



FCC SAR TEST REPORT

Report No: STS1505041H01

Issued for

ComTrade USA East, Inc.

275 Grove Street Suite 2-400, Newton, Massachusetts US

| Product Name: | Tablet computer |
|----------------|------------------------------|
| Brand Name: | N/A |
| Model No.: | Hero 8_W - Tesla tablet H785 |
| Series Model: | N/A |
| FCC ID: | 2AERW-H785 |
| | ANSI/IEEE Std. C95.1 |
| Test Standard: | FCC 47 CFR Part 2 (2.1093) |
| | IEEE 1528: 2013 |
| Max. SAR (1g): | Body:1.325 W/kg |
| | |

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Test Report Certification

Applicant's name ComTrade USA East, Inc.

Manufacture's Name...... Borgs BeiJing Ltd.

Jiuxiangiao Road, Chaoyang District Beijing, 100015 China

Product description

Product name: Tablet computer

Trademark: N/A

Model and/or type reference : Hero 8_W - Tesla tablet H785

Serial Model: N/A

ANSI/IEEE Std. C95.1-1992

Standards..... FCC 47 CFR Part 2 (2.1093)

IEEE 1528: 2013

The device was tested by Shenzhen STS Test Services Co., Ltd. in accordance with the measurement methods and procedures specified in KDB 865664 The test results in this report apply only to the tested sample of the stated device/equipment. Other similar device/equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Date of Test

Date (s) of performance of tests...... 21 May. 2015

Date of Issue...... 22 May. 2015

Test Result.....

Testing Engineer

(Allen Chen)

Technical Manager:

Authorized Signatory:

(John Zou)

(Bovey Yang)





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1. General Information

1.1 EUT Description

| Equipment | Tablet computer | | | | | | |
|---------------------------|--|--|--|--|--|--|--|
| Brand Name | N/A | | | | | | |
| Model No. | Hero 8_W - Tesla tablet H785 | Hero 8_W - Tesla tablet H785 | | | | | |
| Serial Model | N/A | | | | | | |
| FCC ID | 2AERW-H785 | | | | | | |
| Model Difference | N/A | | | | | | |
| Adapter | Input: AC100-240V,450m A, 50/60 Hz Output: DC 5V, 2000mA | | | | | | |
| Battery | Rated Voltage: 3.8V Charge Limit: 4.35V Capacity: 4450mAh | | | | | | |
| Hardware Version | N/A | | | | | | |
| Software Version | N/A | | | | | | |
| Frequency Range | WLAN 2.4G: 802.11 b/g/n(HT20):2412 MHz to 2462 MHz 802.11 n(HT40):2422 MHz to 2452 MHz WLAN 5G: 802.11a/n(HT20): 5180 MHz to 5240 MHz 802.11n(HT40): 5190 MHz to 5230 MHz | | | | | | |
| Transmit Power(MAX): | 2.4G wifi: 802.11b: 15.55 dBm 802.11g: 14.37 dBm 802.11n(HT20): 13.36 dBm 802.11n(HT40): 11.91 dBm | 5.0G wifi: 802.11a: 14.68 dBm 802.11n(HT20): 13.35 dBm 802.11n(HT40): 12.39 dBm | | | | | |
| Max. Reported SAR(1g): | Body: WIFI 802.11b:1.325 W/kg | | | | | | |
| Operating Mode: | WLAN: 802.11 a/b/g/n; | | | | | | |
| Antenna Specification: | WIFI: PIFA Antenna | | | | | | |
| SIM Card | N/A | | | | | | |
| Hotspot Mode: | Not Support | | | | | | |
| DTM Mode: | Not Support | | | | | | |





1.2 Test Environment

Ambient conditions in the SAR laboratory:

| Items | Required | Actual | | |
|------------------|----------|--------|--|--|
| Temperature (°C) | 18-25 | 22~23 | | |
| Humidity (%RH) | 30-70 | 55~65 | | |

1.3 Test Facility

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F, Building B, Zhuoke Science Park, No. 190, Chongqing Road, Fuyong,

Baoan District, Shenzhen, Guangdong, China

CNAS Registration No.: L7649;

FCC Registration No.: 842334; IC Registration No.: 12108A-1



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2. Test Standards And Limits

| No. | Identity | Document Title |
|-----|-------------------------------------|---|
| 1 | 47 CFR Part 2 | Frequency Allocations and Radio Treaty Matters; General Rules and Regulations |
| 2 | ANSI/IEEE Std. C95.1-1992 | 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 v05r02 | Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies |
| 5 | FCC KDB 865664 D01 v01r03 | SAR Measurement 100 MHz to 6 GHz |
| 7 | FCC KDB 248227 D01 Wi-Fi SAR v02 | SAR Considerations for 802.11 Devices |
| 8 | FCC KDB 616217 D04 | SAR Evaluation Consideration for Laptop, Notobook and Tablet Computer |

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. According to EN 50360 and 1999/519/EC the limit for General Population/Uncontrolled exposure should be applied for this device, it is 2.0 W/kg as averaged over any 10 gram of tissue.

(A). Limits for Occupational/Controlled Exposure (W/kg)

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4 | 8.0 | 20.0 |

(B). Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body Partial-Body Hands, Wrists, Feet and Ankles

0.08 1.6 4.0

NOTE: Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 10 gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

Population/Uncontrolled Environments:

are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure.

Occupational/Controlled Environments:

are defined as locations where there is exposure that may be incurred by people who are aware of the potential for exposure, (i.e. as a result of employment or occupation).

NOTE GENERAL POPULATION/UNCONTROLLED EXPOSURE PARTIAL BODY LIMIT 1.6 W/kg



3. SAR Measurement System

3.1 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:

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

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

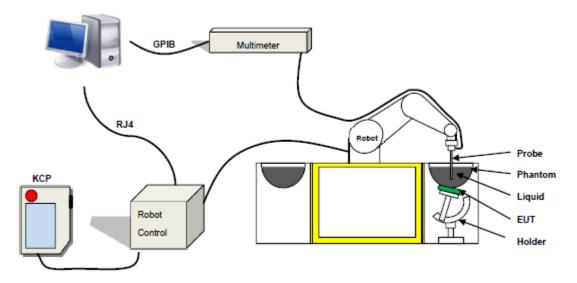
$$SAR = \frac{\sigma E^2}{\rho}$$

Where: σ is the conductivity of the tissue,

 $\boldsymbol{\rho}$ is the mass density of the tissue and E is the RMS electrical field strength.

3.2 SAR System

SATIMO SAR System Diagram:



Comosar is a system that is able to determine the SAR distribution inside a phantom of human being according to different standards. The Comosar system consists of the following items:

- Main computer to control all the system
- 6 axis robot
- Data acquisition system
- Miniature E-field probe
- Phone holder
- Head simulating tissue



The following figure shows the system.



The EUT under test operating at the maximum power level is placed in the phone holder, under the phantom, which is filled with head simulating liquid. The E-Field probe measures the electric field inside the phantom. The OpenSAR software computes the results to give a SAR value in a 1g or 10g mass.

