

SAR TEST REPORT

FCC ID: 2AKBSGE0001A

Product: GrillEye
Smart Bluetooth Grilling & Smoking Thermometer

Model No.: GE0001

Additional Model No.: N/A

Trade Mark: GrillEye

Report No.: TCT170519E002

Issued Date: June 01, 2017

Issued for:

G&C Imports, Exports and General Trade LTD

1 Socratous street, 14565-Agios Stefanos, Attica, Greece

Issued By:

Shenzhen Tongce Testing Lab.

1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

TEL: +86-755-27673339

FAX: +86-755-27673332

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1. Test Certification

Report No.: TCT170519E002

Product:	GrillEye Smart Bluetooth Grilling & Smoking Thermometer						
Model No.:	GE0001						
Additional Model No.	N/A						
Trade Mark:	GrillEye						
Applicant:	G&C Imports, Exports and General Trade LTD						
Address:	1 Socratous street, 14565-Agios Stefanos, Attica, Greece						
Manufacturer:	G&C Imports, Exports and General Trade LTD						
Address:	1 Socratous street, 14565-Agios Stefanos, Attica, Greece						
Date of Test:	May 27 – May 31, 2017						
SAR Max. Values:	0.21 W/Kg (1g) for Body-worn;						
Applicable Standards:	FCC 47 CFR § 2.1093 IEEE1528-2013:Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate in the Human Head from Wireless Communications Devices:Measurement Techniques KDB447498 D01:General RF Exposure Guidance v06 KDB865664 D01:SAR measurement 100MHz to 6GHz v01r04 KDB865664 D02:RF Exposure Reporting v01r02. KDB941225 D01:SAR Procedures v03r01 KDB690783 D01:SAR Listings on Grant v01r03						

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:	Aero Liu.	Date:	May 31, 2017
Reviewed By:	Aero Liu	Date:	June 01, 2017
Approved By:	Joe Zhou Tomsin	Date:	June 01, 2017



2. Facilities and Accreditations

2.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1
 The 3m Semi-anechoic chamber of Shenzhen Tongce Testing Lab.. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

 CNAS - Registration No.: CNAS L6165
 Shenzhen Tongce Testing Lab.. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

2.2. Location

Shenzhen Tongce Testing Lab Address:1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

2.3. Environment Condition:

Temperature:	18°C ~25°C	(0)	((0))
Humidity:	35%~75% RH		
Atmospheric Pressure:	1011 mbar		

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3. Test Result Summary

The maximum results of Specific Absorption Rate (SAR) found during test as bellows: <Highest Reported standalone SAR Summary>

<u> </u>					
Exposure Position	Frequency Band	Reported SAR (W/kg)	Equipment Class	Highest Reported SAR (W/kg)	
Body-worn 1-g SAR (0 mm Gap)	2.4GHz Bluetooth	0.21	DTS	0.21	

Note:

- 1. The highest simultaneous transmission is scalar summation of Reported standalone SAR per FCC KDB 690783 D01 v01r02, and scalar SAR summation of all possible simultaneous transmission scenarios of next to mouth are <1.6W/kg.and and scalar SAR summation of all possible simultaneous transmission scenarios of extremity are < 4.0W/kg
- 2. This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-2005, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.





4. EUT Description

Product Name:	GrillEye Smart Bluetooth Grilling & Smoking Therm ometer				
Model:	GE0001				
Additional Model:	N/A				
Trade Mark:	GrillEye				
Hardware:	REV2.0				
Software:	REV2.14				
Power Supply:	DC 3.0V(2pcs AA Battery)				
	Bluetooth				
Bluetooth Version:	Supported BT4.0				
Modulation:	GFSK(1Mbps),				
Operation frequency:	2402MHz~2480MHz				
Channel number:	40				
Channel separation:	2MHz				
/ 3 1					



RF Exposure Limit

Type Exposure	SAR (W/kg)
Type Exposure	Uncontrolled Exposure Limit
Spatial Peak SAR (averaged over any 1 g of tissue)	1.60
Spatial Peak SAR (hands/wrists/feet/ankles averaged over 10g)	4.00
Spatial Peak SAR (averaged over the whole body)	0.08

Note:

- The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

 The Spatial Average value of the SAR averaged over the whole body.

 The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the
- 2.
- 3. shape of a cube) and over the appropriate averaging time.





6. SAR Measurement System Configuration

6.1. SAR Measurement Set-up

The OPENSAR system for performing compliance tests consist of the following items:

A standard high precision 6-axis robot (KUKA) with controller and software.

KUKA Control Panel (KCP)

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with a Video Positioning System (VPS).

