

FCC

SAR

TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
CDMA/LTE 4G Mobile Phone

ISSUED TO
Hoperun mMax Digital Inc.

4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620



Tested by: Zong Liyao



Approved by: Wei Yanquan
(Chief Engineer)

Date Sep. 19, 2017

| | |
|------------------|--|
| Report No.: | BL-EC1780083-703 |
| EUT Name: | CDMA/LTE 4G Mobile Phone |
| Model Name: | S502 |
| Brand Name: | Jabr box |
| FCC ID: | 2AKQN-S502 |
| Test Standard: | FCC 47 CFR Part 2.1093 ANSI C95.1: 1999, IEEE 1528: 2013 |
| Maximum SAR: | Head (1 g): 0.595 W/kg Body-worn (1 g): 1.166 W/kg Hotspot (1 g): 1.069 W/kg |
| Test Conclusion: | Pass |
| Test Date: | Aug. 15, 2017 ~ Aug. 31, 2017 |
| Date of Issue: | Sep. 19, 2017 |

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Revision History

| Version | Issue Date | Revisions Content |
|----------------|----------------------|----------------------|
| <u>Rev. 01</u> | <u>Sep. 19, 2017</u> | <u>Initial Issue</u> |

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1 GENERAL INFORMATION

1.1 Identification of the Testing Laboratory

| | |
|--------------|---|
| Company Name | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Phone Number | +86 755 6685 0100 |

1.2 Identification of the Responsible Testing Location

| | |
|---------------------------|--|
| Test Location | Shenzhen BALUN Technology Co., Ltd. |
| Address | Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China |
| Accreditation Certificate | The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196. The laboratory is a testing organization accredited by American Association for Laboratory Accreditation (A2LA) according to ISO/IEC 17025. The accreditation certificate is 4344.01. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791. |
| Description | All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055 |

1.3 Test Environment Condition

| | |
|---------------------------|---------------|
| Ambient Temperature | 20 to 23°C |
| Ambient Relative Humidity | 45 to 60% |
| Ambient Pressure | 100 to 102KPa |

1.4 Announce

- (1) The test report reference to the report template version v2.3.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (5) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (6) 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.

2 PRODUCT INFORMATION

2.1 Applicant Information

| | |
|-----------|--|
| Applicant | Hoperun mMax Digital Inc. |
| Address | 4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620 |

2.2 Manufacturer Information

| | |
|--------------|--|
| Manufacturer | Hoperun mMax Digital Inc. |
| Address | 4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620 |

2.3 Factory Information

| | |
|---------|--|
| Factory | Hoperun mMax Digital Inc. |
| Address | 4790 Irvine Blvd., Ste. 105-431 Irvine, CA 92620 |

2.4 General Description for Equipment under Test (EUT)

| | |
|---|---|
| EUT Name | CDMA/LTE 4G Mobile Phone |
| Model Name Under Test | S502 |
| Series Model Name | N/A |
| Description of Model Name Differentiation | N/A |
| Hardware Version | S502_MAIN_V1.2 |
| Software Version | LLDJ902.1.0_M200 |
| Dimensions (Approx.) | N/A |
| Weight (Approx.) | N/A |
| Network and Wireless connectivity | 3G Network CDMA/EVDO: CDMA2000, CDMA 1XEVDO, BC 0, BC1, BC10, Rev.0/A 4G Network FDD LTE Band 2/4/5/12/13/25/26 TDD LTE Band 41 Bluetooth 3.0, Bluetooth 4.0 Low Energy (BLE), WIFI 802.11b, 802.11g and 802.11n (HT20/40) GPS |

2.5 Ancillary Equipment

| | | |
|-----------------------|----------------------|-------------------------------|
| Ancillary Equipment 1 | Battery | |
| | Brand Name | Jabr box |
| | Model No. | LCL2000A |
| | Serial No. | N/A |
| | Capacitance | 2300 mAh |
| | Rated Voltage | 3.8 V |
| | Limit Charge Voltage | 4.2±0.03 V |
| Ancillary Equipment 2 | Charger | |
| | Brand Name | Jabr box |
| | Model Name | RC051057 |
| | Rated Input | 100-240 V ~, 50/60 Hz, 0.2 mA |
| Ancillary Equipment 3 | USB Cable | |
| | Length(Approx.) | 102 cm |

2.6 Technical Information

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

| | | | | | |
|-------------------|--|--|---------------------------|--|--|
| Operating Mode | CDMA; LTE; WLAN; Bluetooth | | | | |
| Frequency Range | CDMA BC0 | TX: 824.025 ~ 848.985 MHz | RX: 869.025 ~ 893.985 MHz | | |
| | CDMA BC1 | TX: 1850 ~ 1910 MHz | RX: 91930 ~ 1990 MHz | | |
| | CDMA BC10 | TX: 806.0 ~ 900.975 MHz | RX: 851.0~ 939.975 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: 699~ 716 MHz | RX: 729 ~ 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 41 | TX: 2496 ~ 2690 MHz | RX: 2496 ~ 2690 MHz | | |
| | 802.11b/g /n(HT20/HT40) | 2400~2483.5 MHz | | | |
| | Bluetooth | 2400~2483.5 MHz | | | |
| Antenna Type | WWAN: PIFA Antenna WLAN: PIFA Antenna Bluetooth: PIFA Antenna | | | | |
| DTM | Not Support | | | | |
| Hotspot Function | Support | | | | |
| Power Reduction | Support (When device operating under hotspot mode, that the CDMA/EVDO BC1, LTE B2/B4/B25/41 power reduction will applied for SAR compliance. The reduction power details please refer section 8.6) | | | | |
| Exposure Category | General Population/Uncontrolled exposure | | | | |
| EUT Stage | Portable Device | | | | |
| Product | Type | <input checked="" type="checkbox"/> Production unit <input type="checkbox"/> Identical prototype | | | |

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

| No. | Identity | Document Title |
|-----|---------------------------|---|
| 1 | 47 CFR Part 2 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2 | ANSI/IEEE Std. C95.1-1999 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz |
| 3 | IEEE Std. 1528-2013 | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques |
| 4 | FCC KDB 447498 D01 v06 | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies |
| 5 | FCC KDB 941225 D01 v03r01 | 3G SAR MEAUREMENT PROCEDURES |
| 6 | FCC KDB 941225 D05 v02r05 | SAR Evaluation Considerations for LTE Devices |
| 7 | FCC KDB 941225 D06 v02r01 | SAR Evaluation Procedures for Portable Devices with Wireless Router Capabilities |
| 8 | FCC KDB 865664 D01 v01r04 | SAR Measurement 100 MHz to 6 GHz |
| 9 | FCC KDB 865664 D02 v01r02 | RF Exposure Reporting |
| 10 | FCC KDB 648474 D04 v01r03 | SAR Evaluation Considerations for Wireless Handsets |
| 11 | KDB 248227 D01 v02r02 | SAR Guidance for IEEE 802.11 (Wi-Fi) Transmitters |

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.

Table of Exposure Limits:

| 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: 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: 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

3.3.1 Highest SAR (1 g Value)

| Band | Maximum Scaled SAR (W/kg) | | | Maximum Report SAR (W/kg) | | | Limit (W/kg) |
|-------------|------------------------------|---------------------|-------------------|------------------------------|---------------------|-------------------|-----------------|
| | Head | Body-worn (15mm) | Hotspot (10mm) | Head | Body-worn (15mm) | Hotspot (10mm) | |
| CDMA BC0 | 0.502 | 0.561 | 0.558 | 0.595 | 1.166 | 1.069 | 1.6 |
| CDMA BC1 | 0.392 | 0.753 | 0.908 | | | | |
| CDMA BC10 | 0.595 | 0.622 | 0.661 | | | | |
| LTE Band 2 | 0.483 | 0.994 | 1.069 | | | | |
| LTE Band 4 | 0.530 | 0.932 | 1.003 | | | | |
| LTE Band 5 | 0.419 | 0.410 | 0.466 | | | | |
| LTE Band 12 | 0.275 | 0.516 | 0.586 | | | | |
| LTE Band 13 | 0.505 | 0.607 | 0.714 | | | | |
| LTE Band 25 | 0.474 | 0.872 | 0.995 | | | | |
| LTE Band 26 | 0.437 | 0.482 | 0.538 | | | | |
| LTE Band 41 | 0.234 | 1.166 | 0.661 | | | | |
| 2.4G WLAN | 0.424 | 0.135 | 0.256 | | | | |
| Bluetooth | N/A | 0.054 | N/A | | | | |
| Verdict | Pass | | | | | | |

3.3.2 Highest Simultaneous SAR

| Position | Simultaneous Configuration | Simultaneous SAR (W/kg) | Limit (W/kg) | Verdict |
|--------------|----------------------------|----------------------------|--------------|---------|
| Head | CDMA RMC + 2.4G WLAN | 1.019 | 1.6 | Pass |
| Body-worn | LTE QPSK + 2.4G WLAN | 1.301 | 1.6 | Pass |
| Hotspot Mode | LTE QPSK + 2.4G WLAN | 1.325 | 1.6 | Pass |

3.4 Test Uncertainty

According to KDB 865664 D01, when the highest measured 1 g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis is not required in SAR reports submitted for equipment approval.

The maximum 1 g SAR for the EUT in this report is 1.166 W/kg, which is lower than 1.5 W/kg, so the extensive SAR measurement uncertainty analysis is not required in this report.

4 SAR MEASUREMENT SYSTEM

4.1 Definition of Specific Absorption Rate (SAR)

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

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

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

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

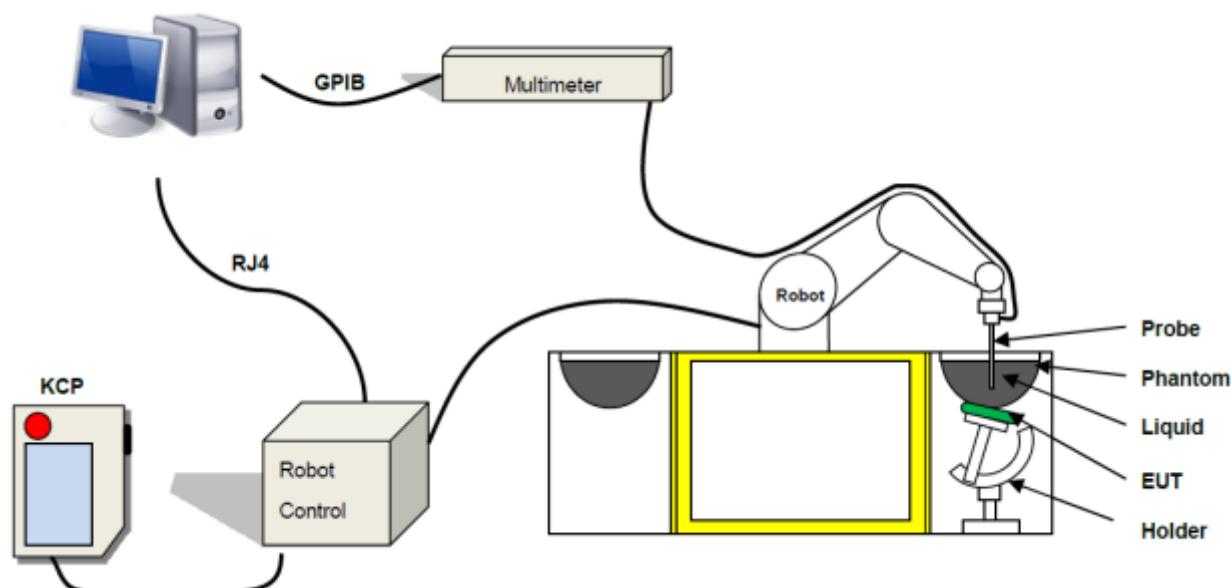
$$\text{SAR} = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

ρ is the mass density of the tissue and E is the RMS electrical field strength.

4.2 SATIMO SAR System

4.2.1 SATIMO SAR System Diagram



These measurements were performed with the automated near-field scanning system OPENSAR from SATIMO. The system is based on a high precision robot (working range: 850 mm), which positions the probes with a positional repeatability of better than ± 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit.

The SAR measurements were conducted with dosimetric probe (manufactured by SATIMO), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in SAR standard with accuracy of better than $\pm 10\%$. The spherical isotropy was evaluated with the procedure described in SAR standard and found to be better than ± 0.25 dB. The phantom used was the SAM Phantom as described in FCC supplement C, IEEE P1528.

4.2.2 Robot

The SATIMO SAR system uses the high precision robots from KUKA. For the 6-axis controller system, the robot controller version (KUKA) from KUKA is used. The KUKA robot series have many features that are important for our application:



- High precision (repeatability ± 0.035 mm)
- High reliability (industrial design)
- Jerk-free straight movements
- Low ELF interference (the closed metallic construction shields against motor control fields)

4.2.3 E-Field Probe

For the measurements the Specific Dosimetric E-Field Probe SN 08 /16 EPGO 295 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter : 2.5 mm
- Lower detection limit : 10 mW/kg
(repeatability better than ± 1 mm)
- Probe linearity: ± 0.07 dB

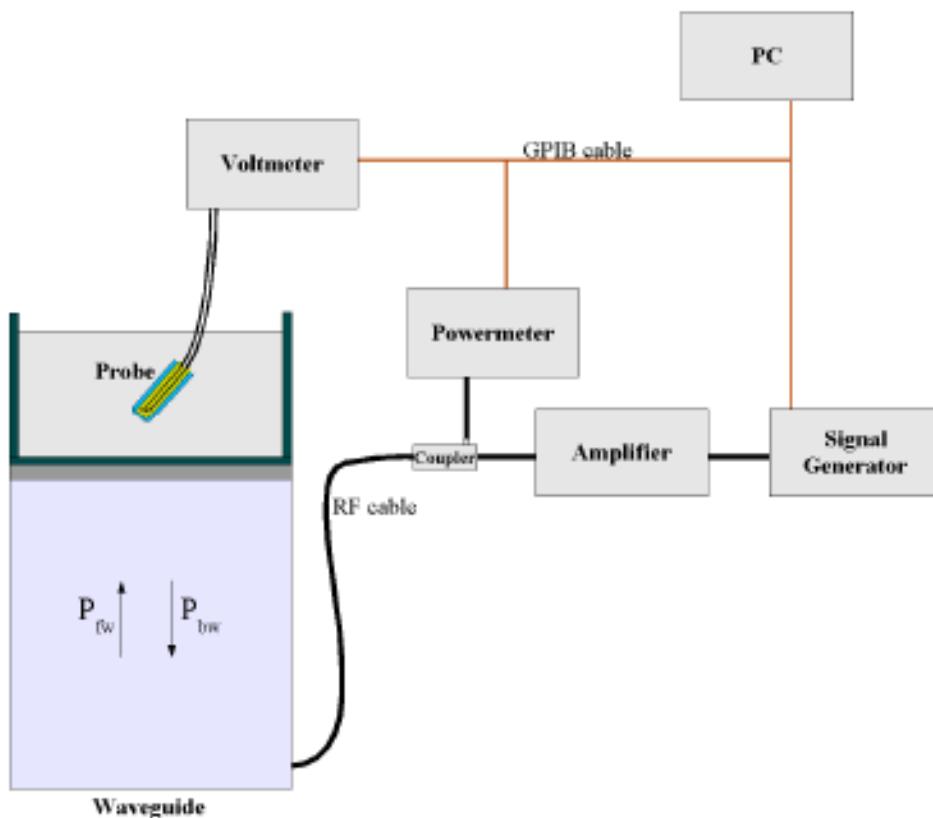
- Calibration range: 300 MHz to 6000 MHz for head & body simulating liquid.

Angle between probe axis (evaluation axis) and surface normal line: less than 30°



E-Field Probe Calibration Process

Probe calibration is realized, in compliance with CENELEC EN 62209-1/-2 and IEEE 1528 std, with CALISAR, Antennessa proprietary calibration system. The calibration is performed with the IEC62209-1/2 annexe technique using reference guide at the five frequencies.



$$SAR = \frac{4(P_{fw} - P_{bw})}{ab\sigma} \cos^2 \left(\pi \frac{y}{a} \right) e^{(2\pi/\sigma)}$$

Where :

P_{fw} = Forward Power

P_{bw} = Backward Power

a and b = Waveguide Dimensions

i = Skin Depth

Keithley configuration

Rate = Medium; Filter =ON; RDGS=10; FILTER TYPE =MOVING AVERAGE; RANGE AUTO After each calibration, a SAR measurement is performed on a validation dipole and compared with a NPL calibrated probe, to verify it.

The calibration factors, CF(N), for the 3 sensors corresponding to dipole 1, dipole 2 and dipole 3 are:

$$CF(N) = SAR(N)/Vlin(N) \quad (N=1,2,3)$$

The linearised output voltage Vlin(N) is obtained from the displayed output voltage V(N) using

$$Vlin(N) = V(N) * (1 + V(N)/DCP(N)) \quad (N=1,2,3)$$

Where the DCP is the diode compression point in mV.

4.2.4 Phantoms

For the measurements the Specific Anthropomorphic Mannequin (SAM) defined by the IEEE SCC-34/SC2 group is used. The phantom is a polyurethane shell integrated in a wooden table. The thickness of the phantom amounts to 2mm +/- 0.2mm. It enables the dosimetric evaluation of left and right phone usage and includes an additional flat phantom part for the simplified performance check. The phantom set-up includes a cover, which prevents the evaporation of the liquid.

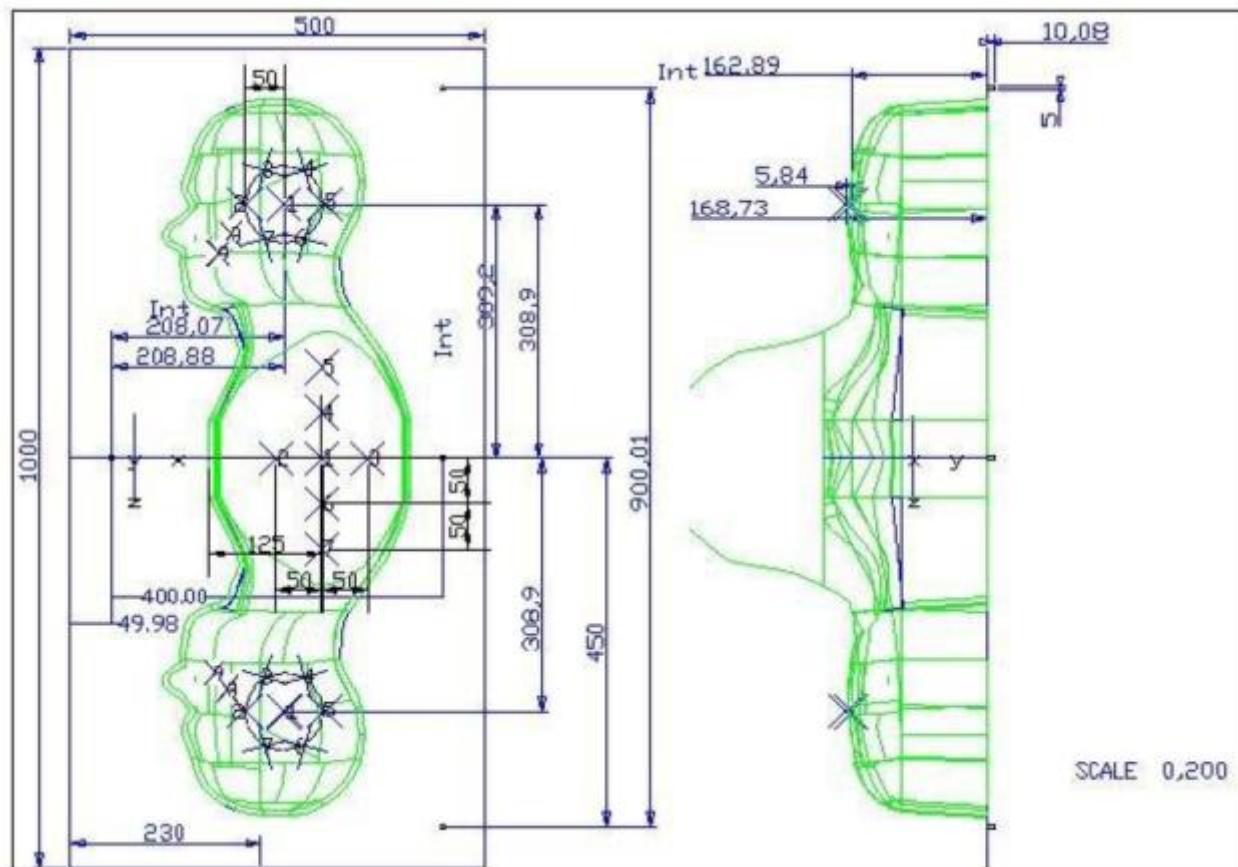
Photo of Phantom SN 30/13 SAM103



Photo of Phantom SN 30/13 SAM104



| Serial Number | Positioner Material | Permittivity | Loss Tangent |
|------------------------|-------------------------|--------------|--------------|
| SN 30/13 SAM103 | Gelcoat with fiberglass | 3.4 | 0.02 |
| SN 30/13 SAM104 | Gelcoat with fiberglass | 3.4 | 0.02 |



| Serial Number | Left Head | | Right Head | | Flat Part | |
|-----------------|-----------|------|------------|------|-----------|------|
| SN 30/13 SAM103 | 2 | 2.00 | 2 | 2.03 | 1 | 2.09 |
| | 3 | 2.02 | 3 | 2.05 | 2 | 2.10 |
| | 4 | 2.04 | 4 | 2.04 | 3 | 2.09 |
| | 5 | 2.04 | 5 | 2.07 | 4 | 2.11 |
| | 6 | 2.02 | 6 | 2.07 | 5 | 2.11 |
| | 7 | 2.01 | 7 | 2.09 | 6 | 2.09 |
| | 8 | 2.04 | 8 | 2.10 | 7 | 2.11 |
| | 9 | 2.02 | 9 | 2.09 | - | - |
| | 2 | 2.05 | 2 | 2.06 | 1 | 2.03 |
| SN 30/13 SAM104 | 3 | 2.08 | 3 | 2.03 | 2 | 2.03 |
| | 4 | 2.05 | 4 | 2.03 | 3 | 2.01 |
| | 5 | 2.06 | 5 | 2.02 | 4 | 2.03 |
| | 6 | 2.08 | 6 | 2.02 | 5 | 2.03 |
| | 7 | 2.06 | 7 | 2.04 | 6 | 2.00 |
| | 8 | 2.07 | 8 | 2.04 | 7 | 1.98 |
| | 9 | 2.07 | 9 | 2.05 | - | - |

4.2.5 Device Holder

The SAR in the phantom is approximately inversely proportional to the square of the distance between the source and the liquid surface. For a source at 5 mm distance, a positioning uncertainty of ± 0.5 mm would produce a SAR uncertainty of $\pm 20\%$. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

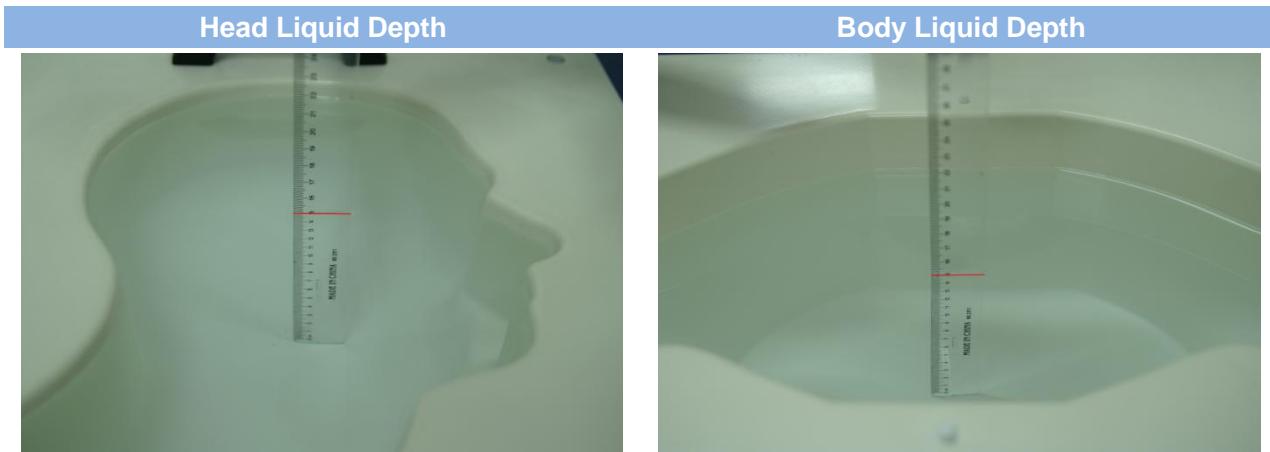


| Serial Number | Holder Material | Permittivity | Loss Tangent |
|-----------------------|-----------------|--------------|--------------|
| SN 25/13 MSH87 | Deirin | 3.7 | 0.005 |
| SN 25/13 MSH88 | Deirin | 3.7 | 0.005 |

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°.

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%.



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 | / | 5.54 | 47.86 |
| 5800 | 78.50 | 21.40 | 0.1 | 6.0 | 48.20 |

5 SYSTEM VERIFICATION

5.1 Antenna Port Test Requirement

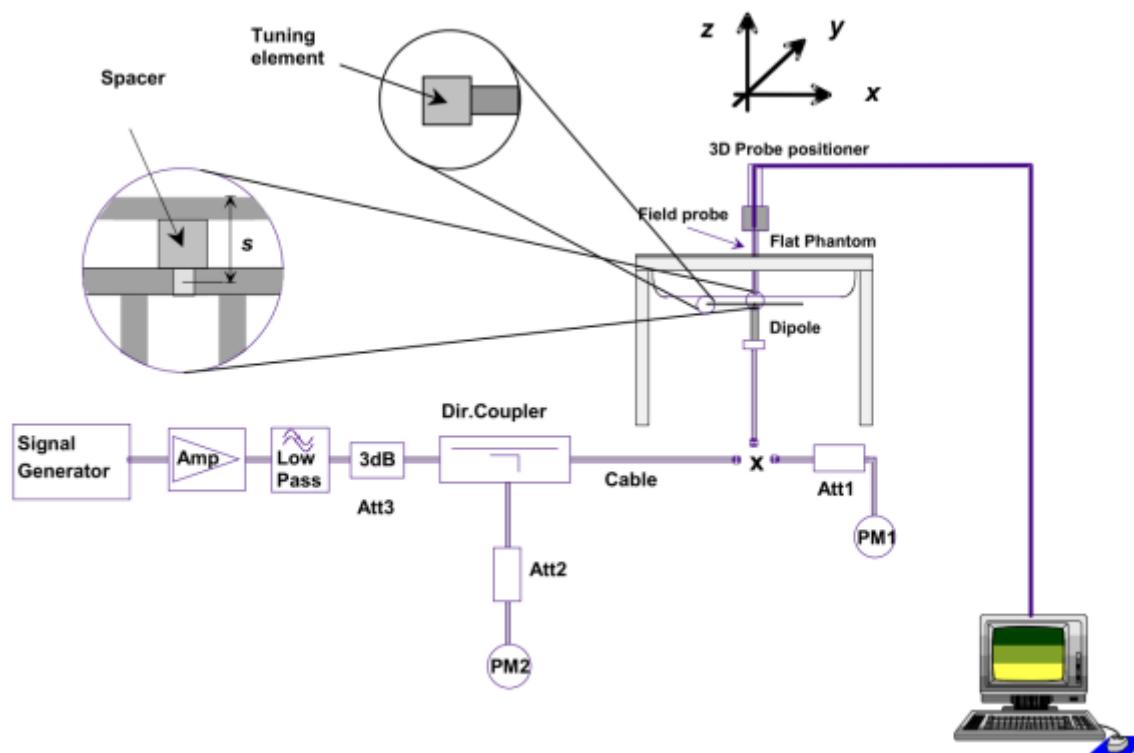
The SATIMO SAR system is equipped with one or more system validation kits. These units together with the predefined measurement procedures within the SATIMO software enable the user to conduct the system performance check and system validation. System validation kit includes a dipole, tripod holder to fix it underneath the flat phantom and a corresponding distance holder.

5.2 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. This 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.

5.3 System Check Setup

In the simplified setup for system evaluation, the EUT is replaced by a calibrated dipole and the power source is replaced by a continuous wave that comes from a signal generator. The calibrated dipole must be placed beneath the flat phantom section of the SAM twin phantom with the correct distance holder. The distance holder should touch the phantom surface with a light pressure at the reference marking and be oriented parallel to the long side of the phantom. The equipment setup is shown below:



6 EUT TEST POSITION CONFIGURATIONS

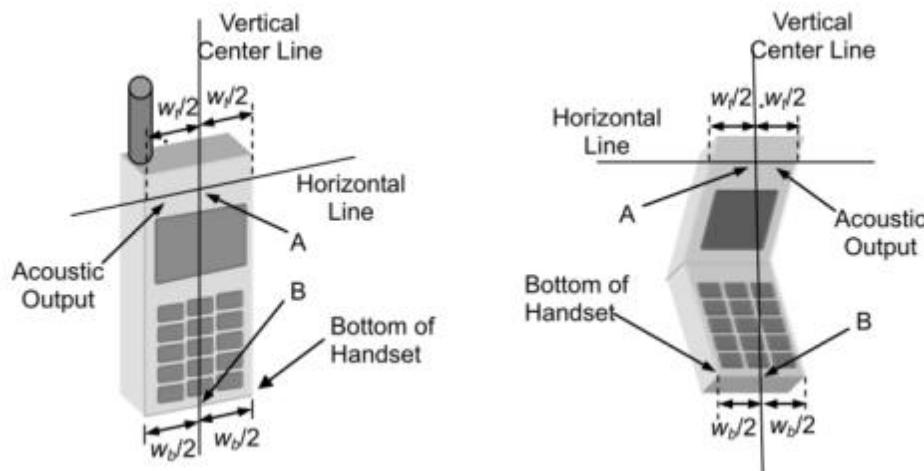
According to KDB 648474 D04 Handset, handsets are tested for SAR compliance in head, body-worn accessory and other use configurations described in the following subsections.

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.

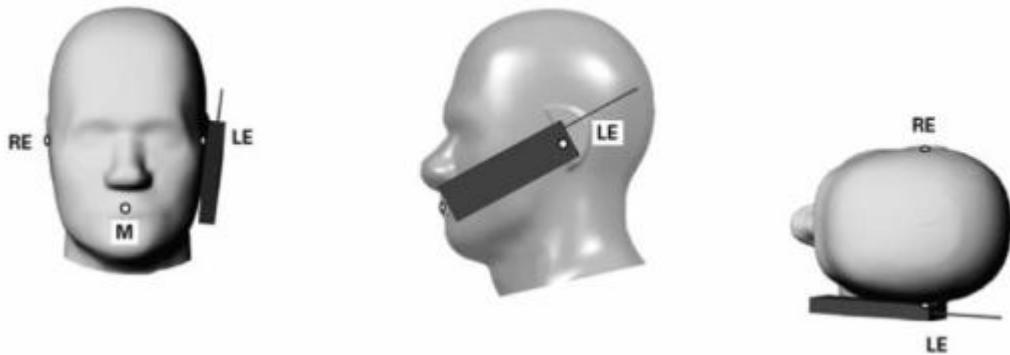
6.1.1 Define two imaginary lines on the handset

- 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 centerline 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 centerline 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 Cheek Position

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



6.1.3 Tilted Position

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



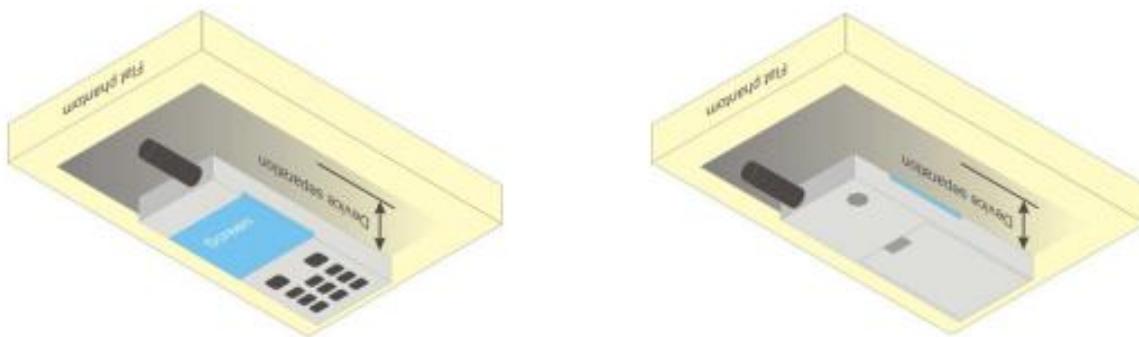
6.2 Body-worn Position Conditions

Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in KDB 447498 are used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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.

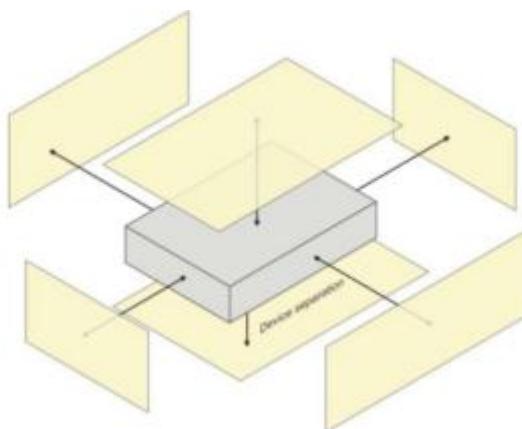
Body-worn accessory SAR compliance is based on a single minimum test separation distance for all wireless and operating modes applicable to each body-worn accessory used by the host, and according to the relevant voice and/or data mode transmissions and operations. If a body-worn accessory supports voice 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.



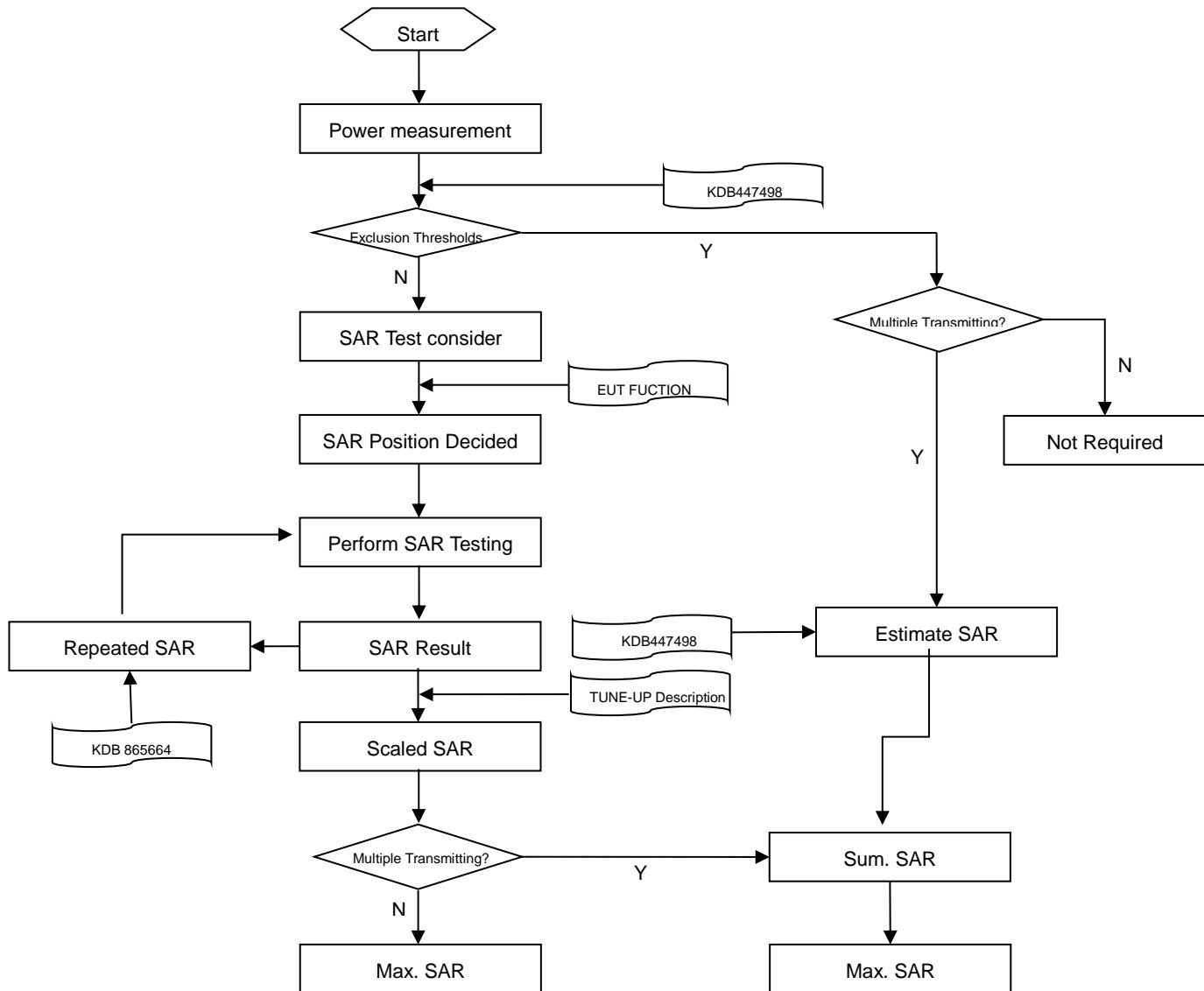
6.3 Hotspot Mode Exposure Position Conditions

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).