3.2.1 Probe

For the measurements the Specific Dosimetric E-Field Probe SN 17/14 EP221 with following specifications is used

- Dynamic range: 0.01-100 W/kg
- Tip Diameter :5 mm
- Distance between probe tip and sensor center: 2.7mm
- Distance between sensor center and the inner phantom surface: 4 mm (repeatability better than +/- 1mm)
- Probe linearity: < 0.25 dB
- Axial Isotropy: < 0.25 dB
- Spherical Isotropy: < 0.25 dB
- Calibration range: 450MHz to 2600MHz for head & body simulating liquid. Angle between probe axis (evaluation axis) and suface normal line:less than 30°



Figure 1 - Satimo COMOSAR Dosimetric E field Dipole





3.2.2 Phantom

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.





3.2.3 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 \pm 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.4. Tissue Simulating Liquids

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4. Tissue Simulating Liquids

4.1 Simulating Liquids Parameter Check

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations described in Reference [12] and extrapolated according to the head parameters specified in P1528.

LIQUID MEASUREMENT RESULTS

Date: May 21, 2015 Ambient condition: Temperature 22.7°C Relative humidity: 49%

| Body Simulating Liquid | | Parameters | - . | | D : 1: F0/1 | 1: '4 150/3 | |
|------------------------|----------------------|---------------|------------|----------|--------------|-------------|--|
| Frequency | Frequency Temp. [°C] | | Target | Measured | Deviation[%] | Limited[%] | |
| 2450 MHz 2 | 22.30 | Permitivity: | 52.7 | 51.6 | -2.09 | ± 5 | |
| 2430 WII IZ | 22.30 | Conductivity: | 1.95 | 1.93 | -1.03 | ± 5 | |
| 5200 MHz | 22.30 | Permitivity: | 36.0 | 36.0 | -0.83 | ± 5 | |
| | 22.30 | Conductivity: | 4.66 | 4.77 | 2.36 | ± 5 | |



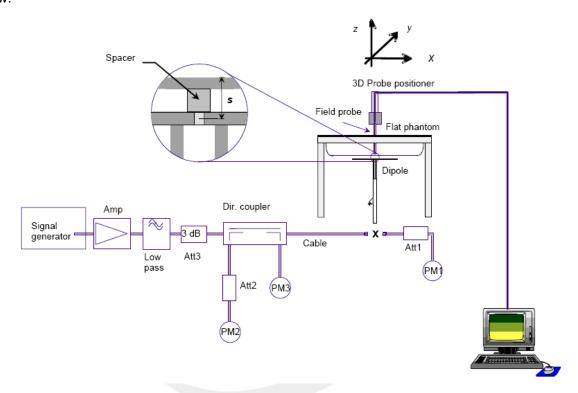


5. SAR System Validation

5.1 Validation System

Each SATIMO 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 kit includes a dipole, and dipole device holder.

The system check verifies that the system operates within its specifications. It's performed daily or before every SAR measurement. The system check uses normal SAR measurement in the flat section of the phantom with a matched dipole at a specified distance. The system validation setup is shown as below.



5.2 Validation Result

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

Ambient condition: Temperature 22.7°C Relative humidity: 49%

| Freq.(MHz) | Power(mW) | Tested Value (W/Kg) | Normalized SAR (W/kg) | Target(W/Kg) | Tolerance(%) | Date |
|------------|-----------|---------------------------|-----------------------------|--------------|--------------|------------|
| 2450 Body | 100 | 4.864 | 48.64 | 52.40 | -2.23 | 2015-05-21 |
| 5200 Body | 100 | 5.540 | 55.40 | 56.90 | -2.64 | 2015-05-21 |

Note: The tolerance limit of System validation ±10%.



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6. SAR Evaluation Procedures

The procedure for assessing the average SAR value consists of the following steps: 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 to 16 mm and a constant distance to the inner surface of the phantom. Since the sensors cannot directly measure at the inner phantom surface, the values between the sensors and the inner phantom surface are extrapolated. With these values the area of the maximum SAR is calculated by an interpolation scheme.
- 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.

Area Scan& Zoom Scan

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 D01v01r01 quoted below.

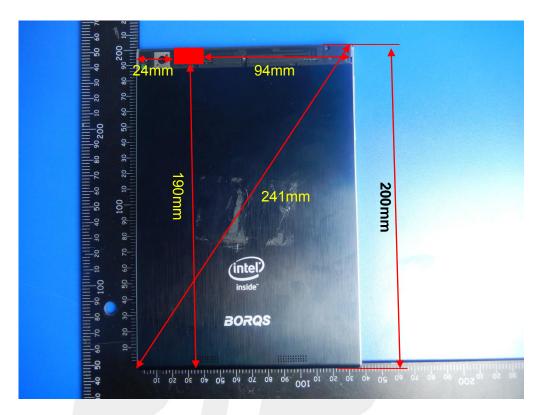
When the 1-g SAR of the highest peak is within 2 dB of the SAR limit, additional zoom scans are required for other peaks within 2 dB of the highest peak that have not been included in any zoom scan to ensure there is no increase in SAR.



7. EUT Antenna Location Sketch

It is a Tablet computer, support wifi mode.

The diagonal dimension is about 241 mm, So test distance is 0mm.





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7.1 SAR Test Exclusion Consider Table

According with FCC KDB 447498 D01v05r02, appendix A, <SAR test exclusion thresholds for 100MHz~6GHz and≤50mm>table, this device SAR test configurations consider as following:

| Band | Test position configurations | | | | | | | | |
|------------|------------------------------|------|------------|-----------|----------|-------------|--|--|--|
| Ballu | Front | Back | Right edge | Left edge | Top edge | Bottom edge | | | |
| \A/I A N I | <5mm | <5mm | 24mm | 94mm | <5mm | 190mm | | | |
| WLAN | Yes | Yes | Yes | No | Yes | 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 D01v05r02, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- per KDB 447498 D01v05r02, standalone SAR test exclusion threshold is applied; if the distance of the antenna to the user is <5mm, 5mm is user to determine SAR exclusion threshold
- 4. per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distance ≤50mm are determined by:

[(max.power of channel, including tune-up tolerance, Mw)/(min. test separation distance, mm)]*[$\sqrt{f(GHZ)}$) \leq 3.0 for 1-g SAR and \leq 7.5 for10-g extremity SAR

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

For <50mm distance, we just calculate mW of the exclusion threshold value(3.0)to do compare

- per KDB 447498 D01v05r02, at 100 MHz to 6GHz and for test separation distances >50mm, the SAR test exclusion threshold is determined according to the following a)[threshold at 50mm in step 1]+(test separation distance -50mm)*(f (MHz)/150)]Mw, at 100 MHz to 1500 MHz
 - b) [threshold at 50mm in step1]+(test separation distance -50mm) *10]mW at \geq 1500MHz and \leq 6GHz
- 6. Per KDB 248227 D01v01r02, choose the highest output power channel to test SAR and determine futher SAR exclusion 8.for each frequency band, testing at higher data rates and higher order modulations is not required when the maximum average output power for each of each of these configurations is less than 1/4db higher than those measured at the lower data rate than 11b mode, thus the SAR can be excluded.

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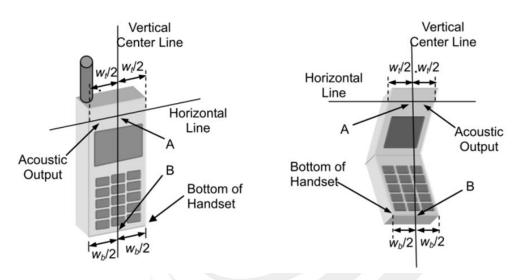


8. EUT Test Position

This EUT was tested in Right Cheek, Right Titled, Left Cheek, Left Titled, Front Face and Rear Face.

