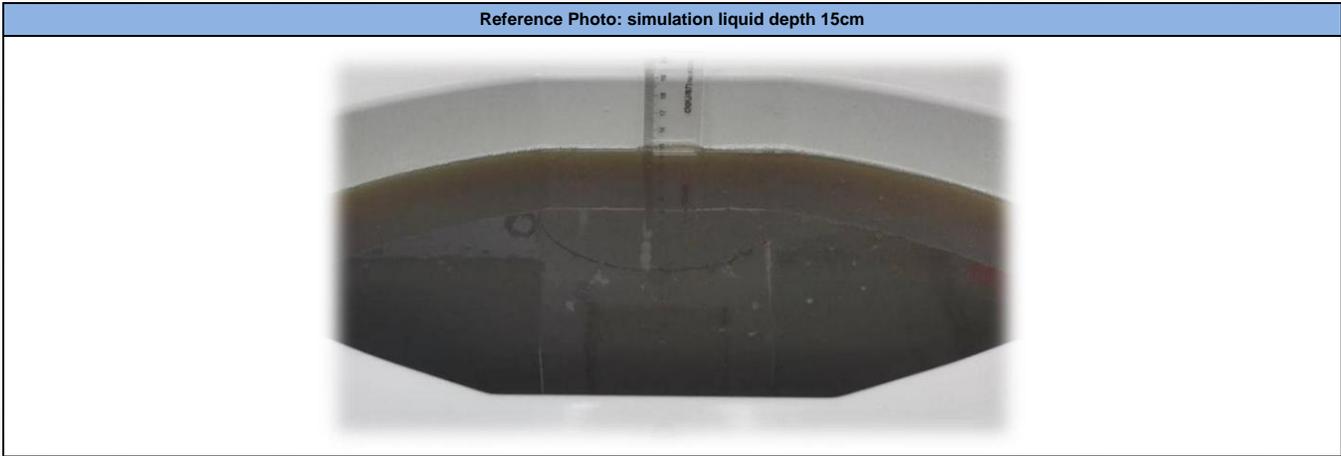
| | | | | | |
|------------|-------|-------|-------|-------|-------|
| Z (mm) | 0.00 | 4.00 | 9.00 | 14.00 | 19.00 |
| SAR (W/Kg) | 0.203 | 0.078 | 0.034 | 0.036 | 0.036 |

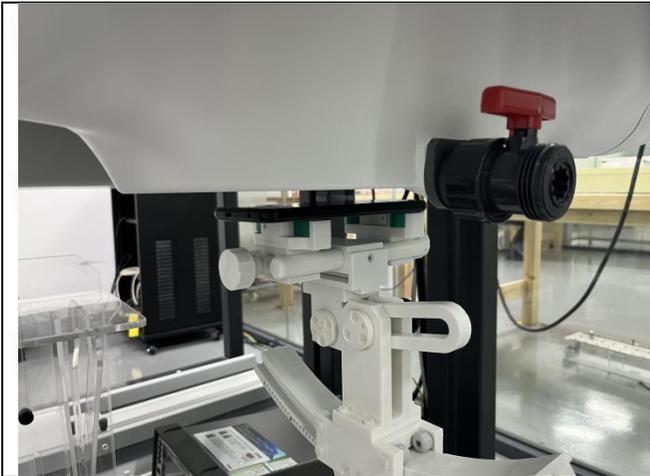


F. 3D Image

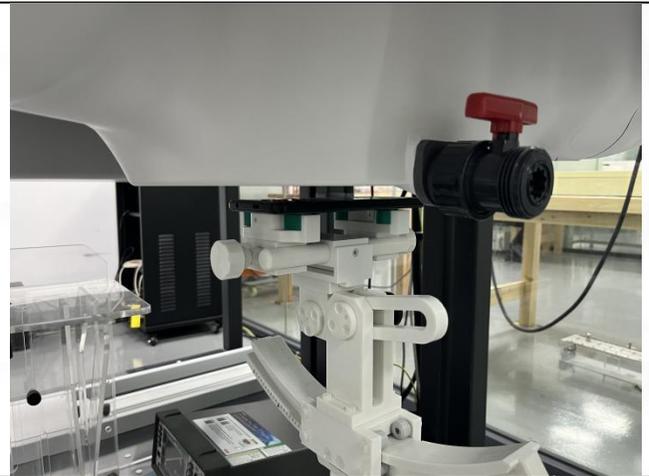


ANNEX D SAR Test Setup Photos

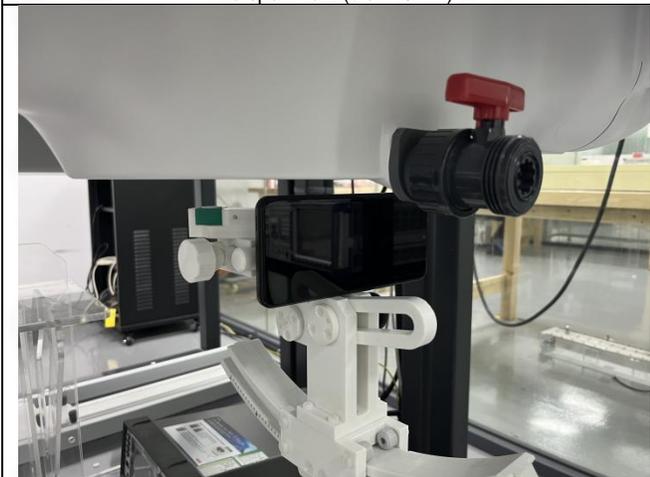




Hotspot Front (dist. 10mm)



Hotspot Back (dist. 10mm)



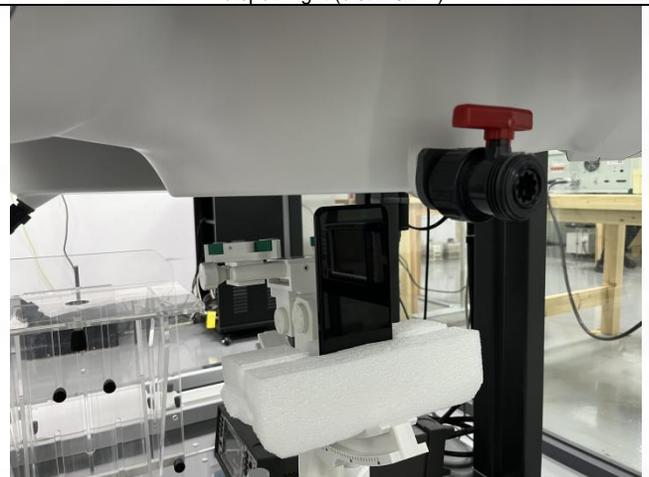
Hotspot Left (dist. 10mm)



Hotspot Right (dist. 10mm)



Hotspot Top (dist. 10mm)



Hotspot Bottom (dist. 10mm)

ANNEX E EUT External and Internal Photos

Please refer to RF Report.

ANNEX F Calibration Information

Please refer the document "Calibration.pdf".



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--END OF REPORT--