7 SAR MEASUREMENT PROCEDURES

7.1 SAR Measurement Process Diagram



7.2 SAR Scan General Requirements

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.

| | | $\leq 3\text{GHz}$ | $>3\text{GHz}$ |
|--|--|--|--|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | | $5 \pm 1\text{ mm}$ | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5\text{ mm}$ |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location | | $30^\circ \pm 1^\circ$ | $20^\circ \pm 1^\circ$ |
| | | $\leq 2\text{ GHz: } \leq 15\text{ mm}$ $2 - 3\text{ GHz: } \leq 12\text{ mm}$ | $3 - 4\text{ GHz: } \leq 12\text{ mm}$ $4 - 6\text{ GHz: } \leq 10\text{ mm}$ |
| Maximum area scan spatial resolution: $\Delta x_{\text{Area}}, \Delta y_{\text{Area}}$ | | 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 \leq 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: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$ | | $\leq 2\text{ GHz: } \leq 8\text{ mm}$ $2 - 3\text{ GHz: } \leq 5\text{ mm}^*$ | $3 - 4\text{ GHz: } \leq 5\text{ mm}^*$ $4 - 6\text{ GHz: } \leq 4\text{ mm}^*$ |
| Maximum zoom scan spatial resolution, normal to phantom surface | uniform grid: $\Delta z_{\text{Zoom}}(n)$ graded grid | $\leq 5\text{ mm}$ | $3 - 4\text{ GHz: } \leq 4\text{ mm}$ $4 - 5\text{ GHz: } \leq 3\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$ |
| | | | $3 - 4\text{ GHz: } \leq 3\text{ mm}$ $4 - 5\text{ GHz: } \leq 2.5\text{ mm}$ $5 - 6\text{ GHz: } \leq 2\text{ mm}$ |
| | | | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$ |
| Minimum zoom scan volume | X, y, z | $\geq 30\text{ mm}$ | $3 - 4\text{ GHz: } \geq 28\text{ mm}$ $4 - 5\text{ GHz: } \geq 25\text{ mm}$ $5 - 6\text{ GHz: } \geq 22\text{ mm}$ |

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 $\leq 1.4\text{ W/kg}$, $\leq 8\text{ mm}$, $\leq 7\text{ mm}$ and $\leq 5\text{ mm}$ 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 SAR Measurement Procedure

The following steps are used for each test position

- 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
- Measurement of the local E-field value at a fixed location. This value serves as a reference value for calculating a possible power drift.
- Measurement of the SAR distribution with a grid of 8 to 16mm * 8 to16 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.
- 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 Procedures

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 D01 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 CDMA

| Band | | CDMA BC0 | | | CDMA BC1 | | |
|-----------------|--|-----------|--------|--------|----------|---------|---------|
| Channel | | 1013 | 384 | 777 | 25 | 600 | 1175 |
| Frequency (MHz) | | 824.70 | 836.52 | 848.31 | 1851.25 | 1880.00 | 1908.75 |
| 1xRTT | RC1 SO55 | 23.70 | 23.85 | 23.24 | 23.54 | 23.38 | 23.31 |
| | RC3 SO55 | 23.74 | 23.94 | 23.28 | 23.49 | 23.33 | 23.32 |
| | RC3 SO32 | 23.78 | 23.93 | 23.29 | 23.37 | 23.34 | 23.43 |
| 1xEVDO Rel.0 | FTAP Rate: 307.2kbps RTAP Rate: 153.6kbps | 23.92 | 23.82 | 23.21 | 23.23 | 22.89 | 23.10 |
| 1xEVDO Rel.A | FTAP: 307.2k,QPSK/ACK RTAP: 4096 | 23.56 | 23.93 | 23.47 | 23.31 | 22.89 | 22.99 |
| Band | | CDMA BC10 | | | - | | |
| Channel | | 450 | 560 | 670 | - | - | - |
| Frequency (MHz) | | 838.50 | 841.80 | 845.10 | - | - | - |
| 1xRTT | RC1 SO55 | 23.99 | 23.95 | 23.79 | - | - | - |
| | RC3 SO55 | 23.92 | 23.94 | 23.88 | - | - | - |
| | RC3 SO32 | 24.25 | 24.30 | 24.16 | - | - | - |
| 1xEVDO Rel.0 | FTAP Rate: 307.2kbps RTAP Rate: 153.6kbps | 23.86 | 23.85 | 23.73 | - | - | - |
| 1xEVDO Rel.A | FTAP: 307.2k,QPSK/ACK RTAP: 4096 | 23.90 | 23.77 | 23.81 | - | - | - |

8.3 LTE

| FDD LTE Band 2 | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | | Channel | 18700 | 18900 | 19100 | 18700 | 18900 |
| 20MHz | 1 (RB_Pos:0) | 23.67 | 23.37 | 22.72 | 23.08 | 22.53 | 22.18 |
| | 1 (RB_Pos:50) | 23.11 | 23.13 | 22.55 | 22.48 | 22.09 | 21.84 |
| | 1 (RB_Pos:99) | 23.30 | 23.28 | 22.73 | 22.50 | 22.36 | 22.07 |
| | 50 (RB_Pos:0) | 22.29 | 22.05 | 21.60 | 21.15 | 21.02 | 20.51 |
| | 50 (RB_Pos:25) | 22.09 | 21.97 | 21.55 | 21.03 | 20.84 | 20.37 |
| | 50 (RB_Pos:50) | 22.16 | 21.95 | 21.59 | 21.08 | 20.83 | 20.39 |
| | 100 (RB_Pos:0) | 22.19 | 21.92 | 21.57 | 21.05 | 20.99 | 20.53 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | | Channel | 18675 | 18900 | 19125 | 18675 | 18900 |
| 15MHz | 1 (RB_Pos:0) | 23.60 | 23.01 | 22.89 | 22.86 | 22.31 | 22.62 |
| | 1 (RB_Pos:38) | 22.87 | 22.57 | 22.51 | 21.90 | 22.06 | 22.45 |
| | 1 (RB_Pos:74) | 23.18 | 22.88 | 22.83 | 22.37 | 22.21 | 22.53 |
| | 36 (RB_Pos:0) | 22.16 | 21.95 | 21.78 | 21.15 | 21.05 | 20.63 |
| | 36 (RB_Pos:20) | 22.10 | 21.85 | 21.70 | 21.02 | 20.95 | 20.52 |
| | 36 (RB_Pos:39) | 22.17 | 21.94 | 21.74 | 20.95 | 20.96 | 20.78 |
| | 75 (RB_Pos:0) | 22.18 | 21.90 | 21.74 | 21.12 | 20.89 | 20.71 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | | Channel | 18650 | 18900 | 19150 | 18650 | 18900 |
| 10MHz | 1 (RB_Pos:0) | 23.38 | 22.96 | 22.84 | 22.45 | 22.34 | 22.22 |
| | 1 (RB_Pos:25) | 23.30 | 22.66 | 22.75 | 22.23 | 22.06 | 22.10 |
| | 1 (RB_Pos:49) | 23.20 | 22.83 | 22.84 | 22.13 | 22.13 | 22.05 |
| | 25 (RB_Pos:0) | 22.21 | 21.83 | 21.86 | 21.23 | 20.91 | 20.98 |
| | 25 (RB_Pos:12) | 22.10 | 21.88 | 21.93 | 21.26 | 20.84 | 20.85 |
| | 25 (RB_Pos:25) | 22.10 | 21.94 | 21.97 | 21.17 | 20.94 | 21.10 |
| | 50 (RB_Pos:0) | 22.13 | 21.93 | 21.92 | 21.05 | 20.91 | 20.88 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | | Channel | 18625 | 18900 | 19175 | 18625 | 18900 |
| 5MHz | 1 (RB_Pos:0) | 23.11 | 23.14 | 23.04 | 22.15 | 22.36 | 22.27 |
| | 1 (RB_Pos:13) | 23.26 | 22.70 | 22.93 | 21.72 | 21.99 | 22.15 |
| | 1 (RB_Pos:24) | 23.04 | 22.96 | 23.05 | 21.89 | 22.26 | 21.95 |
| | 12 (RB_Pos:0) | 22.18 | 21.94 | 21.99 | 21.13 | 21.14 | 20.84 |
| | 12 (RB_Pos:6) | 22.20 | 21.91 | 22.01 | 20.88 | 21.02 | 20.91 |
| | 12 (RB_Pos:13) | 22.23 | 21.96 | 22.12 | 21.23 | 21.10 | 21.05 |
| | 25 (RB_Pos:0) | 22.26 | 21.99 | 22.13 | 21.33 | 20.95 | 21.07 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |

| | Channel | 18615 | 18900 | 19185 | 18615 | 18900 | 19185 |
|--------|-----------------|--------|-------------|-------|-------|-------|-------|
| 3.0MHz | 1 (RB_Pos:0) | 23.28 | 22.90 | 23.16 | 22.20 | 22.63 | 22.36 |
| | 1 (RB_Pos:8) | 23.21 | 22.60 | 22.82 | 22.09 | 22.03 | 22.35 |
| | 1 (RB_Pos:14) | 23.51 | 22.87 | 23.07 | 22.76 | 22.58 | 22.34 |
| | 8 (RB_Pos:0) | 22.38 | 21.82 | 22.07 | 20.87 | 21.02 | 21.16 |
| | 8 (RB_Pos:3) | 22.22 | 21.82 | 22.03 | 20.91 | 20.94 | 21.12 |
| | 8 (RB_Pos:7) | 22.25 | 21.88 | 21.96 | 21.02 | 20.89 | 21.07 |
| | 15 (RB_Pos:0) | 22.24 | 21.86 | 22.13 | 21.21 | 20.86 | 20.95 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| 1.4MHz | Bandwidth (MHz) | RB Set | QPSK | | 16QAM | | |
| | | | Channel | 18607 | 18900 | 19193 | 18607 |
| | 1 (RB_Pos:0) | 23.07 | 22.71 | 23.01 | 22.94 | 21.95 | 22.36 |
| | 1 (RB_Pos:3) | 23.10 | 22.73 | 23.44 | 22.95 | 22.27 | 22.46 |
| | 1 (RB_Pos:5) | 23.07 | 22.87 | 23.06 | 23.06 | 22.66 | 22.43 |
| | 3 (RB_Pos:0) | 23.10 | 22.82 | 23.05 | 21.77 | 22.12 | 21.97 |
| | 3 (RB_Pos:1) | 23.17 | 22.83 | 23.05 | 21.83 | 22.10 | 22.07 |
| | 3 (RB_Pos:3) | 23.24 | 22.78 | 22.99 | 21.76 | 22.04 | 22.00 |
| | 6 (RB_Pos:0) | 22.07 | 21.84 | 22.12 | 21.05 | 20.90 | 21.11 |

| FDD LTE Band 4 | | | | | | | |
|-----------------|-----------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 20050 | 20175 | 20300 | 20050 | 20175 | 20300 |
| 20MHz | 1 (RB_Pos:0) | 23.27 | 23.10 | 23.00 | 22.20 | 22.45 | 22.41 |
| | 1 (RB_Pos:50) | 22.77 | 23.33 | 22.70 | 21.91 | 22.29 | 22.05 |
| | 1 (RB_Pos:99) | 23.28 | 23.11 | 22.61 | 22.04 | 22.51 | 22.06 |
| | 50 (RB_Pos:0) | 22.08 | 22.13 | 22.00 | 21.10 | 21.11 | 21.03 |
| | 50 (RB_Pos:25) | 21.98 | 22.11 | 21.82 | 21.04 | 21.05 | 20.87 |
| | 50 (RB_Pos:50) | 22.06 | 22.14 | 21.69 | 21.05 | 21.03 | 20.65 |
| | 100 (RB_Pos:0) | 22.05 | 22.04 | 21.96 | 21.07 | 21.03 | 20.84 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| 15MHz | Bandwidth (MHz) | RB Set | QPSK | | | 16QAM | |
| | | | Channel | 20025 | 20175 | 20325 | 20025 |
| | 1 (RB_Pos:0) | 23.20 | 23.09 | 23.04 | 22.13 | 22.47 | 22.89 |
| | 1 (RB_Pos:38) | 22.66 | 22.85 | 22.60 | 21.86 | 22.13 | 22.61 |
| | 1 (RB_Pos:74) | 22.75 | 22.85 | 22.73 | 22.67 | 22.36 | 22.61 |
| | 36 (RB_Pos:0) | 22.00 | 22.12 | 22.07 | 20.98 | 21.12 | 21.00 |
| | 36 (RB_Pos:20) | 21.80 | 22.04 | 21.78 | 20.86 | 21.15 | 20.72 |
| | 36 (RB_Pos:39) | 21.84 | 22.07 | 21.79 | 20.90 | 21.19 | 20.65 |
| 10MHz | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 20000 | 20175 | 20350 | 20000 | 20175 | 20350 |
| | 1 (RB_Pos:0) | 22.91 | 23.13 | 23.00 | 22.21 | 22.40 | 22.22 |

| | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| | 1 (RB_Pos:25) | 22.77 | 23.14 | 22.81 | 22.37 | 22.30 | 22.15 |
| | 1 (RB_Pos:49) | 22.83 | 22.95 | 22.87 | 22.36 | 22.25 | 22.08 |
| | 25 (RB_Pos:0) | 21.88 | 22.01 | 22.06 | 20.84 | 20.91 | 21.00 |
| | 25 (RB_Pos:12) | 21.78 | 22.01 | 21.83 | 20.75 | 20.92 | 20.90 |
| | 25 (RB_Pos:25) | 21.76 | 22.05 | 21.80 | 20.75 | 20.94 | 20.78 |
| | 50 (RB_Pos:0) | 21.86 | 22.03 | 21.96 | 20.75 | 20.93 | 20.91 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19975 | 20175 | 20375 | 19975 | 20175 | 20375 |
| 5MHz | 1 (RB_Pos:0) | 22.56 | 23.31 | 22.78 | 21.53 | 22.01 | 21.98 |
| | 1 (RB_Pos:13) | 22.39 | 22.87 | 22.51 | 21.20 | 21.91 | 21.91 |
| | 1 (RB_Pos:24) | 22.35 | 23.18 | 22.76 | 21.36 | 21.97 | 22.49 |
| | 12 (RB_Pos:0) | 21.67 | 22.04 | 21.76 | 20.51 | 21.24 | 20.88 |
| | 12 (RB_Pos:6) | 21.65 | 22.02 | 21.79 | 20.52 | 21.11 | 20.91 |
| | 12 (RB_Pos:13) | 21.73 | 22.05 | 21.79 | 20.60 | 21.07 | 20.82 |
| | 25 (RB_Pos:0) | 21.64 | 22.10 | 21.77 | 20.73 | 21.02 | 20.78 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19965 | 20175 | 20385 | 19965 | 20175 | 20385 |
| 3.0MHz | 1 (RB_Pos:0) | 22.62 | 23.12 | 22.65 | 22.09 | 22.91 | 21.99 |
| | 1 (RB_Pos:8) | 22.52 | 22.96 | 22.51 | 22.09 | 22.83 | 21.84 |
| | 1 (RB_Pos:14) | 22.47 | 23.08 | 22.61 | 22.27 | 22.30 | 21.95 |
| | 8 (RB_Pos:0) | 21.70 | 22.06 | 21.77 | 21.35 | 21.10 | 20.76 |
| | 8 (RB_Pos:3) | 21.78 | 22.23 | 21.74 | 21.34 | 21.24 | 20.73 |
| | 8 (RB_Pos:7) | 21.89 | 22.25 | 21.79 | 20.55 | 21.18 | 20.80 |
| | 15 (RB_Pos:0) | 21.78 | 22.10 | 21.74 | 20.60 | 20.91 | 20.76 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19957 | 20175 | 20393 | 19957 | 20175 | 20393 |
| 1.4MHz | 1 (RB_Pos:0) | 22.59 | 23.07 | 22.77 | 22.39 | 22.17 | 22.05 |
| | 1 (RB_Pos:3) | 22.68 | 23.03 | 23.07 | 22.56 | 22.14 | 22.06 |
| | 1 (RB_Pos:5) | 22.66 | 22.90 | 22.82 | 22.25 | 22.04 | 22.05 |
| | 3 (RB_Pos:0) | 22.59 | 22.91 | 22.80 | 21.43 | 22.11 | 21.90 |
| | 3 (RB_Pos:1) | 22.51 | 22.92 | 22.83 | 21.48 | 22.03 | 21.95 |
| | 3 (RB_Pos:3) | 22.47 | 23.02 | 22.79 | 21.39 | 21.99 | 21.79 |
| | 6 (RB_Pos:0) | 21.66 | 22.10 | 21.75 | 20.51 | 20.75 | 21.00 |

| FDD LTE Band 5 | | | | | | | |
|--------------------|--------------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 20450 | 20525 | 20600 | 20450 | 20525 | 20600 |
| 10MHz | 1 (RB_Pos:0) | 23.02 | 23.00 | 22.98 | 22.18 | 22.40 | 22.00 |
| | 1 (RB_Pos:25) | 23.01 | 22.97 | 23.31 | 21.94 | 22.07 | 22.17 |
| | 1 (RB_Pos:49) | 22.91 | 22.97 | 23.00 | 21.86 | 22.21 | 22.10 |
| | 25 (RB_Pos:0) | 21.91 | 22.17 | 22.11 | 20.88 | 21.03 | 21.23 |
| | 25 (RB_Pos:12) | 21.94 | 22.01 | 22.03 | 20.77 | 20.99 | 21.08 |
| | 25 (RB_Pos:25) | 21.88 | 22.16 | 22.01 | 20.85 | 21.16 | 21.06 |
| | 50 (RB_Pos:0) | 22.04 | 22.22 | 22.08 | 20.93 | 21.21 | 21.00 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| 5MHz | Channel | 20425 | 20525 | 20625 | 20425 | 20525 | 20625 |
| | 1 (RB_Pos:0) | 22.82 | 22.76 | 22.85 | 21.83 | 22.54 | 21.98 |
| | 1 (RB_Pos:13) | 22.51 | 23.03 | 22.61 | 21.41 | 21.96 | 21.89 |
| | 1 (RB_Pos:24) | 22.58 | 23.17 | 22.78 | 21.72 | 22.37 | 21.94 |
| | 12 (RB_Pos:0) | 21.94 | 22.09 | 22.00 | 20.86 | 21.29 | 20.90 |
| | 12 (RB_Pos:6) | 22.05 | 22.10 | 21.96 | 20.67 | 21.30 | 20.87 |
| | 12 (RB_Pos:13) | 22.00 | 22.03 | 21.94 | 20.98 | 20.80 | 20.79 |
| | 25 (RB_Pos:0) | 21.87 | 22.07 | 22.00 | 21.05 | 20.85 | 20.86 |
| 3.0 MHz | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 20415 | 20525 | 20635 | 20415 | 20525 | 20635 |
| | 1 (RB_Pos:0) | 22.95 | 22.97 | 22.81 | 21.96 | 22.82 | 22.04 |
| | 1 (RB_Pos:8) | 22.64 | 22.90 | 22.61 | 21.76 | 22.67 | 21.96 |
| | 1 (RB_Pos:14) | 22.93 | 23.05 | 22.74 | 22.49 | 22.96 | 22.39 |
| | 8 (RB_Pos:0) | 21.97 | 22.08 | 21.90 | 20.75 | 21.19 | 20.89 |
| | 8 (RB_Pos:3) | 21.92 | 21.97 | 21.99 | 20.58 | 21.08 | 20.80 |
| 1.4MHz | 8 (RB_Pos:7) | 21.79 | 21.96 | 21.80 | 20.56 | 21.07 | 20.85 |
| | 15 (RB_Pos:0) | 21.95 | 22.08 | 21.95 | 20.85 | 21.05 | 20.98 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 20407 | 20525 | 20643 | 20407 | 20525 | 20643 |
| | 1 (RB_Pos:0) | 22.88 | 22.85 | 22.88 | 22.71 | 22.87 | 22.27 |
| | 1 (RB_Pos:3) | 23.20 | 23.13 | 23.06 | 22.66 | 22.99 | 22.44 |
| | 1 (RB_Pos:5) | 22.80 | 22.90 | 22.81 | 22.55 | 22.83 | 21.89 |
| | 3 (RB_Pos:0) | 22.89 | 22.86 | 23.01 | 21.87 | 22.03 | 22.38 |
| | 3 (RB_Pos:1) | 22.84 | 22.96 | 22.94 | 21.67 | 22.05 | 22.32 |
| | 3 (RB_Pos:3) | 22.75 | 22.95 | 22.85 | 21.61 | 21.99 | 22.29 |
| | 6 (RB_Pos:0) | 21.78 | 22.07 | 21.95 | 20.65 | 20.65 | 21.05 |

| FDD LTE Band 12 | | | | | | | |
|--------------------|--------------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 23060 | 23095 | 23130 | 23060 | 23095 | 23130 |
| 10MHz | 1 (RB_Pos:0) | 22.61 | 22.54 | 22.86 | 21.75 | 22.02 | 21.89 |
| | 1 (RB_Pos:25) | 22.63 | 22.57 | 22.68 | 22.15 | 22.05 | 21.87 |
| | 1 (RB_Pos:49) | 22.40 | 22.53 | 22.91 | 22.10 | 21.74 | 21.99 |
| | 25 (RB_Pos:0) | 21.49 | 21.61 | 21.78 | 20.54 | 20.60 | 20.92 |
| | 25 (RB_Pos:12) | 21.56 | 21.49 | 21.72 | 20.34 | 20.57 | 20.86 |
| | 25 (RB_Pos:25) | 21.67 | 21.63 | 21.77 | 20.59 | 20.51 | 20.82 |
| | 50 (RB_Pos:0) | 21.68 | 21.54 | 21.75 | 20.50 | 20.52 | 20.75 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| 5MHz | Channel | 23035 | 23095 | 23155 | 23035 | 23095 | 23155 |
| | 1 (RB_Pos:0) | 22.26 | 22.53 | 22.62 | 21.30 | 21.65 | 21.72 |
| | 1 (RB_Pos:13) | 22.20 | 22.64 | 22.49 | 20.97 | 21.51 | 21.35 |
| | 1 (RB_Pos:24) | 22.48 | 22.54 | 22.60 | 21.28 | 21.45 | 21.47 |
| | 12 (RB_Pos:0) | 21.49 | 21.64 | 21.63 | 20.53 | 20.65 | 20.55 |
| | 12 (RB_Pos:6) | 21.65 | 21.63 | 21.56 | 20.41 | 20.65 | 20.40 |
| | 12 (RB_Pos:13) | 21.59 | 21.68 | 21.62 | 20.51 | 20.69 | 20.36 |
| 3.0MHz | 25 (RB_Pos:0) | 21.59 | 21.67 | 21.67 | 20.59 | 20.59 | 20.53 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 23025 | 23095 | 23165 | 23025 | 23095 | 23165 |
| 1.4MHz | 1 (RB_Pos:0) | 22.51 | 22.54 | 22.47 | 21.91 | 22.69 | 21.83 |
| | 1 (RB_Pos:8) | 22.40 | 22.48 | 22.34 | 21.73 | 22.43 | 21.79 |
| | 1 (RB_Pos:14) | 22.43 | 22.44 | 22.58 | 21.94 | 22.55 | 21.88 |
| | 8 (RB_Pos:0) | 21.46 | 21.65 | 21.52 | 20.69 | 20.83 | 20.63 |
| | 8 (RB_Pos:3) | 21.41 | 21.73 | 21.50 | 20.64 | 20.73 | 20.61 |
| | 8 (RB_Pos:7) | 21.47 | 21.66 | 21.49 | 20.66 | 20.69 | 20.59 |
| | 15 (RB_Pos:0) | 21.55 | 21.72 | 21.58 | 20.63 | 20.60 | 20.60 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 23017 | 23095 | 23173 | 23017 | 23095 | 23173 |
| 1.4MHz | 1 (RB_Pos:0) | 22.55 | 22.49 | 22.41 | 22.25 | 21.94 | 21.80 |
| | 1 (RB_Pos:3) | 22.52 | 22.55 | 22.66 | 22.03 | 22.14 | 21.96 |
| | 1 (RB_Pos:5) | 22.39 | 22.54 | 22.60 | 22.03 | 22.03 | 21.98 |
| | 3 (RB_Pos:0) | 22.52 | 22.64 | 22.38 | 21.28 | 21.90 | 21.94 |
| | 3 (RB_Pos:1) | 22.57 | 22.71 | 22.53 | 21.64 | 21.95 | 22.10 |
| | 3 (RB_Pos:3) | 22.47 | 22.56 | 22.53 | 21.67 | 21.79 | 22.09 |
| | 6 (RB_Pos:0) | 21.41 | 21.62 | 21.60 | 20.61 | 20.78 | 20.77 |

| FDD LTE Band 13 | | | | | | | |
|--------------------|----------------|----------------|-------|-------|-------|-------|--|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | 16QAM | | | |
| | Channel | 23230 | | 23230 | | | |
| 10MHz | 1 (RB_Pos:0) | 22.51 | | 21.56 | | | |
| | 1 (RB_Pos:25) | 22.57 | | 22.43 | | | |
| | 1 (RB_Pos:49) | 22.42 | | 21.99 | | | |
| | 25 (RB_Pos:0) | 21.84 | | 20.80 | | | |
| | 25 (RB_Pos:12) | 21.71 | | 20.58 | | | |
| | 25 (RB_Pos:25) | 21.68 | | 20.53 | | | |
| | 50 (RB_Pos:0) | 21.77 | | 20.72 | | | |
| | RB Set | Power (dBm) | | | | | |
| 5MHz | | QPSK | | | 16QAM | | |
| | | Channel | 23205 | 23230 | 23255 | 23205 | |
| | | 1 (RB_Pos:0) | 22.66 | 21.63 | 22.64 | 21.60 | |
| | | 1 (RB_Pos:13) | 22.51 | 20.95 | 22.67 | 21.49 | |
| | | 1 (RB_Pos:24) | 22.46 | 21.13 | 22.51 | 21.76 | |
| | | 12 (RB_Pos:0) | 21.72 | 20.83 | 21.71 | 20.89 | |
| | | 12 (RB_Pos:6) | 21.74 | 20.58 | 21.62 | 20.66 | |
| | | 12 (RB_Pos:13) | 21.67 | 20.45 | 21.72 | 20.57 | |
| | | 25 (RB_Pos:0) | 21.78 | 20.76 | 21.79 | 20.57 | |
| | | | | | | 21.75 | |
| | | | | | | 20.77 | |

| FDD LTE Band 25 | | | | | | | |
|--------------------|--------------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 |
| 20MHz | 1 (RB_Pos:0) | 23.47 | 23.47 | 23.22 | 22.17 | 22.71 | 22.49 |
| | 1 (RB_Pos:50) | 23.08 | 23.47 | 23.03 | 22.26 | 22.59 | 22.40 |
| | 1 (RB_Pos:99) | 23.06 | 23.33 | 23.21 | 22.28 | 22.41 | 22.41 |
| | 50 (RB_Pos:0) | 22.38 | 22.22 | 22.02 | 21.45 | 21.16 | 20.94 |
| | 50 (RB_Pos:25) | 22.38 | 22.18 | 22.10 | 21.45 | 21.08 | 20.94 |
| | 50 (RB_Pos:50) | 22.32 | 22.08 | 22.08 | 21.39 | 21.09 | 21.05 |
| | 100 (RB_Pos:0) | 22.54 | 22.09 | 22.11 | 21.34 | 21.05 | 21.10 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| 15MHz | Channel | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 |
| | 1 (RB_Pos:0) | 23.59 | 23.23 | 23.06 | 22.97 | 22.57 | 22.96 |
| | 1 (RB_Pos:38) | 23.19 | 22.95 | 23.11 | 22.24 | 22.45 | 22.89 |
| | 1 (RB_Pos:74) | 23.29 | 22.92 | 23.15 | 22.23 | 22.35 | 22.97 |
| | 36 (RB_Pos:0) | 22.20 | 22.10 | 22.14 | 21.03 | 21.12 | 21.05 |
| | 36 (RB_Pos:20) | 22.28 | 22.02 | 22.19 | 21.10 | 21.03 | 21.18 |
| | 36 (RB_Pos:39) | 22.37 | 22.06 | 22.34 | 21.29 | 21.17 | 21.22 |
| | 75 (RB_Pos:0) | 22.31 | 22.03 | 22.27 | 21.29 | 21.13 | 21.09 |
| 10MHz | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 |
| | 1 (RB_Pos:0) | 23.52 | 23.17 | 23.34 | 22.33 | 22.48 | 22.79 |
| | 1 (RB_Pos:25) | 23.06 | 22.99 | 23.33 | 23.07 | 22.33 | 22.80 |
| | 1 (RB_Pos:49) | 23.27 | 23.07 | 23.41 | 22.85 | 22.41 | 22.64 |
| | 25 (RB_Pos:0) | 22.22 | 22.19 | 22.45 | 21.17 | 21.05 | 21.41 |
| | 25 (RB_Pos:12) | 22.23 | 22.06 | 22.53 | 20.96 | 21.08 | 21.38 |
| 5MHz | 25 (RB_Pos:25) | 22.45 | 22.24 | 22.51 | 21.17 | 21.25 | 21.52 |
| | 50 (RB_Pos:0) | 22.36 | 22.12 | 22.49 | 21.19 | 21.21 | 21.49 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| | Channel | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 |
| | 1 (RB_Pos:0) | 23.14 | 23.00 | 23.21 | 22.14 | 22.52 | 22.47 |
| | 1 (RB_Pos:13) | 22.92 | 23.10 | 23.25 | 21.69 | 22.09 | 22.47 |
| | 1 (RB_Pos:24) | 22.99 | 23.28 | 22.92 | 21.71 | 21.97 | 22.94 |
| Bandwidth (MHz) | 12 (RB_Pos:0) | 22.30 | 22.17 | 22.30 | 21.13 | 21.08 | 21.40 |
| | 12 (RB_Pos:6) | 22.22 | 22.07 | 22.26 | 20.95 | 21.11 | 21.36 |
| | 12 (RB_Pos:13) | 22.04 | 22.17 | 22.32 | 21.08 | 21.21 | 21.07 |
| | 25 (RB_Pos:0) | 22.21 | 22.07 | 22.47 | 21.31 | 21.08 | 21.33 |
| | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 |

| | | | | | | | |
|--------|--------------------|---------|-------------|-------|-------|-------|-------|
| 3.0MHz | 1 (RB_Pos:0) | 23.13 | 22.95 | 23.24 | 22.23 | 22.90 | 22.49 |
| | 1 (RB_Pos:8) | 23.07 | 22.99 | 23.05 | 22.63 | 22.16 | 22.15 |
| | 1 (RB_Pos:14) | 23.18 | 23.16 | 23.12 | 22.83 | 22.17 | 22.36 |
| | 8 (RB_Pos:0) | 22.43 | 22.12 | 22.22 | 21.45 | 21.07 | 21.14 |
| | 8 (RB_Pos:3) | 22.26 | 22.05 | 22.28 | 21.19 | 21.11 | 21.11 |
| | 8 (RB_Pos:7) | 22.16 | 22.11 | 22.17 | 21.09 | 21.14 | 21.23 |
| | 15 (RB_Pos:0) | 22.20 | 22.08 | 22.21 | 21.06 | 21.10 | 21.16 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | 16QAM | | |
| | | Channel | 26047 | 26365 | 26683 | 26047 | 26365 |
| 1.4MHz | 1 (RB_Pos:0) | 23.32 | 22.86 | 23.01 | 23.05 | 23.01 | 22.19 |
| | 1 (RB_Pos:3) | 23.21 | 22.99 | 23.61 | 23.09 | 23.03 | 22.45 |
| | 1 (RB_Pos:5) | 23.16 | 22.85 | 23.21 | 22.97 | 22.99 | 22.45 |
| | 3 (RB_Pos:0) | 23.30 | 22.97 | 23.25 | 21.90 | 22.16 | 22.02 |
| | 3 (RB_Pos:1) | 23.14 | 22.98 | 23.34 | 21.99 | 22.15 | 22.07 |
| | 3 (RB_Pos:3) | 23.15 | 22.99 | 23.21 | 21.92 | 22.09 | 21.95 |
| | 6 (RB_Pos:0) | 22.33 | 22.08 | 22.27 | 21.13 | 20.83 | 21.37 |

| FDD LTE Band 26 | | | | | | | |
|--------------------|--------------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26775 | 26865 | 26965 | 26775 | 26865 | 26965 |
| 15MHz | 1 (RB_Pos:0) | 22.99 | 22.99 | 23.21 | 22.54 | 22.24 | 22.66 |
| | 1 (RB_Pos:38) | 22.59 | 22.72 | 23.03 | 21.94 | 21.95 | 22.49 |
| | 1 (RB_Pos:74) | 22.85 | 22.91 | 22.82 | 22.26 | 22.70 | 22.43 |
| | 36 (RB_Pos:0) | 21.79 | 21.80 | 22.04 | 20.86 | 20.99 | 21.05 |
| | 36 (RB_Pos:20) | 21.63 | 21.80 | 21.97 | 20.72 | 20.94 | 20.69 |
| | 36 (RB_Pos:39) | 21.81 | 21.86 | 21.91 | 20.91 | 20.98 | 20.84 |
| | 75 (RB_Pos:0) | 21.74 | 21.94 | 21.96 | 20.68 | 20.79 | 20.94 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | 16QAM | | |
| | | Channel | 26750 | 26865 | 26990 | 26750 | 26865 |
| 10MHz | 1 (RB_Pos:0) | 23.03 | 22.72 | 22.96 | 22.07 | 22.49 | 22.25 |
| | 1 (RB_Pos:25) | 22.73 | 22.83 | 22.82 | 21.71 | 22.14 | 22.13 |
| | 1 (RB_Pos:49) | 22.87 | 22.76 | 22.76 | 21.87 | 22.09 | 21.89 |
| | 25 (RB_Pos:0) | 21.85 | 21.99 | 21.89 | 20.76 | 20.92 | 20.95 |
| | 25 (RB_Pos:12) | 21.74 | 21.71 | 21.77 | 20.74 | 20.73 | 20.85 |
| | 25 (RB_Pos:25) | 21.79 | 21.87 | 21.72 | 20.71 | 20.68 | 20.78 |
| | 50 (RB_Pos:0) | 21.78 | 21.97 | 21.67 | 20.88 | 20.91 | 20.79 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | 16QAM | | |
| | | Channel | 26715 | 26865 | 27015 | 26715 | 26865 |
| 5MHz | 1 (RB_Pos:0) | 22.83 | 22.66 | 22.71 | 21.84 | 22.24 | 21.78 |
| | 1 (RB_Pos:13) | 22.58 | 22.62 | 22.56 | 21.34 | 22.14 | 21.83 |

| | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| | 1 (RB_Pos:24) | 22.76 | 23.11 | 22.29 | 21.66 | 22.25 | 21.75 |
| | 12 (RB_Pos:0) | 21.93 | 21.89 | 21.76 | 20.71 | 20.99 | 20.62 |
| | 12 (RB_Pos:6) | 21.91 | 21.80 | 21.67 | 20.65 | 20.66 | 20.71 |
| | 12 (RB_Pos:13) | 21.74 | 21.88 | 21.79 | 20.62 | 20.61 | 20.77 |
| | 25 (RB_Pos:0) | 21.78 | 21.93 | 21.78 | 20.90 | 20.82 | 20.84 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26705 | 26865 | 27025 | 26705 | 26865 | 27025 |
| 3.0MHz | 1 (RB_Pos:0) | 22.83 | 22.71 | 22.78 | 22.25 | 22.42 | 21.94 |
| | 1 (RB_Pos:8) | 22.85 | 22.66 | 22.39 | 21.55 | 21.97 | 21.76 |
| | 1 (RB_Pos:14) | 22.94 | 22.71 | 22.46 | 21.76 | 22.04 | 21.72 |
| | 8 (RB_Pos:0) | 21.87 | 21.86 | 21.71 | 20.62 | 20.81 | 20.92 |
| | 8 (RB_Pos:3) | 21.84 | 21.77 | 21.57 | 20.66 | 20.74 | 20.80 |
| | 8 (RB_Pos:7) | 21.79 | 21.73 | 21.57 | 20.63 | 20.78 | 20.62 |
| | 15 (RB_Pos:0) | 21.84 | 21.79 | 21.72 | 20.87 | 20.91 | 20.58 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26697 | 26865 | 27033 | 26697 | 26865 | 27033 |
| 1.4MHz | 1 (RB_Pos:0) | 22.85 | 22.86 | 22.56 | 22.78 | 22.15 | 21.67 |
| | 1 (RB_Pos:3) | 22.88 | 22.88 | 22.50 | 22.60 | 22.19 | 21.71 |
| | 1 (RB_Pos:5) | 23.00 | 22.78 | 22.50 | 22.60 | 22.19 | 21.59 |
| | 3 (RB_Pos:0) | 22.91 | 22.86 | 22.63 | 22.13 | 21.96 | 21.60 |
| | 3 (RB_Pos:1) | 22.84 | 22.92 | 22.55 | 22.11 | 21.99 | 21.62 |
| | 3 (RB_Pos:3) | 22.82 | 22.81 | 22.54 | 22.10 | 21.87 | 21.51 |
| | 6 (RB_Pos:0) | 21.87 | 21.78 | 21.54 | 21.28 | 20.67 | 20.56 |

| FDD LTE Band 41 | | | | | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39750 | 40185 | 40620 | 41055 | 41490 | 39750 | 40185 | 40620 | 41055 | 41490 |
| 20MHz | 1 (RB_Pos:0) | 22.89 | 23.00 | 23.63 | 23.37 | 23.02 | 22.21 | 22.37 | 22.57 | 22.52 | 22.28 |
| | 1 (RB_Pos:50) | 22.95 | 23.06 | 23.34 | 23.17 | 22.90 | 21.81 | 21.74 | 22.17 | 22.15 | 22.25 |
| | 1 (RB_Pos:99) | 22.74 | 22.82 | 23.43 | 23.16 | 22.91 | 21.82 | 21.77 | 22.29 | 22.18 | 22.24 |
| | 50 (RB_Pos:0) | 21.77 | 21.90 | 22.51 | 22.14 | 21.59 | 20.68 | 20.90 | 21.57 | 21.10 | 20.67 |
| | 50 (RB_Pos:25) | 21.79 | 21.71 | 22.30 | 22.10 | 21.37 | 20.89 | 20.72 | 21.36 | 21.05 | 20.45 |
| | 50 (RB_Pos:50) | 21.71 | 21.71 | 22.24 | 22.11 | 21.32 | 20.81 | 20.67 | 21.38 | 21.04 | 20.31 |
| | 100 (RB_Pos:0) | 21.79 | 21.79 | 22.42 | 22.08 | 21.45 | 20.81 | 20.75 | 21.32 | 21.03 | 20.39 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39725 | 40160 | 40620 | 41080 | 41515 | 39725 | 40160 | 40620 | 41080 | 41515 |
| 15MHz | 1 (RB_Pos:0) | 22.64 | 22.90 | 23.86 | 23.51 | 22.84 | 22.42 | 22.74 | 22.90 | 22.98 | 21.87 |
| | 1 (RB_Pos:38) | 22.41 | 22.59 | 23.49 | 23.13 | 22.22 | 22.25 | 22.39 | 22.64 | 22.52 | 21.93 |
| | 1 (RB_Pos:74) | 22.56 | 22.69 | 23.66 | 23.32 | 22.30 | 22.24 | 22.50 | 22.70 | 22.54 | 22.00 |
| | 36 (RB_Pos:0) | 21.56 | 21.89 | 22.53 | 22.15 | 21.52 | 20.48 | 20.75 | 21.56 | 21.17 | 20.68 |
| | 36 (RB_Pos:20) | 21.57 | 21.71 | 22.32 | 22.13 | 21.30 | 20.38 | 20.54 | 21.36 | 21.17 | 20.37 |
| | 36 (RB_Pos:39) | 21.60 | 21.69 | 22.39 | 22.17 | 21.32 | 20.53 | 20.53 | 21.45 | 21.15 | 20.28 |
| | 75 (RB_Pos:0) | 21.49 | 21.74 | 22.35 | 22.15 | 21.49 | 20.53 | 20.80 | 21.43 | 21.21 | 20.54 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39700 | 40135 | 40620 | 41105 | 41540 | 39700 | 40135 | 40620 | 41105 | 41540 |
| 10MHz | 1 (RB_Pos:0) | 22.47 | 22.92 | 23.80 | 23.54 | 22.53 | 22.14 | 22.62 | 22.91 | 22.53 | 22.79 |
| | 1 (RB_Pos:25) | 22.53 | 22.77 | 23.34 | 23.29 | 22.41 | 22.00 | 22.38 | 22.71 | 22.67 | 22.87 |
| | 1 (RB_Pos:49) | 22.33 | 22.75 | 23.41 | 23.16 | 22.48 | 22.15 | 22.30 | 22.67 | 22.57 | 22.59 |
| | 25 (RB_Pos:0) | 21.23 | 21.90 | 22.35 | 22.25 | 21.47 | 20.36 | 20.93 | 21.24 | 21.07 | 20.43 |
| | 25 (RB_Pos:12) | 21.26 | 21.80 | 22.30 | 22.21 | 21.35 | 20.27 | 20.75 | 21.28 | 21.13 | 20.32 |
| | 25 (RB_Pos:25) | 21.24 | 21.80 | 22.26 | 22.14 | 21.29 | 20.27 | 20.66 | 21.08 | 21.08 | 20.28 |
| | 50 (RB_Pos:0) | 21.28 | 21.85 | 22.31 | 22.24 | 21.39 | 20.23 | 20.72 | 21.37 | 21.20 | 20.48 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39675 | 40110 | 40620 | 41130 | 41565 | 39675 | 40110 | 40620 | 41130 | 41565 |
| 5MHz | 1 (RB_Pos:0) | 22.02 | 23.00 | 23.01 | 22.85 | 22.52 | 21.58 | 22.16 | 22.33 | 22.14 | 21.20 |
| | 1 (RB_Pos:13) | 22.12 | 22.90 | 23.20 | 22.84 | 22.38 | 21.23 | 21.89 | 22.07 | 22.08 | 20.99 |
| | 1 (RB_Pos:24) | 22.23 | 22.81 | 23.15 | 22.87 | 22.39 | 21.43 | 22.01 | 22.33 | 22.01 | 20.99 |
| | 12 (RB_Pos:0) | 21.16 | 21.93 | 22.25 | 22.05 | 21.33 | 20.24 | 20.88 | 21.20 | 21.35 | 20.29 |
| | 12 (RB_Pos:6) | 21.17 | 22.01 | 22.31 | 21.93 | 21.36 | 20.30 | 20.77 | 21.25 | 21.26 | 20.12 |
| | 12 (RB_Pos:13) | 21.25 | 21.96 | 22.29 | 21.94 | 21.36 | 20.27 | 20.84 | 21.25 | 21.32 | 20.12 |
| | 25 (RB_Pos:0) | 21.23 | 21.95 | 22.32 | 21.95 | 21.38 | 20.18 | 20.82 | 21.30 | 20.81 | 20.33 |

8.4 WIFI

8.4.1 2.4GWIFI

| Band (GHz) | Mode | Channel | Freq. (MHz) | Avg. Power (dBm) | SAR Test Require. |
|---------------------|---------------|---------|----------------|---------------------|----------------------|
| 2.4 (2.4~2.4835) | 802.11b | 1 | 2412 | 16.56 | No |
| | | 6 | 2437 | 16.62 | No |
| | | 11 | 2462 | 16.77 | Yes |
| | 802.11g | 1 | 2412 | 13.53 | No |
| | | 6 | 2437 | 13.81 | No |
| | | 11 | 2462 | 13.34 | No |
| | 802.11n(HT20) | 1 | 2412 | 12.98 | No |
| | | 6 | 2437 | 13.95 | No |
| | | 11 | 2462 | 13.17 | No |
| | 802.11n(HT40) | 3 | 2422 | 11.78 | No |
| | | 6 | 2437 | 11.95 | No |
| | | 9 | 2452 | 11.94 | No |

8.5 Bluetooth

| Mode | GFSK | | | $\pi/4$ -DQPSK | | |
|---------------------|--------|--------------|------|----------------|-------|-------|
| Channel | 0 | 39 | 78 | 0 | 39 | 78 |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2441 | 2480 |
| Average Power (dBm) | 6.68 | 10.48 | 7.19 | 7.43 | 11.24 | 8.03 |
| Mode | 8-DPSK | | | BLE | | |
| Channel | 0 | 39 | 78 | 0 | 19 | 39 |
| Frequency (MHz) | 2402 | 2441 | 2480 | 2402 | 2440 | 2480 |
| Average Power (dBm) | 7.77 | 11.58 | 8.36 | -1.80 | -0.12 | -1.25 |

8.6 Power Reduction List

When device operating under hotspot mode, the CDMA BC1, LTE B2/B4/B25/B41 power reduction will applied for SAR compliance.

| Band | | CDMA BC1 | | |
|-----------------|--|--------------|---------|---------|
| Channel | | 25 | 600 | 1175 |
| Frequency (MHz) | | 1851.25 | 1880.00 | 1908.75 |
| 1xRTT | RC1 SO55 | 20.43 | 20.22 | 20.34 |
| | RC3 SO55 | 20.37 | 20.29 | 20.24 |
| | RC3 SO32 | 20.27 | 20.25 | 20.32 |
| 1xEVDO Rel.0 | FTAP Rate: 307.2kbps RTAP Rate: 153.6kbps | 20.35 | 20.25 | 20.29 |
| 1xEVDO Rel.A | FTAP: 307.2k,QPSK/ACK RTAP: 4096 | 20.25 | 20.23 | 20.18 |

| FDD LTE Band 2 | | | | | | | |
|--------------------|----------------|-------------|--------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18700 | 18900 | 19100 | 18700 | 18900 | 19100 |
| 20MHz | 1 (RB_Pos:0) | 20.14 | 20.34 | 20.02 | 20.41 | 20.65 | 20.41 |
| | 1 (RB_Pos:50) | 20.10 | 20.39 | 19.79 | 20.53 | 20.44 | 19.90 |
| | 1 (RB_Pos:99) | 20.05 | 20.43 | 20.00 | 20.10 | 20.55 | 20.03 |
| | 50 (RB_Pos:0) | 20.19 | 20.21 | 19.83 | 20.17 | 20.07 | 19.82 |
| | 50 (RB_Pos:25) | 20.18 | 20.17 | 19.71 | 20.17 | 20.02 | 19.52 |
| | 50 (RB_Pos:50) | 20.15 | 20.14 | 19.69 | 20.19 | 20.19 | 19.71 |
| | 100 (RB_Pos:0) | 20.21 | 20.08 | 19.79 | 20.06 | 20.02 | 19.70 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18675 | 18900 | 19125 | 18675 | 18900 | 19125 |
| 15MHz | 1 (RB_Pos:0) | 20.22 | 20.35 | 20.03 | 20.30 | 20.59 | 20.41 |
| | 1 (RB_Pos:38) | 20.17 | 19.87 | 19.79 | 20.13 | 20.18 | 20.17 |
| | 1 (RB_Pos:74) | 20.32 | 20.19 | 19.98 | 20.25 | 20.37 | 20.34 |
| | 36 (RB_Pos:0) | 20.08 | 20.09 | 19.96 | 20.23 | 20.07 | 19.85 |
| | 36 (RB_Pos:20) | 20.13 | 20.03 | 19.90 | 20.24 | 19.92 | 19.78 |
| | 36 (RB_Pos:39) | 20.15 | 20.17 | 20.02 | 20.27 | 20.26 | 19.78 |
| | 75 (RB_Pos:0) | 20.12 | 20.11 | 19.96 | 20.27 | 20.18 | 19.89 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18650 | 18900 | 19150 | 18650 | 18900 | 19150 |
| 10MHz | 1 (RB_Pos:0) | 20.30 | 20.10 | 20.13 | 20.57 | 20.51 | 20.42 |
| | 1 (RB_Pos:25) | 20.14 | 20.03 | 19.92 | 20.37 | 20.36 | 20.31 |
| | 1 (RB_Pos:49) | 20.18 | 20.20 | 20.15 | 20.52 | 20.41 | 20.35 |
| | 25 (RB_Pos:0) | 20.17 | 20.08 | 20.24 | 20.02 | 20.06 | 20.41 |
| | 25 (RB_Pos:12) | 20.07 | 20.15 | 20.19 | 19.93 | 20.04 | 20.39 |

| | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| | 25 (RB_Pos:25) | 20.17 | 20.09 | 20.22 | 20.03 | 20.16 | 20.34 |
| | 50 (RB_Pos:0) | 20.12 | 20.13 | 20.21 | 20.05 | 20.09 | 20.17 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18625 | 18900 | 19175 | 18625 | 18900 | 19175 |
| 5MHz | 1 (RB_Pos:0) | 19.85 | 20.36 | 19.98 | 19.98 | 20.61 | 20.32 |
| | 1 (RB_Pos:13) | 20.09 | 19.85 | 20.10 | 19.99 | 20.11 | 20.10 |
| | 1 (RB_Pos:24) | 20.13 | 20.26 | 20.26 | 19.90 | 19.88 | 20.14 |
| | 12 (RB_Pos:0) | 20.10 | 20.01 | 20.31 | 19.92 | 20.23 | 20.25 |
| | 12 (RB_Pos:6) | 20.16 | 20.08 | 20.36 | 19.92 | 20.09 | 20.34 |
| | 12 (RB_Pos:13) | 20.15 | 20.14 | 20.33 | 20.02 | 20.24 | 20.44 |
| | 25 (RB_Pos:0) | 20.19 | 20.07 | 20.29 | 20.29 | 20.20 | 20.30 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18615 | 18900 | 19185 | 18615 | 18900 | 19185 |
| 3.0MHz | 1 (RB_Pos:0) | 19.96 | 20.03 | 20.28 | 20.37 | 20.49 | 20.24 |
| | 1 (RB_Pos:8) | 19.93 | 19.90 | 20.34 | 20.40 | 20.20 | 19.99 |
| | 1 (RB_Pos:14) | 20.25 | 20.11 | 20.26 | 20.63 | 20.19 | 20.63 |
| | 8 (RB_Pos:0) | 20.26 | 20.12 | 20.42 | 20.27 | 20.35 | 20.36 |
| | 8 (RB_Pos:3) | 20.33 | 20.07 | 20.43 | 20.15 | 20.21 | 20.37 |
| | 8 (RB_Pos:7) | 20.19 | 20.06 | 20.40 | 20.12 | 20.17 | 20.35 |
| | 15 (RB_Pos:0) | 20.24 | 20.10 | 20.41 | 20.39 | 20.08 | 20.39 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 18607 | 18900 | 19193 | 18607 | 18900 | 19193 |
| 1.4MHz | 1 (RB_Pos:0) | 20.22 | 19.96 | 20.37 | 20.68 | 20.30 | 20.71 |
| | 1 (RB_Pos:3) | 20.44 | 20.12 | 20.52 | 20.81 | 20.37 | 20.82 |
| | 1 (RB_Pos:5) | 20.21 | 20.09 | 20.46 | 20.56 | 20.24 | 20.85 |
| | 3 (RB_Pos:0) | 20.10 | 20.10 | 20.44 | 20.18 | 20.09 | 20.12 |
| | 3 (RB_Pos:1) | 20.17 | 20.13 | 20.49 | 20.38 | 20.08 | 20.17 |
| | 3 (RB_Pos:3) | 20.09 | 20.08 | 20.45 | 20.44 | 20.03 | 20.11 |
| | 6 (RB_Pos:0) | 20.09 | 20.12 | 20.41 | 20.29 | 19.90 | 20.73 |

| FDD LTE Band 4 | | | | | | | |
|--------------------|--------------------|-------------|-------------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 20050 | 20175 | 20300 | 20050 | 20175 | 20300 |
| 20MHz | 1 (RB_Pos:0) | 21.44 | 21.25 | 21.24 | 21.28 | 21.57 | 21.57 |
| | 1 (RB_Pos:50) | 21.00 | 21.15 | 20.96 | 21.07 | 21.63 | 21.16 |
| | 1 (RB_Pos:99) | 21.05 | 21.23 | 21.11 | 21.11 | 21.58 | 21.15 |
| | 50 (RB_Pos:0) | 21.18 | 21.19 | 21.10 | 21.23 | 21.12 | 20.99 |
| | 50 (RB_Pos:25) | 21.13 | 21.25 | 20.93 | 21.18 | 21.09 | 20.76 |
| | 50 (RB_Pos:50) | 21.14 | 21.12 | 20.77 | 21.17 | 21.07 | 20.67 |
| | 100 (RB_Pos:0) | 21.15 | 21.19 | 20.99 | 21.19 | 21.02 | 20.92 |
| | Bandwidth (MHz) | RB Set | Power (dBm) | | | | |
| | | | QPSK | | | 16QAM | |
| 15MHz | Channel | 20025 | 20175 | 20325 | 20025 | 20175 | 20325 |
| | 1 (RB_Pos:0) | 21.24 | 21.28 | 21.40 | 21.28 | 21.58 | 21.66 |
| | 1 (RB_Pos:38) | 20.81 | 21.12 | 20.82 | 20.96 | 21.52 | 21.28 |
| | 1 (RB_Pos:74) | 21.14 | 21.14 | 20.99 | 21.22 | 21.59 | 21.21 |
| | 36 (RB_Pos:0) | 21.02 | 21.25 | 21.18 | 21.05 | 21.22 | 21.13 |
| | 36 (RB_Pos:20) | 20.93 | 21.24 | 20.94 | 21.03 | 21.20 | 20.85 |
| | 36 (RB_Pos:39) | 21.01 | 21.28 | 20.91 | 21.04 | 21.23 | 20.90 |
| | 75 (RB_Pos:0) | 20.99 | 21.15 | 21.04 | 21.04 | 21.20 | 20.84 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 20000 | 20175 | 20350 | 20000 | 20175 | 20350 |
| 10MHz | 1 (RB_Pos:0) | 20.89 | 21.13 | 21.02 | 21.27 | 21.49 | 21.32 |
| | 1 (RB_Pos:25) | 20.77 | 21.07 | 20.99 | 20.99 | 21.44 | 21.24 |
| | 1 (RB_Pos:49) | 20.78 | 20.97 | 21.04 | 21.18 | 21.34 | 21.15 |
| | 25 (RB_Pos:0) | 20.97 | 21.14 | 21.15 | 20.98 | 21.10 | 21.24 |
| | 25 (RB_Pos:12) | 20.85 | 21.14 | 21.08 | 20.86 | 21.07 | 21.07 |
| | 25 (RB_Pos:25) | 20.88 | 21.11 | 21.02 | 20.79 | 21.05 | 21.00 |
| | 50 (RB_Pos:0) | 20.92 | 21.12 | 21.05 | 20.82 | 21.07 | 21.16 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19975 | 20175 | 20375 | 19975 | 20175 | 20375 |
| 5MHz | 1 (RB_Pos:0) | 20.63 | 21.05 | 20.93 | 20.77 | 21.08 | 21.13 |
| | 1 (RB_Pos:13) | 20.44 | 21.15 | 20.62 | 20.25 | 21.03 | 21.05 |
| | 1 (RB_Pos:24) | 20.51 | 21.39 | 20.79 | 20.43 | 20.97 | 21.13 |
| | 12 (RB_Pos:0) | 20.76 | 21.21 | 20.97 | 20.65 | 21.27 | 20.78 |
| | 12 (RB_Pos:6) | 20.74 | 21.20 | 20.99 | 20.58 | 21.26 | 20.84 |
| | 12 (RB_Pos:13) | 20.73 | 21.22 | 20.94 | 20.62 | 21.26 | 20.76 |
| | 25 (RB_Pos:0) | 20.79 | 21.24 | 20.88 | 20.86 | 21.21 | 20.81 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19965 | 20175 | 20385 | 19965 | 20175 | 20385 |