8.1 Define Two Imaginary Lines On The Handset

- (1)The vertical centerline passes through two points on the front side of the handset the midpoint of the width wt of the handset at the level of the acoustic output, and the midpoint of the width wb of the handset.
- (2) 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.
- (3)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 to the front face of the handset, especially for clamshell handsets, handsets with flip covers, and other irregularly shaped handsets.



Cheek Position

- 1)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 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.
- 2)To move the device towards the phantom with the ear piece aligned with the the line LE-RE until the phone touched the ear. While maintaining the device in the reference plane and maintaining the phone contact with 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



Title Position

- (1)To position the device in the "cheek" position described above.
- (2) While maintaining the device in 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 with the ear is lost.

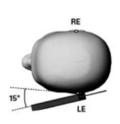


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- Body Position Conditions
 (1) To position the EUT parallel to the phantom surface.
 (2) To adjust the EUT parallel to the flat phantom.
 (3) To adjust the distance between the EUT surface and the flat phantom to 5mm.







9. Uncertainty

9.1 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in IEEE 1528: 2003. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| NO | Source | Tol(%) | Prob. Dist. | Div. k | ci (1g) | ci (10g) | 1gUi | 10gUi | Veff | | |
|--------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|--|
| Meas | Measurement System | | | | | | | | | | |
| 1 | Probe calibration | 5.8 | Ν | 1 | 1 | 1 | 5.8 | 5.8 | 8 | | |
| 2 | Axial isotropy | 3.5 | R | √3 | (1-cp) ^{1/2} | (1-cp) ^{1/2} | 1.43 | 1.43 | ∞ | | |
| 3 | Hemispherical isotropy | 5.9 | R | √3 | √Cp | √Cp | 2.41 | 2.41 | ∞ | | |
| 4 | Boundary effect | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | 8 | | |
| 5 | Linearity | 4.7 | R | √3 | 1 | 1 | 2.71 | 2.71 | ∞ | | |
| 6 | System Detection limits | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | ∞ | | |
| 7 | Readout electronics | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | 80 | | |
| 8 | Response time | 0 | R | √3 | 1 | 1 | 0 | 0 | 8 | | |
| 9 | Integration time | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | | |
| 10 | Ambient noise | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | ∞ | | |
| 11 | Ambient reflections | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | ∞ | | |
| 12 | Probe positioner mech. restrictions | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | ∞ | | |
| 13 | Probe positioning with respect to phantom shell | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 80 | | |
| 14 | Max.SAR evaluation | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | ∞ | | |
| Test s | Test sample related | | | | | | | | | | |



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|-------|------------------------------|-----|--------------------|---|------|------------------------|--------|--------|-----|
| | Γ | | | 1 | | T | Т | T | 1 1 |
| 15 | Device positioning | 2.6 | N | 1 | 1 | 1 | 2.6 | 2.6 | 11 |
| 16 | Device holder | 3 | N | 1 | 1 | 1 | 3.0 | 3.0 | 7 |
| 17 | Drift of output power | 5.0 | R | √3 | 1 | 1 | 2.89 | 2.89 | 8 |
| Phant | om and set-up | | | | | | | | |
| 18 | Phantom uncertainty | 4.0 | R | √3 | 1 | 1 | 2.31 | 2.31 | 8 |
| 19 | Liquid conductivity (target) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 5 |
| 20 | Liquid conductivity (meas) | 4 | N | 1 | 0.23 | 0.26 | 0.92 | 1.04 | 5 |
| 21 | Liquid Permittivity (target) | 2.5 | N | 1 | 0.78 | 0.71 | 1.95 | 1.78 | 8 |
| 22 | Liquid Permittivity (meas) | 5.0 | N | 1 | 0.23 | 0.26 | 1.15 | 1.30 | 8 |
| Comb | Combined standard RSS | | RSS | $U_C = \sqrt{\sum_{i=1}^n C_i^2 U_i^2}$ | | | 10.63% | 10.54% | |
| | Expanded uncertainty (P=95%) | | | U = k U_C ,k=2 | | | 21.26% | 21.08% | |



9.2 System validation Uncertainty

| • | | | | | | | | | | | |
|--------|---|--------|----------------|-----------|-----------------------|-----------------------|------|-------|------|--|--|
| NO | Source | Tol(%) | Prob. Dist. | Div. k | ci (1g) | ci (10g) | 1gUi | 10gUi | Veff | | |
| Meas | Measurement System | | | | | | | | | | |
| 1 | Probe calibration | 5.8 | N | 1 | 1 | 1 | 5.8 | 5.8 | 8 | | |
| 2 | Axial isotropy | 3.5 | R | √3 | (1-cp) ^{1/2} | (1-cp) ^{1/2} | 1.43 | 1.43 | 8 | | |
| 3 | Hemispherical isotropy | 5.9 | R | √3 | √Cp | √Cp | 2.41 | 2.41 | 80 | | |
| 4 | Boundary effect | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | 80 | | |
| 5 | Linearity | 4.7 | R | √3 | 1 | 1 | 2.71 | 2.71 | 8 | | |
| 6 | System Detection limits | 1.0 | R | √3 | 1 | 1 | 0.58 | 0.58 | 80 | | |
| 7 | Modulation response | 0 | N | 1 | 1 | 1 | 0 | 0 | 8 | | |
| 8 | Readout electronics | 0.5 | N | 1 | 1 | 1 | 0.50 | 0.50 | 8 | | |
| 9 | Response time | 0 | R | √3 | 1 | 1 | 0 | 0 | 8 | | |
| 10 | Integration time | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 80 | | |
| 11 | Ambient noise | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | 8 | | |
| 12 | Ambient reflections | 3.0 | R | √3 | 1 | 1 | 1.73 | 1.73 | 8 | | |
| 13 | Probe positioner mech. restrictions | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | | |
| 14 | Probe positioning with respect to phantom shell | 1.4 | R | √3 | 1 | 1 | 0.81 | 0.81 | 8 | | |
| 15 | Max.SAR evaluation | 1.0 | R | √3 | 1 | 1 | 0.6 | 0.6 | 8 | | |
| Dipole | • | | | • | | | • | | | | |
| 16 | Deviation of experimental source from | 4 | N | 1 | 1 | 1 | 4.00 | 4.00 | 8 | | |



Page 20 of 47 Report No.: STS1505041H01 Input power and 17 SAR drit 5 R √3 1 1 2.89 2.89 ∞ measurement Dipole Axis to √3 ∞ 18 2 R 1 1 liquid Distance Phantom and set-up Phantom 19 4.0 R √3 2.31 2.31 1 1 ∞ uncertainty Uncertainty in SAR correction for 20 2.0 1 1 0.84 2 1.68 Ν ∞ deviation(in Liquid conductivity 21 2 1 0.84 2.00 1.68 Ν 1 (target) Liquid conductivity 22 1 0.78 (temperature 2.5 Ν 0.71 1.95 1.78 5 uncertainty) Liquid conductivity 23 4 N 0.23 0.26 0.92 1.04 5 (meas) Liquid Permittivity 24 2.5 Ν 0.78 0.71 1.95 1.78 (target) Liquid Permittivity 25 (temperature 2.5 Ν 0.78 0.71 1.95 1.78 5 uncertainty) Liquid Permittivity 1 ∞ 26 5.0 N 0.23 0.26 1.15 1.30 (meas) $U_{C} = \sqrt{\sum_{i=1}^{n} C_{i}^{2} U_{i}^{2}}$ Combined standard **RSS** 10.15% 10.05% Expanded uncertainty U = k $U_{\scriptscriptstyle C}$,k=2 21.29% 21.10% (P=95%)



10. Conducted Power Measurement

WIFI 2.4G power

| Mode | Channel Number | Frequency (MHz) | Peak Power (dBm) |
|---------------|-------------------|--------------------|---------------------|
| | 1 | 2412 | 15.55 |
| 802.11b | 6 | 2437 | 15.43 |
| | 11 | 2462 | 15.39 |
| | 1 | 2412 | 14.33 |
| 802.11g | 6 | 2437 | 14.37 |
| | 11 | 2462 | 14.22 |
| | 1 | 2412 | 13.14 |
| 802.11n(HT20) | 6 | 2437 | 13.36 |
| | 11 | 2462 | 13.23 |
| | 3 | 2422 | 11.58 |
| 802.11n(HT40) | 6 | 2437 | 11.79 |
| | 11 | 2452 | 11.91 |

5.2G power

| Mode | Channel Number | Frequency (MHz) | Peak Power (dBm) |
|----------------|-------------------|--------------------|---------------------|
| 802.11a | 36 | 5180 | 14.68 |
| 002.11a | 48 | 5240 | 14.52 |
| 802.11n(HT20) | 36 | 5180 | 13.35 |
| 002.1111(1120) | 48 | 5240 | 13.26 |
| 802.11n(HT40) | 36 | 5190 | 12.36 |
| 002.1111(1140) | 48 | 5230 | 12.39 |

Justification for test configurations for WLAN per KDB Publication 248227 D01Wi-Fi SAR v02:

- 1. Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- 2. For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- 3. For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- 4. For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported.
- 5. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.
- 6. The bolded data rate and channel above were tested for SAR.





Turn Power

| Mode | WIFI 2.4G |
|---------------|-----------|
| IEEE 802.11b | 15.0±1 |
| IEEE 802.11g | 14.0±1 |
| 802.11n(HT20) | 13.0±1 |
| 802.11n(HT40) | 11.0±1 |

| Mode | WIFI 5.2G |
|---------------|-----------|
| 802.11a | 14.0±1 |
| 802.11n(HT40) | 13.0±1 |
| 802.11n(HT40) | 12.0±1 |







11. EUT And Test Setup Photo

11.1 EUT Photo

Front side



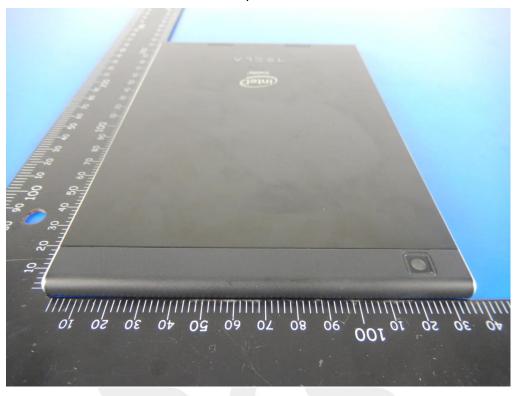
Back side



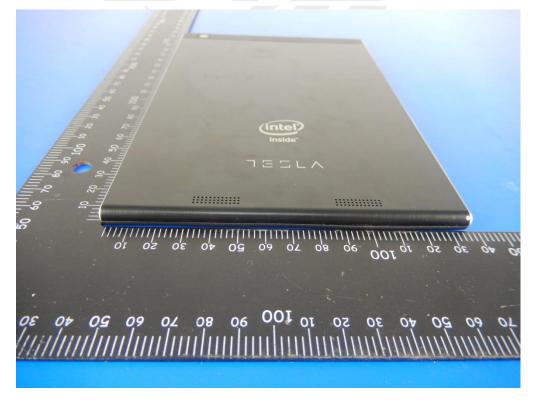




Top side



Bottom side



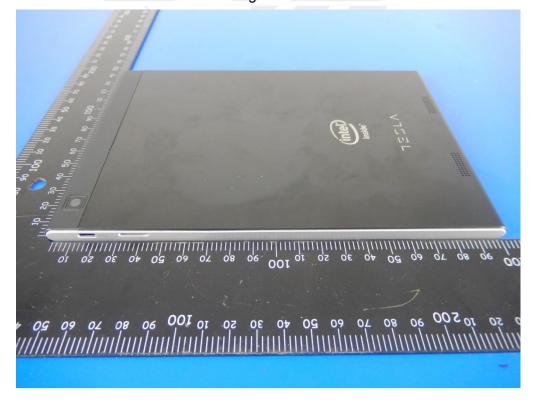




Left side



Right side





11.2 Setup Photo

Body Front side

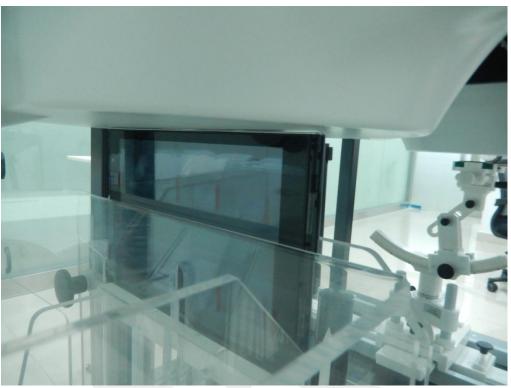


Body Back side





Body right side



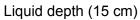
Body top side













Report No.: STS1505041H01



12. SAR Result Summary

Body (0mm between DUT and Phantom)

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Duty cycle(%) | Scaled SAR (W/Kg) | Meas. No. |
|-------|---------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|------------------|-------------------------|--------------|
| | | Front | CH 36 | 0.204 | -4.43 | 15 | 14.68 | 100 | 0.220 | 1 |
| | 902 110 | Back | CH 36 | 0.768 | 2.68 | 15 | 14.68 | 100 | 0.827 | 2 |
| | 802.11a | Right | CH 36 | 0.063 | -3.30 | 15 | 14.68 | 100 | 0.068 | 3 |
| | | Тор | CH 36 | 0.197 | -0.16 | 15 | 14.68 | 100 | 0.212 | 4 |
| WIFI | | Front | CH 1 | 0.446 | 0.11 | 16 | 15.55 | 100 | 0.495 | 5 |
| VVIFI | | Back | CH 1 | 1.163 | 4.27 | 16 | 15.55 | 100 | 1.290 | 6 |
| | 802.11b | Back | CH 6 | 1.162 | 4.76 | 16 | 15.43 | 100 | 1.325 | 8 |
| | 002.110 | Back | CH 11 | 1.147 | 1.09 | 16 | 15.39 | 100 | 1.320 | 9 |
| | | Right | CH 1 | 0.063 | -1.57 | 16 | 15.55 | 100 | 0.070 | 10 |
| | | Тор | CH 1 | 0.328 | 1.21 | 16 | 15.55 | 100 | 0.364 | 11 |