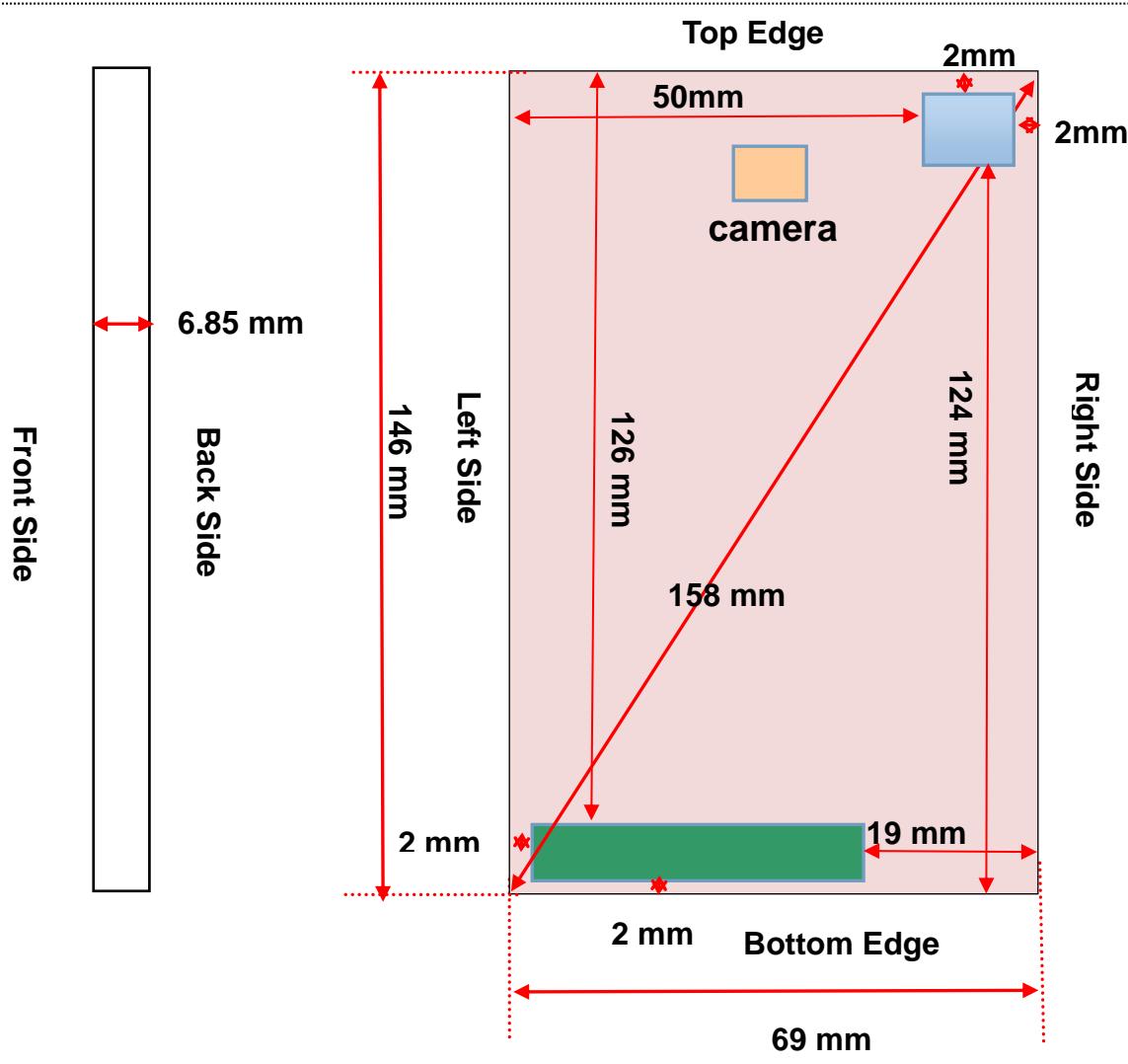
| | | | | | | | |
|--------------------|---------------|-------------|-------|-------|-------|-------|-------|
| 3.0MHz | 1 (RB_Pos:0) | 20.62 | 21.10 | 20.86 | 20.62 | 21.44 | 21.18 |
| | 1 (RB_Pos:8) | 20.56 | 21.07 | 20.73 | 20.51 | 21.44 | 21.09 |
| | 1 (RB_Pos:14) | 20.48 | 21.33 | 20.87 | 20.54 | 21.41 | 21.13 |
| | 8 (RB_Pos:0) | 20.72 | 21.13 | 20.91 | 20.50 | 21.29 | 20.96 |
| | 8 (RB_Pos:3) | 20.65 | 21.15 | 20.89 | 20.53 | 21.32 | 20.93 |
| | 8 (RB_Pos:7) | 20.66 | 21.18 | 20.87 | 20.53 | 21.25 | 20.93 |
| | 15 (RB_Pos:0) | 20.73 | 21.14 | 20.89 | 20.79 | 21.27 | 20.86 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 19957 | 20175 | 20393 | 19957 | 20175 | 20393 |
| 1.4MHz | 1 (RB_Pos:0) | 20.68 | 21.05 | 20.76 | 21.01 | 21.39 | 21.14 |
| | 1 (RB_Pos:3) | 20.79 | 21.16 | 20.78 | 21.12 | 21.55 | 21.17 |
| | 1 (RB_Pos:5) | 20.67 | 21.15 | 20.83 | 21.03 | 21.47 | 21.22 |
| | 3 (RB_Pos:0) | 20.70 | 21.18 | 20.83 | 20.32 | 21.18 | 20.71 |
| | 3 (RB_Pos:1) | 20.75 | 21.13 | 20.87 | 20.37 | 21.40 | 20.75 |
| | 3 (RB_Pos:3) | 20.62 | 21.10 | 20.84 | 20.27 | 21.26 | 20.70 |
| | 6 (RB_Pos:0) | 20.57 | 21.18 | 20.79 | 20.34 | 20.99 | 20.90 |

| FDD LTE Band 25 | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26140 | 26365 | 26590 | 26140 | 26365 | 26590 |
| 20MHz | 1 (RB_Pos:0) | 20.31 | 20.40 | 20.24 | 20.71 | 20.73 | 20.52 |
| | 1 (RB_Pos:50) | 20.48 | 20.60 | 20.13 | 20.56 | 20.70 | 20.34 |
| | 1 (RB_Pos:99) | 20.45 | 20.50 | 20.45 | 20.37 | 20.64 | 20.36 |
| | 50 (RB_Pos:0) | 20.24 | 20.21 | 20.13 | 20.23 | 20.18 | 20.13 |
| | 50 (RB_Pos:25) | 20.34 | 20.24 | 20.11 | 20.38 | 20.20 | 20.10 |
| | 50 (RB_Pos:50) | 20.29 | 20.17 | 20.19 | 20.24 | 20.24 | 20.20 |
| | 100 (RB_Pos:0) | 20.29 | 20.19 | 20.20 | 20.25 | 20.15 | 20.14 |
| 15MHz | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26115 | 26365 | 26615 | 26115 | 26365 | 26615 |
| 10MHz | 1 (RB_Pos:0) | 20.14 | 20.29 | 20.40 | 20.61 | 20.47 | 20.80 |
| | 1 (RB_Pos:38) | 20.11 | 20.12 | 20.25 | 20.07 | 20.36 | 20.63 |
| | 1 (RB_Pos:74) | 20.30 | 20.18 | 20.39 | 20.75 | 20.56 | 20.66 |
| | 36 (RB_Pos:0) | 20.04 | 20.21 | 20.26 | 20.09 | 20.20 | 20.20 |
| | 36 (RB_Pos:20) | 20.17 | 20.21 | 20.37 | 20.11 | 20.21 | 20.27 |
| | 36 (RB_Pos:39) | 20.29 | 20.22 | 20.58 | 20.40 | 20.31 | 20.66 |
| | 75 (RB_Pos:0) | 20.18 | 20.16 | 20.42 | 20.13 | 20.13 | 20.45 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26090 | 26365 | 26640 | 26090 | 26365 | 26640 |
| 10MHz | 1 (RB_Pos:0) | 20.08 | 20.18 | 20.57 | 20.51 | 20.58 | 20.92 |
| | 1 (RB_Pos:25) | 20.04 | 20.18 | 20.71 | 20.35 | 20.51 | 20.94 |

| | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|
| | 1 (RB_Pos:49) | 20.28 | 20.18 | 20.61 | 20.69 | 20.61 | 20.84 |
| | 25 (RB_Pos:0) | 20.00 | 20.15 | 20.55 | 20.08 | 20.13 | 20.66 |
| | 25 (RB_Pos:12) | 20.01 | 20.18 | 20.63 | 19.97 | 20.07 | 20.74 |
| | 25 (RB_Pos:25) | 20.31 | 20.27 | 20.79 | 20.28 | 20.27 | 20.83 |
| | 50 (RB_Pos:0) | 20.16 | 20.20 | 20.52 | 20.12 | 20.17 | 20.56 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26065 | 26365 | 26665 | 26065 | 26365 | 26665 |
| 5MHz | 1 (RB_Pos:0) | 19.76 | 20.19 | 20.26 | 19.80 | 20.19 | 20.68 |
| | 1 (RB_Pos:13) | 19.80 | 20.23 | 20.15 | 19.46 | 20.21 | 20.57 |
| | 1 (RB_Pos:24) | 19.64 | 20.49 | 20.35 | 19.90 | 20.29 | 20.52 |
| | 12 (RB_Pos:0) | 20.04 | 20.12 | 20.42 | 19.79 | 20.24 | 20.38 |
| | 12 (RB_Pos:6) | 20.00 | 20.21 | 20.48 | 19.79 | 20.23 | 20.52 |
| | 12 (RB_Pos:13) | 20.02 | 20.26 | 20.35 | 19.91 | 20.29 | 20.33 |
| | 25 (RB_Pos:0) | 20.02 | 20.20 | 20.46 | 20.27 | 20.12 | 20.83 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26055 | 26365 | 26675 | 26055 | 26365 | 26675 |
| 3.0MHz | 1 (RB_Pos:0) | 19.83 | 20.13 | 20.40 | 20.31 | 20.58 | 20.83 |
| | 1 (RB_Pos:8) | 19.78 | 20.10 | 20.17 | 20.17 | 20.59 | 20.59 |
| | 1 (RB_Pos:14) | 19.89 | 20.23 | 20.21 | 20.31 | 20.62 | 20.59 |
| | 8 (RB_Pos:0) | 20.12 | 20.14 | 20.36 | 19.78 | 20.34 | 20.41 |
| | 8 (RB_Pos:3) | 20.09 | 20.12 | 20.35 | 19.75 | 20.33 | 20.40 |
| | 8 (RB_Pos:7) | 19.97 | 20.21 | 20.37 | 19.75 | 20.43 | 20.43 |
| | 15 (RB_Pos:0) | 20.02 | 20.13 | 20.37 | 19.97 | 20.22 | 20.33 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | |
| | | QPSK | | | 16QAM | | |
| | Channel | 26047 | 26365 | 26683 | 26047 | 26365 | 26683 |
| 1.4MHz | 1 (RB_Pos:0) | 19.81 | 20.06 | 20.05 | 20.26 | 20.45 | 20.38 |
| | 1 (RB_Pos:3) | 19.96 | 20.18 | 20.21 | 20.33 | 20.34 | 20.48 |
| | 1 (RB_Pos:5) | 19.89 | 20.09 | 20.06 | 20.38 | 20.52 | 20.46 |
| | 3 (RB_Pos:0) | 19.99 | 20.06 | 20.25 | 20.13 | 20.46 | 20.44 |
| | 3 (RB_Pos:1) | 20.07 | 20.12 | 20.29 | 20.20 | 20.36 | 20.40 |
| | 3 (RB_Pos:3) | 20.11 | 20.09 | 20.21 | 20.37 | 20.43 | 20.31 |
| | 6 (RB_Pos:0) | 20.00 | 20.11 | 20.36 | 20.14 | 20.19 | 20.49 |

| FDD LTE Band 41 | | | | | | | | | | | |
|--------------------|----------------|-------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39750 | 40185 | 40620 | 41055 | 41490 | 39750 | 40185 | 40620 | 41055 | 41490 |
| 20MHz | 1 (RB_Pos:0) | 18.76 | 18.54 | 19.20 | 18.98 | 18.60 | 19.06 | 18.84 | 18.95 | 19.40 | 19.14 |
| | 1 (RB_Pos:50) | 18.60 | 18.52 | 18.84 | 18.91 | 18.15 | 18.99 | 18.52 | 18.44 | 18.53 | 18.86 |
| | 1 (RB_Pos:99) | 18.65 | 18.37 | 18.91 | 18.92 | 18.12 | 19.02 | 18.49 | 18.67 | 18.73 | 18.66 |
| | 50 (RB_Pos:0) | 18.82 | 18.45 | 18.94 | 18.69 | 18.29 | 18.62 | 18.43 | 19.03 | 18.70 | 18.50 |
| | 50 (RB_Pos:25) | 18.56 | 18.32 | 18.73 | 18.68 | 18.06 | 18.49 | 18.37 | 18.74 | 18.66 | 18.30 |
| | 50 (RB_Pos:50) | 18.49 | 18.35 | 18.69 | 18.71 | 17.90 | 18.48 | 18.33 | 18.79 | 18.74 | 18.14 |
| | 100 (RB_Pos:0) | 18.66 | 18.39 | 18.80 | 18.64 | 18.20 | 18.61 | 18.41 | 18.7 | 18.57 | 18.32 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39725 | 40160 | 40620 | 41080 | 41515 | 39725 | 40160 | 40620 | 41080 | 41515 |
| 15MHz | 1 (RB_Pos:0) | 18.49 | 19.19 | 18.64 | 19.14 | 19.09 | 19.33 | 19.13 | 19.33 | 18.35 | 19.14 |
| | 1 (RB_Pos:38) | 18.26 | 19.03 | 18.34 | 18.84 | 18.80 | 19.16 | 18.78 | 18.80 | 17.80 | 18.85 |
| | 1 (RB_Pos:74) | 18.54 | 19.08 | 18.42 | 19.02 | 19.05 | 19.05 | 19.12 | 19.15 | 17.92 | 18.92 |
| | 36 (RB_Pos:0) | 18.44 | 18.36 | 18.47 | 18.37 | 18.90 | 18.87 | 18.71 | 18.82 | 18.19 | 18.13 |
| | 36 (RB_Pos:20) | 18.25 | 18.20 | 18.39 | 18.33 | 18.71 | 18.70 | 18.67 | 18.72 | 17.95 | 17.90 |
| | 36 (RB_Pos:39) | 18.29 | 18.30 | 18.36 | 18.20 | 18.79 | 18.97 | 18.85 | 18.85 | 18.04 | 17.85 |
| | 75 (RB_Pos:0) | 18.38 | 18.41 | 18.39 | 18.38 | 18.77 | 19.07 | 18.76 | 18.78 | 18.02 | 18.10 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39700 | 40135 | 40620 | 41105 | 41540 | 39700 | 40135 | 40620 | 41105 | 41540 |
| 10MHz | 1 (RB_Pos:0) | 18.09 | 18.86 | 18.63 | 19.24 | 19.40 | 19.32 | 18.88 | 19.32 | 18.21 | 19.33 |
| | 1 (RB_Pos:25) | 18.01 | 18.86 | 18.53 | 19.15 | 18.97 | 19.23 | 18.84 | 18.85 | 17.93 | 19.26 |
| | 1 (RB_Pos:49) | 18.01 | 18.75 | 18.45 | 19.03 | 18.90 | 19.15 | 18.98 | 18.89 | 18.01 | 19.27 |
| | 25 (RB_Pos:0) | 18.20 | 18.16 | 18.50 | 18.59 | 18.84 | 18.69 | 18.71 | 18.71 | 18.10 | 18.02 |
| | 25 (RB_Pos:12) | 18.20 | 18.12 | 18.56 | 18.45 | 18.78 | 18.57 | 18.75 | 18.61 | 17.98 | 17.82 |
| | 25 (RB_Pos:25) | 18.22 | 18.14 | 18.76 | 18.58 | 18.77 | 18.56 | 18.77 | 18.69 | 17.98 | 17.82 |
| | 50 (RB_Pos:0) | 18.18 | 18.03 | 18.75 | 18.48 | 18.74 | 18.74 | 18.73 | 18.76 | 18.06 | 18.10 |
| Bandwidth (MHz) | RB Set | Power (dBm) | | | | | | | | | |
| | | QPSK | | | | | 16QAM | | | | |
| | Channel | 39675 | 40110 | 40620 | 41130 | 41565 | 39675 | 40110 | 40620 | 41130 | 41565 |
| 5MHz | 1 (RB_Pos:0) | 18.00 | 18.40 | 18.55 | 18.15 | 18.66 | 18.76 | 18.73 | 19.10 | 18.10 | 17.69 |
| | 1 (RB_Pos:13) | 18.01 | 18.36 | 18.52 | 18.09 | 18.51 | 18.70 | 18.66 | 18.75 | 17.85 | 17.47 |
| | 1 (RB_Pos:24) | 18.10 | 18.35 | 18.45 | 18.15 | 18.51 | 18.55 | 18.74 | 18.81 | 17.88 | 17.59 |
| | 12 (RB_Pos:0) | 18.20 | 18.04 | 18.50 | 18.34 | 18.72 | 19.03 | 18.82 | 18.82 | 18.04 | 17.73 |
| | 12 (RB_Pos:6) | 18.15 | 18.06 | 18.49 | 18.23 | 18.64 | 18.98 | 18.75 | 18.60 | 18.00 | 17.76 |
| | 12 (RB_Pos:13) | 18.20 | 18.14 | 18.49 | 18.35 | 18.65 | 18.95 | 18.82 | 18.84 | 17.91 | 17.75 |
| | 25 (RB_Pos:0) | 18.09 | 18.04 | 18.44 | 18.54 | 18.68 | 18.70 | 18.82 | 18.85 | 18.07 | 17.98 |

9 EUT ANTENNA LOCATION SKETCH



WLAN/BT Antenna



WWAN Antenna



EUT Back View

9.1 SAR Test Exclusion Consider Table

According with FCC KDB 447498 D01, Appendix A, <SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm> Table, this Device SAR test configurations consider as following :

| Band | Mode | Max. Peak Power | | Test Position Configurations | | | | | |
|-------------|------------------|-----------------|--------|------------------------------|----------------|--------------|---------------|-------------|----------------|
| | | dBm | mW | Head | Front/ Back | Left Edge | Right Edge | Top Edge | Bottom Edge |
| CDMA BC0 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | RC3 SO55 | 24.30 | 269.15 | Yes | No | No | No | No | No |
| | RC3 SO32 | 24.50 | 281.84 | No | Yes | Yes | Yes | Yes | Yes |
| CDMA BC1 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | RC3 SO55 | 23.80 | 239.88 | Yes | No | No | No | No | No |
| | RC3 SO32 | 23.50 | 223.87 | No | Yes | Yes | Yes | Yes | Yes |
| CDMA BC10 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | RC3 SO55 | 24.50 | 281.84 | Yes | No | No | No | No | No |
| | RC3 SO32 | 24.80 | 302.00 | No | Yes | Yes | Yes | Yes | Yes |
| LTE Band 2 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 24.00 | 251.19 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 4 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.60 | 229.09 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 5 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.50 | 223.87 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 12 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.30 | 213.80 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 13 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.00 | 199.53 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 25 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.80 | 239.88 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 26 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.50 | 223.87 | Yes | Yes | Yes | Yes | No | Yes |
| LTE Band 41 | Distance to User | | | <5mm | <5 mm | <5 mm | 19 mm | 126 mm | <5mm |
| | QPSK | 23.90 | 245.47 | Yes | Yes | Yes | Yes | No | Yes |
| WLAN 2.4 G | Distance to User | | | <5mm | <5mm | 50mm | <5mm | <5mm | 124 mm |
| | 802.11b | 17.00 | 50.12 | Yes | Yes | No | Yes | Yes | No |
| | 802.11g | 14.00 | 25.12 | No | No | No | No | No | No |
| | 802.11n(HT20) | 14.00 | 25.12 | No | No | No | No | No | No |
| | 802.11n(HT40) | 12.00 | 15.85 | No | No | No | No | No | No |
| Bluetooth | Distance to User | | | <5mm | <5mm | 50mm | <5mm | <5mm | 124 mm |
| | Bluetooth BR/EDR | 12.00 | 15.85 | Yes | Yes | No | Yes | Yes | No |
| | Bluetooth BLE | 0.3 | 1.07 | No | No | No | No | No | No |

Note:

- Maximum power is the source-based time-average power and represents the maximum RF output power among production units.

2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold
4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:
$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
 - a. $f(\text{GHz})$ is the RF channel transmit frequency in GHz
 - b. Power and distance are rounded to the nearest mW and mm before calculation
 - c. The result is rounded to one decimal place for comparison
 - d. For < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.This formula is $[3.0] / [\sqrt{f(\text{GHz})}] \cdot [\text{min. test separation distance, mm}] = \text{exclusion threshold of mW}.$
5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for test separation distances > 50 mm, the SAR test exclusion threshold is determined according to the following:
 - a. [Threshold at 50 mm in step 1] + (test separation distance - 50 mm) · ($f(\text{MHz})/150$) mW, at 100 MHz to 1500 MHz
 - b. [Threshold at 50 mm in step 1] + (test separation distance - 50 mm) · 10 mW at > 1500 MHz and \leq 6 GHz
6. Per KDB 941225 D01, When the maximum output power and tune-up tolerance specified for production units in a secondary mode is $\leq \frac{1}{4}$ dB higher than the primary mode or when the highest reported SAR of the primary mode is scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode and the adjusted SAR is $\leq 1.2 \text{ W/kg}$, SAR measurement is not required for the secondary mode
7. Per KDB 941225 D05, SAR test reduction is applied using the following criteria:
 - a. Start with the largest channel bandwidth and measure SAR for QPSK with 1 RB, and 50% RB allocation, using the RB offset and required test channel combination with the highest maximum output power among RB offsets at the upper edge, middle and lower edge of each required test channel.
 - b. When the reported SAR is $> 0.8 \text{ W/kg}$, testing for other Channels is performed at the highest output power level for 1RB, and 50% RB configuration for that channel.
 - c. Testing for 100% RB configuration is performed at the highest output power level for 100% RB configuration across the Low, Mid and High Channel when the highest reported SAR for 1 RB and 50% RB are $> 0.8 \text{ W/kg}$. Testing for the remaining required channels is not needed because the reported SAR for 100% RB Allocation $< 1.45 \text{ W/kg}$.
 - d. Testing for 16-QAM modulation is not required because the reported SAR for QPSK is $< 1.45 \text{ W/Kg}$ and its output power is not more than 0.5 dB higher than that of QPSK.
 - e. Testing for the other channel bandwidths is not required because the reported SAR for the highest channel bandwidth is $< 1.45 \text{ W/Kg}$ and its output power is not more than 0.5 dB higher than that of the highest channel bandwidth.
8. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When the reported SAR of the highest measured maximum output power channel for the exposure configuration is $\leq 0.8 \text{ W/kg}$, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
 - b. When the reported SAR is $> 0.8 \text{ W/kg}$, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is $> 1.2 \text{ W/kg}$, SAR is required for the third channel.
9. Per KDB 248227 D01 SAR is not required for the following 2.4 GHz OFDM conditions.
 - a. When KDB Publication 447498 D01 SAR test exclusion applies to the OFDM configuration.
 - b. When the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is $\leq 1.2 \text{ W/kg}$.

9.2 10g Extremity Exposure Consider

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.

Conclusion:

The EUT hotspot mode 1-g reported SAR is 1.166 W/Kg, which is less than 1.2W/Kg, 10-g extremity SAR is not required.

10 TEST RESULTS

10.1 CDMA BC0

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power(dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|--|-------------|---------------|-----|----------------|-----------------------|-------------------------------|-------------------------|-------------------------------|-------------------|-----------------------------|--------------|
| Head | | | | | | | | | | | |
| RC3 SO55 | Left Cheek | 0 | 384 | 836.52 | 0.07 | 0.454 | 23.94 | 24.30 | 1.09 | 0.493 | / |
| | Left Tilt | 0 | 384 | 836.52 | 1.24 | 0.226 | 23.94 | 24.30 | 1.09 | 0.246 | / |
| | Right Cheek | 0 | 384 | 836.52 | -0.32 | 0.462 | 23.94 | 24.30 | 1.09 | 0.502 | 1# |
| | Right Tilt | 0 | 384 | 836.52 | 0.56 | 0.230 | 23.94 | 24.30 | 1.09 | 0.250 | / |
| Body-worn Accessory | | | | | | | | | | | |
| RC3 SO32 | Front Side | 15 | 384 | 836.52 | 0.56 | 0.460 | 23.93 | 24.50 | 1.14 | 0.525 | / |
| | Back Side | 15 | 384 | 836.52 | -0.61 | 0.492 | 23.93 | 24.50 | 1.14 | 0.561 | 2# |
| Hotspot | | | | | | | | | | | |
| RC3 SO32 | Front Side | 10 | 384 | 836.52 | 0.44 | 0.436 | 23.93 | 24.50 | 1.14 | 0.497 | / |
| | Back Side | 10 | 384 | 836.52 | 0.73 | 0.489 | 23.93 | 24.50 | 1.14 | 0.558 | / |
| | Left Edge | 10 | 384 | 836.52 | 1.19 | 0.479 | 23.93 | 24.50 | 1.14 | 0.546 | / |
| | Right Edge | 10 | 384 | 836.52 | -0.63 | 0.390 | 23.93 | 24.50 | 1.14 | 0.445 | / |
| | Bottom Edge | 10 | 384 | 836.52 | 2.47 | 0.242 | 23.93 | 24.50 | 1.14 | 0.276 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode | | | | | | | | | | | |

10.2 CDMA BC1

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power(dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|------|----------------|-----------------------|-------------------------------|-------------------------|-------------------------------|-------------------|-----------------------------|--------------|
| Head | | | | | | | | | | | |
| RC3 SO55 | Left Cheek | 0 | 25 | 1851.25 | 1.44 | 0.319 | 23.49 | 23.80 | 1.07 | 0.343 | / |
| | Left Tilt | 0 | 25 | 1851.25 | -0.32 | 0.113 | 23.49 | 23.80 | 1.07 | 0.121 | / |
| | Right Cheek | 0 | 25 | 1851.25 | 4.29 | 0.365 | 23.49 | 23.80 | 1.07 | 0.392 | 3# |
| | Right Tilt | 0 | 25 | 1851.25 | 3.12 | 0.129 | 23.49 | 23.80 | 1.07 | 0.139 | / |
| Body-worn Accessory | | | | | | | | | | | |
| RC3 SO32 | Front Side | 15 | 1175 | 1908.75 | -1.49 | 0.701 | 23.43 | 23.50 | 1.02 | 0.712 | / |
| | Back Side | 15 | 1175 | 1908.75 | -0.92 | 0.741 | 23.43 | 23.50 | 1.02 | 0.753 | / |
| Hotspot | | | | | | | | | | | |
| RC3 SO32 | Front Side | 10 | 1175 | 1908.75 | -0.20 | 0.750 | 20.32 | 20.60 | 1.07 | 0.800 | / |
| | Back Side | 10 | 1175 | 1908.75 | -1.48 | 0.827 | 20.32 | 20.60 | 1.07 | 0.882 | / |
| | | 10 | 25 | 1851.25 | -1.12 | 0.825 | 20.25 | 20.60 | 1.08 | 0.894 | / |
| | Left Edge | 10 | 1175 | 1908.75 | 0.85 | 0.321 | 20.32 | 20.60 | 1.07 | 0.342 | / |
| | Right Edge | 10 | 1175 | 1908.75 | 0.44 | 0.216 | 20.32 | 20.60 | 1.07 | 0.230 | / |
| | Bottom Edge | 10 | 1175 | 1908.75 | -4.20 | 0.684 | 20.32 | 20.60 | 1.07 | 0.730 | / |
| Note: For this band, the EUT support Power Reduction under Hotspot mode. | | | | | | | | | | | |

10.3 CDMA BC10

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power(dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|--|-------------|---------------|-----|----------------|-----------------------|-------------------------------|-------------------------|-------------------------------|-------------------|-----------------------------|--------------|
| Head | | | | | | | | | | | |
| RC3 SO55 | Left Cheek | 0 | 560 | 820.00 | 2.97 | 0.473 | 23.94 | 24.50 | 1.14 | 0.538 | / |
| | Left Tilt | 0 | 560 | 820.00 | 4.11 | 0.235 | 23.94 | 24.50 | 1.14 | 0.267 | / |
| | Right Cheek | 0 | 560 | 820.00 | -0.06 | 0.524 | 23.94 | 24.50 | 1.14 | 0.595 | 5# |
| | Right Tilt | 0 | 560 | 820.00 | -3.02 | 0.261 | 23.94 | 24.50 | 1.14 | 0.297 | / |
| Body-worn Accessory | | | | | | | | | | | |
| RC3 SO32 | Front Side | 15 | 560 | 820.00 | 0.00 | 0.533 | 24.30 | 24.80 | 1.12 | 0.598 | / |
| | Back Side | 15 | 560 | 820.00 | -0.27 | 0.554 | 24.30 | 24.80 | 1.12 | 0.622 | / |
| Hotspot | | | | | | | | | | | |
| RC3 SO32 | Front Side | 10 | 560 | 820.00 | -0.95 | 0.496 | 24.30 | 24.80 | 1.12 | 0.557 | / |
| | Back Side | 10 | 560 | 820.00 | 0.55 | 0.589 | 24.30 | 24.80 | 1.12 | 0.661 | 6# |
| | Left Edge | 10 | 560 | 820.00 | 1.35 | 0.524 | 24.30 | 24.80 | 1.12 | 0.588 | / |
| | Right Edge | 10 | 560 | 820.00 | -0.59 | 0.451 | 24.30 | 24.80 | 1.12 | 0.506 | / |
| | Bottom Edge | 10 | 560 | 820.00 | -0.99 | 0.291 | 24.30 | 24.80 | 1.12 | 0.327 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode | | | | | | | | | | | |

10.4LTE Band 2 (20MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Numb. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|----------------------------|-------------|---------------|-------|----------------|-------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 18700 | 1860 | 1 | Low | -1.44 | 0.333 | 23.67 | 24.00 | 1.08 | 0.359 | / |
| | | | | | 50 | Low | 0.49 | 0.282 | 22.29 | 22.50 | 1.05 | 0.296 | / |
| | Left Tilt | 0 | 18700 | 1860 | 1 | Low | -4.50 | 0.135 | 23.67 | 24.00 | 1.08 | 0.146 | / |
| | | | | | 50 | Low | 2.01 | 0.114 | 22.29 | 22.50 | 1.05 | 0.120 | / |
| | Right Cheek | 0 | 18700 | 1860 | 1 | Low | 1.87 | 0.448 | 23.67 | 24.00 | 1.08 | 0.483 | 7# |
| | | | | | 50 | Low | -2.41 | 0.379 | 22.29 | 22.50 | 1.05 | 0.398 | / |
| | Right Tilt | 0 | 18700 | 1860 | 1 | Low | -2.12 | 0.158 | 23.67 | 24.00 | 1.08 | 0.170 | / |
| | | | | | 50 | Low | 3.88 | 0.134 | 22.29 | 22.50 | 1.05 | 0.141 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 18700 | 1860 | 1 | Low | 0.56 | 0.438 | 23.67 | 24.00 | 1.08 | 0.473 | / |
| | | | | | 50 | Low | -2.28 | 0.349 | 22.29 | 22.50 | 1.05 | 0.366 | / |
| | Back Side | 15 | 18700 | 1860 | 1 | Low | -0.60 | 0.825 | 23.67 | 24.00 | 1.08 | 0.890 | / |
| | | | 18900 | 1880 | 1 | Low | 1.88 | 0.816 | 23.37 | 24.00 | 1.16 | 0.943 | / |
| | | | 19100 | 1900 | 1 | High | -1.29 | 0.742 | 22.73 | 24.00 | 1.34 | 0.994 | / |
| | | | 18700 | 1860 | 50 | Low | -2.08 | 0.601 | 23.67 | 24.00 | 1.08 | 0.648 | / |
| | | | 18700 | 1860 | 100 | Low | -3.21 | 0.558 | 22.29 | 22.50 | 1.05 | 0.586 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 18900 | 1880 | 1 | High | -4.50 | 0.529 | 20.43 | 20.7 | 1.06 | 0.563 | / |
| | | | | | 50 | Low | -1.06 | 0.520 | 20.21 | 20.5 | 1.07 | 0.556 | / |
| | Back Side | 10 | 18900 | 1880 | 1 | High | -0.54 | 0.894 | 20.43 | 20.7 | 1.06 | 0.951 | / |
| | | | 18700 | 1860 | 1 | Low | -1.29 | 0.842 | 20.14 | 20.7 | 1.14 | 0.958 | / |
| | | | 19100 | 1900 | 1 | Low | 1.62 | 0.914 | 20.02 | 20.7 | 1.17 | 1.069 | 8# |
| | | | 18900 | 1880 | 50 | Low | -0.26 | 0.882 | 20.21 | 20.5 | 1.07 | 0.943 | / |
| | | | 18700 | 1860 | 50 | Low | -0.75 | 0.809 | 20.19 | 20.5 | 1.07 | 0.869 | / |
| | | | 19100 | 1900 | 50 | Low | -2.10 | 0.862 | 19.83 | 20.5 | 1.17 | 1.006 | / |
| | | | 18700 | 1880 | 100 | Low | -0.42 | 0.841 | 20.21 | 20.5 | 1.07 | 0.899 | / |
| | Left Edge | 10 | 18900 | 1880 | 1 | High | -1.90 | 0.293 | 20.43 | 20.7 | 1.06 | 0.312 | / |
| | | | | | 50 | Low | -3.11 | 0.286 | 20.21 | 20.5 | 1.07 | 0.306 | / |
| | Right Edge | 10 | 18900 | 1880 | 1 | Low | 0.52 | 0.197 | 20.43 | 20.7 | 1.06 | 0.210 | / |
| | | | | | 50 | Low | -1.93 | 0.190 | 20.21 | 20.5 | 1.07 | 0.203 | / |
| | Bottom Edge | 10 | 18900 | 1880 | 1 | High | 1.61 | 0.687 | 20.43 | 20.7 | 1.06 | 0.731 | / |
| | | | | | 50 | Low | 2.13 | 0.675 | 20.21 | 20.5 | 1.07 | 0.722 | / |

Note: For this band, the EUT support **Power Reduction** under Hotspot mode.

10.5LTE Band 4 (20MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|----------------------------|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 20175 | 1732.5 | 1 | Mid | -2.47 | 0.348 | 23.33 | 23.60 | 1.06 | 0.370 | / |
| | | | | | 50 | High | 3.00 | 0.311 | 22.14 | 22.50 | 1.09 | 0.338 | / |
| | Left Tilt | 0 | 20175 | 1732.5 | 1 | Mid | -1.06 | 0.186 | 23.33 | 23.60 | 1.06 | 0.198 | / |
| | | | | | 50 | High | 1.02 | 0.156 | 22.14 | 22.50 | 1.09 | 0.169 | / |
| | Right Cheek | 0 | 20175 | 1732.5 | 1 | Mid | -4.02 | 0.498 | 23.33 | 23.60 | 1.06 | 0.530 | 9# |
| | | | | | 50 | High | 2.77 | 0.445 | 22.14 | 22.50 | 1.09 | 0.483 | / |
| | Right Tilt | 0 | 20175 | 1732.5 | 1 | Mid | -3.11 | 0.248 | 23.33 | 23.60 | 1.06 | 0.264 | / |
| | | | | | 50 | High | 1.78 | 0.221 | 22.14 | 22.50 | 1.09 | 0.240 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 20175 | 1732.5 | 1 | Mid | -2.81 | 0.563 | 23.33 | 23.60 | 1.06 | 0.599 | / |
| | | | | | 50 | High | 0.52 | 0.301 | 22.14 | 22.50 | 1.09 | 0.327 | / |
| | Back Side | 15 | 20175 | 1732.5 | 1 | Mid | -1.22 | 0.845 | 23.33 | 23.60 | 1.06 | 0.899 | / |
| | | | 20050 | 1720 | 1 | High | -1.93 | 0.833 | 23.28 | 23.6 | 1.08 | 0.897 | / |
| | | | 20300 | 1745 | 1 | Low | -0.79 | 0.812 | 23.00 | 23.6 | 1.15 | 0.932 | / |
| | | | 20175 | 1732.5 | 50 | High | -0.85 | 0.661 | 22.14 | 23.6 | 1.40 | 0.925 | / |
| | | | 20050 | 1720 | 100 | Low | 0.48 | 0.536 | 22.05 | 22.5 | 1.11 | 0.595 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 20050 | 1720 | 1 | Low | -0.84 | 0.541 | 21.44 | 21.70 | 1.06 | 0.574 | / |
| | | | 20175 | 1732.5 | 50 | Mid | 2.44 | 0.473 | 21.25 | 21.50 | 1.06 | 0.501 | / |
| | Back Side | 10 | 20050 | 1720 | 1 | Low | -1.88 | 0.923 | 21.44 | 21.80 | 1.09 | 1.003 | 10# |
| | | | 20175 | 1732.5 | 1 | Low | -0.76 | 0.867 | 21.25 | 21.70 | 1.11 | 0.962 | / |
| | | | 20300 | 1745 | 1 | Low | -1.04 | 0.860 | 21.24 | 21.70 | 1.11 | 0.956 | / |
| | | | 20175 | 1732.5 | 50 | Mid | -1.34 | 0.807 | 21.25 | 21.50 | 1.06 | 0.855 | / |
| | | | 20050 | 1720 | 50 | Low | -1.43 | 0.835 | 21.18 | 21.50 | 1.08 | 0.899 | / |
| | | | 20300 | 1745 | 50 | Low | -0.99 | 0.804 | 21.10 | 21.50 | 1.10 | 0.882 | / |
| | | | 21750 | 1732.5 | 100 | Low | 0.04 | 0.784 | 21.19 | 21.50 | 1.07 | 0.842 | / |
| | Left Edge | 10 | 20050 | 1720 | 1 | Low | -2.02 | 0.312 | 21.44 | 21.70 | 1.06 | 0.331 | / |
| | | | 20175 | 1732.5 | 50 | Mid | 3.42 | 0.273 | 21.25 | 21.50 | 1.06 | 0.289 | / |
| | Right Edge | 10 | 20050 | 1720 | 1 | Low | 2.63 | 0.209 | 21.44 | 21.70 | 1.06 | 0.222 | / |
| | | | 20175 | 1732.5 | 50 | Mid | -1.18 | 0.183 | 21.25 | 21.50 | 1.06 | 0.194 | / |
| | Bottom Edge | 10 | 20050 | 1720 | 1 | Low | 2.54 | 0.507 | 21.44 | 21.70 | 1.06 | 0.538 | / |
| | | | 20175 | 1732.5 | 50 | Mid | -2.00 | 0.439 | 21.25 | 21.50 | 1.06 | 0.465 | / |

Note: For this band, the EUT support **Power Reduction** under Hotspot mode.