Note:

- 1. The value with block color is the maximum Reported SAR Value of each test band.
- 2. Per FCC KDB Publication 447498 D01, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is optional for such test configuration(s).
- 3. Per KDB 248227-When the reported SAR of the highest measured maximum output power channel (section 3.1) for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration, When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing
- 4. Per KDB 248227-SAR is measured using the highest measured maximum output power channel for the initial test configuration.
- 5. Per KDB 248227- 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 ≤ 1.2 W/kg. (2.4G WIFI: The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 1.010 W/Kg for Body/Hotspot; 5G WIFI: The highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power was 0.609 W/Kg for Body/Hotspot)

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Repeated SAR

| Band | Mode | Test Position | Channel | Result 1g (W/Kg) | Power Drift(%) | Max.Turn-up Power(dBm) | Meas.Output Power(dBm) | Duty cycle(%) | Scaled SAR (W/Kg) | Meas. No. |
|------|---------|------------------|---------|---------------------|-------------------|---------------------------|---------------------------|------------------|-------------------------|--------------|
| WIFI | 802.11b | Back | CH1 | 1.128 | 0.61 | 16 | 15.55 | 100 | 1.251 | 7 |

12.3 repeated SAR measurement

| 1210 10pou | o repeated of the medical ement | | | | | | | | |
|------------|---------------------------------|------------------|---------|---|----------------------------|-------|---|---------------------------|-------|
| Band | Mode | Test Position | Channel | Original Measured SAR 1g(mW/g) | 1 st Repeated SAR 1g | Ratio | Original Measured SAR 1g(mW/g) | 2nd Repeated SAR 1g | Ratio |
| WIFI | 802.11b | Back | CH1 | 1.163 | 1.128 | 1.03 | - | - | - |

Note:

- 1. Per KDB 865664 D01V01,for each frequency band ,repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg.
- 2. Per KDB 865664 D01V01,if the ratio of largest to smallest SAR for the original and first repeated measurement is ≤1.2and the measured SAR<1.45W/Kg, only one repeated measurement is required.
- 3. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is >1.20 or when the original or repeated measurement is ≥ 1.45W/Kg
- Perform a third repeated measurement only if the original, first or second repeated measurement is ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20W/kg
- 5. The ratio is the difference in percentage between original and repeated measured SAR.





13. Equipment List

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last Calibration | Calibrated Until |
|----------------------|--------------|---|--------------------------|------------------|------------------|
| 2450MHzDipole | SATIMO | SID2450 | SN 30/14 DIP2G450-335 | 2014.09.01 | 2015.08.31 |
| 5200MHzDipole | SATIMO | SWG5500 | SN 13/14 WGA32 | 2014.09.01 | 2015.08.31 |
| E-Field Probe | SATIMO | SSE5 | SN 17/14 EP221 | 2014.09.01 | 2015.08.31 |
| E-Field Probe | SATIMO | SSE2 | SN 17/14 EPG214 | 2014.09.01 | 2015.08.31 |
| Antenna | SATIMO | ANTA3 | SN 07/13 ZNTA52 | 2014.09.01 | 2015.08.31 |
| Phantom1 | SATIMO | SAM | SN 32/14 SAM115 | 2014.09.01 | 2015.08.31 |
| Phantom2 | SATIMO | SAM | SN 32/14 SAM116 | 2014.09.01 | 2015.08.31 |
| SAR TEST BENCH | SATIMO | GSM and WCDMA mobile phone POSITIONNIN G SYSTEM | SN 32/14 MSH97 | 2014.09.01 | 2015.08.31 |
| SAR TEST BENCH | SATIMO | LAPTOP POSITIONNIN G SYSTEM | SN 32/14 LSH29 | 2014.09.01 | 2015.08.31 |
| Dielectric Probe Kit | SATIMO | SCLMP | SN 32/14 OCPG52 | 2014.09.01 | 2015.08.31 |
| Multi Meter | Keithley | Multi Meter 2000 | 4050073 | 2014.11.20 | 2015.11.19 |
| Signal Generator | Agilent | N5182A | MY50140530 | 2014.11.18 | 2015.11.17 |
| Power Meter | R&S | NRP | 100510 | 2014.10.25 | 2015.10.24 |
| Power Sensor | R&S | NRP-Z11 | 101919 | 2014.10.24 | 2015.10.23 |
| Network Analyzer | Agilent | 5071C | EMY46103472 | 2014.12.12 | 2015.12.11 |



Appendix A. System Validation Plots

System Performance Check Data (2450MHz Body)

Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

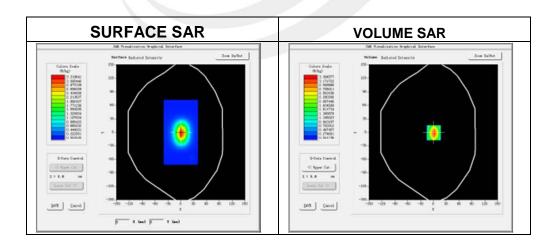
Zoom scan resolution: dx=8mm, dy=8mm, dz=5mm

Date of measurement: 2015-05-21

Measurement duration: 14 minutes 23 seconds

Experimental conditions.

| Device Position | Validation plane | | |
|-----------------------------------|------------------|--|--|
| Band | 2450 MHz | | |
| Channels | - | | |
| Signal | CW | | |
| Frequency (MHz) | 2450 | | |
| Relative permittivity (real part) | 39.226002 | | |
| Relative permittivity | 12.930000 | | |
| Conductivity (S/m) | 1.95 | | |
| Power drift (%) | -1.200000 | | |
| Ambient Temperature | 22.7°C | | |
| Liquid Temperature | 22.3°C | | |
| Probe | SN 17/14 EP221 | | |
| ConvF | 4.25 | | |
| Crest factor: | 1:1 | | |

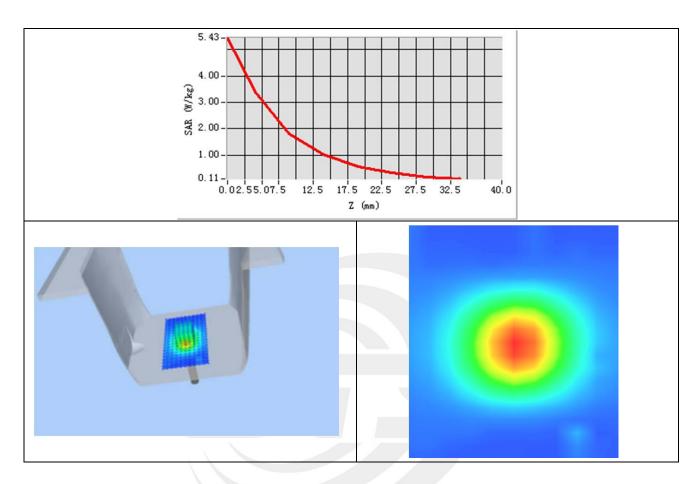


Maximum location: X=3.00, Y=1.00

| SAR 10g (W/Kg) | 2.156894 |
|----------------|----------|
| SAR 1g (W/Kg) | 4.864392 |



Z Axis Scan





System Performance Check Data(5200MHz Body)