10.6LTE Band 5 (10MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 20600 | 844 | 1 | Mid | -1.88 | 0.360 | 23.31 | 23.50 | 1.04 | 0.376 | / |
| | | | 20525 | 836.5 | 25 | Low | -1.34 | 0.301 | 22.17 | 22.50 | 1.08 | 0.327 | / |
| | Left Tilt | 0 | 20600 | 844 | 1 | Mid | -2.02 | 0.162 | 23.31 | 23.50 | 1.04 | 0.169 | / |
| | | | 20525 | 836.5 | 25 | Low | -1.18 | 0.141 | 22.17 | 22.50 | 1.08 | 0.153 | / |
| | Right Cheek | 0 | 20600 | 844 | 1 | Mid | -2.06 | 0.401 | 23.31 | 23.50 | 1.04 | 0.419 | 11# |
| | | | 20525 | 836.5 | 25 | Low | 1.58 | 0.352 | 22.17 | 22.50 | 1.08 | 0.379 | / |
| | Right Tilt | 0 | 20600 | 844 | 1 | Mid | -0.07 | 0.200 | 23.31 | 23.50 | 1.04 | 0.209 | / |
| | | | 20525 | 836.5 | 25 | Low | 0.03 | 0.176 | 22.17 | 22.50 | 1.08 | 0.191 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 20600 | 844 | 1 | Mid | -1.54 | 0.363 | 23.31 | 23.50 | 1.04 | 0.379 | / |
| | | | 20525 | 836.5 | 25 | Low | -1.27 | 0.299 | 22.17 | 22.50 | 1.07 | 0.322 | / |
| | Back Side | 15 | 20600 | 844 | 1 | Mid | -1.43 | 0.392 | 23.31 | 23.50 | 1.04 | 0.410 | / |
| | | | 20525 | 836.5 | 25 | Low | -0.78 | 0.326 | 22.17 | 22.50 | 1.07 | 0.351 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 20600 | 844 | 1 | Mid | -1.50 | 0.411 | 23.31 | 23.50 | 1.04 | 0.429 | / |
| | | | 20525 | 836.5 | 25 | Low | 2.21 | 0.361 | 22.17 | 22.50 | 1.08 | 0.389 | / |
| | Back Side | 10 | 20600 | 844 | 1 | Mid | -0.09 | 0.446 | 23.31 | 23.50 | 1.04 | 0.466 | 12# |
| | | | 20525 | 836.5 | 25 | Low | 1.44 | 0.392 | 22.17 | 22.50 | 1.08 | 0.422 | / |
| | Left Edge | 10 | 20600 | 844 | 1 | Mid | 3.21 | 0.305 | 23.31 | 23.50 | 1.04 | 0.319 | / |
| | | | 20525 | 836.5 | 25 | Low | 2.63 | 0.255 | 22.17 | 22.50 | 1.08 | 0.275 | / |
| | Right Edge | 10 | 20600 | 844 | 1 | Mid | -1.34 | 0.262 | 23.31 | 23.50 | 1.04 | 0.274 | / |
| | | | 20525 | 836.5 | 25 | Low | 3.42 | 0.209 | 22.17 | 22.50 | 1.08 | 0.225 | / |
| | Bottom Edge | 10 | 20600 | 844 | 1 | Mid | 2.54 | 0.141 | 23.31 | 23.50 | 1.04 | 0.147 | / |
| | | | 20525 | 836.5 | 25 | Low | 1.58 | 0.117 | 22.17 | 22.50 | 1.08 | 0.127 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.7LTE Band 12 (10MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 23130 | 711 | 1 | High | 0.73 | 0.240 | 22.91 | 23.30 | 1.09 | 0.263 | / |
| | | | 23130 | 711 | 25 | Low | -0.63 | 0.196 | 21.78 | 22.10 | 1.08 | 0.211 | / |
| | Left Tilt | 0 | 23130 | 711 | 1 | High | -1.98 | 0.128 | 22.91 | 23.30 | 1.09 | 0.140 | / |
| | | | 23130 | 711 | 25 | Low | 4.29 | 0.104 | 21.78 | 22.10 | 1.08 | 0.112 | / |
| | Right Cheek | 0 | 23130 | 711 | 1 | High | 2.24 | 0.251 | 22.91 | 23.30 | 1.09 | 0.275 | 13# |
| | | | 23130 | 711 | 25 | Low | 1.54 | 0.205 | 21.78 | 22.10 | 1.08 | 0.221 | / |
| | Right Tilt | 0 | 23130 | 711 | 1 | High | -2.02 | 0.135 | 22.91 | 23.30 | 1.09 | 0.148 | / |
| | | | 23130 | 711 | 25 | Low | -1.34 | 0.110 | 21.78 | 22.10 | 1.08 | 0.118 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 23130 | 711 | 1 | High | 0.17 | 0.303 | 22.91 | 23.30 | 1.09 | 0.331 | / |
| | | | 23130 | 711 | 25 | Low | -0.46 | 0.234 | 21.78 | 22.10 | 1.08 | 0.252 | / |
| | Back Side | 15 | 23130 | 711 | 1 | High | -2.21 | 0.472 | 22.91 | 23.30 | 1.09 | 0.516 | / |
| | | | 23130 | 711 | 25 | Low | 0.58 | 0.365 | 21.78 | 22.10 | 1.08 | 0.393 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 23130 | 711 | 1 | High | 0.71 | 0.344 | 22.91 | 23.30 | 1.09 | 0.376 | / |
| | | | 23130 | 711 | 25 | Low | 1.70 | 0.256 | 21.78 | 22.10 | 1.08 | 0.276 | / |
| | Back Side | 10 | 23130 | 711 | 1 | High | -1.02 | 0.536 | 22.91 | 23.30 | 1.09 | 0.586 | 14# |
| | | | 23130 | 711 | 25 | Low | 0.28 | 0.414 | 21.78 | 22.10 | 1.08 | 0.446 | / |
| | Left Edge | 10 | 23130 | 711 | 1 | High | 1.72 | 0.382 | 22.91 | 23.30 | 1.09 | 0.418 | / |
| | | | 23130 | 711 | 25 | Low | -1.32 | 0.307 | 21.78 | 22.10 | 1.08 | 0.330 | / |
| | Right Edge | 10 | 23130 | 711 | 1 | High | 0.44 | 0.236 | 22.91 | 23.30 | 1.09 | 0.258 | / |
| | | | 23130 | 711 | 25 | Low | -0.04 | 0.189 | 21.78 | 22.10 | 1.08 | 0.203 | / |
| | Bottom Edge | 10 | 23130 | 711 | 1 | High | -0.87 | 0.102 | 22.91 | 23.30 | 1.09 | 0.112 | / |
| | | | 23130 | 711 | 25 | Low | 0.63 | 0.083 | 21.78 | 22.10 | 1.08 | 0.089 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.8LTE Band 13 (10MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 23230 | 782 | 1 | Mid | 0.10 | 0.451 | 22.57 | 23.00 | 1.10 | 0.498 | / |
| | | | 23230 | 782 | 25 | Low | -0.79 | 0.368 | 21.84 | 22.10 | 1.06 | 0.391 | / |
| | Left Tilt | 0 | 23230 | 782 | 1 | Mid | 1.44 | 0.240 | 22.57 | 23.00 | 1.10 | 0.265 | / |
| | | | 23230 | 782 | 25 | Low | 1.54 | 0.196 | 21.84 | 22.10 | 1.06 | 0.208 | / |
| | Right Cheek | 0 | 23230 | 782 | 1 | Mid | -0.05 | 0.457 | 22.57 | 23.00 | 1.10 | 0.505 | 15# |
| | | | 23230 | 782 | 25 | Low | -2.14 | 0.373 | 21.84 | 22.10 | 1.06 | 0.396 | / |
| | Right Tilt | 0 | 23230 | 782 | 1 | Mid | 0.03 | 0.245 | 22.57 | 23.00 | 1.10 | 0.270 | / |
| | | | 23230 | 782 | 25 | Low | 2.01 | 0.200 | 21.84 | 22.10 | 1.06 | 0.212 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 23230 | 782 | 1 | Mid | 1.35 | 0.452 | 22.57 | 23.00 | 1.10 | 0.499 | / |
| | | | 23230 | 782 | 25 | Low | -0.87 | 0.362 | 21.84 | 22.10 | 1.06 | 0.384 | / |
| | Back Side | 15 | 23230 | 782 | 1 | Mid | -0.34 | 0.550 | 22.57 | 23.00 | 1.10 | 0.607 | / |
| | | | 23230 | 782 | 25 | Low | -0.60 | 0.452 | 21.84 | 22.10 | 1.06 | 0.480 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 23230 | 782 | 1 | Mid | 1.00 | 0.524 | 22.57 | 23.00 | 1.10 | 0.579 | / |
| | | | 23230 | 782 | 25 | Low | -0.59 | 0.390 | 21.84 | 22.10 | 1.06 | 0.414 | / |
| | Back Side | 10 | 23230 | 782 | 1 | Mid | 1.43 | 0.647 | 22.57 | 23.00 | 1.10 | 0.714 | 16# |
| | | | 23230 | 782 | 25 | Low | 0.60 | 0.540 | 21.84 | 22.10 | 1.06 | 0.573 | / |
| | Left Edge | 10 | 23230 | 782 | 1 | Mid | 0.17 | 0.499 | 22.57 | 23.00 | 1.10 | 0.551 | / |
| | | | 23230 | 782 | 25 | Low | -0.99 | 0.401 | 21.84 | 22.10 | 1.06 | 0.426 | / |
| | Right Edge | 10 | 23230 | 782 | 1 | Mid | -0.69 | 0.389 | 22.57 | 23.00 | 1.10 | 0.429 | / |
| | | | 23230 | 782 | 25 | Low | -0.61 | 0.312 | 21.84 | 22.10 | 1.06 | 0.331 | / |
| | Bottom Edge | 10 | 23230 | 782 | 1 | Mid | 3.25 | 0.231 | 22.57 | 23.00 | 1.10 | 0.255 | / |
| | | | 23230 | 782 | 25 | Low | -1.35 | 0.189 | 21.84 | 22.10 | 1.06 | 0.201 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.9LTE Band 25 (20MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 26365 | 1882.5 | 1 | Low | -3.52 | 0.311 | 23.47 | 23.80 | 1.08 | 0.336 | / |
| | | | 26140 | 1860 | 50 | Low | 1.23 | 0.264 | 22.38 | 22.70 | 1.08 | 0.284 | / |
| | Left Tilt | 0 | 26365 | 1882.5 | 1 | Low | -3.92 | 0.137 | 23.47 | 23.80 | 1.08 | 0.148 | / |
| | | | 26140 | 1860 | 50 | Low | 1.02 | 0.116 | 22.38 | 22.70 | 1.08 | 0.125 | / |
| | Right Cheek | 0 | 26365 | 1882.5 | 1 | Low | 2.08 | 0.439 | 23.47 | 23.80 | 1.08 | 0.474 | 17# |
| | | | 26140 | 1860 | 50 | Low | -5.06 | 0.373 | 22.38 | 22.70 | 1.08 | 0.402 | / |
| | Right Tilt | 0 | 26365 | 1882.5 | 1 | Low | -1.91 | 0.172 | 23.47 | 23.80 | 1.08 | 0.186 | / |
| | | | 26140 | 1860 | 50 | Low | -2.67 | 0.126 | 22.38 | 22.70 | 1.08 | 0.136 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 26365 | 1882.5 | 1 | Low | -0.06 | 0.456 | 23.47 | 23.80 | 1.08 | 0.492 | / |
| | | | 26140 | 1860 | 50 | Low | -1.17 | 0.351 | 22.38 | 22.70 | 1.08 | 0.378 | / |
| | Back Side | 15 | 26365 | 1882.5 | 1 | Low | -1.32 | 0.808 | 23.47 | 23.80 | 1.08 | 0.872 | / |
| | | | 26140 | 1860 | 1 | Low | -1.99 | 0.774 | 23.47 | 23.80 | 1.08 | 0.835 | / |
| | | | 26590 | 1905 | 1 | Low | 0.85 | 0.761 | 23.22 | 23.80 | 1.14 | 0.870 | / |
| | | | 26140 | 1860 | 50 | Low | -1.32 | 0.605 | 22.38 | 22.70 | 1.08 | 0.651 | / |
| | | | 26140 | 1860 | 100 | Low | -0.22 | 0.639 | 22.54 | 22.80 | 1.06 | 0.678 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 26365 | 1882.5 | 1 | Mid | 0.03 | 0.580 | 20.60 | 20.90 | 1.07 | 0.621 | / |
| | | | 26140 | 1860 | 50 | Mid | 0.36 | 0.549 | 20.34 | 20.70 | 1.09 | 0.596 | / |
| | Back Side | 10 | 26365 | 1882.5 | 1 | Mid | -0.65 | 0.882 | 20.60 | 20.90 | 1.07 | 0.945 | / |
| | | | 26140 | 1860 | 1 | Mid | -0.41 | 0.903 | 20.48 | 20.90 | 1.10 | 0.995 | 18# |
| | | | 26590 | 1905 | 1 | High | -3.21 | 0.885 | 20.45 | 20.90 | 1.11 | 0.982 | / |
| | | | 26140 | 1860 | 50 | Mid | -1.29 | 0.854 | 20.34 | 20.70 | 1.09 | 0.928 | / |
| | | | 26365 | 1882.5 | 50 | Mid | 4.29 | 0.834 | 20.24 | 20.70 | 1.11 | 0.927 | / |
| | | | 26590 | 1905 | 50 | High | -1.49 | 0.851 | 20.19 | 20.70 | 1.12 | 0.957 | / |
| | Left Edge | 10 | 26140 | 1860 | 100 | Low | -0.22 | 0.816 | 20.29 | 20.60 | 1.07 | 0.876 | / |
| | | | 26365 | 1882.5 | 1 | Mid | 0.04 | 0.312 | 20.60 | 20.90 | 1.07 | 0.334 | / |
| | Right Edge | 10 | 26140 | 1860 | 50 | Mid | 2.31 | 0.295 | 20.34 | 20.70 | 1.09 | 0.320 | / |
| | | | 26365 | 1882.5 | 1 | Mid | -1.76 | 0.171 | 20.60 | 20.90 | 1.07 | 0.183 | / |
| | Bottom Edge | 10 | 26140 | 1860 | 50 | Mid | -0.40 | 0.162 | 20.34 | 20.70 | 1.09 | 0.176 | / |
| | | | 26365 | 1882.5 | 1 | Mid | 0.52 | 0.678 | 20.60 | 20.90 | 1.07 | 0.726 | / |
| | | | 26140 | 1860 | 50 | Mid | 3.20 | 0.641 | 20.34 | 20.70 | 1.09 | 0.696 | / |
| Note: For this band, the EUT support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.10 LTE Band 26 (15MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 26965 | 841.5 | 1 | Low | 0.93 | 0.374 | 23.21 | 23.50 | 1.07 | 0.400 | / |
| | | | 26965 | 841.5 | 36 | Low | 1.03 | 0.289 | 22.04 | 22.50 | 1.11 | 0.321 | / |
| | Left Tilt | 0 | 26965 | 841.5 | 1 | Low | 0.01 | 0.218 | 23.21 | 23.50 | 1.07 | 0.233 | / |
| | | | 26965 | 841.5 | 36 | Low | -0.85 | 0.169 | 22.04 | 22.50 | 1.11 | 0.188 | / |
| | Right Cheek | 0 | 26965 | 841.5 | 1 | Low | -1.02 | 0.409 | 23.21 | 23.50 | 1.07 | 0.437 | 19# |
| | | | 26965 | 841.5 | 36 | Low | 0.72 | 0.316 | 22.04 | 22.50 | 1.11 | 0.351 | / |
| | Right Tilt | 0 | 26965 | 841.5 | 1 | Low | 0.25 | 0.197 | 23.21 | 23.50 | 1.07 | 0.211 | / |
| | | | 26965 | 841.5 | 36 | Low | 1.56 | 0.152 | 22.04 | 22.50 | 1.11 | 0.169 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 26965 | 841.5 | 1 | Low | 0.09 | 0.415 | 23.21 | 23.50 | 1.07 | 0.444 | / |
| | | | 26965 | 841.5 | 36 | Low | -0.11 | 0.321 | 22.04 | 22.50 | 1.11 | 0.357 | / |
| | Back Side | 15 | 26965 | 841.5 | 1 | Low | -1.00 | 0.451 | 23.21 | 23.50 | 1.07 | 0.482 | / |
| | | | 26965 | 841.5 | 36 | Low | -1.87 | 0.341 | 22.04 | 22.50 | 1.11 | 0.379 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 26965 | 841.5 | 1 | Low | -0.58 | 0.436 | 23.21 | 23.50 | 1.07 | 0.466 | / |
| | | | 26965 | 841.5 | 36 | Low | -2.99 | 0.334 | 22.04 | 22.50 | 1.11 | 0.371 | / |
| | Back Side | 10 | 26965 | 841.5 | 1 | Low | -2.43 | 0.503 | 23.21 | 23.50 | 1.07 | 0.538 | 20# |
| | | | 26965 | 841.5 | 36 | Low | -0.90 | 0.386 | 22.04 | 22.50 | 1.11 | 0.429 | / |
| | Left Edge | 10 | 26965 | 841.5 | 1 | Low | -3.10 | 0.479 | 23.21 | 23.50 | 1.07 | 0.512 | / |
| | | | 26965 | 841.5 | 36 | Low | 0.45 | 0.369 | 22.04 | 22.50 | 1.11 | 0.410 | / |
| | Right Edge | 10 | 26965 | 841.5 | 1 | Low | -0.50 | 0.326 | 23.21 | 23.50 | 1.07 | 0.349 | / |
| | | | 26965 | 841.5 | 36 | Low | 2.08 | 0.251 | 22.04 | 22.50 | 1.11 | 0.279 | / |
| | Bottom Edge | 10 | 26965 | 841.5 | 1 | Low | -2.68 | 0.198 | 23.21 | 23.50 | 1.07 | 0.212 | / |
| | | | 26965 | 841.5 | 36 | Low | -0.92 | 0.153 | 22.04 | 22.50 | 1.11 | 0.170 | / |
| Note: For this band, the EUT does not support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.11 LTE Band 41 (20MHz Bandwidth)

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | RB Num b. | RB Start | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power (dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|---|-------------|---------------|-------|----------------|-----------------|-------------|-----------------------|-------------------------------|-------------------------|-----------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| QPSK | Left Cheek | 0 | 40620 | 2593 | 1 | Low | -2.38 | 0.100 | 23.63 | 23.90 | 1.06 | 0.106 | / |
| | | | 40620 | 2593 | 50 | Low | -0.07 | 0.073 | 22.51 | 22.80 | 1.07 | 0.078 | / |
| | Left Tilt | 0 | 40620 | 2593 | 1 | Low | -0.84 | 0.049 | 23.63 | 23.90 | 1.06 | 0.052 | / |
| | | | 40620 | 2593 | 50 | Low | 2.51 | 0.036 | 22.51 | 22.80 | 1.07 | 0.038 | / |
| | Right Cheek | 0 | 40620 | 2593 | 1 | Low | -2.99 | 0.220 | 23.63 | 23.90 | 1.06 | 0.234 | 21# |
| | | | 40620 | 2593 | 50 | Low | -1.20 | 0.161 | 22.51 | 22.80 | 1.07 | 0.172 | / |
| | Right Tilt | 0 | 40620 | 2593 | 1 | Low | -2.39 | 0.040 | 23.63 | 23.90 | 1.06 | 0.043 | / |
| | | | 40620 | 2593 | 50 | Low | 1.78 | 0.029 | 22.51 | 22.80 | 1.07 | 0.031 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| QPSK | Front Side | 15 | 40620 | 2593 | 1 | Low | -1.10 | 0.317 | 23.63 | 23.90 | 1.06 | 0.337 | / |
| | | | 40620 | 2593 | 50 | Low | 2.01 | 0.245 | 22.51 | 22.80 | 1.07 | 0.262 | / |
| | Back Side | 15 | 40620 | 2593 | 1 | Low | -0.50 | 0.789 | 23.63 | 23.90 | 1.06 | 0.840 | / |
| | | | 39750 | 2506 | 1 | Mid | -0.35 | 0.631 | 22.95 | 23.90 | 1.24 | 0.785 | / |
| | | | 40185 | 2549.5 | 1 | Low | -1.80 | 0.665 | 23.06 | 23.90 | 1.21 | 0.807 | / |
| | | | 41055 | 2636.5 | 1 | Low | -2.21 | 0.948 | 23.37 | 23.90 | 1.13 | 1.071 | / |
| | | | 41490 | 2680 | 1 | Low | -0.94 | 0.952 | 23.02 | 23.90 | 1.22 | 1.166 | 22# |
| | | | 40620 | 2593 | 50 | Low | 0.17 | 0.591 | 22.51 | 22.80 | 1.07 | 0.632 | / |
| | | | 40620 | 2593 | 100 | Low | 0.69 | 0.578 | 22.42 | 22.80 | 1.09 | 0.631 | / |
| Hotspot | | | | | | | | | | | | | |
| QPSK | Front Side | 10 | 40620 | 2593 | 1 | Low | -1.24 | 0.261 | 19.20 | 19.50 | 1.07 | 0.280 | / |
| | | | 40620 | 2593 | 50 | Low | -0.92 | 0.251 | 18.94 | 19.20 | 1.06 | 0.266 | / |
| | Back Side | 10 | 40620 | 2593 | 1 | Low | -3.13 | 0.617 | 19.20 | 19.50 | 1.07 | 0.661 | / |
| | | | 40620 | 2593 | 50 | Low | -4.42 | 0.594 | 18.94 | 19.20 | 1.06 | 0.631 | / |
| | Left Edge | 10 | 40620 | 2593 | 1 | Low | 1.60 | 0.108 | 19.20 | 19.50 | 1.07 | 0.116 | / |
| | | | 40620 | 2593 | 50 | Low | -1.35 | 0.102 | 18.94 | 19.20 | 1.06 | 0.108 | / |
| | Right Edge | 10 | 40620 | 2593 | 1 | Low | 4.29 | 0.043 | 19.20 | 19.50 | 1.07 | 0.046 | / |
| | | | 40620 | 2593 | 50 | Low | -0.20 | 0.040 | 18.94 | 19.20 | 1.06 | 0.042 | / |
| | Bottom Edge | 10 | 40620 | 2593 | 1 | Low | 0.42 | 0.506 | 19.20 | 19.50 | 1.07 | 0.542 | / |
| | | | 40620 | 2593 | 50 | Low | -1.16 | 0.487 | 18.94 | 19.20 | 1.06 | 0.517 | / |
| Note: For this band, the EUT support Power Reduction under Hotspot mode. | | | | | | | | | | | | | |

10.12 WIFI 2.4GHz

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Duty Cycle (%) | Duty Cycle Factor | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power(dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|----------------------------|----------------|---------------|-----|----------------|----------------------|-------------------------|-----------------------|-------------------------------|-------------------------|-------------------------------|-------------------|--------------------------------|--------------|
| Head | | | | | | | | | | | | | |
| 802.11 b | Left Cheek | 0 | 11 | 2462 | 97.43 | 1.03 | -0.92 | 0.260 | 16.77 | 17.00 | 1.05 | 0.281 | / |
| | Left Tilt | 0 | 11 | 2462 | 97.43 | 1.03 | -2.51 | 0.234 | 16.77 | 17.00 | 1.05 | 0.253 | / |
| | Right Cheek | 0 | 11 | 2462 | 97.43 | 1.03 | 0.33 | 0.392 | 16.77 | 17.00 | 1.05 | 0.424 | 23# |
| | Right Tilt | 0 | 11 | 2462 | 97.43 | 1.03 | -1.18 | 0.235 | 16.77 | 17.00 | 1.05 | 0.254 | / |
| Body-worn Accessory | | | | | | | | | | | | | |
| 802.11 b | Front Side | 15 | 11 | 2462 | 97.43 | 1.03 | -0.08 | 0.088 | 16.77 | 17.00 | 1.05 | 0.095 | / |
| | Back Side | 15 | 11 | 2462 | 97.43 | 1.03 | 1.25 | 0.125 | 16.77 | 17.00 | 1.05 | 0.135 | / |
| Hotspot | | | | | | | | | | | | | |
| 802.11 b | Front Side | 10 | 11 | 2462 | 97.43 | 1.03 | 0.25 | 0.179 | 16.77 | 17.00 | 1.05 | 0.194 | / |
| | Back Side | 10 | 11 | 2462 | 97.43 | 1.03 | -2.07 | 0.237 | 16.77 | 17.00 | 1.05 | 0.256 | 24# |
| | Right Edge | 10 | 11 | 2462 | 97.43 | 1.03 | -3.76 | 0.170 | 16.77 | 17.00 | 1.05 | 0.184 | / |
| | Top Edge | 10 | 11 | 2462 | 97.43 | 1.03 | -0.02 | 0.170 | 16.77 | 17.00 | 1.05 | 0.184 | / |

10.13 Bluetooth

| Mode | Position | Dist. (mm) | Ch. | Freq. (MHz) | Power Drift (%) | 1 g Meas. SAR (W/Kg) | Meas. Power (dBm) | Max. tune-up Power(dBm) | Scaling Factor | 1 g Scaled SAR (W/Kg) | Meas. No. |
|----------------------------|------------|---------------|-----|----------------|-----------------------|----------------------------|-------------------------|-------------------------------|-------------------|--------------------------------|--------------|
| Body-worn Accessory | | | | | | | | | | | |
| BR/EDR 3Mbps | Front Side | 15 | 39 | 2441 | 2.64 | 0.038 | 11.58 | 12.00 | 1.10 | 0.042 | / |
| | Back Side | 15 | 39 | 2441 | -1.03 | 0.049 | 11.58 | 12.00 | 1.10 | 0.054 | 25# |

11 SAR Measurement Variability

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

SAR repeated measurement procedure:

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

| Frequency Band (MHz) | Wireless Band | RF Exposure Conditions | Test Position | Highest Measured SAR (W/kg) | Repeated SAR (Yes/No) | Highest Measured SAR (W/kg) | Largest to Smallest SAR Ratio |
|----------------------|---------------|------------------------|---------------|-----------------------------|-----------------------|-----------------------------|-------------------------------|
| 1750 | LTE Band 4 | Hotspot | Back Side | 0.923 | Yes | 0.905 | 1.02 |
| 1900 | CDMA BC1 | Hotspot | Back Side | 0.842 | Yes | 0.813 | 1.04 |
| | LTE Band 2 | Hotspot | Back Side | 0.914 | Yes | 0.879 | 1.04 |
| | LTE Band 25 | Hotspot | Back Side | 0.903 | Yes | 0.869 | 1.04 |
| 2600 | LTE Band 41 | Body-worn | Back Side | 0.952 | Yes | 0.941 | 1.01 |

Note: The ratio of largest to smallest SAR for the original and first repeated measurements is < 1.20 , the second 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 Consider

| NO. | Mode | 2.4G WLAN & 5G WLAN & 2.4G Bluetooth | | |
|-----|------|--------------------------------------|-------------|-------------|
| | | Head | Body-worn | Hotspot |
| 1 | CDMA | + 2.4G WLAN | + 2.4G WLAN | + 2.4G WLAN |
| | | -- | + Bluetooth | -- |
| 2 | LTE | + 2.4G WLAN | + 2.4G WLAN | + 2.4G WLAN |
| | | -- | + Bluetooth | -- |

Note:

1. 3G&4G share the same antenna and can't transmit simultaneously.
2. The Bluetooth and 2.4G WLAN share the same antenna, can't transmitting together.
3. The 2.4G WLAN can transmit simultaneously with each WWAN.
4. 2.4G WLAN supports hotspot mode.

12.2 Sum SAR of Simultaneous Transmission

12.2.1 Sum Head SAR of Simultaneous Transmission

| Simultaneous Mode | Mode | Max. 1g SAR (W/kg) | 1g Sum SAR (W/kg) | SPLSR (Yes/No) |
|----------------------|-----------|--------------------|-------------------|----------------|
| CDMA + 2.4G WLAN | CDMA | 0.595 | 1.019 | No |
| | 2.4G WLAN | 0.424 | | |
| LTE QPSK + 2.4G WLAN | LTE QPSK | 0.530 | 0.954 | No |
| | 2.4G WLAN | 0.424 | | |

12.2.2 Sum Body-worn SAR of Simultaneous Transmission

| Simultaneous Mode | Mode | Max. 1g SAR (W/kg) | 1g Sum SAR (W/kg) | SPLSR (Yes/No) |
|----------------------|-----------|--------------------|-------------------|----------------|
| CDMA + Bluetooth | CDMA | 0.753 | 0.807 | No |
| | Bluetooth | 0.054 | | |
| CDMA + 2.4G WLAN | CDMA | 0.753 | 0.888 | No |
| | 2.4G WLAN | 0.135 | | |
| LTE QPSK + Bluetooth | LTE QPSK | 1.116 | 1.170 | No |
| | Bluetooth | 0.054 | | |
| LTE QPSK + 2.4G WLAN | LTE QPSK | 1.166 | 1.301 | No |
| | 2.4G WLAN | 0.135 | | |

12.2.3 Sum Hotspot mode SAR of Simultaneous Transmission

| Simultaneous Mode | Mode | Max. 1g SAR (W/kg) | 1g Sum SAR (W/kg) | SPLSR (Yes/No) |
|----------------------|-----------|--------------------|-------------------|----------------|
| CDMA + 2.4G WLAN | CDMA | 0.908 | 1.164 | No |
| | 2.4G WLAN | 0.256 | | |
| LTE QPSK + 2.4G WLAN | LTE QPSK | 1.069 | 1.325 | No |
| | 2.4G WLAN | 0.256 | | |

13 TEST EQUIPMENTS LIST

| Description | Manufacturer | Model | Serial No. | Cal. Date | Cal. Due |
|---------------------------------|--------------|-----------------|-------------------------|------------|------------|
| PC | Dell | N/A | N/A | N/A | N/A |
| 750MHz Dipole | SATIMO | SID 750 | S/N 25/13 DIP 0G750-253 | 2015/03/16 | 2018/03/15 |
| 835MHz Dipole | SATIMO | SID 835 | S/N 25/13 DIP 0G835-246 | 2015/03/16 | 2018/03/15 |
| 1800MHz Dipole | SATIMO | SID 1900 | S/N 25/13 DIP 1G800-248 | 2015/03/16 | 2018/03/15 |
| 1900MHz Dipole | SATIMO | SID 1900 | S/N 25/13 DIP 1G900-249 | 2015/03/16 | 2018/03/15 |
| 2450MHz Dipole | SATIMO | SID 2450 | S/N 25/13 DIP 2G450-251 | 2015/03/16 | 2018/03/15 |
| 2600MHz Dipole | SATIMO | SID 2600 | SN 25/13 DIP 2G600-254 | 2015/03/16 | 2018/03/15 |
| E-Field Probe | MVG | SSE2 | S/N 08/16 EPGO 295 | 2017/03/22 | 2018/03/21 |
| MultiMeter | Keithley | MultiMeter 2000 | 4024022 | 2017/06/12 | 2018/06/11 |
| Signal Generator | R&S | SMBV100A | 260592 | 2017/06/12 | 2018/06/11 |
| Power Meter | Agilent | E4419B | GB40201833 | 2016/11/25 | 2017/11/24 |
| Power Sensor | Agilent | E9300A | MY41498012 | 2016/11/25 | 2017/11/24 |
| Power Sensor | Agilent | E9300A | MY41499891 | 2016/11/25 | 2017/11/24 |
| Power Amplifier | SATIMO | 6552B | 22374 | 2017/06/12 | 2018/06/11 |
| Wireless Communication Test Set | R&S | CMU 200 | 123666 | 2016/11/08 | 2017/11/07 |
| Wireless Communication Test Set | R&S | CMW 500 | 151885 | 2017/06/12 | 2018/06/11 |
| Network Analyzer | Agilent | 5071B | MY42404001 | 2017/06/12 | 2018/06/11 |
| Thermometer | Elitech | RC-4HC | N/A | 2017/02/18 | 2018/02/17 |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 25/13 OCPG56 | N/A | N/A |
| Antenna | SATIMO | ANTA3 | SN 17/13 ZNTA45 | N/A | N/A |
| Phantom1 | SATIMO | SAM | SN 30/13 SAM103 | N/A | N/A |
| Phantom2 | SATIMO | SAM | SN 30/13 SAM104 | N/A | N/A |
| Attenuator | COM-MW | ZA-S1-31 | 1305003187 | N/A | N/A |
| Directional coupler | AA-MCS | AAMCS-UDC | 000272 | N/A | N/A |

Note: Per KDB 865664 Dipole SAR Validation Verification, BALUN LAB has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:

1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement.

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.

| Date | Liquid Type | Fre. (MHz) | Temp. (°C) | Meas. Conductivity (σ) (S/m) | Meas. Permittivity (ϵ) | Target Conductivity (σ) (S/m) | Target Permittivity (ϵ) | Conductivity Tolerance (%) | Permittivity Tolerance (%) |
|------------|-------------|------------|------------|---------------------------------------|-----------------------------------|--|------------------------------------|----------------------------|----------------------------|
| 2017.08.31 | Head | 750 | 21.0 | 0.90 | 42.42 | 0.89 | 41.90 | 1.12 | 1.24 |
| 2017.08.29 | Body | 750 | 21.1 | 0.95 | 57.15 | 0.96 | 55.73 | -1.04 | 2.55 |
| 2017.08.30 | Head | 835 | 21.3 | 0.91 | 41.54 | 0.90 | 41.50 | 1.11 | 0.10 |
| 2017.08.28 | Body | 835 | 21.5 | 0.98 | 54.18 | 0.97 | 55.20 | 1.03 | -1.85 |
| 2017.08.25 | Head | 1800 | 21.4 | 1.38 | 40.18 | 1.40 | 40.00 | -1.43 | 0.45 |
| 2017.08.21 | Body | 1800 | 21.5 | 1.48 | 52.83 | 1.52 | 53.30 | -2.63 | -0.88 |
| 2017.08.24 | Head | 1900 | 21.3 | 1.40 | 39.63 | 1.40 | 40.00 | 0.00 | -0.92 |
| 2017.08.17 | Body | 1900 | 21.2 | 1.57 | 52.42 | 1.52 | 53.30 | 3.29 | -1.65 |
| 2017.08.18 | Body | 1900 | 21.3 | 1.56 | 52.55 | 1.52 | 53.30 | 2.63 | -1.41 |
| 2017.08.23 | Head | 2450 | 21.6 | 1.81 | 38.65 | 1.80 | 39.20 | 0.56 | -1.40 |
| 2017.08.15 | Body | 2450 | 21.1 | 1.98 | 51.14 | 1.95 | 52.70 | 1.54 | -2.96 |
| 2017.08.22 | Head | 2600 | 21.4 | 2.00 | 37.68 | 1.96 | 39.00 | 2.04 | -3.38 |
| 2017.08.16 | Body | 2600 | 21.3 | 2.22 | 50.62 | 2.16 | 52.50 | 2.78 | -3.58 |

Note: The tolerance limit of Conductivity and Permittivity is $\pm 5\%$.

ANNEX B SYSTEM CHECK RESULT

Comparing to the original SAR value provided by SATIMO, the validation data should be within its specification of 10% (for 1 g).

| Date | Liquid Type | Freq. (MHz) | Power (mW) | Measured SAR (W/kg) | Normalized SAR (W/kg) | Dipole SAR (W/kg) | Tolerance (%) | Targeted SAR(W/kg) | Tolerance (%) |
|------------|-------------|-------------|------------|---------------------|-----------------------|-------------------|---------------|--------------------|---------------|
| 2017.08.31 | Head | 750 | 100 | 0.890 | 8.90 | 8.60 | 3.49 | 8.49 | 4.83 |
| 2017.08.29 | Body | 750 | 100 | 0.892 | 8.92 | 8.91 | 0.11 | 8.49 | 5.06 |
| 2017.08.30 | Head | 835 | 100 | 0.966 | 9.66 | 9.81 | -1.53 | 9.56 | 1.05 |
| 2017.08.28 | Body | 835 | 100 | 1.010 | 10.10 | 10.53 | -4.08 | 9.56 | 5.65 |
| 2017.08.25 | Head | 1800 | 100 | 4.113 | 41.13 | 38.70 | 6.28 | 38.40 | 7.11 |
| 2017.08.21 | Body | 1800 | 100 | 3.893 | 38.93 | 40.40 | -3.64 | 38.40 | 1.38 |
| 2017.08.24 | Head | 1900 | 100 | 3.758 | 37.58 | 40.75 | -7.78 | 39.70 | -5.34 |
| 2017.08.17 | Body | 1900 | 100 | 4.171 | 41.71 | 42.06 | -0.83 | 39.70 | 5.06 |
| 2017.08.18 | Body | 1900 | 100 | 4.027 | 40.27 | 42.06 | -4.26 | 39.70 | 1.44 |
| 2017.08.23 | Head | 2450 | 100 | 5.480 | 54.80 | 54.29 | 0.94 | 52.40 | 4.58 |
| 2017.08.15 | Body | 2450 | 100 | 5.297 | 52.97 | 54.70 | -3.16 | 52.40 | 1.09 |
| 2017.08.22 | Head | 2600 | 100 | 6.016 | 60.16 | 57.4 | 4.81 | 55.30 | 8.79 |
| 2017.08.16 | Body | 2600 | 100 | 5.606 | 56.06 | 57.4 | -2.33 | 55.30 | 1.37 |

Note: The tolerance limit of System validation $\pm 10\%$.

System Performance Check Data(750 MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

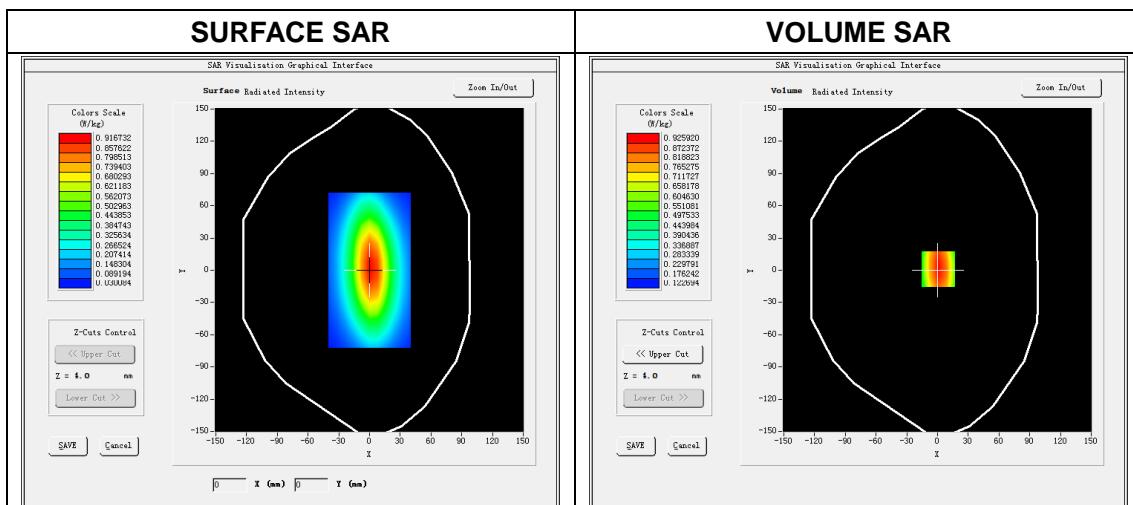
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.31

Measurement duration: 13 minutes 30 seconds

Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 750MHz |
| Signal | CW |
| Frequency (MHz) | 750MHz |
| Relative permittivity (real part) | 42.417907 |
| Conductivity (S/m) | 0.898643 |
| Power drift (%) | -0.090000 |
| Ambient Temperature: | 22.3°C |
| Liquid Temperature: | 21.0°C |
| ConvF: | 1.52 |
| Crest factor: | 1:1 |

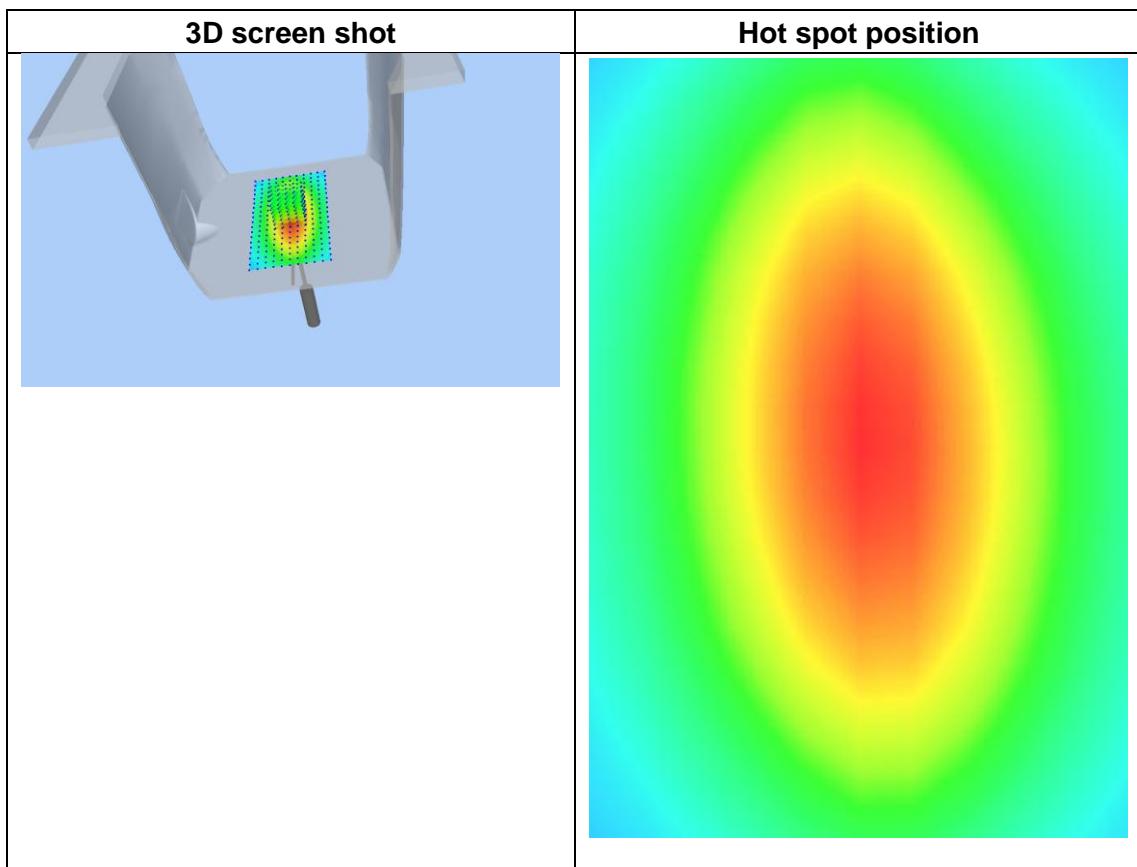
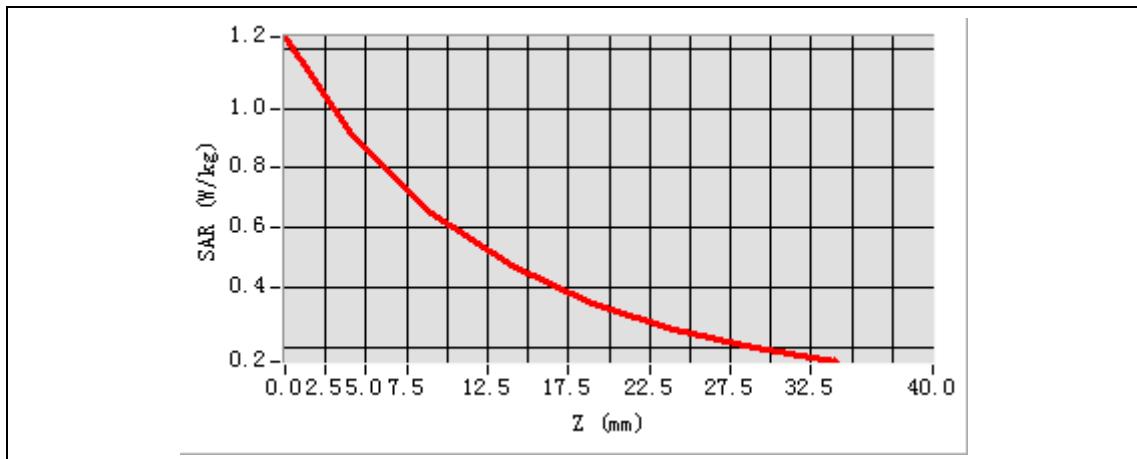


Maximum location: X=1.00, Y=1.00

SAR Peak: 1.17 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 0.599987 |
| SAR 1g (W/Kg) | 0.889823 |

Z Axis Scan



System Performance Check Data(750 MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

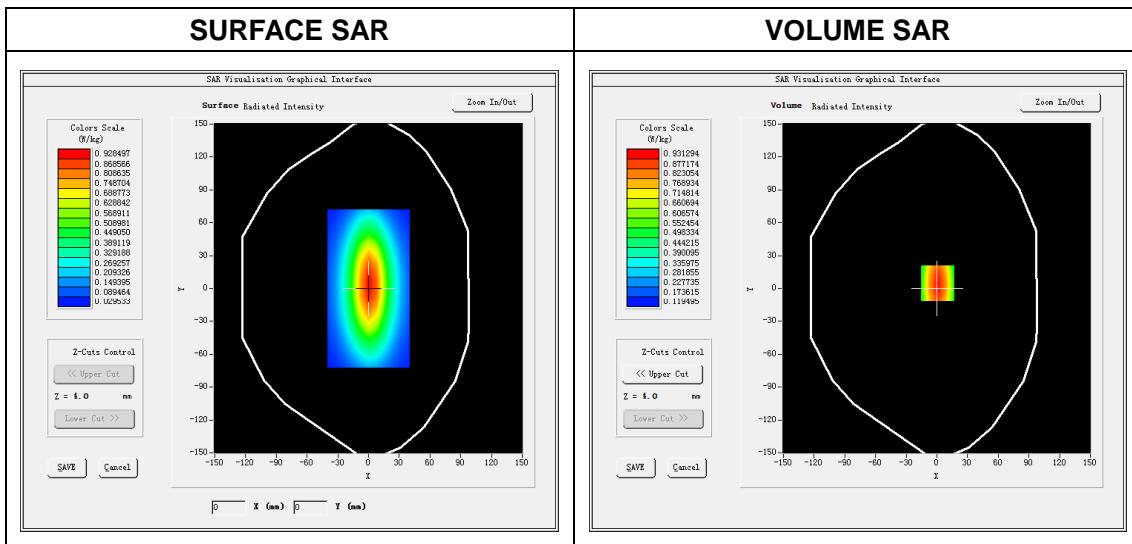
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.29

Measurement duration: 13 minutes 26 seconds

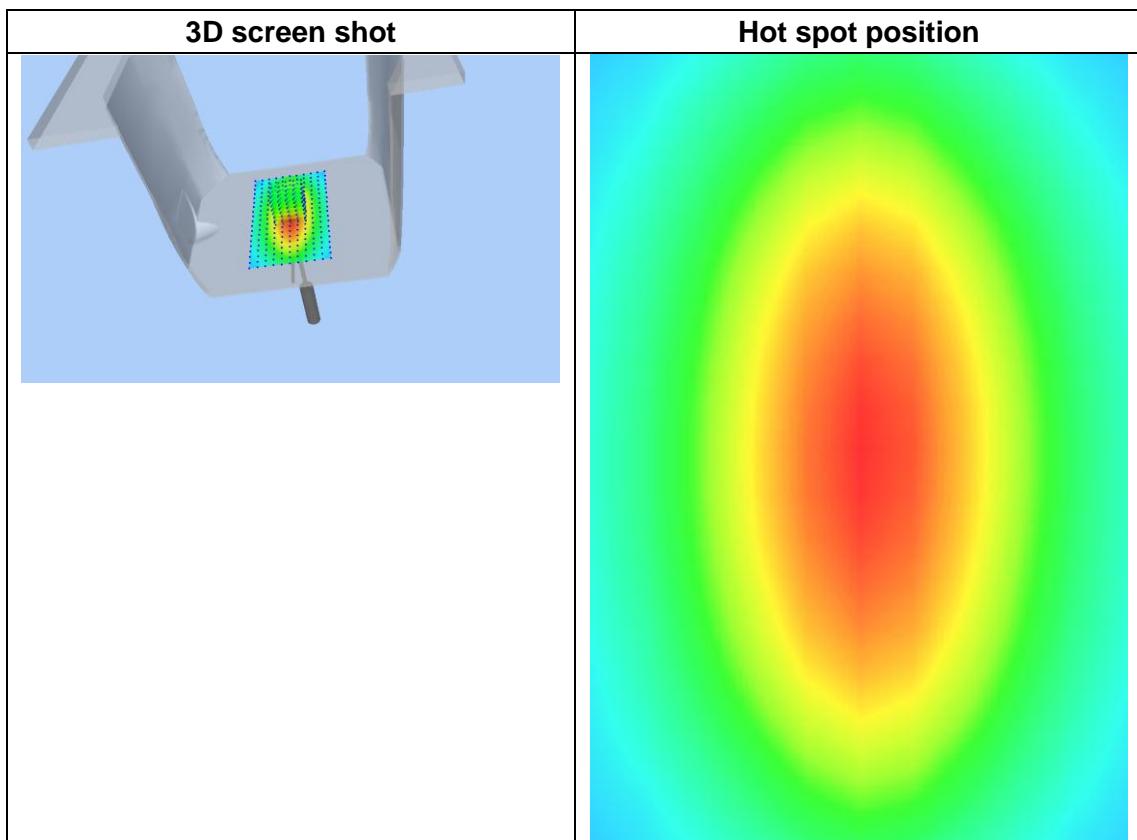
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 750MHz |
| Signal | CW |
| Frequency (MHz) | 750.000000 |
| Relative permittivity (real part) | 57.154359 |
| Conductivity (S/m) | 0.948655 |
| Power drift (%) | -0.340000 |
| Ambient Temperature: | 22.3°C |
| Liquid Temperature: | 21.1°C |
| ConvF: | 1.56 |
| Crest factor: | 1:1 |



Maximum location: X=1.00, Y=5.00
SAR Peak: 1.22 W/kg

| | |
|-----------------|----------|
| SAR 10 g (W/Kg) | 0.601543 |
| SAR 1g (W/Kg) | 0.892345 |



System Performance Check Data(835MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

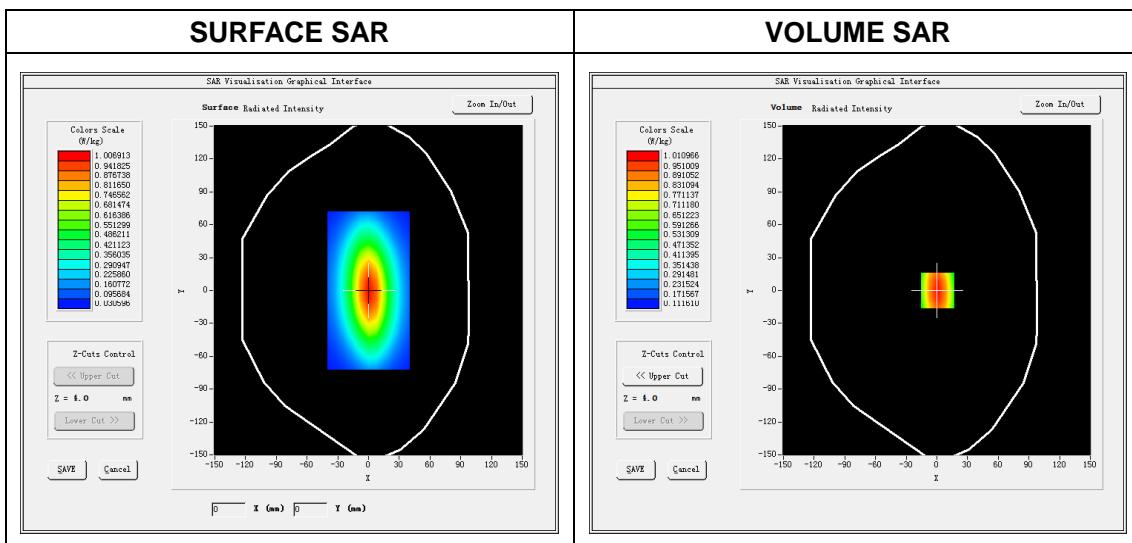
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.30

Measurement duration: 13 minutes 41 seconds

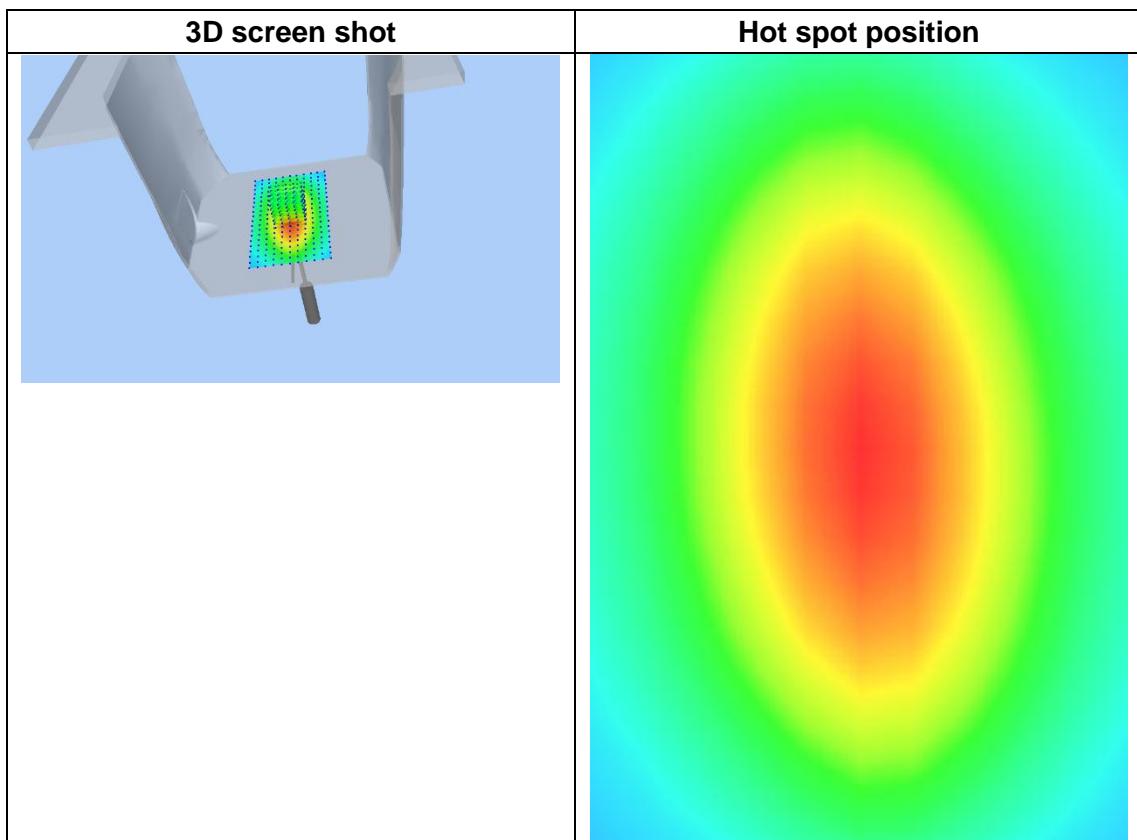
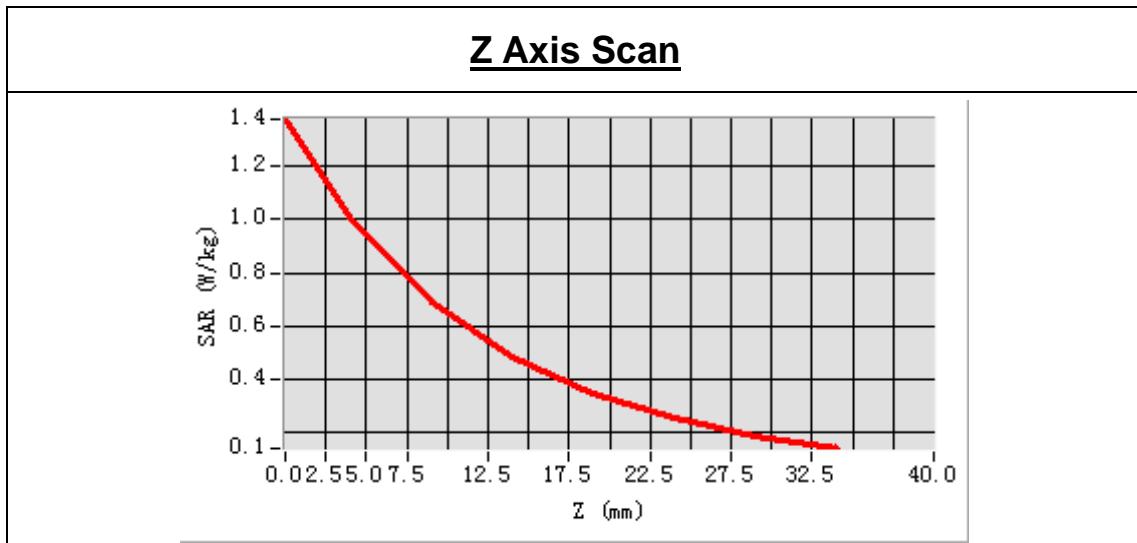
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 835MHz |
| Signal | CW |
| Frequency (MHz) | 835.000000 |
| Relative permittivity (real part) | 41.542575 |
| Conductivity (S/m) | 0.907224 |
| Power drift (%) | 0.260000 |
| Ambient Temperature: | 22.5°C |
| Liquid Temperature: | 21.3°C |
| ConvF: | 1.78 |
| Crest factor: | 1:1 |



Maximum location: X=1.00, Y=0.00
SAR Peak: 1.39 W/kg

| | |
|-----------------|----------|
| SAR 10 g (W/Kg) | 0.630954 |
| SAR 1g (W/Kg) | 0.965665 |



System Performance Check Data(835MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

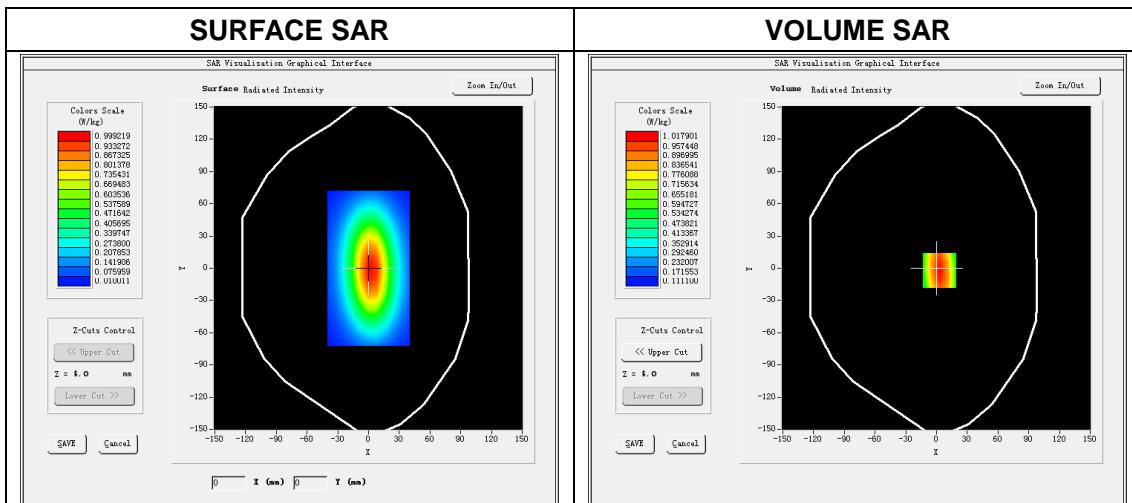
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.28

Measurement duration: 14 minutes 01 seconds

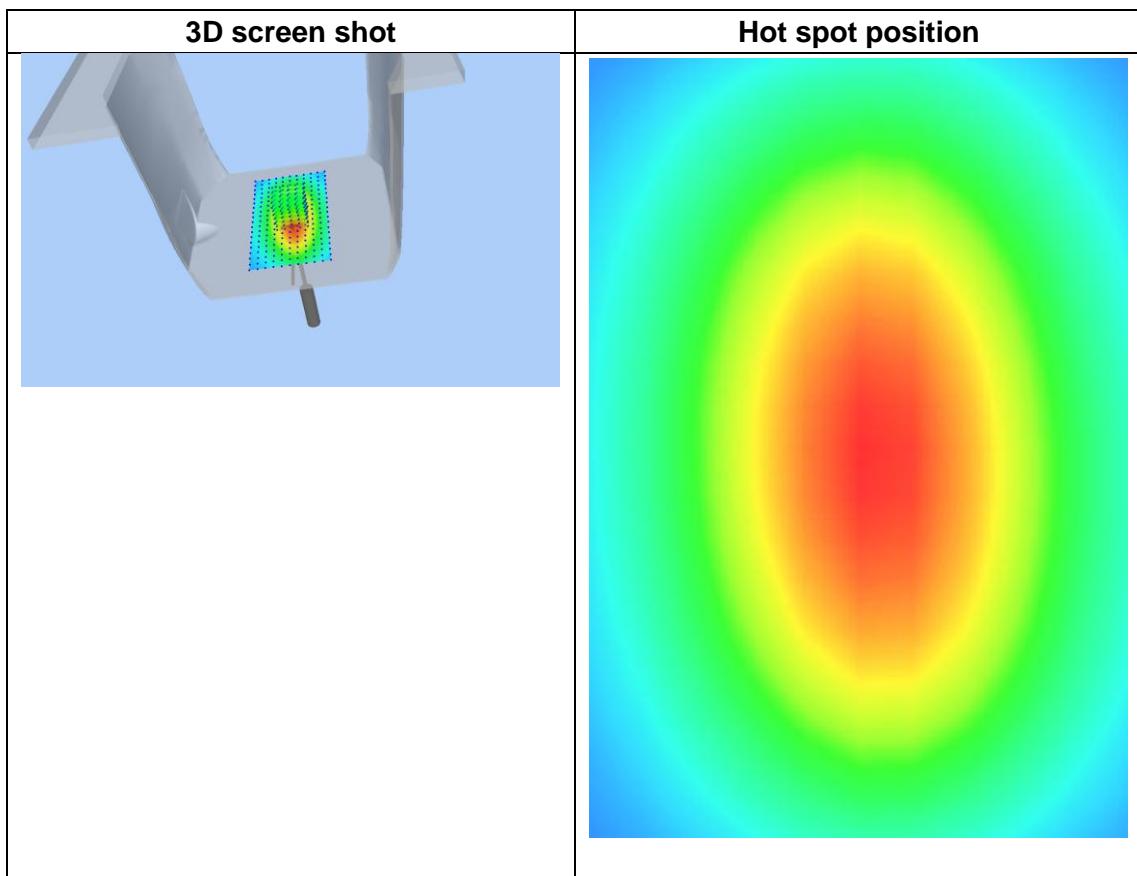
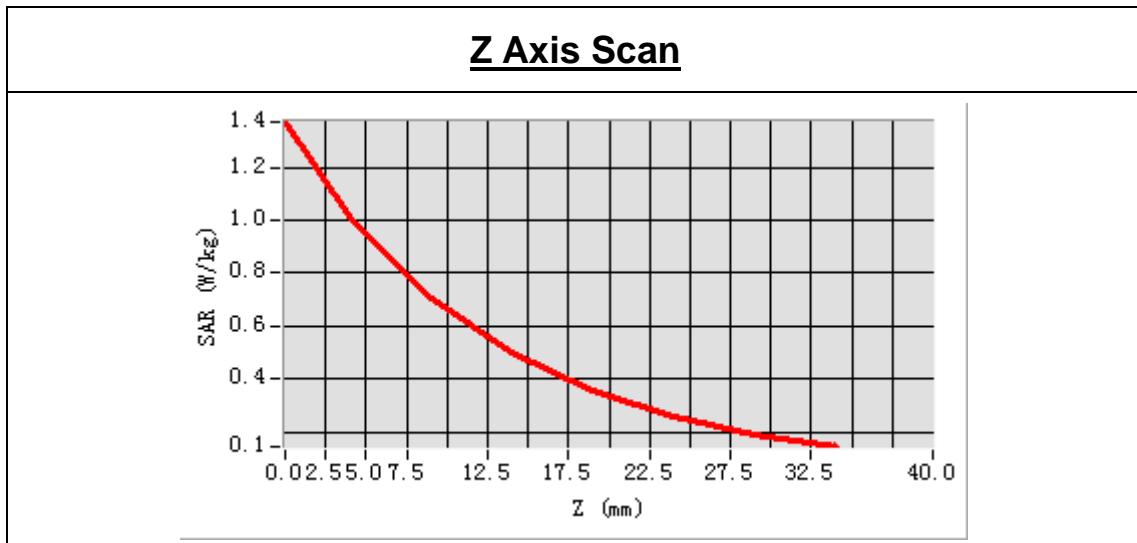
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 835MHz |
| Signal | CW |
| Frequency (MHz) | 835.000000 |
| Relative permittivity (real part) | 54.183544 |
| Conductivity (S/m) | 0.978180 |
| Power drift (%) | 0.020000 |
| Ambient Temperature: | 22.2°C |
| Liquid Temperature: | 21.5°C |
| ConvF: | 1.85 |
| Crest factor: | 1:1 |



Maximum location: X=3.00, Y=-1.00
SAR Peak: 1.38 W/kg

| | |
|-----------------|----------|
| SAR 10 g (W/Kg) | 0.656433 |
| SAR 1g (W/Kg) | 1.009653 |



System Performance Check Data(1800MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

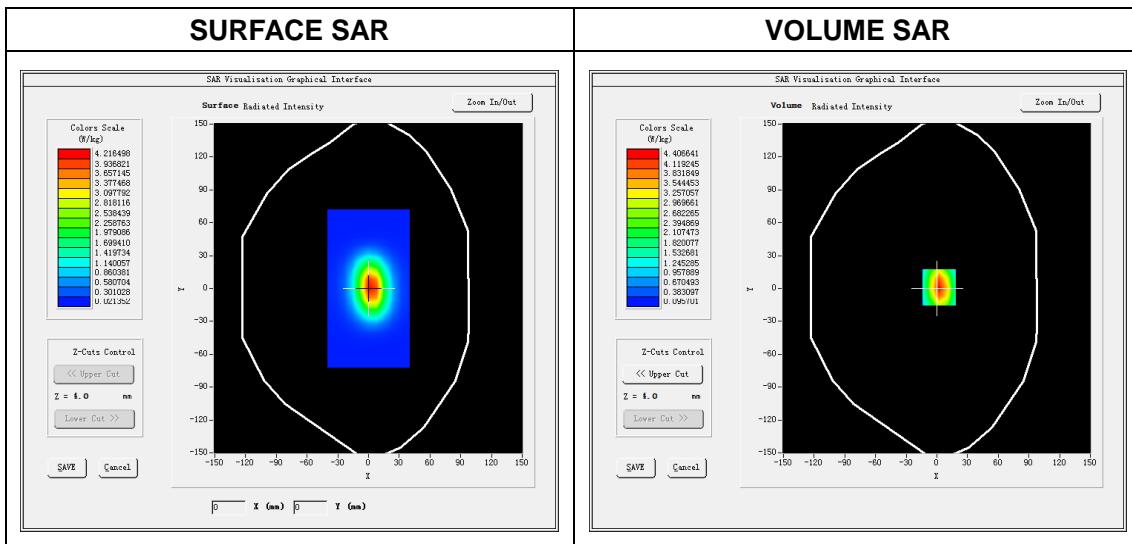
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.25

Measurement duration: 14 minutes 07 seconds

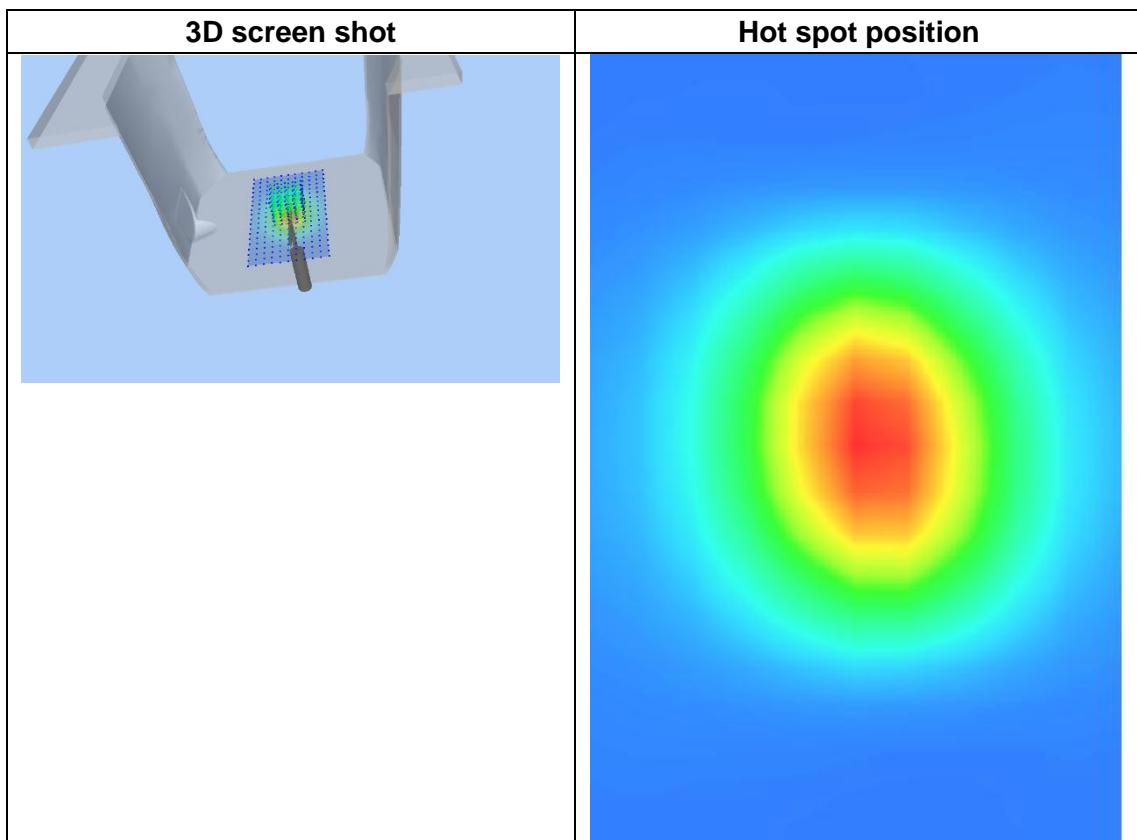
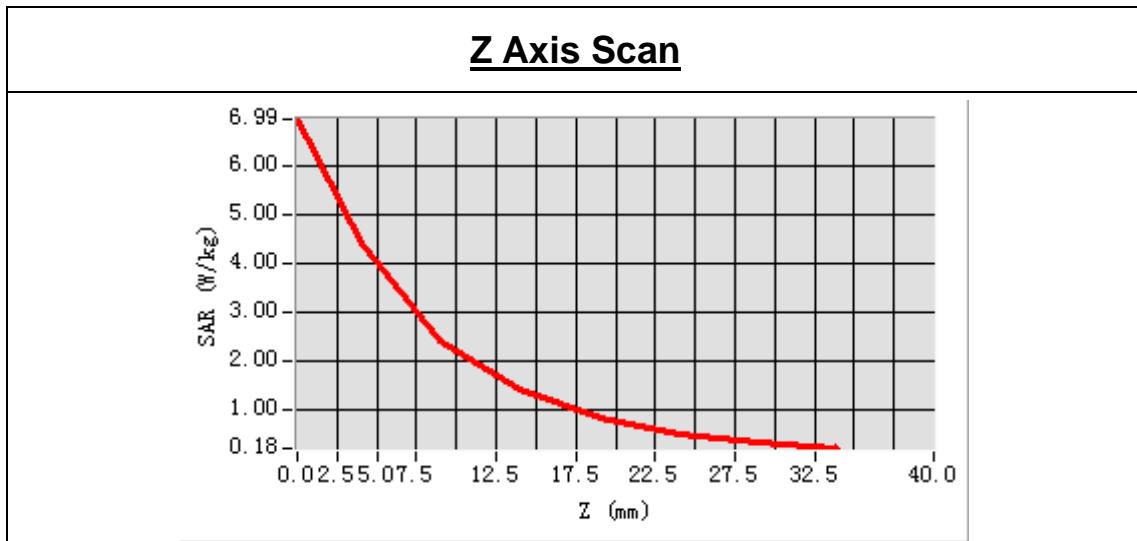
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 1800MHz |
| Signal | CW |
| Frequency (MHz) | 1800.000000 |
| Relative permittivity (real part) | 40.183500 |
| Conductivity (S/m) | 1.382640 |
| Power drift (%) | 0.190000 |
| Ambient Temperature: | 22.0°C |
| Liquid Temperature: | 21.4°C |
| ConvF: | 1.88 |
| Crest factor: | 1:1 |



Maximum location: X=2.00, Y=1.00
SAR Peak: 6.95 W/kg

| | |
|-----------------|----------|
| SAR 10 g (W/Kg) | 2.164667 |
| SAR 1g (W/Kg) | 4.113421 |



System Performance Check Data(1800MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 34/15 SSE2 EPGO265

Area scan resolution: dx=8mm,dy=8mm

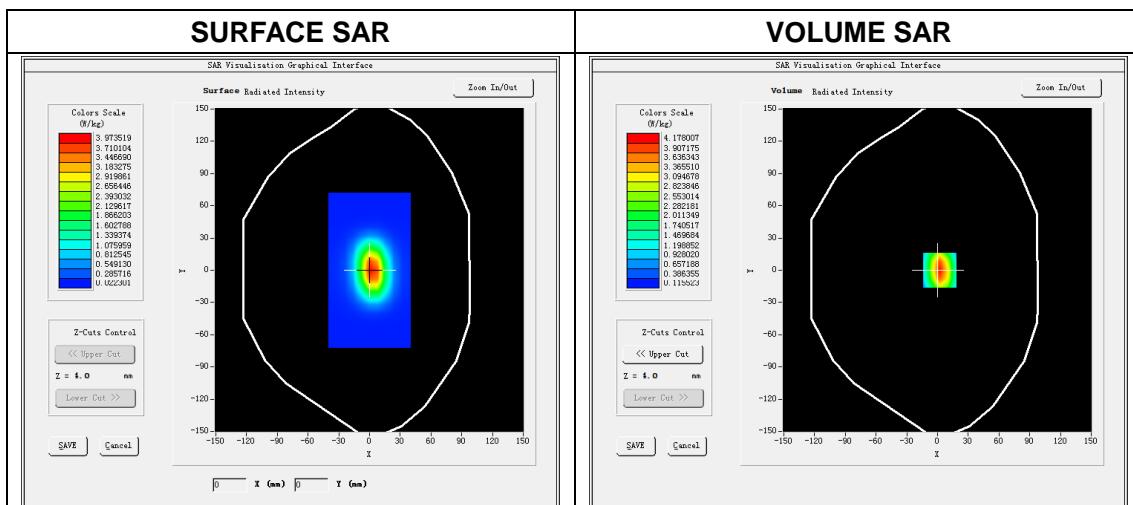
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.21

Measurement duration: 14 minutes 3 seconds

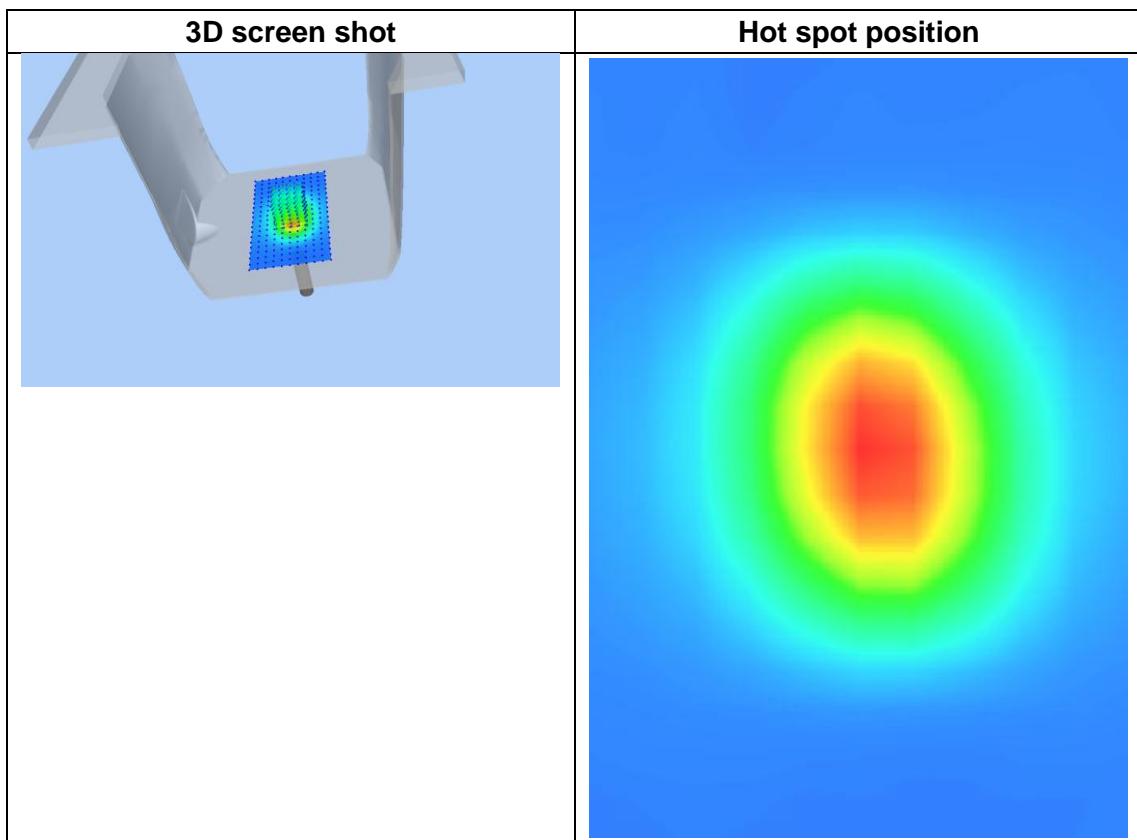
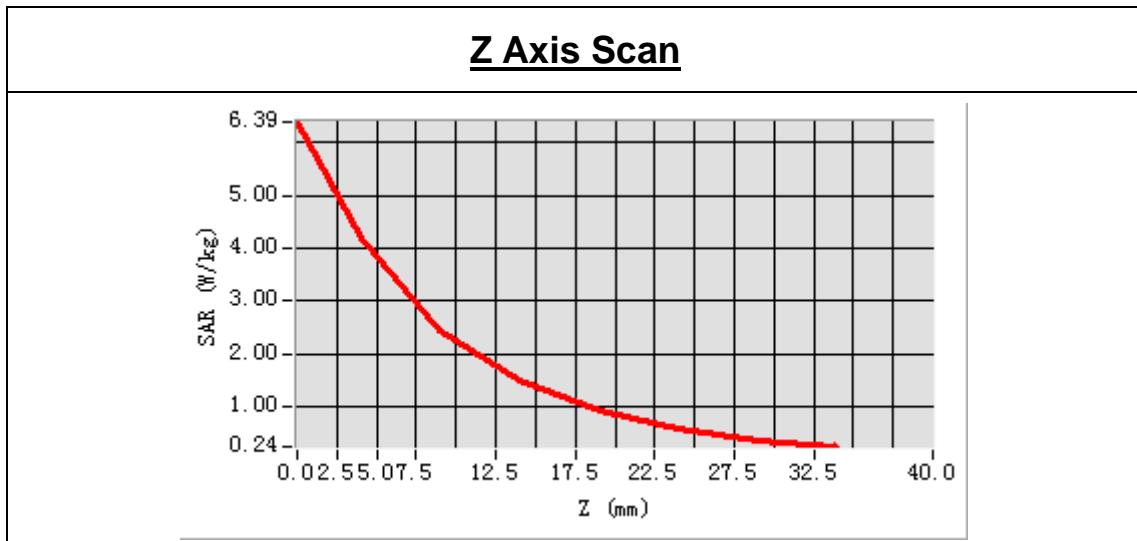
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 1800MHz |
| Signal | CW |
| Frequency (MHz) | 1800.000000 |
| Relative permittivity (real part) | 52.833715 |
| Conductivity (S/m) | 1.479481 |
| Power drift (%) | -0.140000 |
| Ambient Temperature: | 22.6°C |
| Liquid Temperature: | 21.5°C |
| ConvF: | 1.94 |
| Crest factor: | 1:1 |



Maximum location: X=2.00, Y=0.00
SAR Peak: 6.38 W/kg

| | |
|-----------------|----------|
| SAR 10 g (W/Kg) | 2.062334 |
| SAR 1g (W/Kg) | 3.892972 |



System Performance Check Data(1900MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

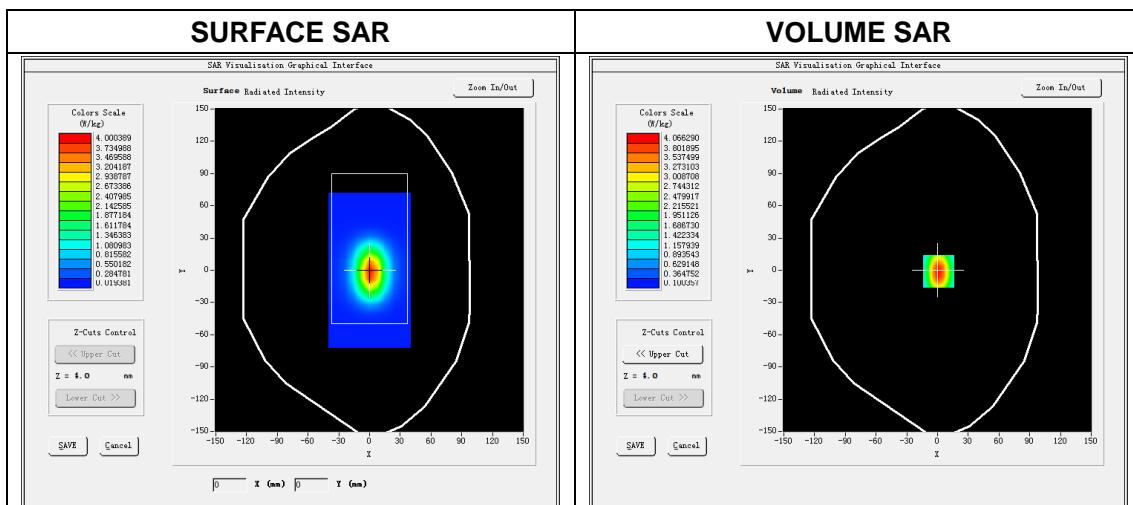
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.24

Measurement duration: 14 minutes 36 seconds

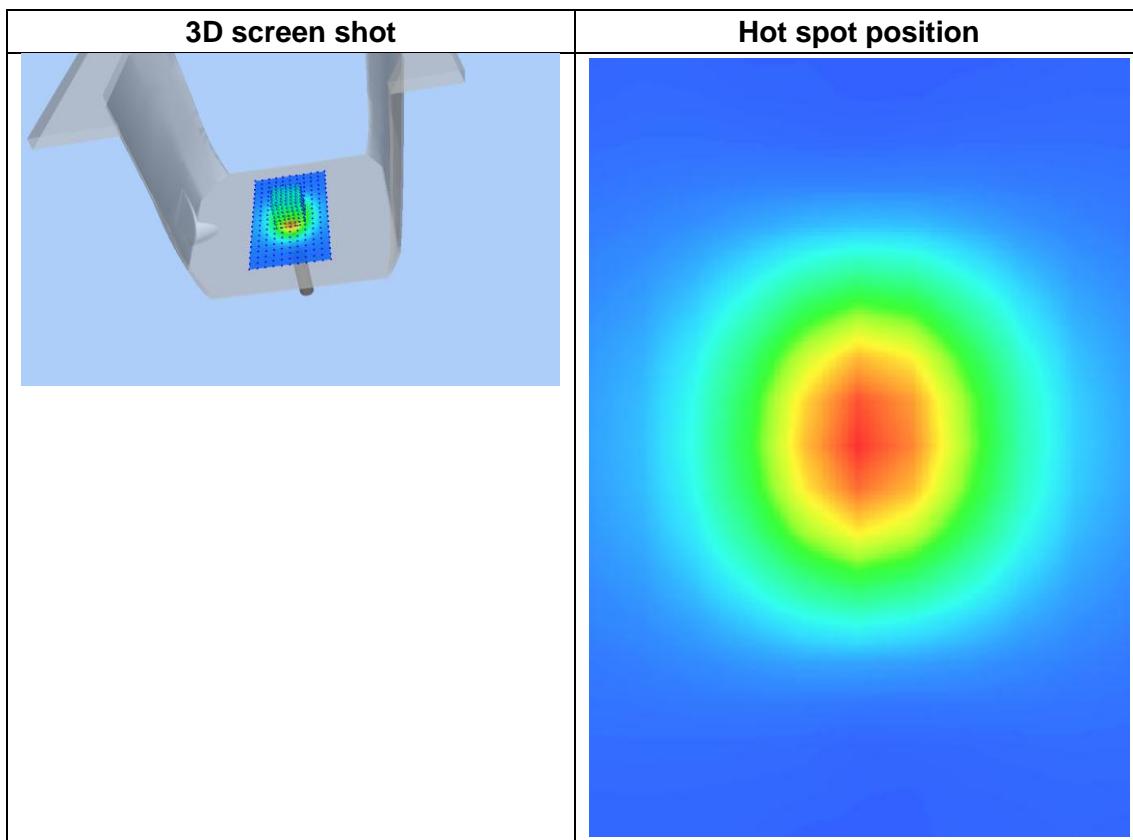
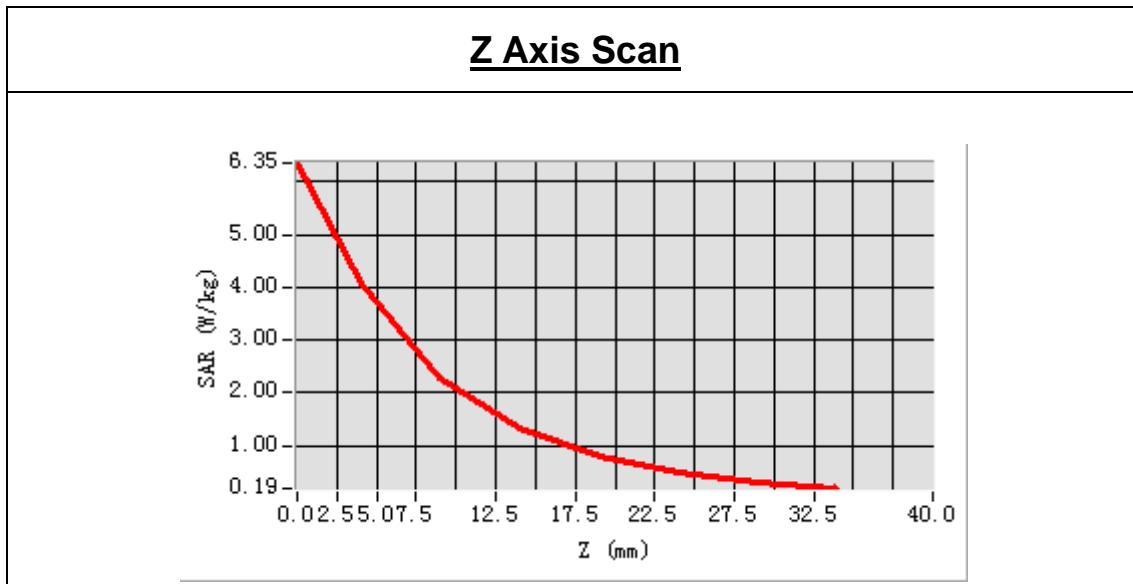
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 1900MHz |
| Signal | CW |
| Frequency (MHz) | 1900.000000 |
| Relative permittivity (real part) | 39.628600 |
| Conductivity (S/m) | 1.404825 |
| Power drift (%) | -0.740000 |
| Ambient Temperature: | 22.4°C |
| Liquid Temperature: | 21.3°C |
| ConvF: | 2.19 |
| Crest factor: | 1:1 |



Maximum location: X=-1.00, Y=-1.00
SAR Peak: 6.31W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 1.978533 |
| SAR 1g (W/Kg) | 3.758425 |



System Performance Check Data(1900MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

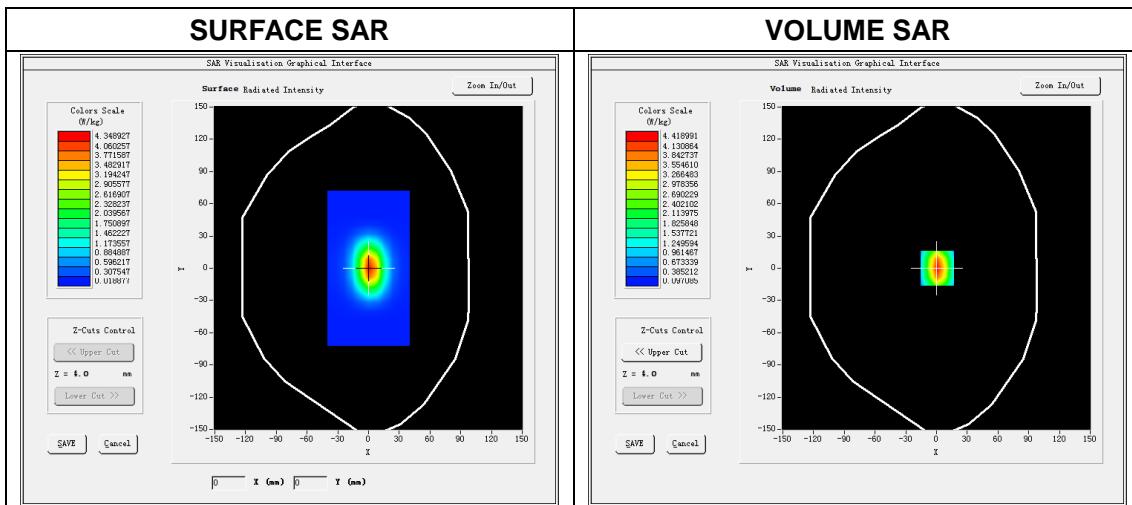
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2017.08.17

Measurement duration: 13 minutes 51 seconds

Experimental conditions.