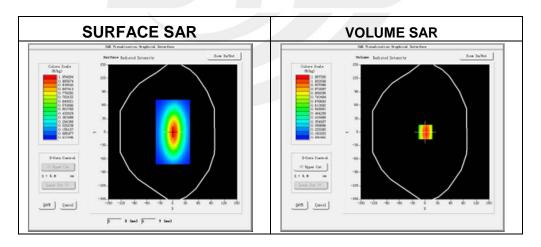
Type: Phone measurement (Complete)
Area scan resolution: dx=8mm,dy=8mm

Zoom scan resolution: 4x4x2,dx=4mm dy=4mm dz=2mm,

Date of measurement: 2015-05-21

Experimental conditions.

| Device Position | Validation plane | | |
|-----------------------------------|------------------|--|--|
| Band | 5200 MHz | | |
| Channels | ı | | |
| Signal | CW | | |
| Frequency (MHz) | 5200 | | |
| Relative permittivity (real part) | 36.640002 | | |
| Relative permittivity (imaginary) | 16.250000 | | |
| Conductivity (S/m) | 4.965278 | | |
| Power drift (%) | 4.140000 | | |
| Ambient Temperature | 22.7°C | | |
| Liquid Temperature | 22.3°C | | |
| Probe | SN 17/14 EGP214 | | |
| ConvF | 16.88 | | |
| Crest factor: | 1:1 | | |

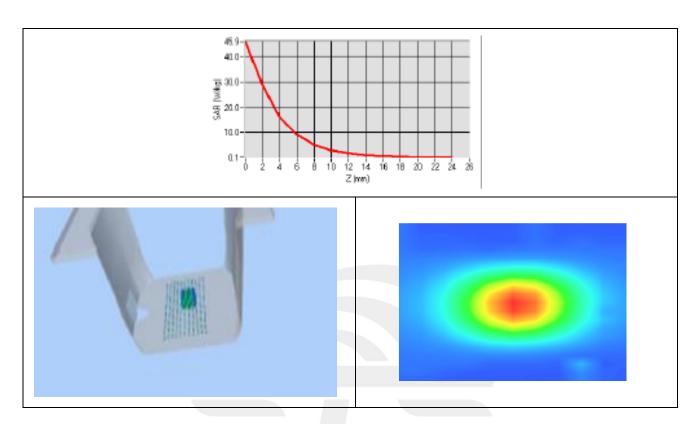


Maximum location: X=7.00, Y=2.00

| SAR 10g (W/Kg) | 5.643525 |
|----------------|-----------|
| SAR 1g (W/Kg) | 15.862541 |



Z Axis Scan





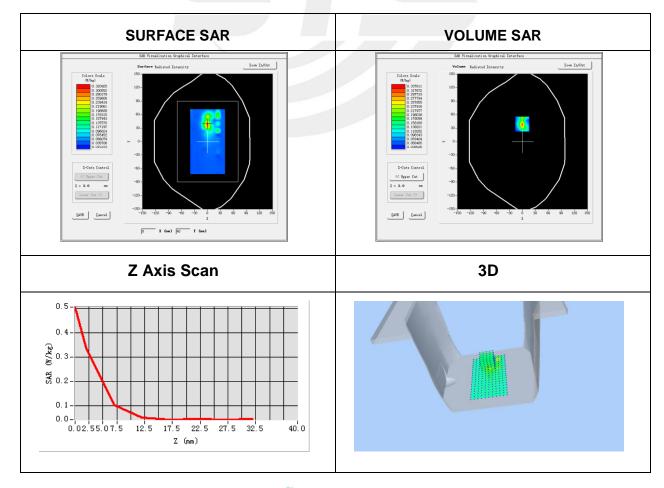
Appendix B. SAR Test Plots

Plot 1: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EGP214 |
| 17.36 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 4x4x2,dx=4mm dy=4mm dz=2mm, Complete/ndx=4mm dy=4mm, h= 2.00 mm |
| Validation plane |
| Body Front |
| IEEE 802.11a ISM |
| Low |
| IEEE802.a (Crest factor: 1.0) |
| 5180 |
| 35.65 |
| 4.97 |
| -4.43 |
| |

Maximum location: X=-1.00, Y=39.00 SAR Peak: 0.50 W/kg

| SAR 10g (W/Kg) | 0.084319 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.204368 |



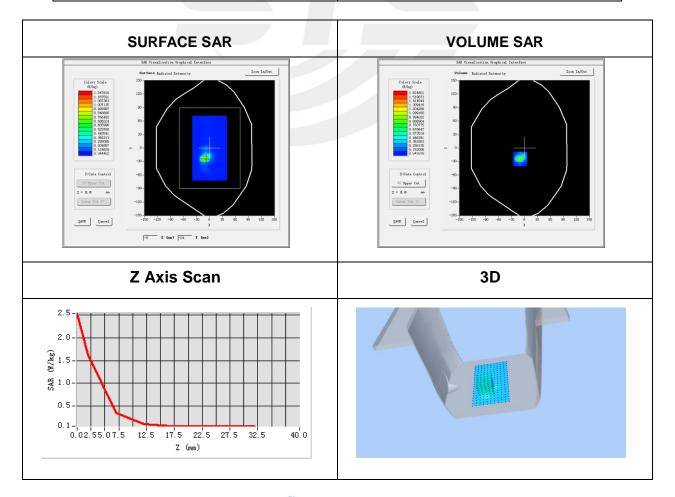


Plot 2: DUT: Tablet computer ; EUT Model: Hero 8_W - Tesla tablet H785

| <u> </u> | . |
|-----------------------------------|--|
| Test Data | 2015-5-21 |
| Probe | SN 17/14 EGP214 |
| ConvF | 17.36 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 4x4x2,dx=4mm dy=4mm dz=2mm, Complete/ndx=4mm dy=4mm, h= 2.00 mm |
| Phantom | Validation plane |
| Device Position | Body back |
| Band | IEEE 802.11a ISM |
| Channels | Low |
| Signal | IEEE802.a (Crest factor: 1.0) |
| Frequency (MHz) | 5180 |
| Relative permittivity (real part) | 35.65 |
| Conductivity (S/m) | 4.97 |
| Variation (%) | 2.68 |

Maximum location: X=-10.00, Y=-24.00 SAR Peak: 2.44 W/kg

| SAR 10g (W/Kg) | 0.188339 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.768251 |



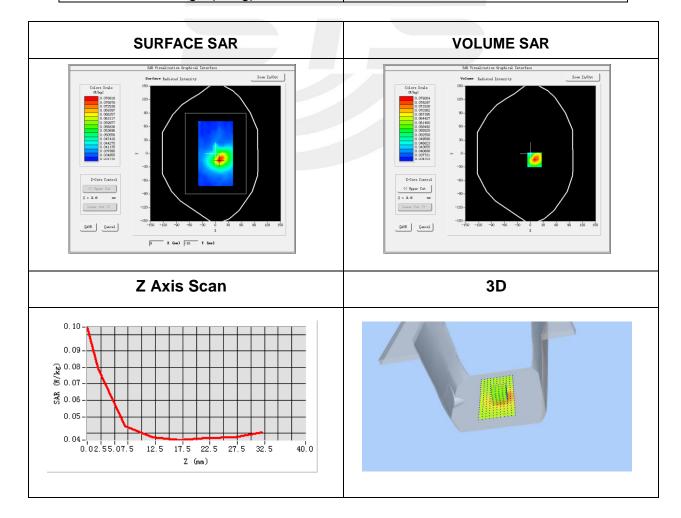


Plot 3: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| Test Data | 2015-5-21 |
|-----------------------------------|--|
| Probe | SN 17/14 EGP214 |
| ConvF | 17.36 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 4x4x2,dx=4mm dy=4mm dz=2mm, Complete/ndx=4mm dy=4mm, h= 2.00 mm |
| Phantom | Validation plane |
| Device Position | Body right |
| Band | IEEE 802.11a ISM |
| Channels | Low |
| Signal | IEEE802.a (Crest factor: 1.0) |
| Frequency (MHz) | 5180 |
| Relative permittivity (real part) | 35.65 |
| Conductivity (S/m) | 4.97 |
| Variation (%) | -3.30 |