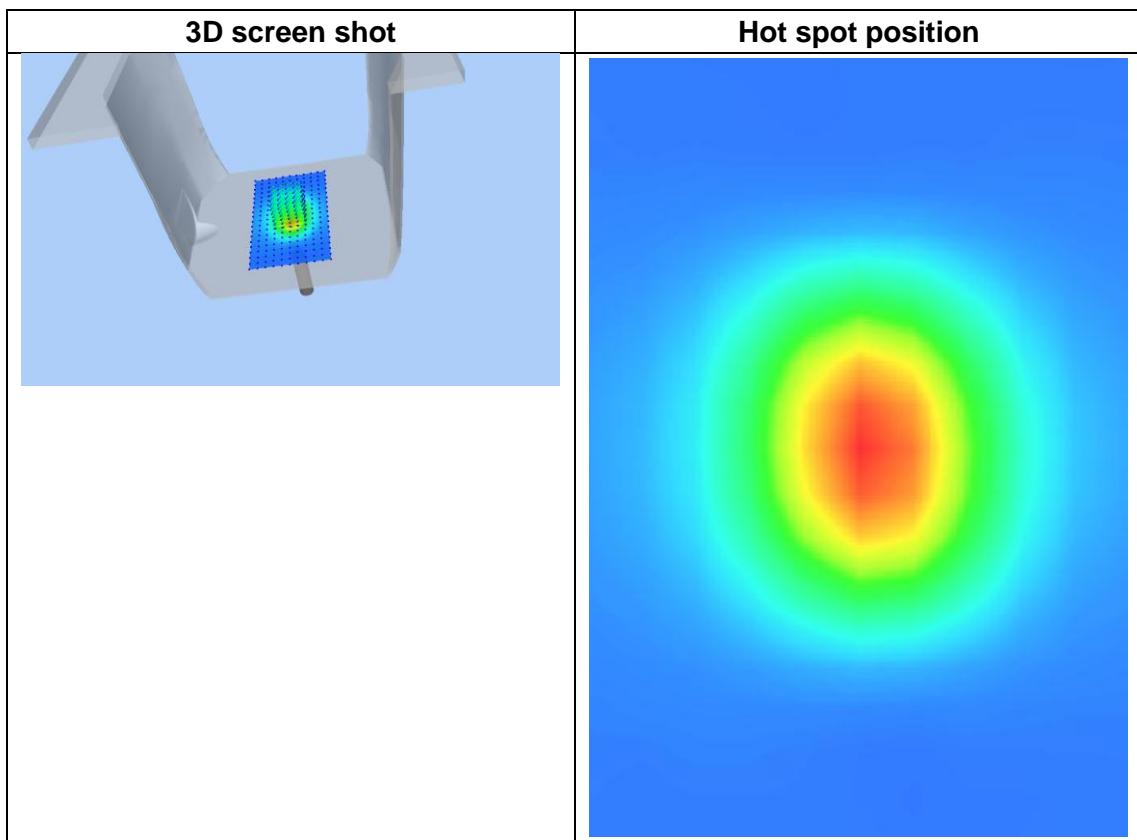
| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 1900MHz |
| Signal | CW |
| Frequency (MHz) | 1900.000000 |
| Relative permittivity (real part) | 52.422325 |
| Conductivity (S/m) | 1.572564 |
| Power drift (%) | -0.040000 |
| Ambient Temperature: | 22.1°C |
| Liquid Temperature: | 21.2°C |
| ConvF: | 2.24 |
| Crest factor: | 1:1 |



Maximum location: X=1.00, Y=0.00

SAR Peak: 6.78W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 2.138647 |
| SAR 1g (W/Kg) | 4.170632 |



System Performance Check Data(2450MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

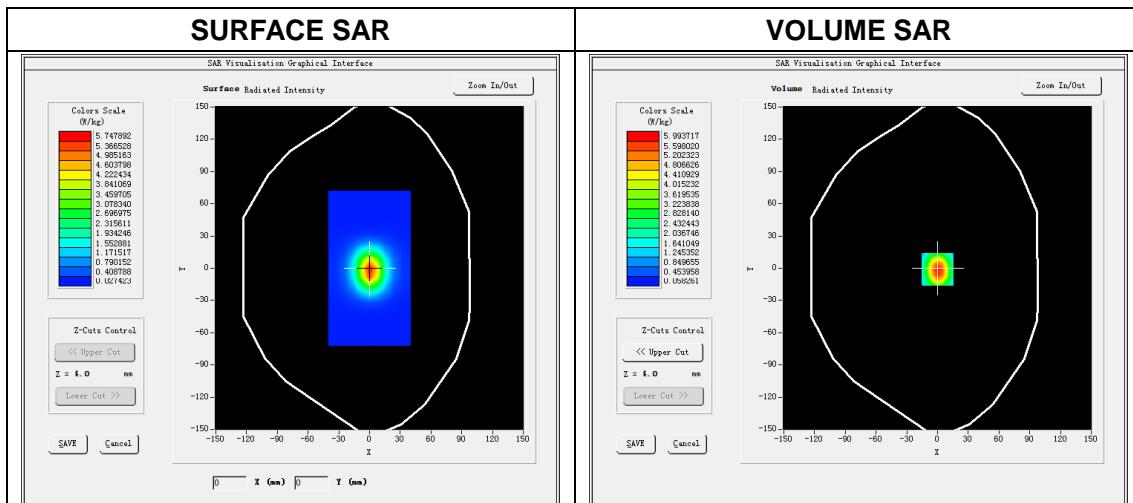
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2017.08.23

Measurement duration: 18 minutes 21 seconds

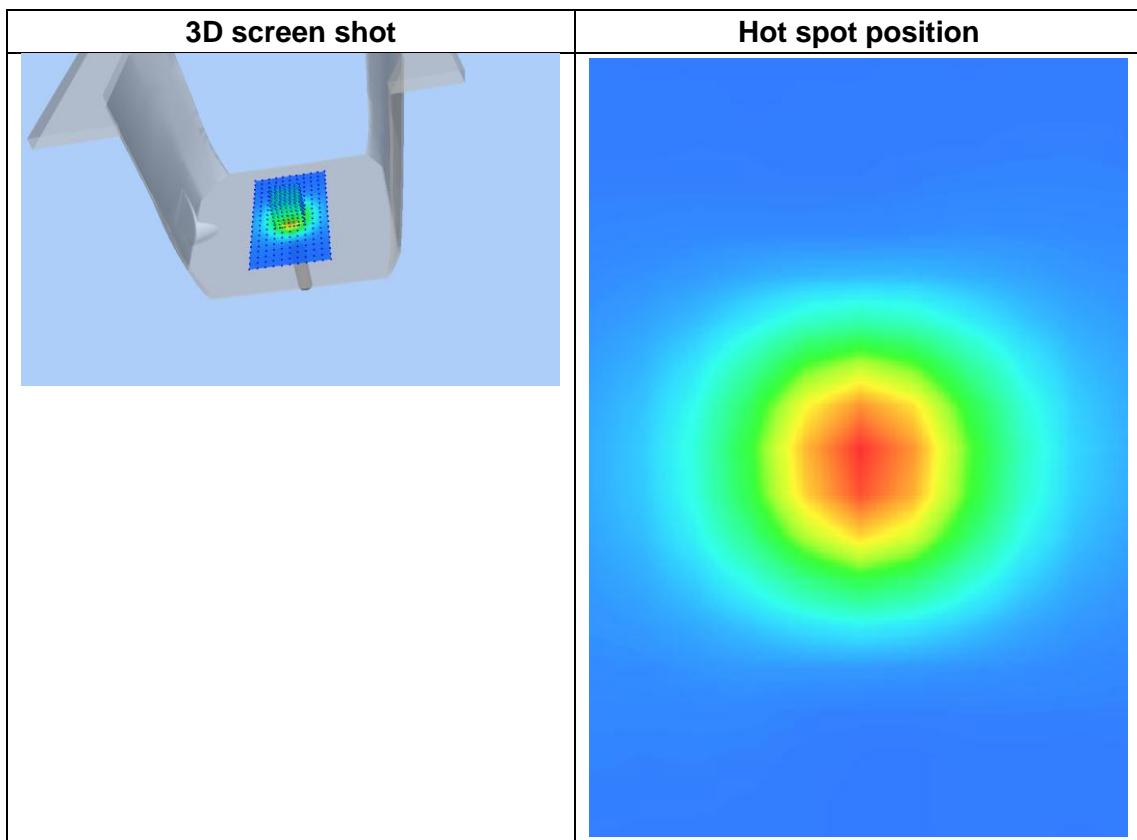
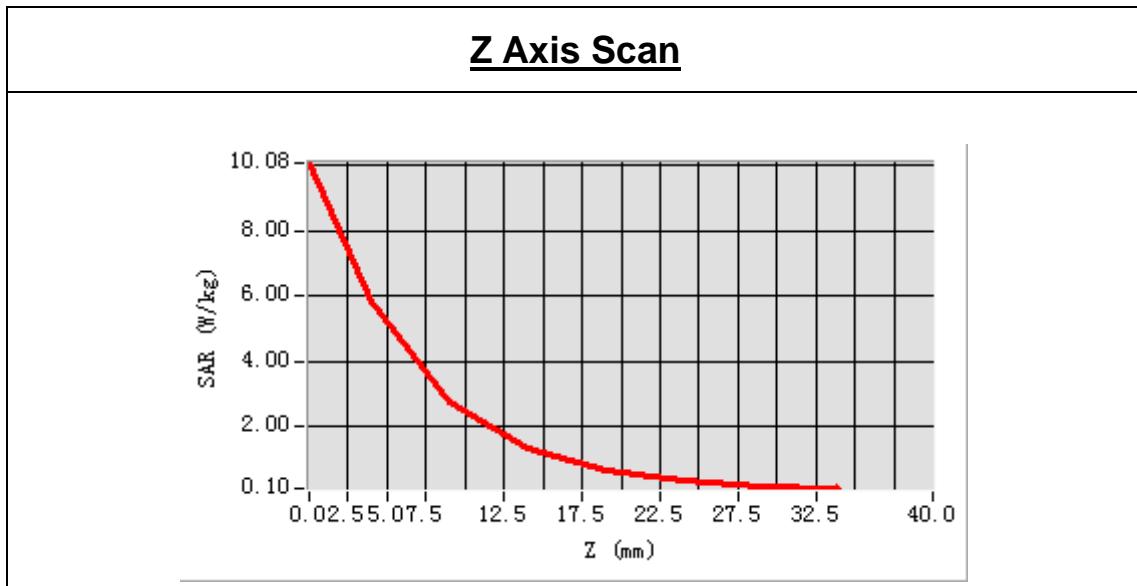
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 2450MHz |
| Signal | CW |
| Frequency (MHz) | 2450.000000 |
| Relative permittivity (real part) | 38.648700 |
| Conductivity (S/m) | 1.811790 |
| Power drift (%) | -0.450000 |
| Ambient Temperature: | 22.7°C |
| Liquid Temperature: | 21.6°C |
| ConvF: | 2.21 |
| Crest factor: | 1:1 |



Maximum location: X=0.00, Y=-1.00
SAR Peak: 10.00 W/kg

| | |
|----------------|-----------|
| SAR 10g (W/Kg) | 2.493577 |
| SAR 1g (W/Kg) | 5.4796432 |



System Performance Check Data(2450MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

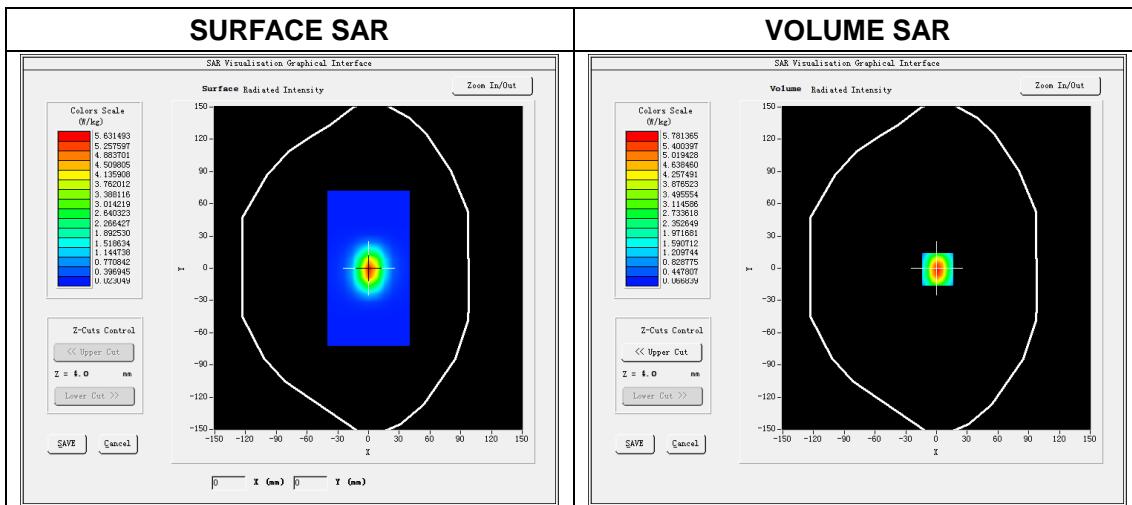
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2017.08.15

Measurement duration: 18 minutes 48 seconds

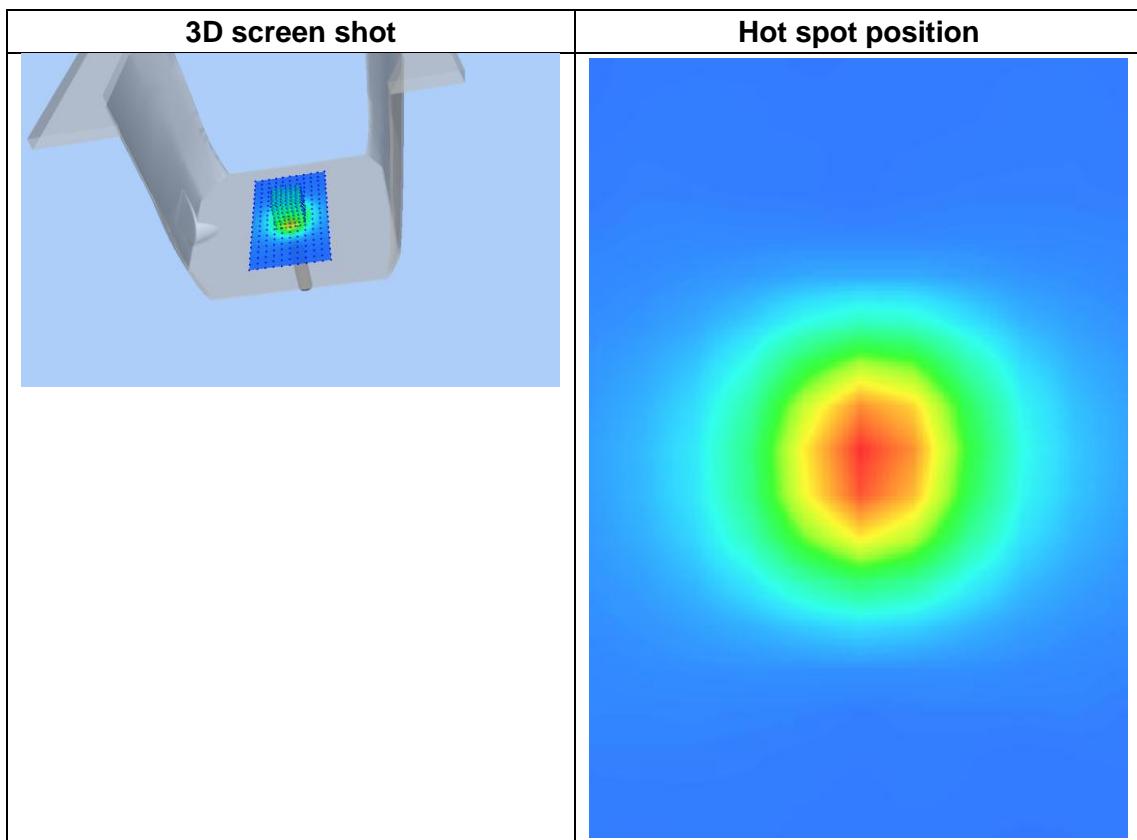
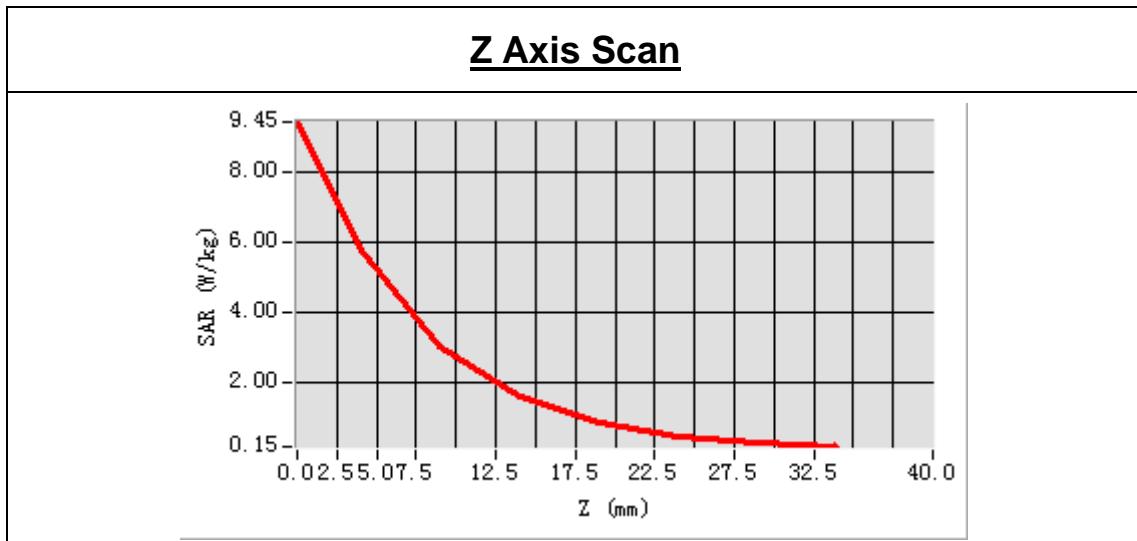
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 2450MHz |
| Signal | CW |
| Frequency (MHz) | 2450.000000 |
| Relative permittivity (real part) | 51.138900 |
| Conductivity (S/m) | 1.982105 |
| Power drift (%) | 0.480000 |
| Ambient Temperature: | 22.0°C |
| Liquid Temperature: | 21.1°C |
| ConvF: | 2.30 |
| Crest factor: | 1:1 |



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

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 2.475784 |
| SAR 1g (W/Kg) | 5.296841 |



System Performance Check Data(2600MHz Head)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

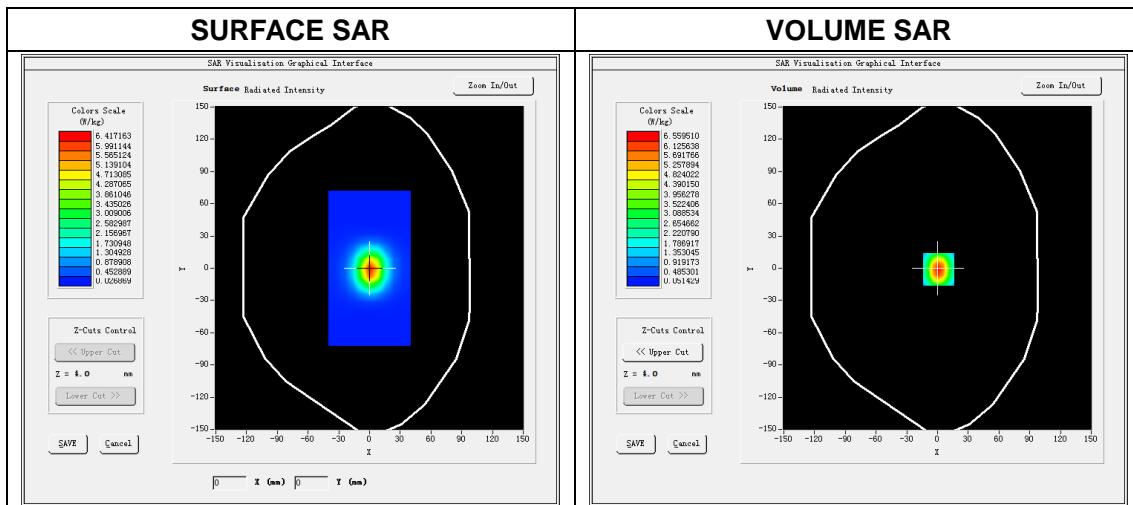
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2017.08.22

Measurement duration: 18 minutes 43 seconds

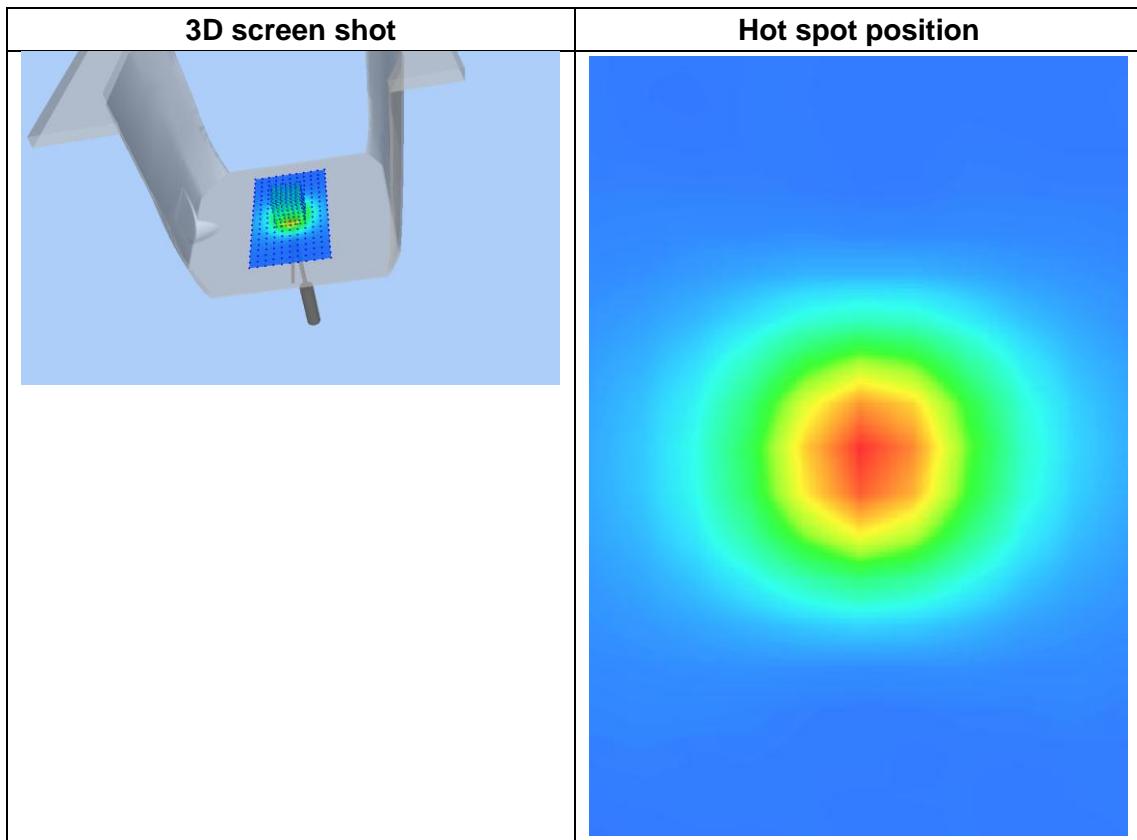
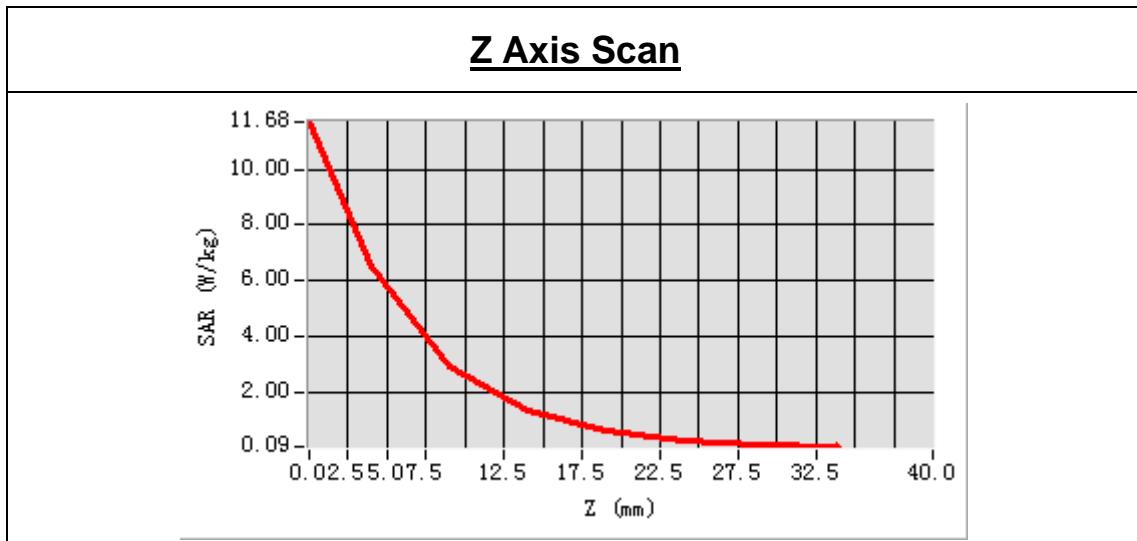
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 2600MHz |
| Signal | CW |
| Frequency (MHz) | 2600.000000 |
| Relative permittivity (real part) | 37.683742 |
| Conductivity (S/m) | 1.996181 |
| Power drift (%) | -0.240000 |
| Ambient Temperature: | 22.6°C |
| Liquid Temperature: | 21.4°C |
| ConvF: | 2.20 |
| Crest factor: | 1:1 |



Maximum location: X=1.00, Y=-1.00
SAR Peak: 11.64 W/kg

| | |
|----------------|----------|
| SAR 10g (W/Kg) | 2.658421 |
| SAR 1g (W/Kg) | 6.016295 |



System Performance Check Data(2600MHz Body)

Type: Phone measurement (Complete)

E-Field Probe: SN 08/16 SSE2 EPGO295

Area scan resolution: dx=8mm,dy=8mm

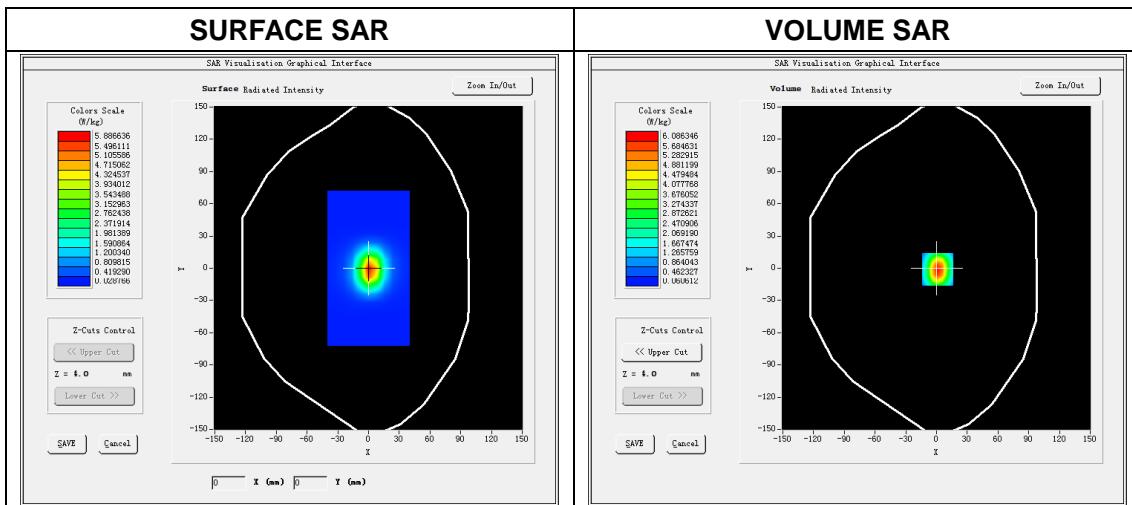
Zoom scan resolution: dx=5mm, dy=5mm, dz=5mm

Date of measurement: 2017.08.16

Measurement duration: 18 minutes 45 seconds

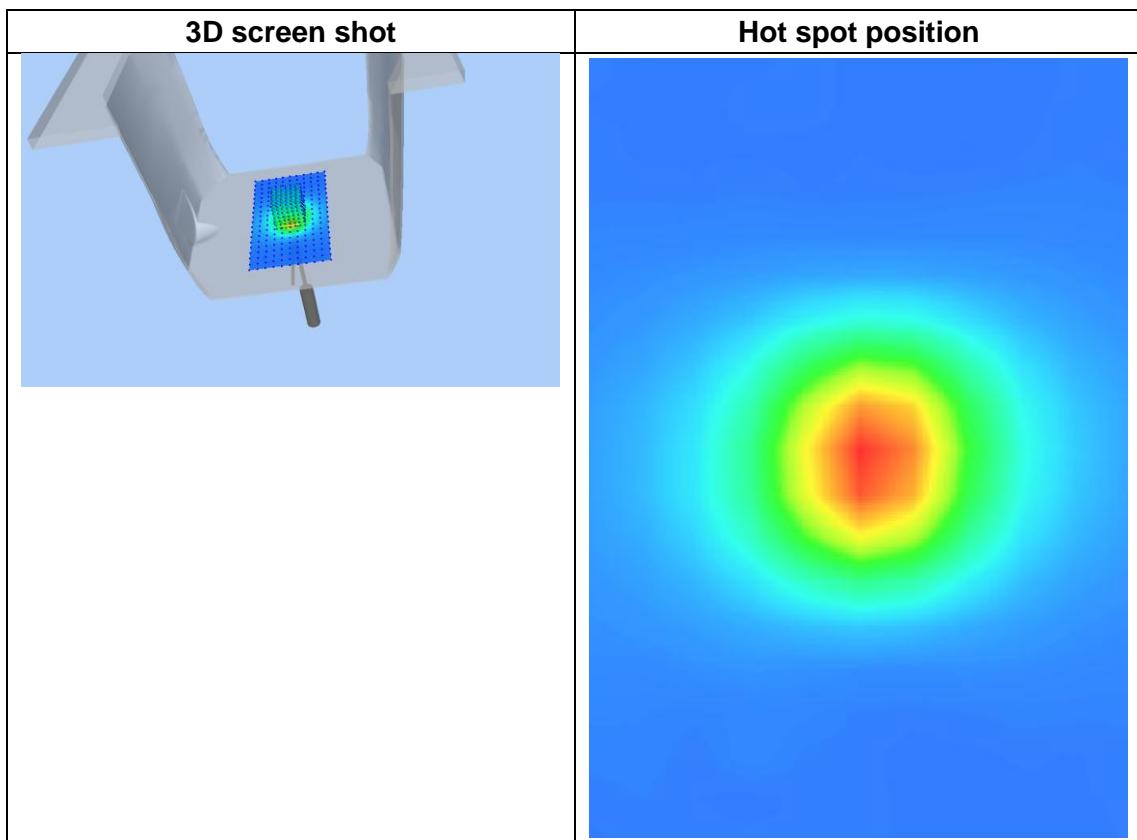
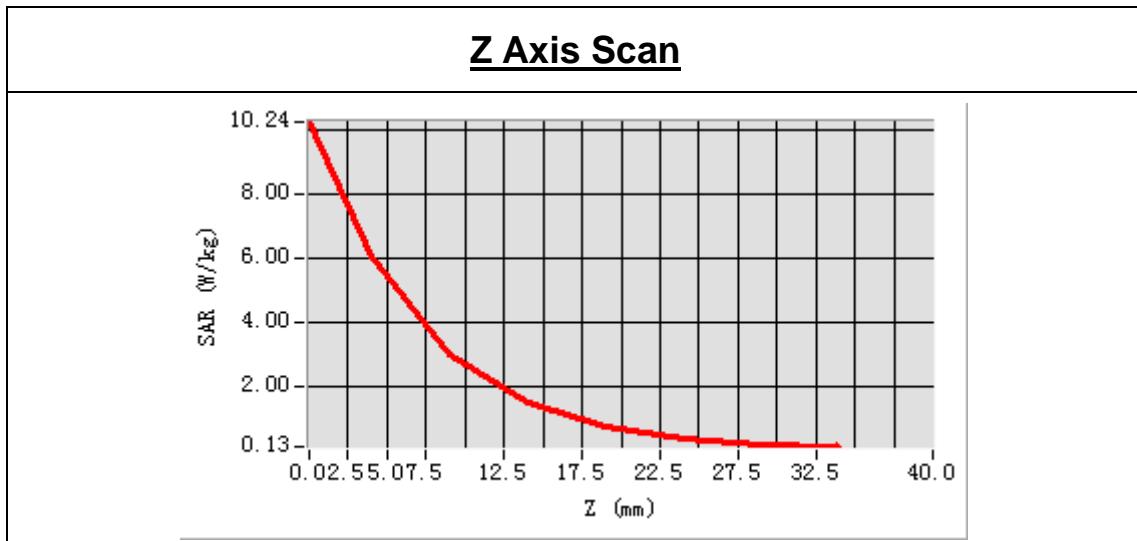
Experimental conditions.

| | |
|--|-------------------|
| Phantom File | surf_sam_plan.txt |
| Phantom | Validation plane |
| Band | 2600MHz |
| Signal | CW |
| Frequency (MHz) | 2600.000000 |
| Relative permittivity (real part) | 50.624785 |
| Conductivity (S/m) | 2.216743 |
| Power drift (%) | 0.980000 |
| Ambient Temperature: | 22.3°C |
| Liquid Temperature: | 21.3°C |
| ConvF: | 2.27 |
| Crest factor: | 1:1 |



Maximum location: X=1.00, Y=-1.00
SAR Peak: 10.20W/kg

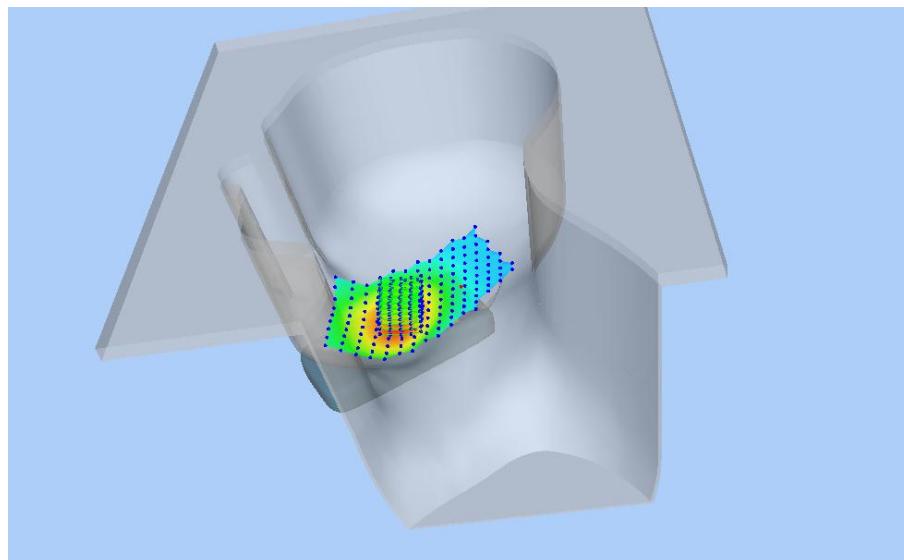
| | |
|----------------|----------|
| SAR 10g (W/Kg) | 2.510576 |
| SAR 1g (W/Kg) | 5.606328 |



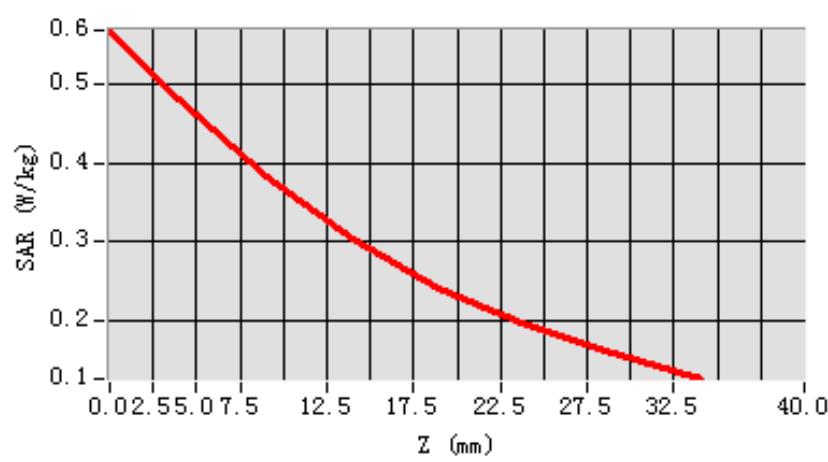
ANNEX C TEST DATA

MEAS. 1 Right Head with Cheek on Middle Channel in CDMA BC0 mode

Test Date: 30/8/2017
Measurement duration: 11 minutes 2 seconds
Signal: CDMA2000, f=836.52 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.53; Conductivity: 0.91 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-46.000000, Y=-36.000000
SAR 10g (W/Kg): 0.346081
SAR 1g (W/Kg): 0.461651
Power drift (%): -0.32
3D screen shot



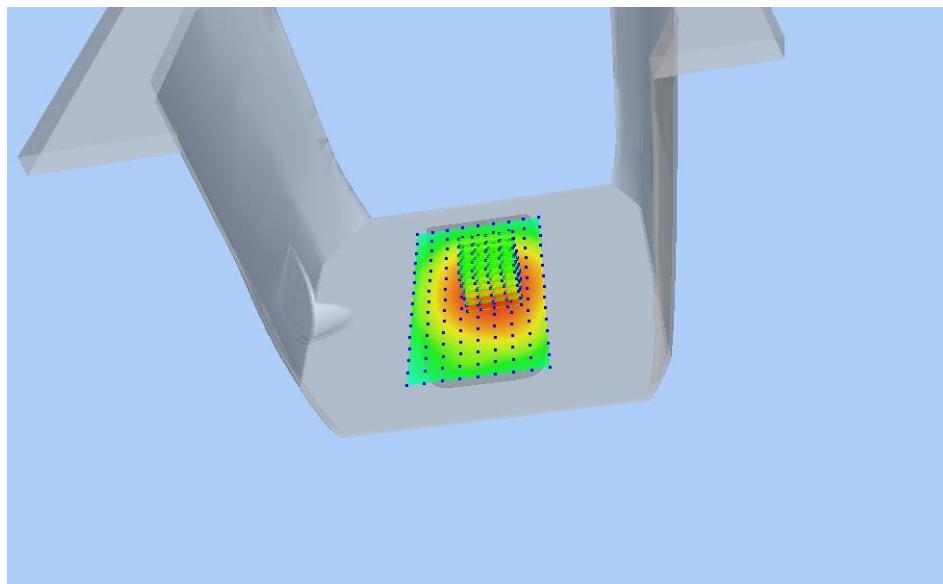
Z Axis Scan



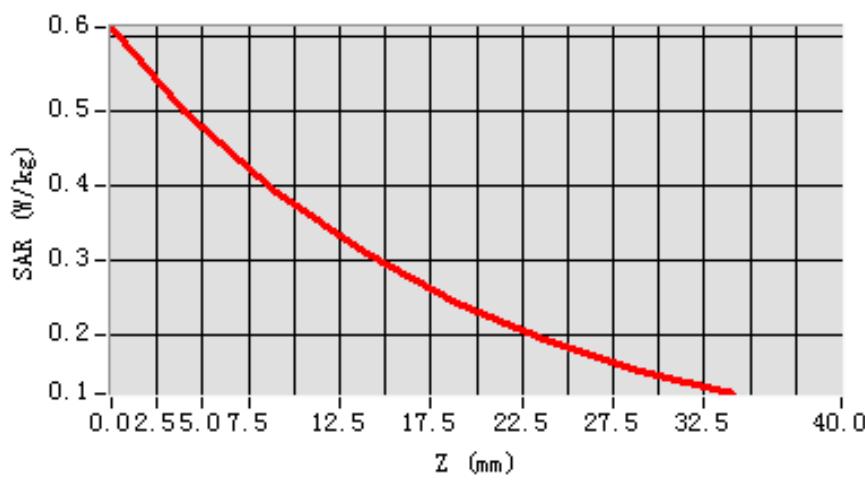
MEAS. 2 Body Plane with Back Side 15mm on Middle Channel in CDMA BC0

mode

Test Date: 28/8/2017
Measurement duration: 11 minutes 57 seconds
Signal: CDMA2000, f=836.52 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 54.18; Conductivity: 0.98 S/m
Test condition: Ambient Temperature: 22.2°C, Liquid Temperature: 21.5°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=48.000000
SAR 10g (W/Kg): 0.368814
SAR 1g (W/Kg): 0.491688
Power drift (%): -0.61
3D screen shot

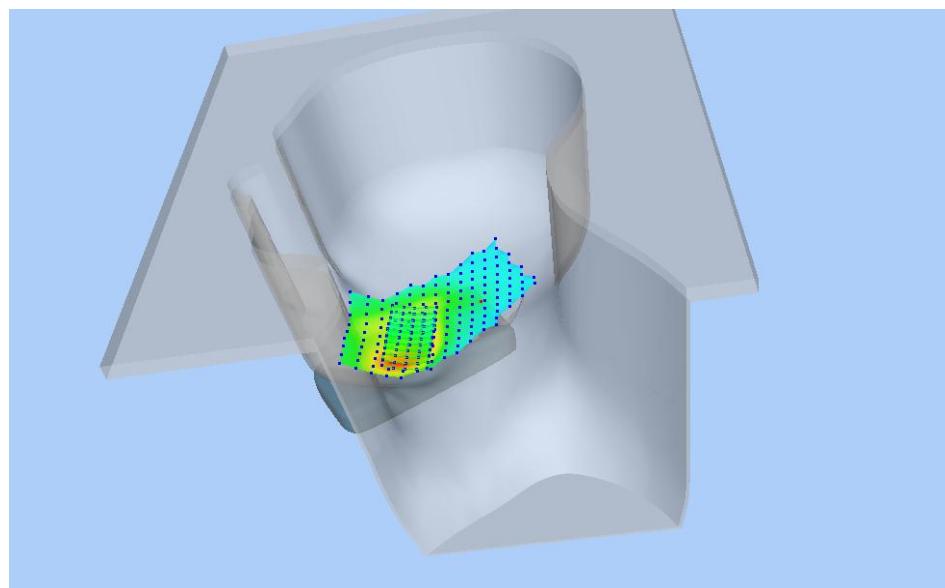


Z Axis Scan

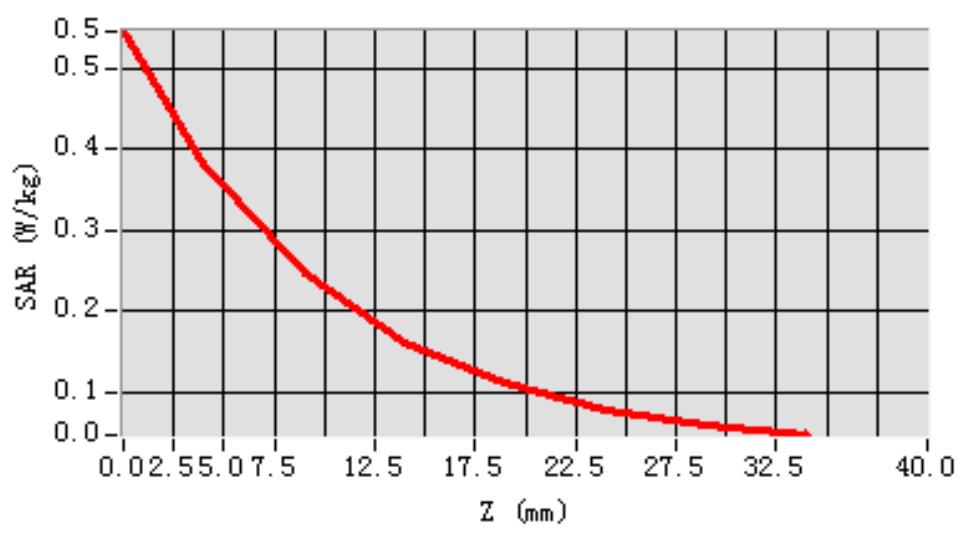


MEAS. 3 Right Head with Cheek on Low Channel in CDMA BC1 mode

Test Date: 24/8/2017
Measurement duration: 12 minutes 12 seconds
Signal: CDMA2000, f=1851.25 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity:39.88; Conductivity: 1.39 S/m
Test condition: Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.19
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-56.000000
SAR 10g (W/Kg): 0.219375
SAR 1g (W/Kg): 0.364986
Power drift (%): 4.29
3D screen shot



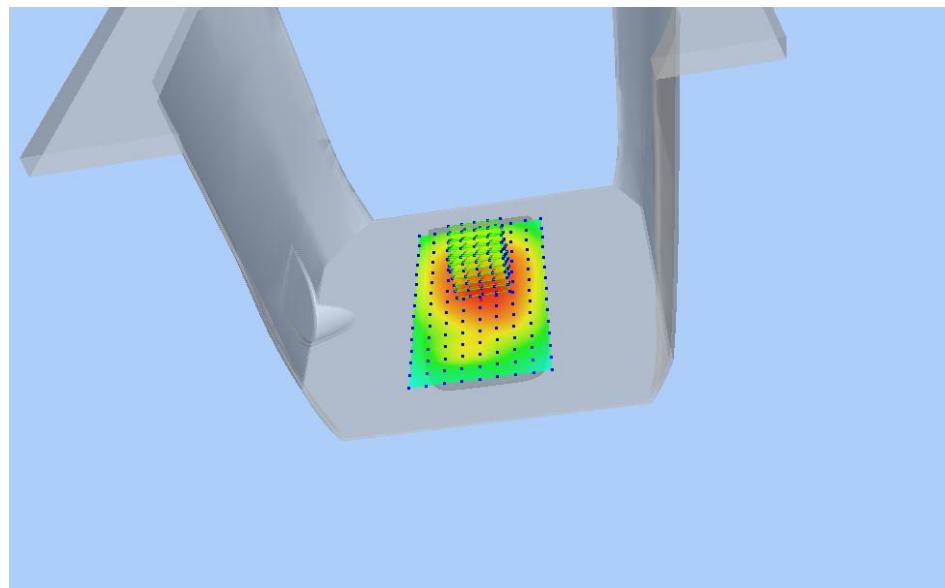
Z Axis Scan



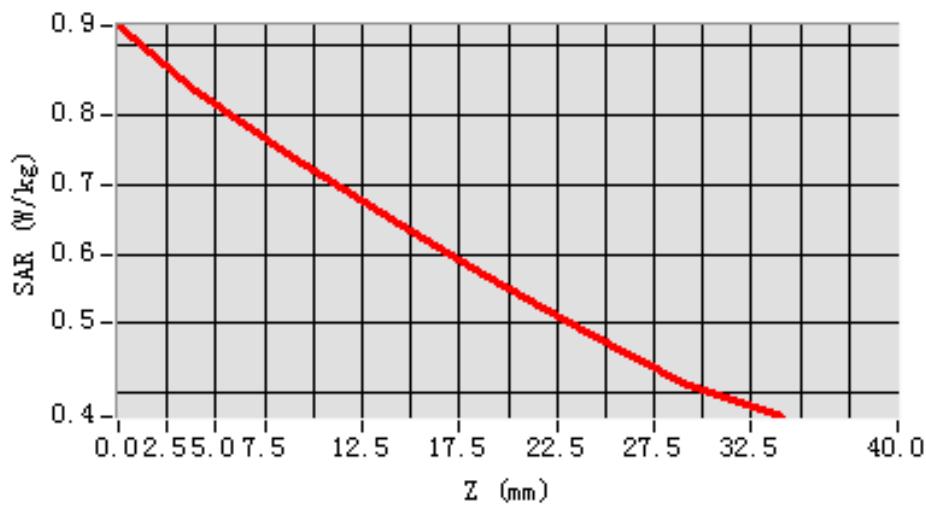
MEAS. 4 Body Plane with Back Side 10mm on Middle Channel in CDMA BC1

mode

Test Date: 18/8/2017
Measurement duration: 12 minutes 4 seconds
Signal: CDMA2000, f=1880.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 52.63; Conductivity: 1.55 S/m
Test condition: Ambient Temperature: 22.0°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.24
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=18.000000
SAR 10g (W/Kg): 0.696098
SAR 1g (W/Kg): 0.841944
Power drift (%): -1.68
3D screen shot

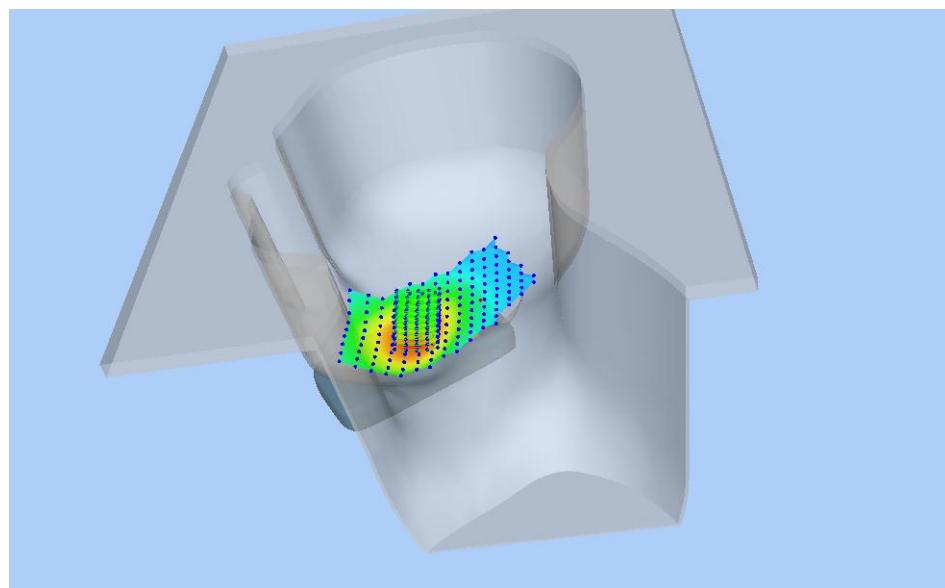


Z Axis Scan

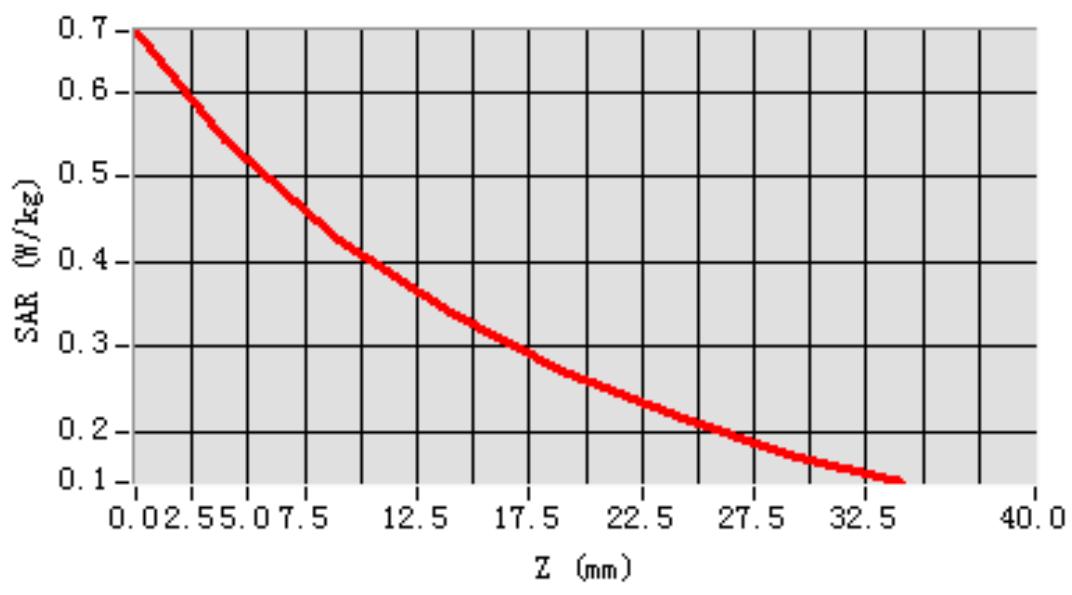


MEAS. 5 Right Head with Cheek on Middle Channel in CDMA BC10 mode

Test Date: 30/8/2017
Measurement duration: 11 minutes 6 seconds
Signal: CDMA2000, f=820.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.71; Conductivity: 0.91 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-46.000000, Y=-36.000000
SAR 10g (W/Kg): 0.387445
SAR 1g (W/Kg): 0.524026
Power drift (%): -0.06
3D screen shot



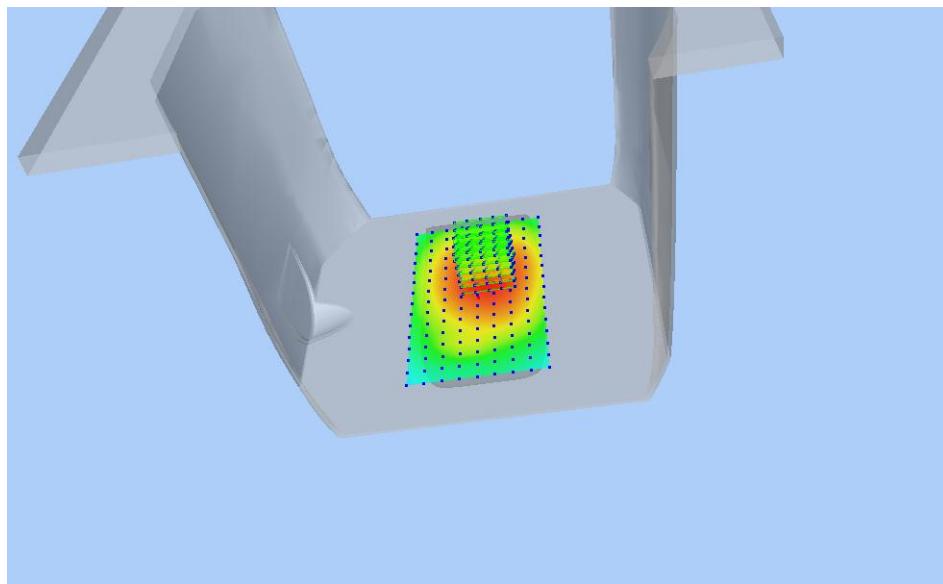
Z Axis Scan



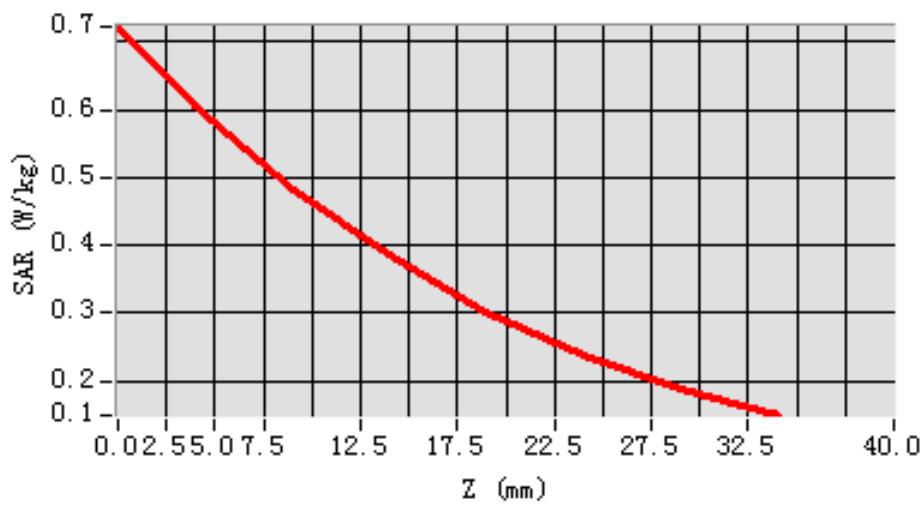
MEAS. 6 Body Plane with Back Side 10mm on Middle Channel in CDMA BC10

mode

Test Date: 28/8/2017
Measurement duration: 12 minutes 44 seconds
Signal: CDMA2000, f=820.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 54.23; Conductivity: 0.98 S/m
Test condition: Ambient Temperature: 22.2°C, Liquid Temperature: 21.5°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=10.000000, Y=18.000000
SAR 10g (W/Kg): 0.449287
SAR 1g (W/Kg): 0.589354
Power drift (%): 0.55
3D screen shot

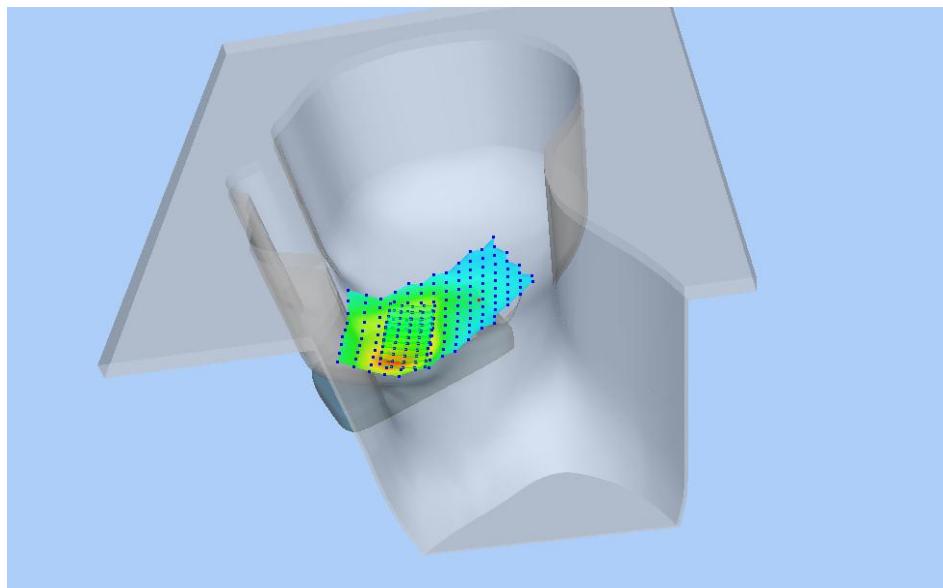


Z Axis Scan

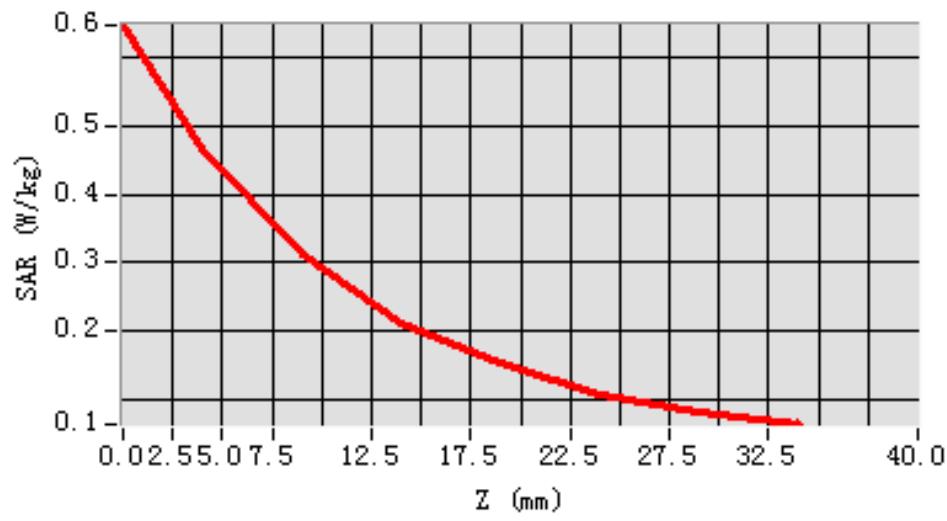


MEAS. 7 Right Head with Cheek on Low Channel in LTE Band 2 mode with 1RB

Test Date: 24/8/2017
Measurement duration: 12 minutes 14 seconds
Signal: LTE, f=1860.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 39.72; Conductivity: 1.39 S/m
Test condition: Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.19
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-56.000000
SAR 10g (W/Kg): 0.276963
SAR 1g (W/Kg): 0.448159
Power drift (%): 1.87
3D screen shot



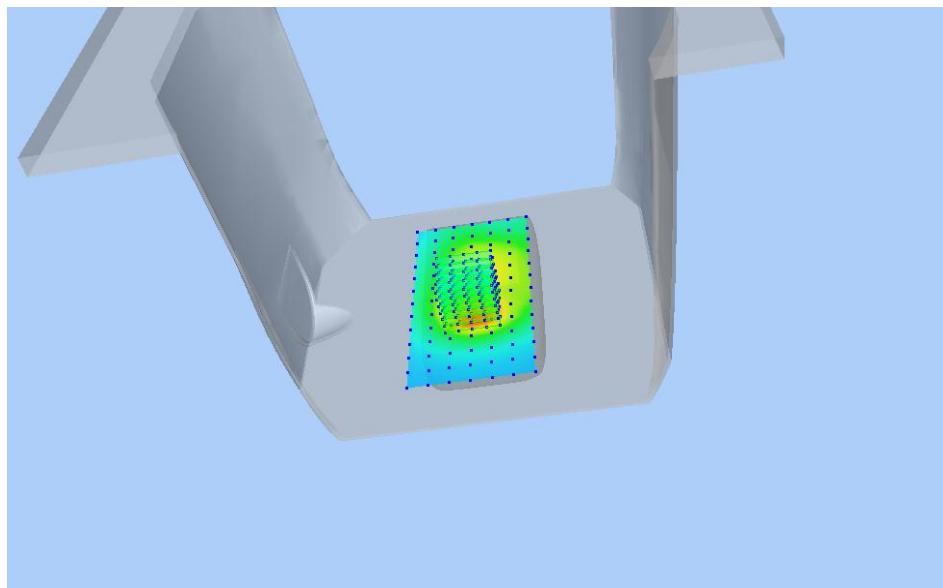
Z Axis Scan



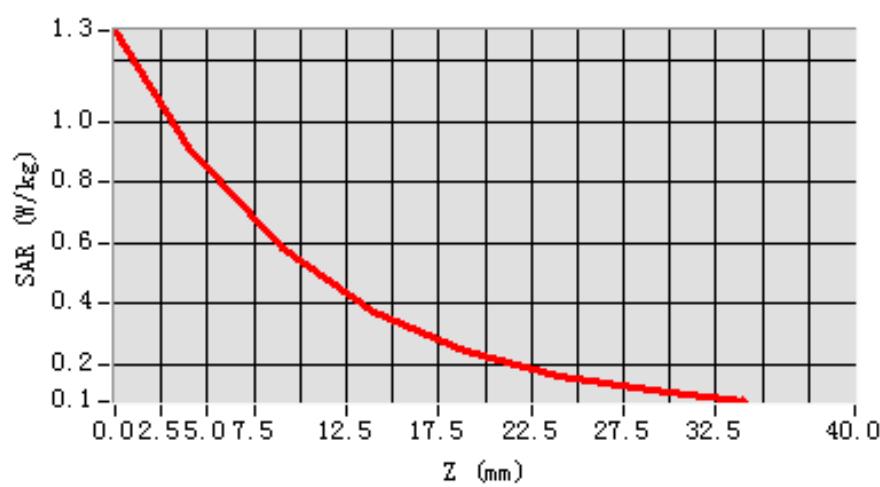
MEAS. 8 Body Plane with Back Side 10mm on High Channel in LTE Band 2

mode with 1RB

Test Date: 17/8/2017
Measurement duration: 10 minutes 5 seconds
Signal: LTE, f=1900.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity:52.42; Conductivity: 1.57 S/m
Test condition: Ambient Temperature: 22.1°C, Liquid Temperature: 21.2°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.24
Area Scan: sam_direct_droit2_surf12mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-4.000000, Y=-12.000000
SAR 10g (W/Kg): 0.503338
SAR 1g (W/Kg): 0.914067
Power drift (%): 1.62
3D screen shot

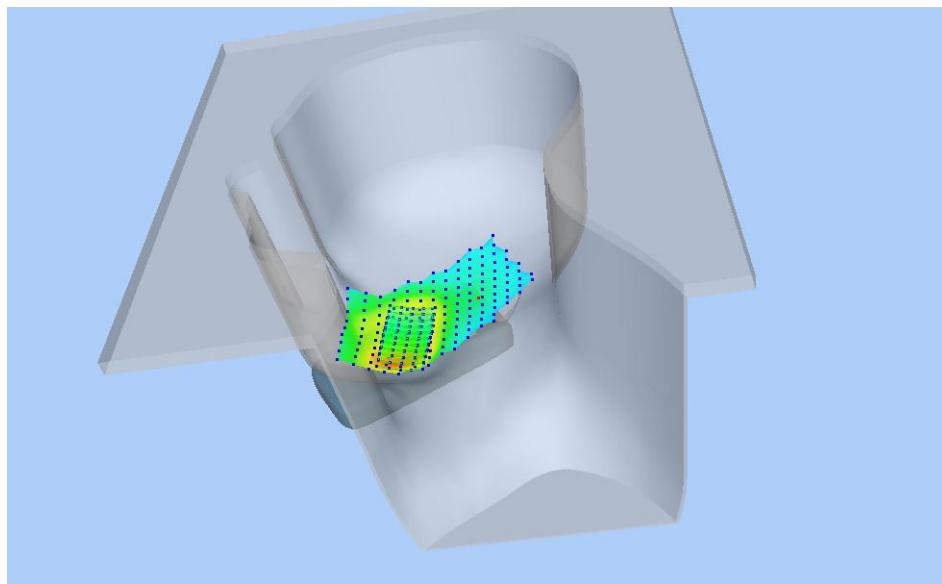


Z Axis Scan

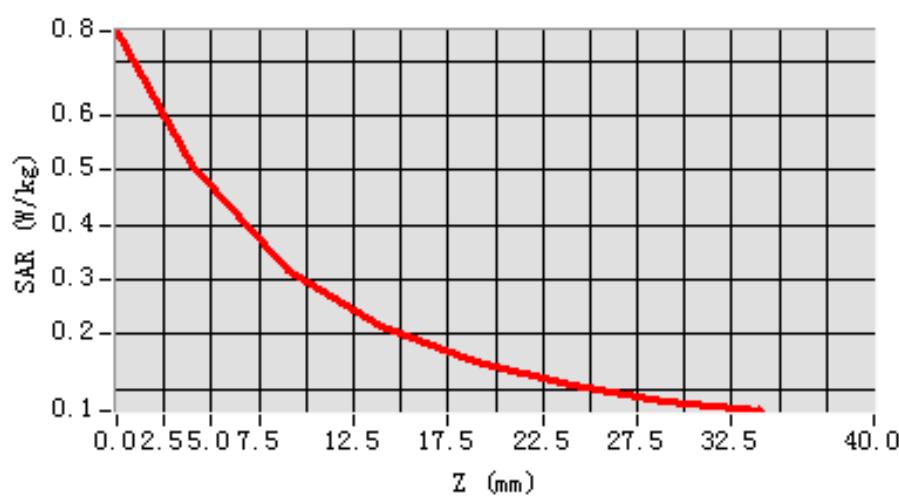


MEAS. 9 Right Head with Cheek on Middle Channel in LTE Band 4 mode with 1RB

Test Date: 25/8/2017
Measurement duration: 12 minutes 11 seconds
Signal: LTE, f=1732.5 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.42; Conductivity: 1.35 S/m
Test condition: Ambient Temperature: 22.0°C, Liquid Temperature: 21.4°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.88
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-66.000000
SAR 10g (W/Kg): 0.294414
SAR 1g (W/Kg): 0.497786
Power drift (%): -4.02
3D screen shot



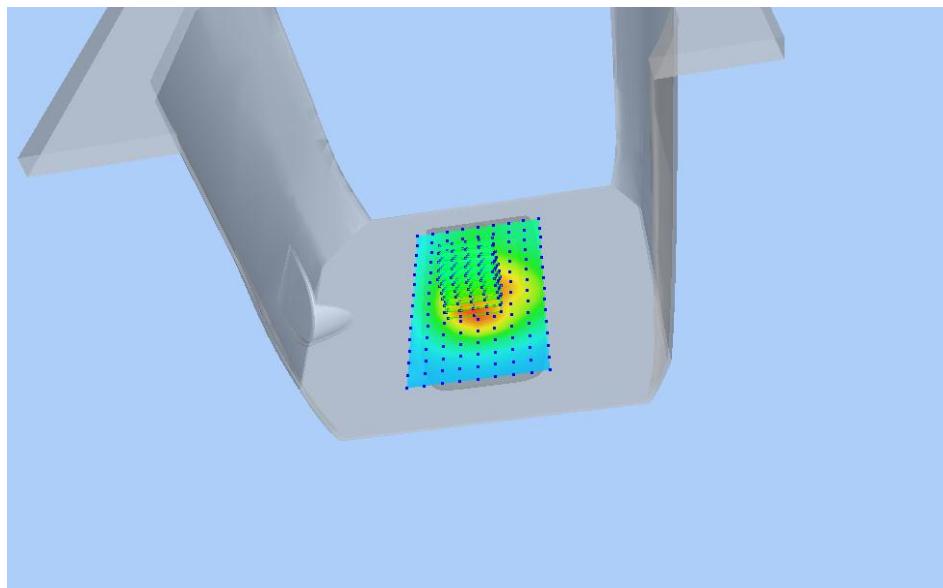
Z Axis Scan



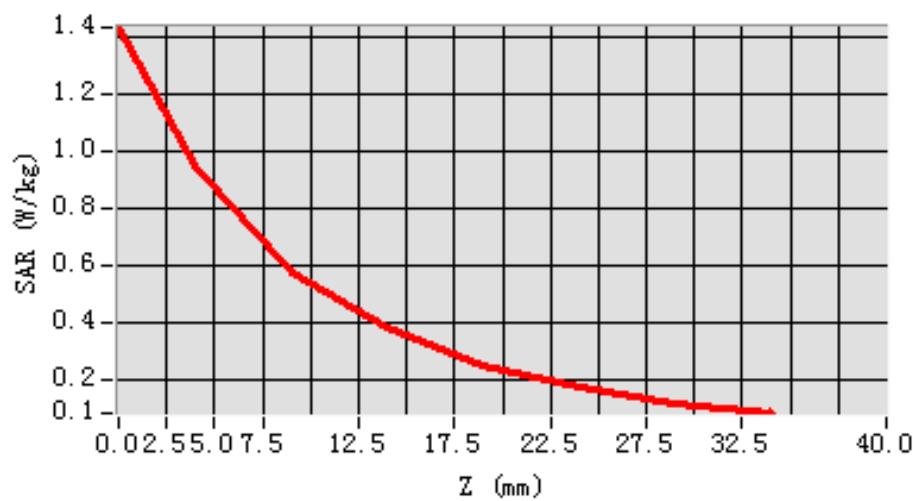
MEAS. 10 Body Plane with Back Side 10mm on Low LTE Band 4 in LTE mode

with 1RB

Test Date: 21/8/2017
Measurement duration: 11 minutes 18 seconds
Signal: LTE, f=1720.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.23; Conductivity: 1.45 S/m
Test condition: Ambient Temperature: 22.6°C, Liquid Temperature: 21.5°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.94
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=-2.000000
SAR 10g (W/Kg): 0.544219
SAR 1g (W/Kg): 0.922787
Power drift (%): -1.88
3D screen shot

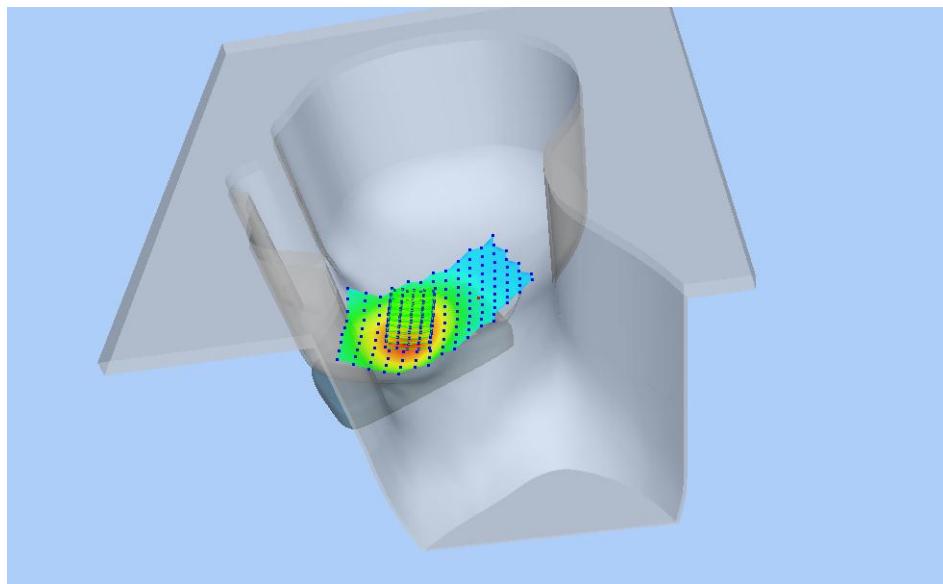


Z Axis Scan

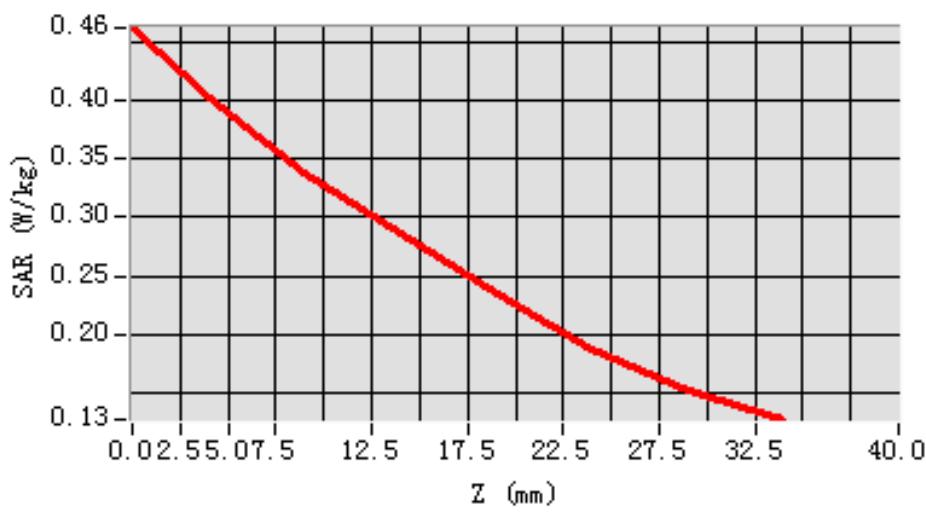


MEAS. 11 Right Head with Cheek on High Channel in LTE Band 5 mode with 1RB

Test Date: 30/8/2017
Measurement duration: 12 minutes 6 seconds
Signal: LTE, f=844.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.42; Conductivity: 0.92 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-36.000000
SAR 10g (W/Kg): 0.306657
SAR 1g (W/Kg): 0.400801
Power drift (%): -2.06
3D screen shot



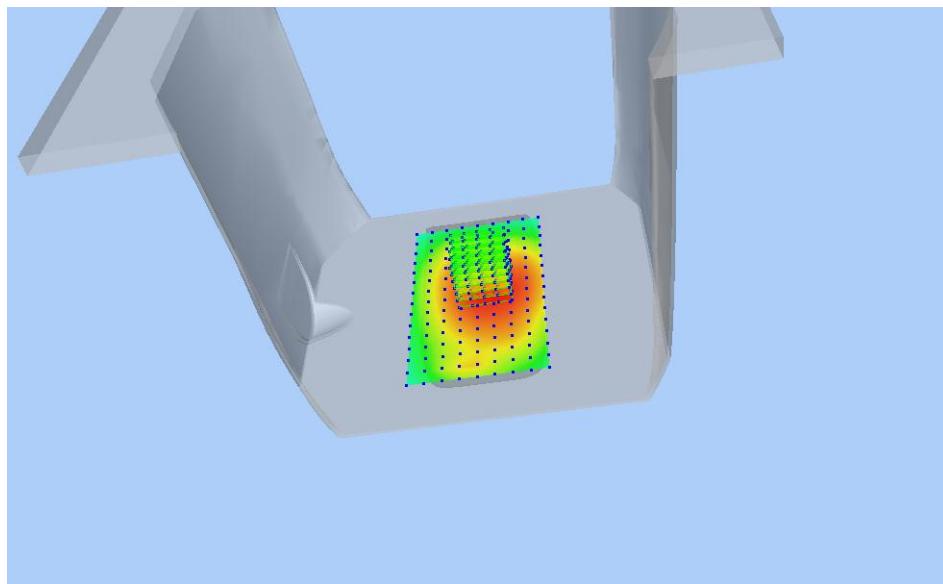
Z Axis Scan



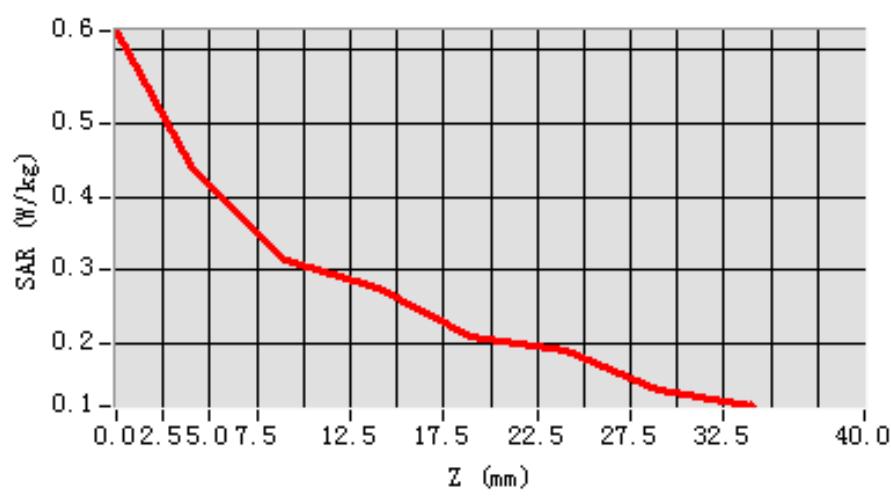
MEAS. 12 Body Plane with Back Side 10mm on High Channel in LTE Band 5

mode with 1RB

Test Date: 28/8/2017
Measurement duration: 12 minutes 33 seconds
Signal: LTE, f=844.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.80; Conductivity: 0.99 S/m
Test condition: Ambient Temperature: 22.2°C, Liquid Temperature: 21.5°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=8.000000
SAR 10g (W/Kg): 0.336086
SAR 1g (W/Kg): 0.446184
Power drift (%): -0.09
3D screen shot

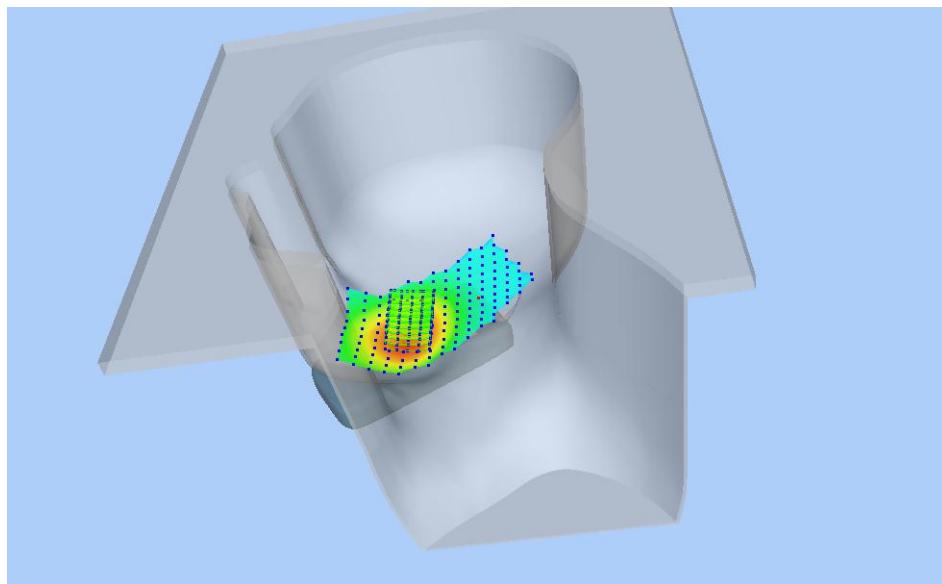


Z Axis Scan

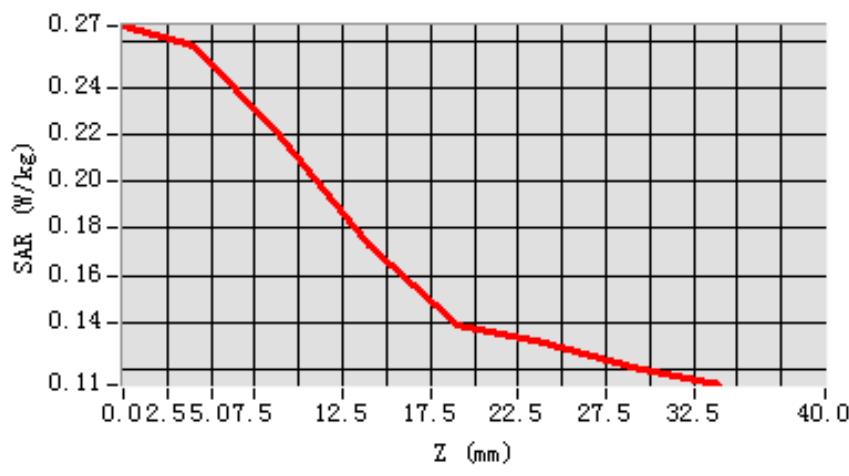


MEAS. 13 Right Head with Cheek on High Channel in LTE Band 12 mode with 1RB

Test Date: 31/8/2017
Measurement duration: 11 minutes 58 seconds
Signal: LTE, f=711.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 42.84; Conductivity: 0.88 S/m
Test condition: Ambient Temperature: 22.3°C, Liquid Temperature: 21.0°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.52
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-36.000000
SAR 10g (W/Kg): 0.202320
SAR 1g (W/Kg): 0.250897
Power drift (%): 2.24
3D screen shot



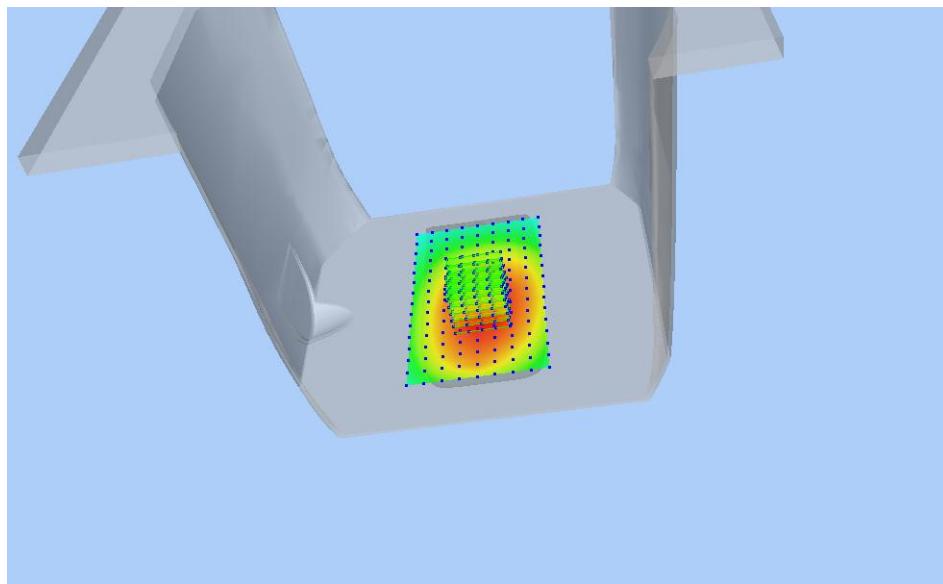
Z Axis Scan



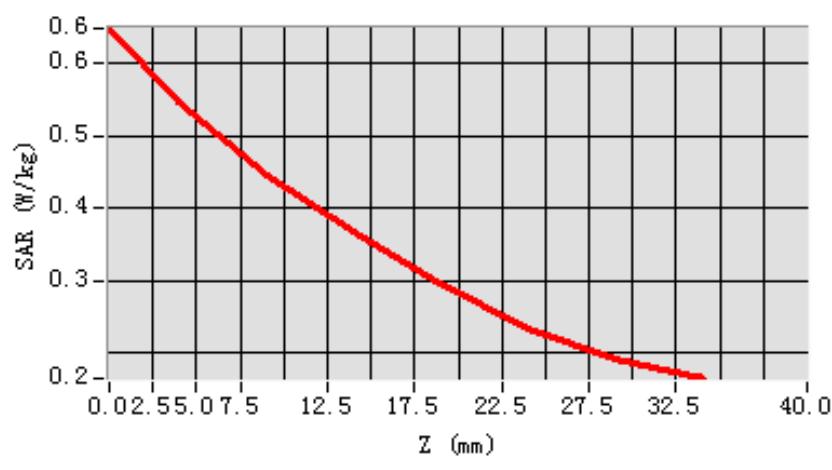
MEAS. 14 Body Plane with Back Side 10mm on High Channel in LTE Band 12

mode with 1RB

Test Date: 29/8/2017
Measurement duration: 12 minutes 9 seconds
Signal: LTE, f=711.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 57.26; Conductivity: 0.94 S/m
Test condition: Ambient Temperature: 22.3°C, Liquid Temperature: 21.1°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.56
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=-22.000000
SAR 10g (W/Kg): 0.416409
SAR 1g (W/Kg): 0.535529
Power drift (%): -1.02
3D screen shot