Maximum location: X=9.00, Y=-14.00 SAR Peak: 0.10 W/kg

| SAR 10g (W/Kg) | 0.045510 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.063141 |



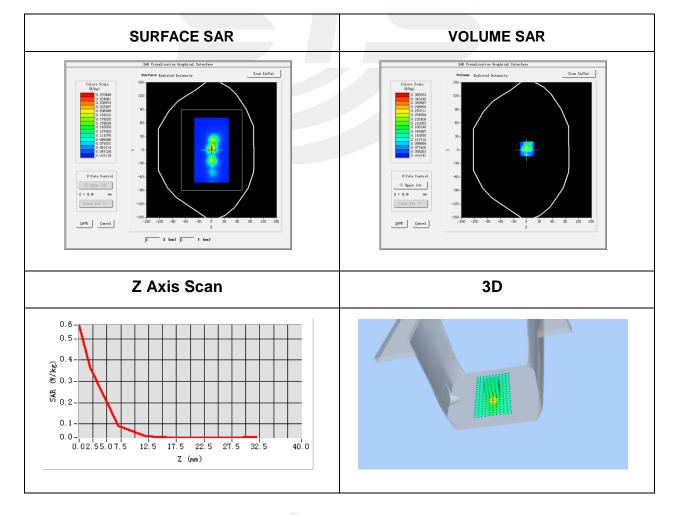


Plot 4: DUT: Tablet computer; EUT Model: Hero 8 W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EGP214 |
| 17.36 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 4x4x2,dx=4mm dy=4mm dz=2mm, Complete/ndx=4mm dy=4mm, h= 2.00 mm |
| Validation plane |
| Body top |
| IEEE 802.11a ISM |
| Low |
| IEEE802.a (Crest factor: 1.0) |
| 5180 |
| 35.65 |
| 4.97 |
| -0.16 |
| |

Maximum location: X=1.00, Y=3.00 SAR Peak: 0.54 W/kg

| SAR 10g (W/Kg) | 0.072219 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.196609 |



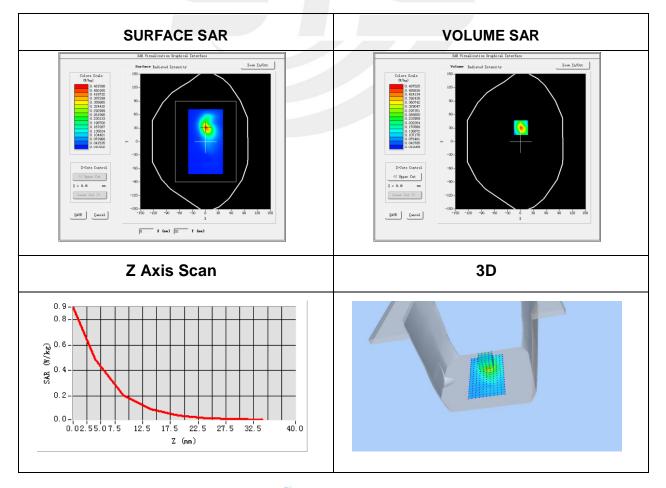


Plot 5: DUT: Tablet computer; EUT Model: Hero 8 W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body Front |
| IEEE 802.11b ISM |
| Low |
| IEEE802.b (Crest factor: 1.0) |
| 2412 |
| 39.22 |
| 1.78 |
| 0.11 |
| |

Maximum location: X=1.00, Y=31.00 SAR Peak: 0.89 W/kg

| SAR 10g (W/Kg) | 0.188212 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.445997 |



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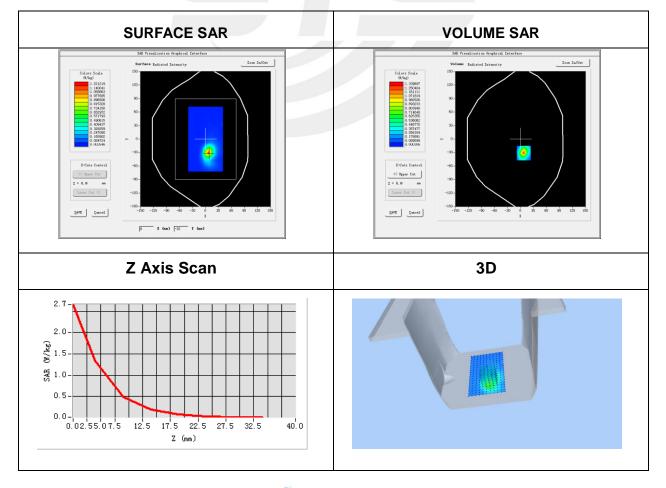


Plot 6: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| = |
|--|
| 2015-5-21 |
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body back |
| IEEE 802.11b ISM |
| Low |
| IEEE802.b (Crest factor: 1.0) |
| 2412 |
| 39.22 |
| 1.78 |
| 4.27 |
| |

Maximum location: X=7.00, Y=-31.00 SAR Peak: 2.63 W/kg

| SAR 10g (W/Kg) | 0.402240 |
|----------------|----------|
| SAR 1g (W/Kg) | 1.162993 |



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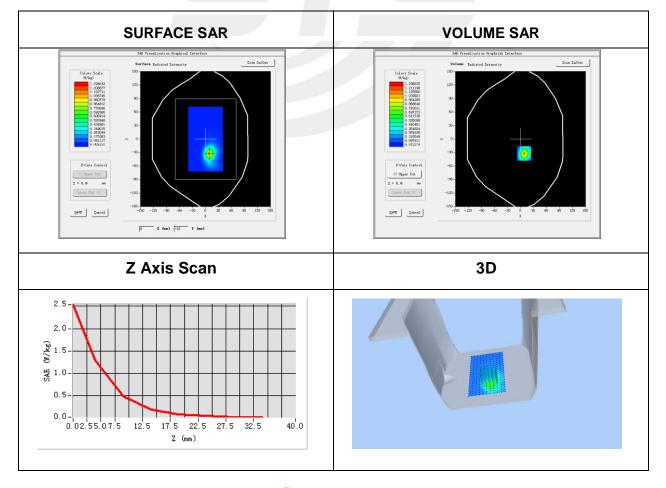


Plot 7: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body back-repeated |
| IEEE 802.11b ISM |
| Low |
| IEEE802.b (Crest factor: 1.0) |
| 2412 |
| 39.22 |
| 1.78 |
| 0.61 |
| |

Maximum location: X=8.00, Y=-32.00 SAR Peak: 2.50 W/kg

| SAR 10g (W/Kg) | 0.398569 |
|----------------|----------|
| SAR 1g (W/Kg) | 1.128376 |