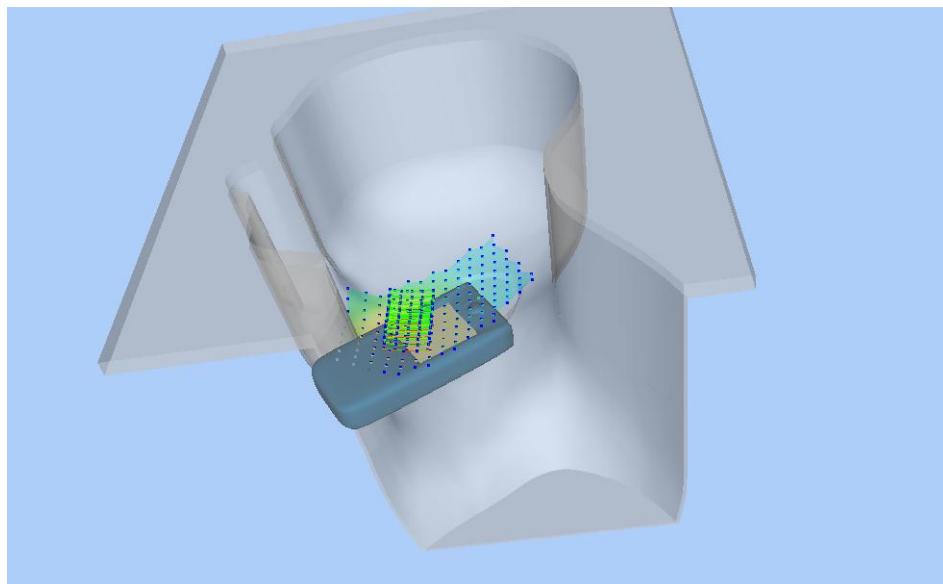


Z Axis Scan

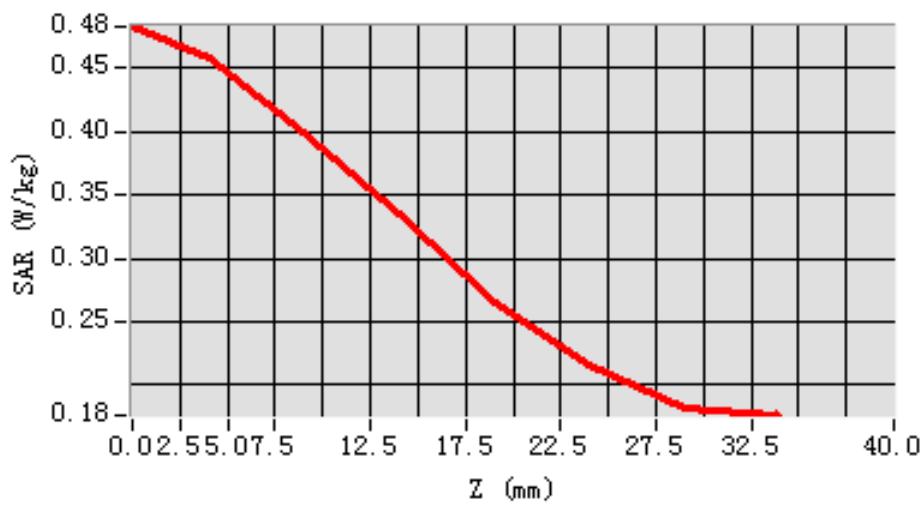


MEAS. 15 Right Head with Cheek on High Channel in LTE Band 13 mode with 1RB

Test Date: 31/8/2017
Measurement duration: 11 minutes 57 seconds
Signal: LTE, f=782.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.97; Conductivity: 0.91 S/m
Test condition: Ambient Temperature: 22.3°C, Liquid Temperature: 21.0°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.52
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-56.000000, Y=-36.000000
SAR 10g (W/Kg): 0.360739
SAR 1g (W/Kg): 0.456503
Power drift (%): -0.05
3D screen shot



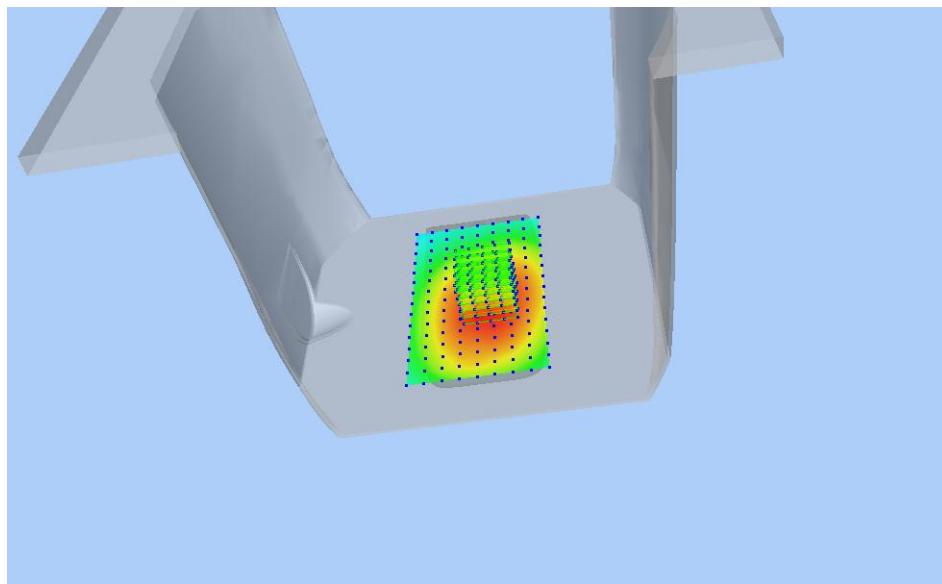
Z Axis Scan



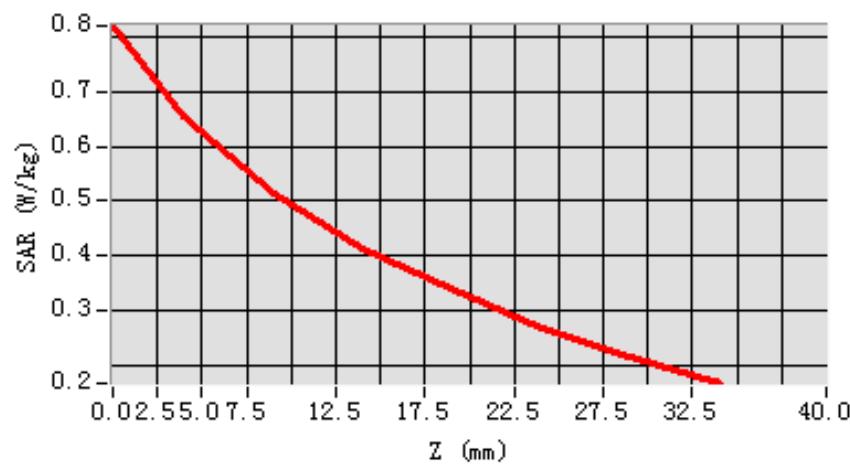
MEAS. 16 Body Plane with Back Side 10mm on High Channel in LTE Band 13

mode with 1RB

Test Date: 29/8/2017
Measurement duration: 12 minutes 55 seconds
Signal: LTE, f=782.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 56.93; Conductivity: 0.96 S/m
Test condition: Ambient Temperature: 22.3°C, Liquid Temperature: 21.1°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.56
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=10.000000, Y=-12.000000
SAR 10g (W/Kg): 0.497837
SAR 1g (W/Kg): 0.647141
Power drift (%): 1.43
3D screen shot



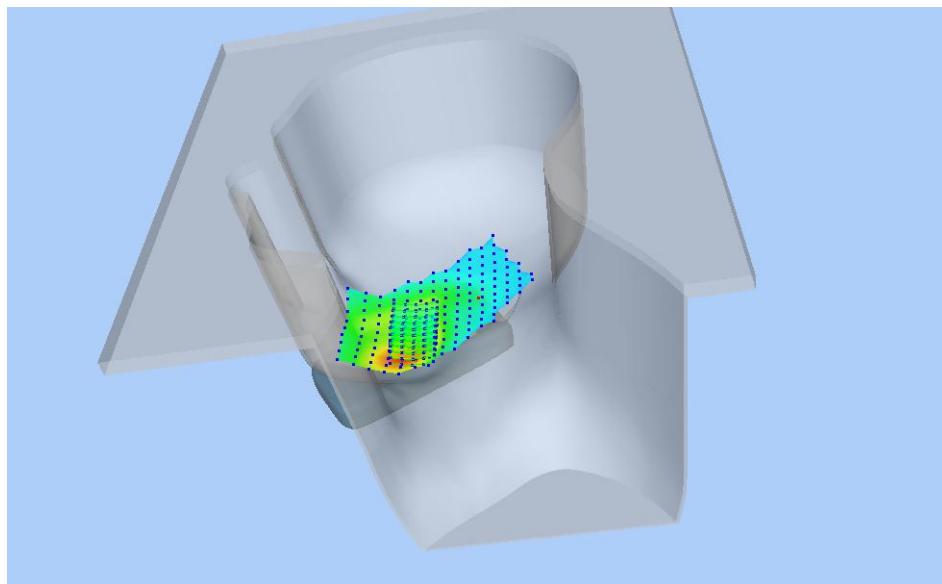
Z Axis Scan



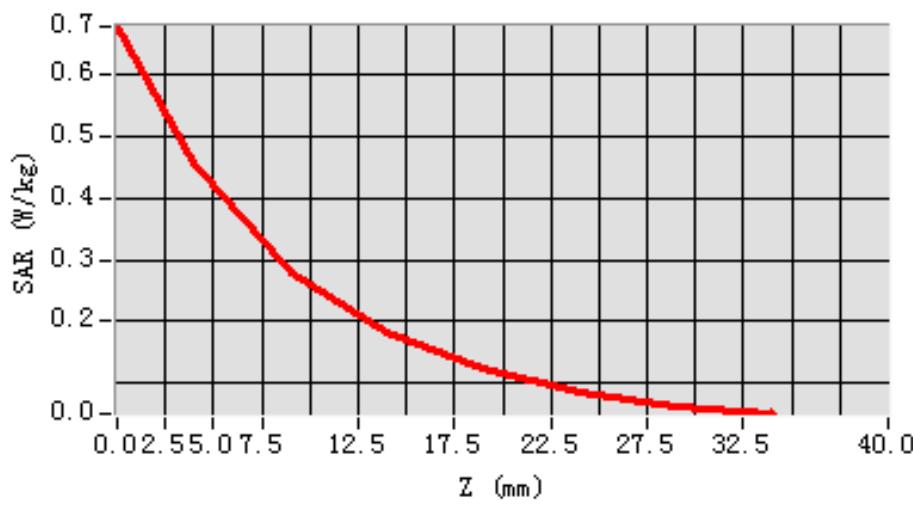
MEAS. 17 Right Head with Cheek on Middle Channel in LTE Band 25 mode

with 1RB

Test Date: 24/8/2017
Measurement duration: 11 minutes 38 seconds
Signal: LTE, f=1882.5 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 39.88; Conductivity: 1.39 S/m
Test condition: Ambient Temperature: 22.4°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.19
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-46.000000, Y=-56.000000
SAR 10g (W/Kg): 0.257445
SAR 1g (W/Kg): 0.439274
Power drift (%): 2.08
3D screen shot



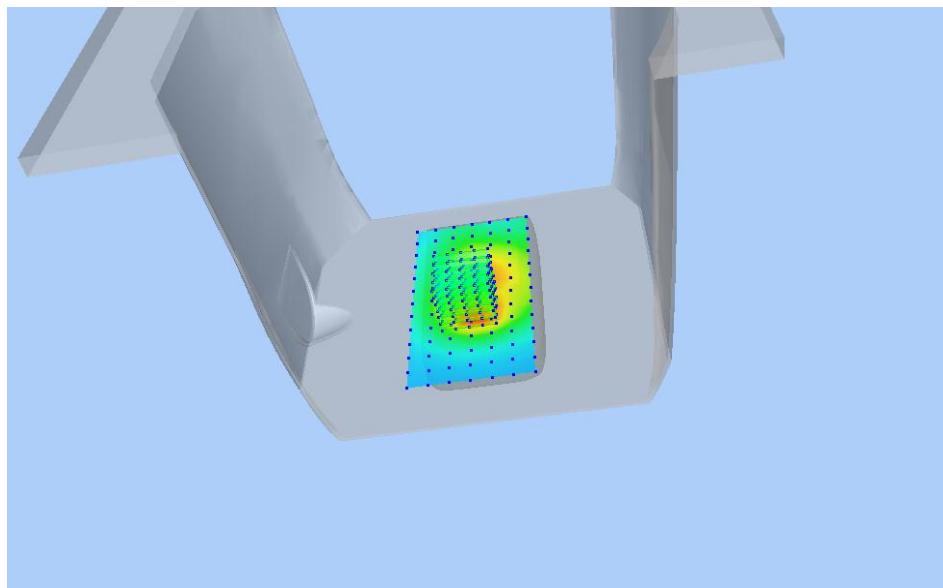
Z Axis Scan



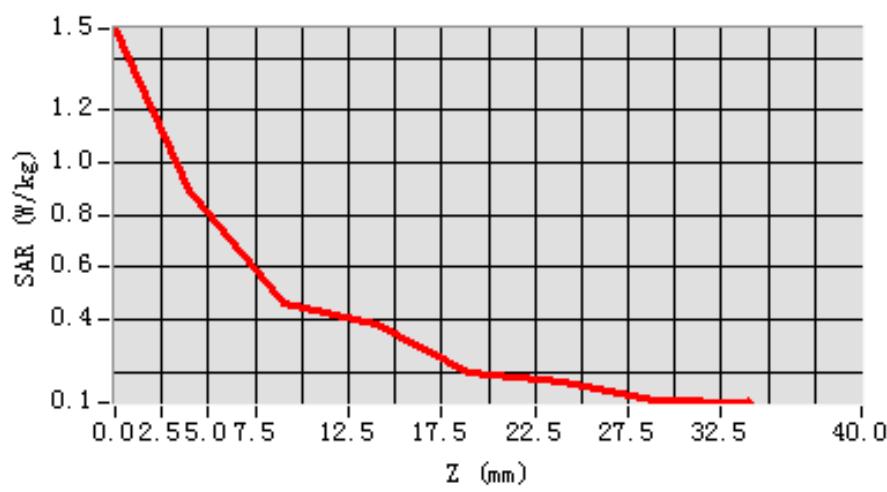
MEAS. 18 Body Plane with Back Side 10mm on Low Channel in LTE Band 25

mode with 1RB

Test Date: 17/8/2017
Measurement duration: 10 minutes 46 seconds
Signal: LTE, f=1860.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 52.86; Conductivity: 1.54 S/m
Test condition: Ambient Temperature: 22.1°C, Liquid Temperature: 21.2°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.24
Area Scan: sam_direct_droit2_surf12mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-4.000000, Y=-12.000000
SAR 10g (W/Kg): 0.509089
SAR 1g (W/Kg): 0.903411
Power drift (%): -0.41
3D screen shot

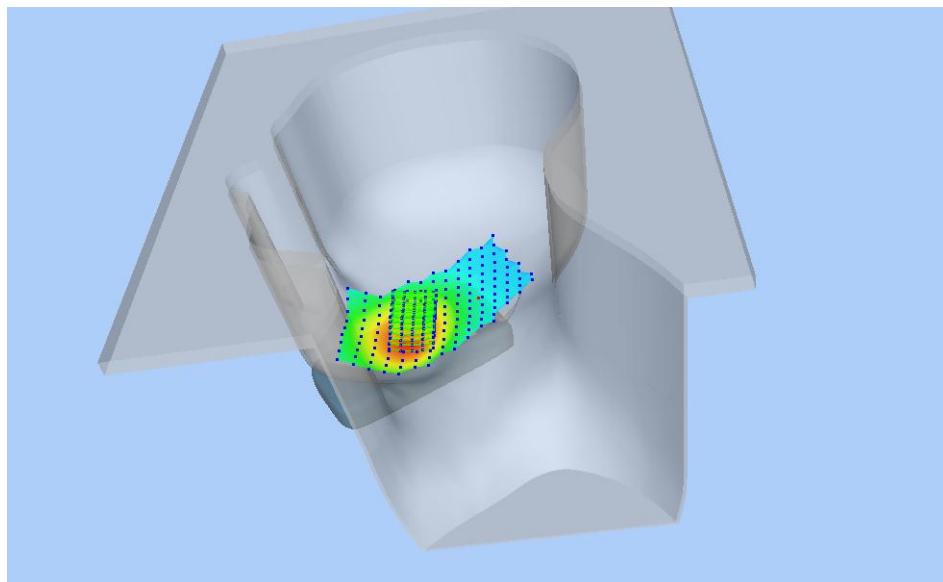


Z Axis Scan

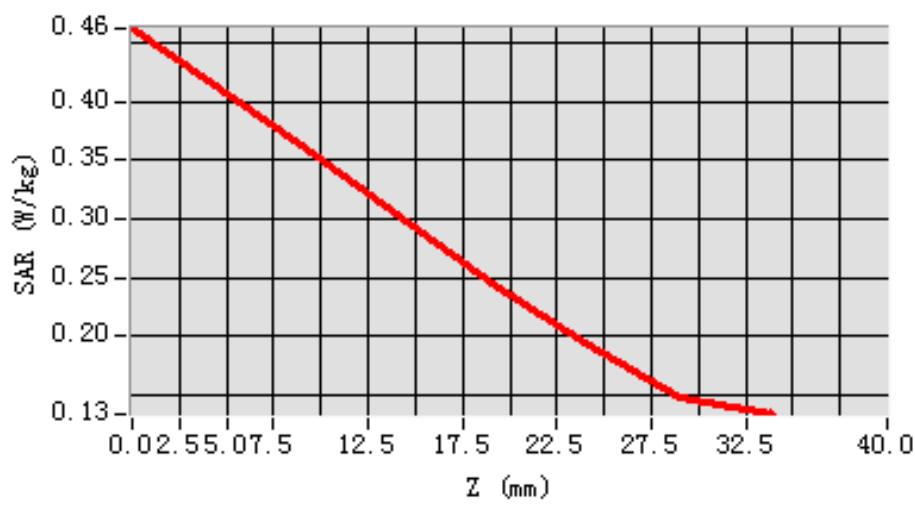


MEAS. 19 Right Head with Cheek on High Channel in LTE Band 26 mode with 1RB

Test Date: 30/8/2017
Measurement duration: 11 minutes 13 seconds
Signal: LTE, f=841.5 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 41.45; Conductivity: 0.92 S/m
Test condition: Ambient Temperature: 22.5°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.78
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=-46.000000, Y=-36.000000
SAR 10g (W/Kg): 0.322765
SAR 1g (W/Kg): 0.408773
Power drift (%): -1.02
3D screen shot



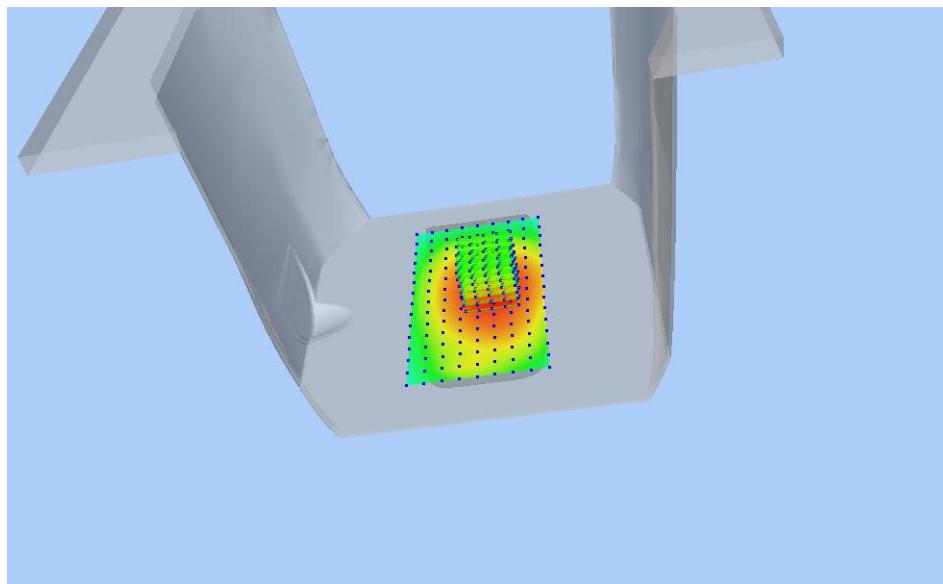
Z Axis Scan



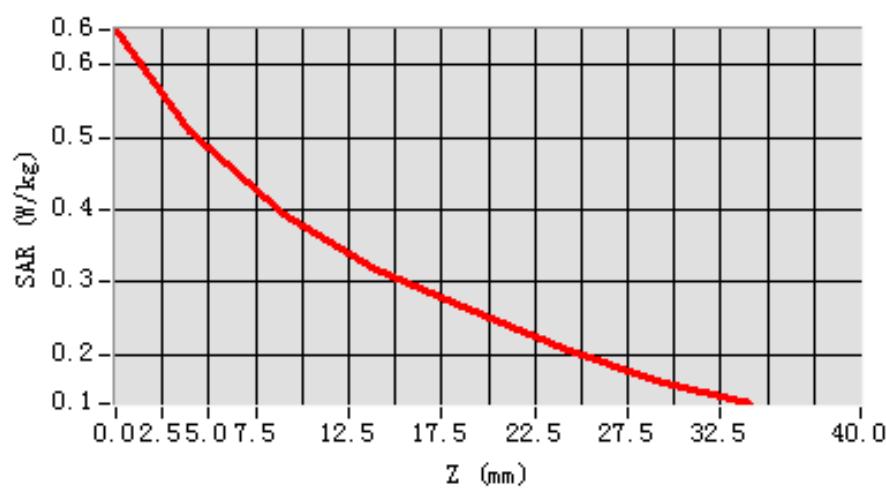
MEAS. 20 Body Plane with Back Side 10mm on High Channel in LTE Band 26

mode with 1RB

Test Date: 28/8/2017
Measurement duration: 13 minutes 3 seconds
Signal: LTE, f=841.5 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 53.82; Conductivity: 0.99 S/m
Test condition: Ambient Temperature: 22.2°C, Liquid Temperature: 21.5°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 1.85
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 5x5x7,dx=8mm, dy=8mm, dz=5mm,Complete
Maximum location: X=10.000000, Y=-2.000000
SAR 10g (W/Kg): 0.381664
SAR 1g (W/Kg): 0.503087
Power drift (%): -2.43
3D screen shot

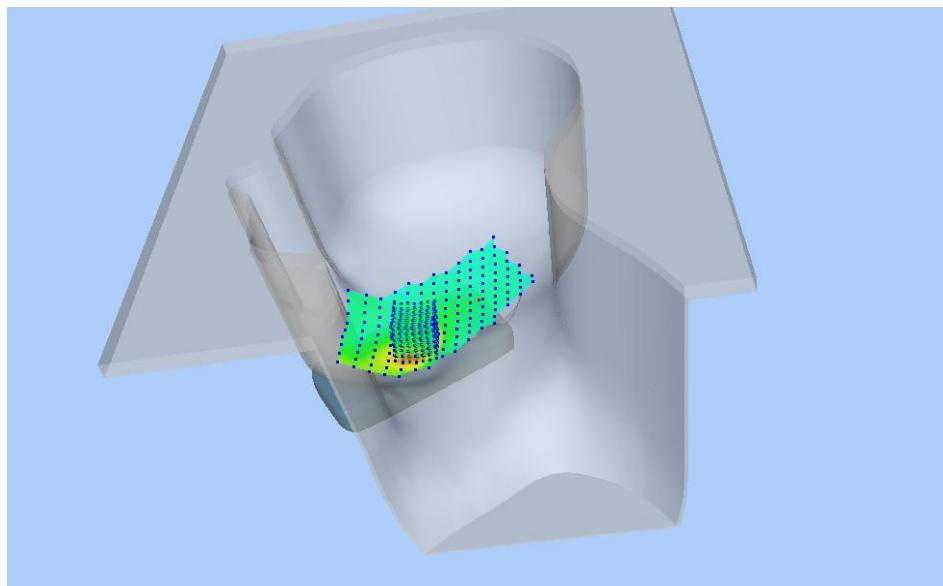


Z Axis Scan

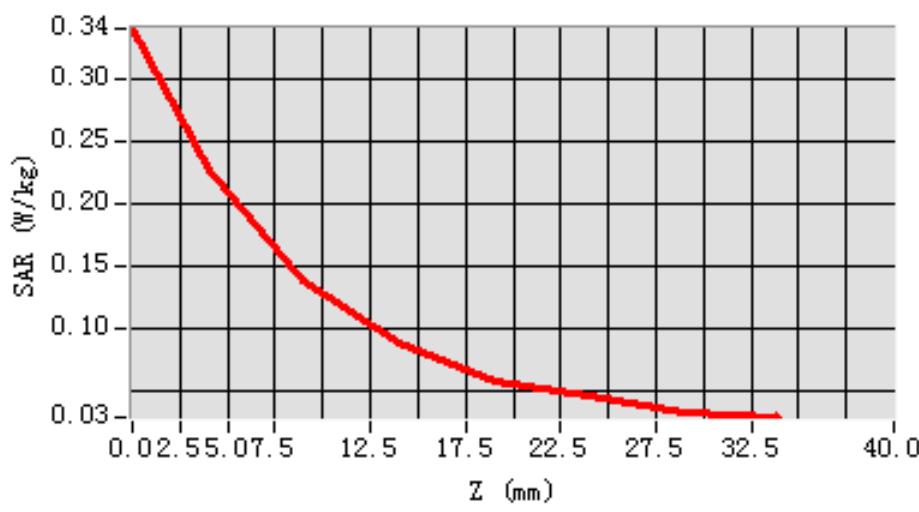


MEAS. 21 Right Head with Cheek on Middle Channel in LTE Band 41 mode with 1RB

Test Date: 22/8/2017
Measurement duration: 16 minutes 1 seconds
Signal: LTE, f=2593.0 MHz, Duty Cycle: 1:1.6
Liquid Parameters: Permittivity: 37.69; Conductivity: 2.00 S/m
Test condition: Ambient Temperature: 22.6°C, Liquid Temperature: 21.4°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.2
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=-46.000000, Y=-46.000000
SAR 10g (W/Kg): 0.120118
SAR 1g (W/Kg): 0.219540
Power drift (%): -2.99
3D screen shot



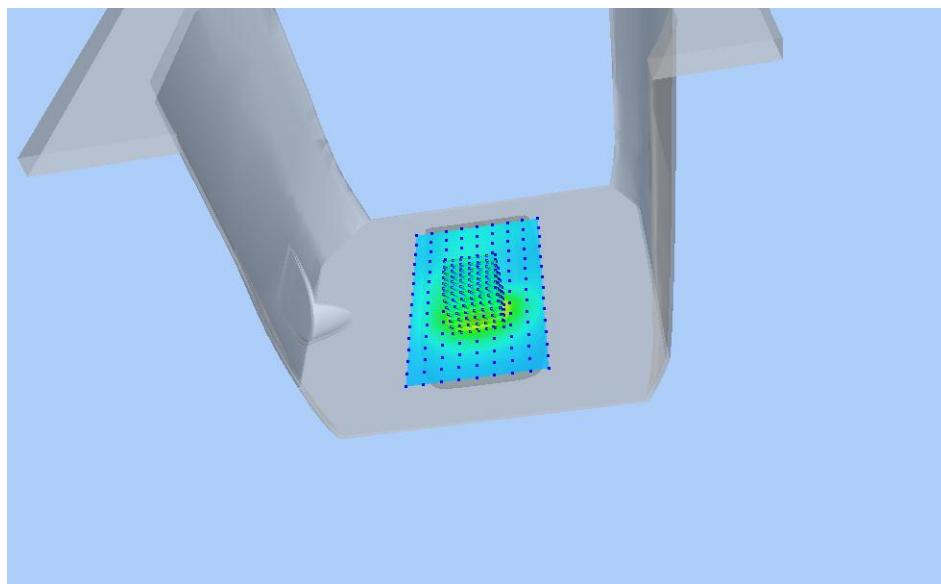
Z Axis Scan



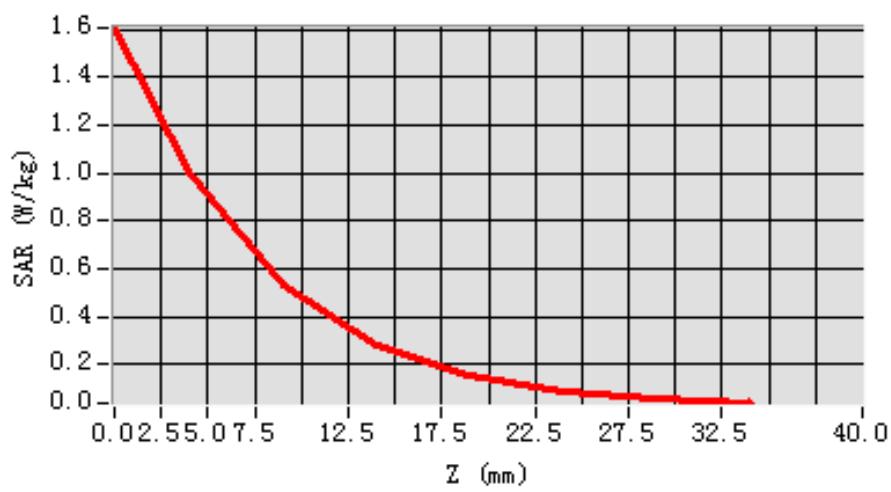
MEAS. 22 Body Plane with Back Side 15mm on High Channel in LTE Band 41

mode with 1RB

Test Date: 16/8/2017
Measurement duration: 16 minutes 59 seconds
Signal: LTE, f=2680.0 MHz, Duty Cycle: 1:1.6
Liquid Parameters: Permittivity: 50.38; Conductivity: 2.26 S/m
Test condition: Ambient Temperature: 22.3°C, Liquid Temperature: 21.3°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.27
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=0.000000, Y=-12.000000
SAR 10g (W/Kg): 0.507616
SAR 1g (W/Kg): 0.951506
Power drift (%): -0.94
3D screen shot

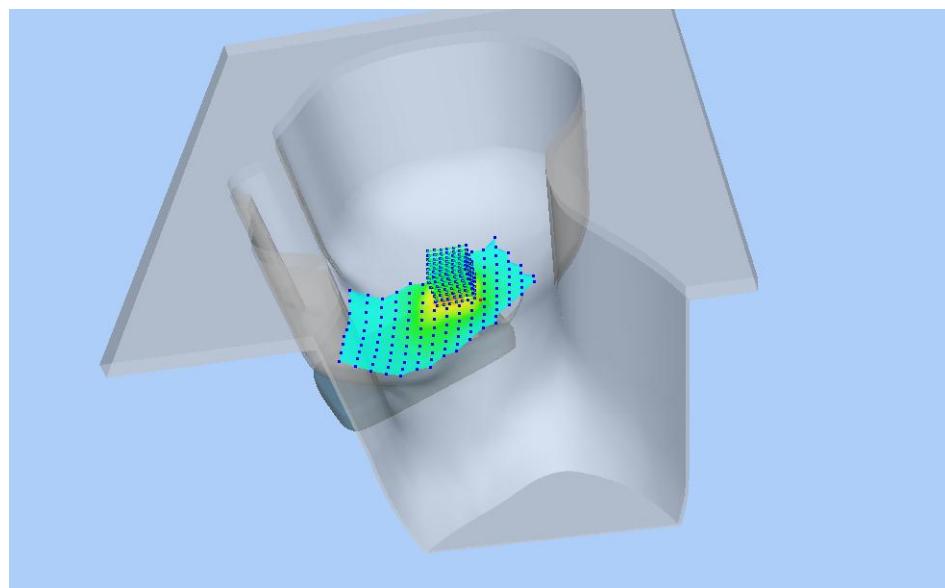


Z Axis Scan

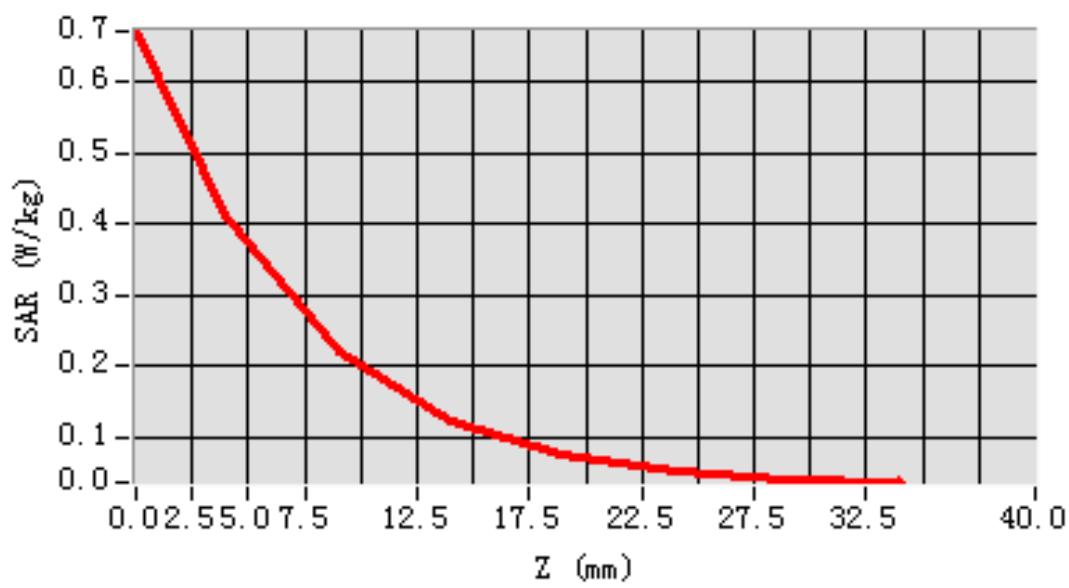


MEAS. 23 Right Head with Cheek on High Channel in IEEE 802.b mode

Test Date: 23/8/2017
Measurement duration: 13 minutes 57 seconds
Signal: WLAN, f=2462.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 38.58; Conductivity: 1.82 S/m
Test condition: Ambient Temperature: 22.7°C, Liquid Temperature: 21.6°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.21
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=-16.000000, Y=14.000000
SAR 10g (W/Kg): 0.210423
SAR 1g (W/Kg): 0.391781
Power drift (%): 0.33
3D screen shot



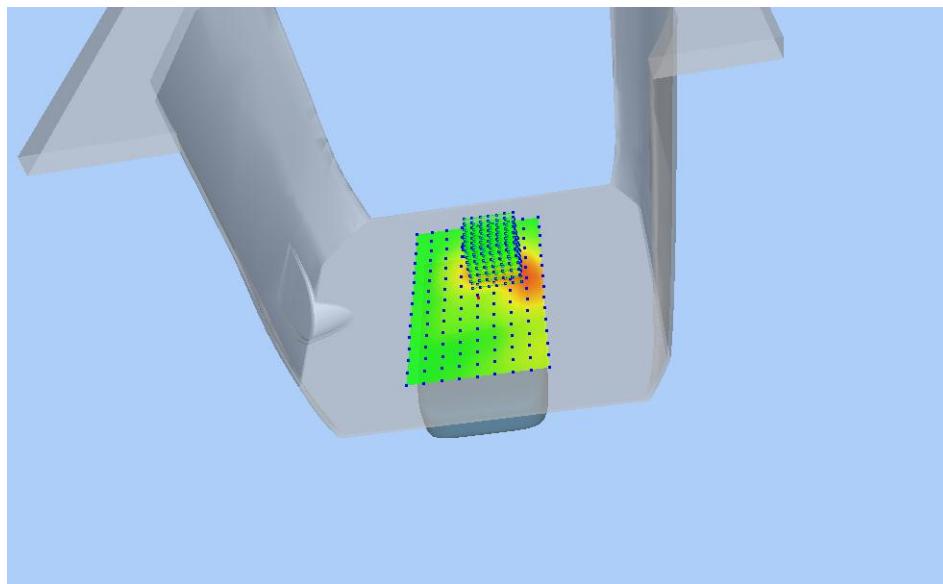
Z Axis Scan



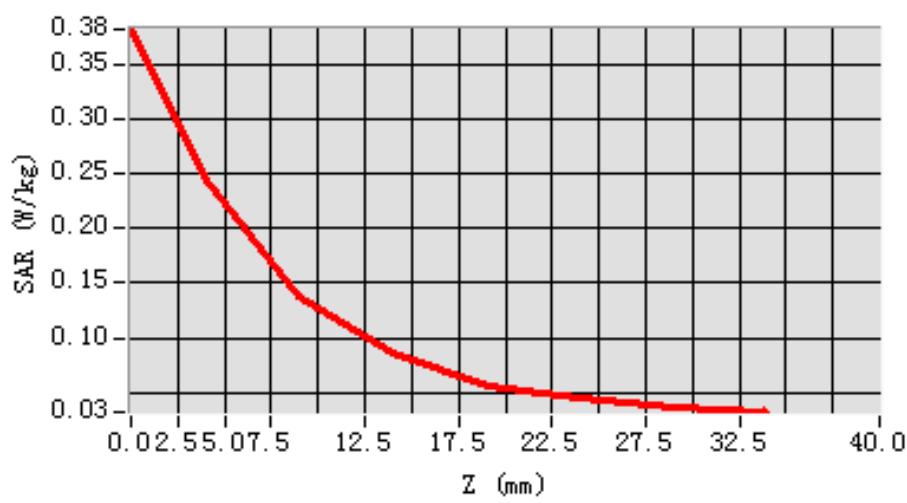
MEAS. 24 Body Plane with Back Side 10mm on High Channel in IEEE 802.b

mode

Test Date: 15/8/2017
Measurement duration: 18 minutes 15 seconds
Signal: WLAN, f=2462.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 50.88; Conductivity: 1.99 S/m
Test condition: Ambient Temperature: 22.0°C, Liquid Temperature: 21.1°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.30
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=20.000000, Y=-2.000000
SAR 10g (W/Kg): 0.138023
SAR 1g (W/Kg): 0.236999
Power drift (%): -2.07
3D screen shot



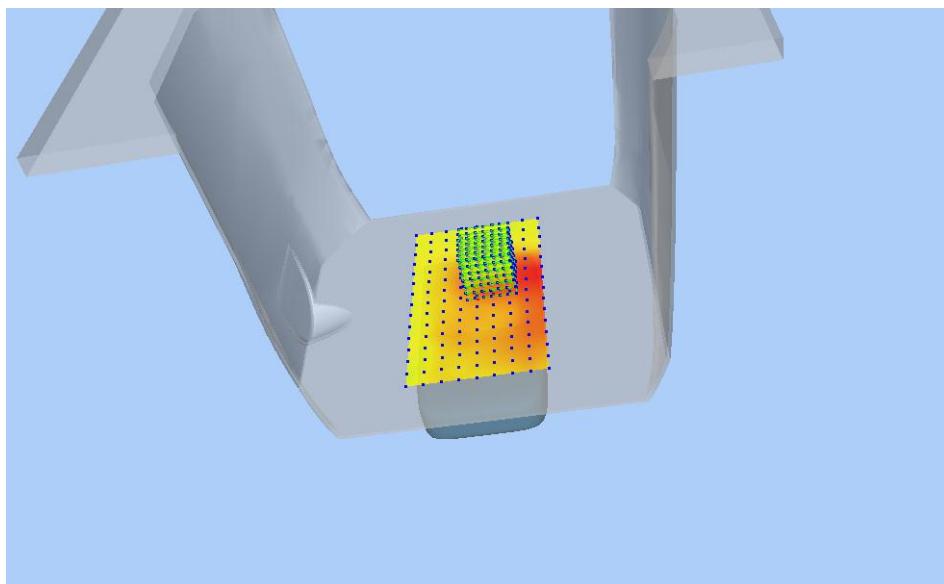
Z Axis Scan



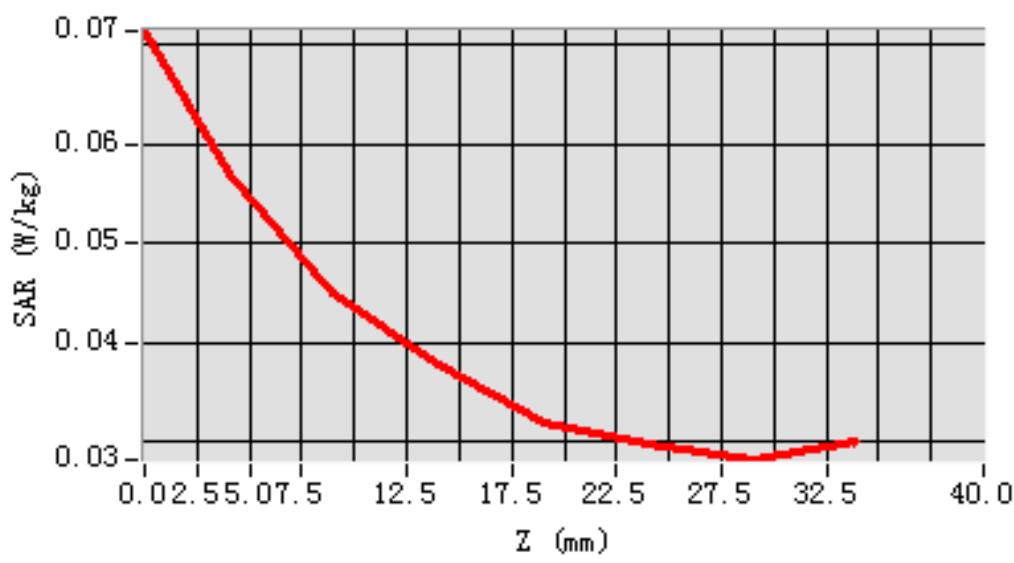
MEAS. 25 Body Plane with Back Side 15mm on Middle Channel in Bluetooth

mode

Test Date: 15/8/2017
Measurement duration: 18 minutes 24 seconds
Signal: Bluetooth, f=2441.0 MHz, Duty Cycle: 1:1.0
Liquid Parameters: Permittivity: 51.32; Conductivity: 1.98 S/m
Test condition: Ambient Temperature: 22.0°C, Liquid Temperature: 21.1°C
Probe: SN 08/16 SSE2 EPGO295, ConvF: 2.30
Area Scan: sam_direct_droit2_surf10mm.txt, h= 5.00 mm
Zoom Scan: 7x7x7,dx=5mm, dy=5mm, dz=5mm,Complete
Maximum location: X=10.000000, Y=8.000000
SAR 10g (W/Kg): 0.038168
SAR 1g (W/Kg): 0.049415
Power drift (%): -1.03
3D screen shot



Z Axis Scan



ANNEX D EUT EXTERNAL PHOTOS

Please refer the document "BL-EC1780083-AW.pdf".

ANNEX E SAR TEST SETUP PHOTOS

Please refer the document "BL- EC1780083-AS.pdf".

ANNEX F CALIBRATION REPORT

Please refer the document "CALIBRATION REPORT.pdf".

--END OF REPORT--