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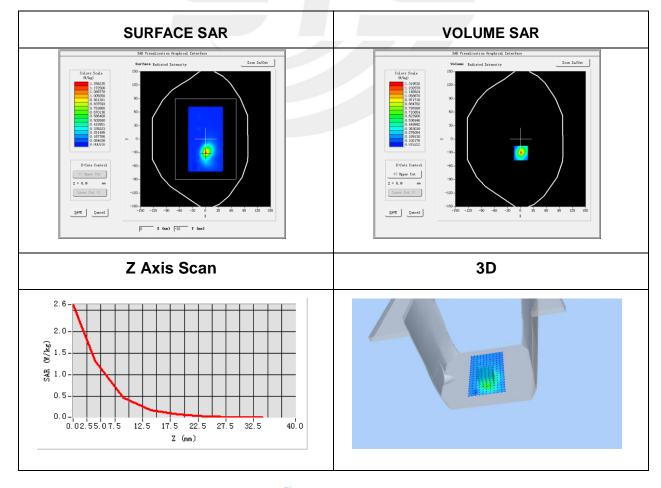


Plot 8: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body back |
| IEEE 802.11b ISM |
| Middle |
| IEEE802.b (Crest factor: 1.0) |
| 2437 |
| 39.22 |
| 1.78 |
| 4.76 |
| |

Maximum location: X=1.00, Y=-31.00 SAR Peak: 2.60 W/kg

| SAR 10g (W/Kg) | 0.404261 |
|----------------|----------|
| SAR 1g (W/Kg) | 1.161827 |



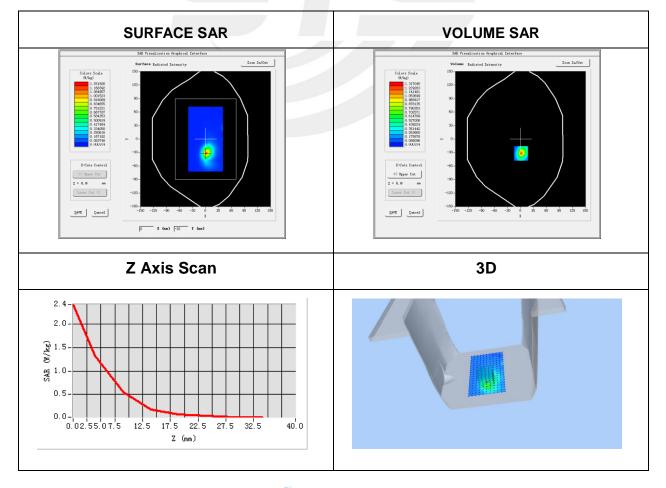


Plot 9: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| 2015-5-21 |
|--|
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body back |
| IEEE 802.11b ISM |
| High |
| IEEE802.b (Crest factor: 1.0) |
| 2462 |
| 39.22 |
| 1.78 |
| 1.09 |
| |

Maximum location: X=1.00, Y=-32.00 SAR Peak: 2.44 W/kg

| SAR 10g (W/Kg) | 0.400682 |
|----------------|----------|
| SAR 1g (W/Kg) | 1.147185 |



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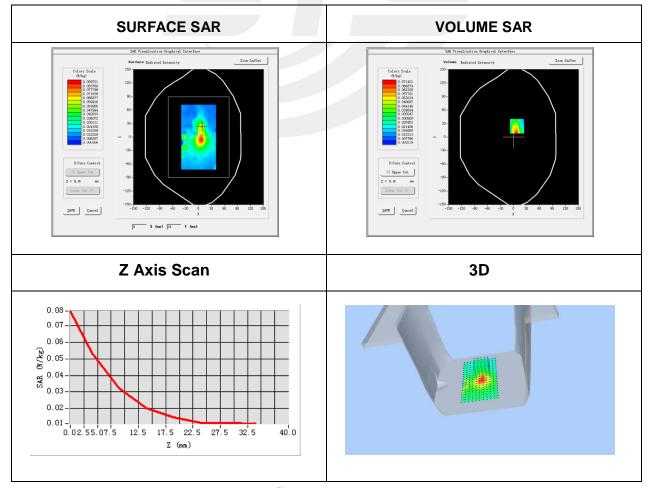


Plot 10: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

| _ |
|--|
| 2015-5-21 |
| SN 17/14 EP221 |
| 4.25 |
| dx=8mm dy=8mm, h= 5.00 mm |
| 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Validation plane |
| Body right |
| IEEE 802.11b ISM |
| Low |
| IEEE802.b (Crest factor: 1.0) |
| 2412 |
| 39.22 |
| 1.78 |
| -1.57 |
| |

Maximum location: X=8.00, Y=24.00 SAR Peak: 0.11 W/kg

| SAR 10g (W/Kg) | 0.032738 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.063353 |



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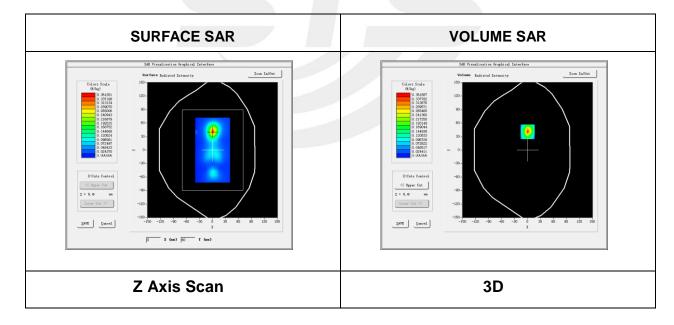


Plot 11: DUT: Tablet computer; EUT Model: Hero 8_W - Tesla tablet H785

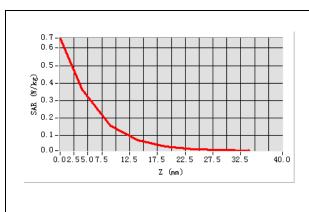
| | <u> </u> |
|-----------------------------------|--|
| Test Data | 2015-5-21 |
| Probe | SN 17/14 EP221 |
| ConvF | 4.25 |
| Area Scan | dx=8mm dy=8mm, h= 5.00 mm |
| ZoomScan | 5x5x7,dx=8mm dy=8mm dz=5mm, Complete/ndx=8mm dy=8mm, h= 5.00 mm |
| Phantom | Validation plane |
| Device Position | Body top |
| Band | IEEE 802.11b ISM |
| Channels | Low |
| Signal | IEEE802.b (Crest factor: 1.0) |
| Frequency (MHz) | 2412 |
| Relative permittivity (real part) | 39.22 |
| Conductivity (S/m) | 1.78 |
| Variation (%) | 1.21 |
| | |

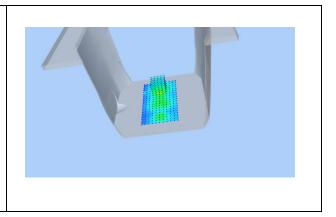
Maximum location: X=0.00, Y=41.00 SAR Peak: 0.65 W/kg

| SAR 10g (W/Kg) | 0.138130 |
|----------------|----------|
| SAR 1g (W/Kg) | 0.328118 |









Appendix C. Probe Calibration And Dipole Calibration Report

Refer the appendix Calibration Report.