The stress sensor is composed with mechanical and electronic when the electronic part detects a change on the electro-mechanical switch; it sends an "Emergency signal" to the robot controller that to stop robot's moves A computer operating Windows XP.

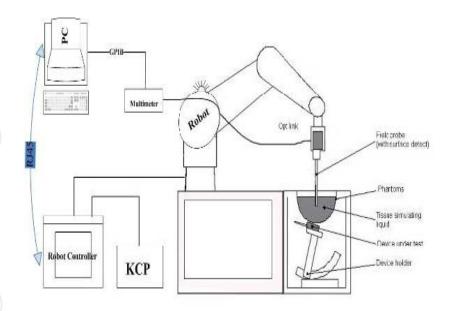
OPENSAR software Remote control with teaches pendant and additional circuitry for robot safety such as warning lamps, etc.

The SAM phantom enabling testing left-hand right-hand and body usage.

The Position device for handheld EUT

Tissue simulating liquid mixed according to the given recipes.

System validation dipoles to validate the proper functioning of the system.



KUKA SAR Test Sysytem Configuration



6.2. E-field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by MVG).

The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency.

This probe has a built in optical surface detection system to prevent from collision with phantom.

Probe Specification

Construction Symmetrical design with triangular core

Interleaved sensors

Built-in shielding against static charges

PEEK enclosure material (resistant to organic solvents, e.g., DGBE)

Calibration ISO/IEC 17025 calibration service available.

COMOSAR DOSIMETRIC E FIELD PROBE				
MVG				
SSE5				
SN 07/15 EP248				
0.45 GHz-3GHz				
Dipole 1:R1=0.218M Ω Dipole 2:R3=0.217M Ω Dipole 3:R3=0.215M Ω				



Photo of E-Field Probe

6.3. Phantom

The SAM Phantom SAM120 is constructed of a fiberglass shell integrated in a wooden table. The shape of the shell is in compliance with the specification set in IEEE P1528 and CENELEC IEC 62209-1, IEC 62209-2:2010.

The phantom enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region.

A cover prevents the evaporation of the liquid.

Reference markings on the Phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points in the robot

System checking was performed using the flat section, whilst Head SAR tests used the left and right head profile sections.

Body SAR testing also used the flat section between the head profiles.

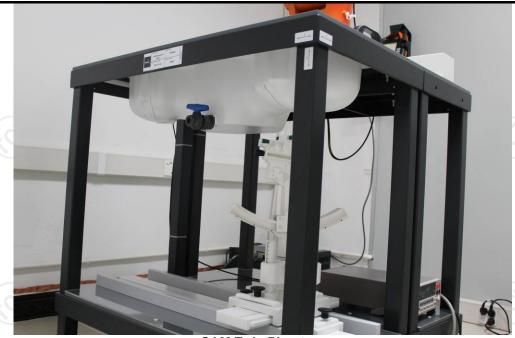
Name: COMOSAR IEEE SAM PHANTOM

S/N: SN 19/15 SAM 120 Manufacture: MVG



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SAM Twin Phantom

6.4. Device Holder

In combination with the Generic Twin Phantom SAM120, the Mounting Device enables the rotation of the mounted transmitter in spherical coordinates whereby the rotation points is the ear opening. The devices can be easily, accurately, and repeatedly positioned according to the FCC and CENELEC specifications.

The device holder can be locked at different phantom locations (left head, right head, flat phantom).



COMOSAR Mobile phone positioning system





6.5. Data Storage and Evaluation

Data Storage

The OPENSAR software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files. The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be re-evaluated.

The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [mW/g], [mW/cm²], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

Data Evaluation

The OPENSAR software automatically executes the following procedures to calculate the field units from the microvolt readings at the probe connector. The parameters used in the evaluation are stored in the configuration modules of the software:

Probe parameters: - Sensitivity Normi, ai0, ai1, ai2
- Conversion factor ConvFi
- Diode compression point Dcpi

Device parameters: - Frequency f
- Crest factor cf

Media parameters: - Conductivity σ
- Density ρ

These parameters must be set correctly in the software. They can be found in the component documents or they can be imported into the software from the configuration files issued for the OPENSAR components. In the direct measuring mode of the millimetre option, the parameters of the actual system setup are used. In the scan visualization and export modes, the parameters stored in the corresponding document files are used.

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics. If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

```
Vi = Ui + Ui2 · c f / d c pi

With Vi = compensated signal of channel i (i = x, y, z)

Ui = input signal of channel i (i = x, y, z)

cf = crest factor of exciting field (MVG parameter)

dcpi = diode compression point (MVG parameter)
```

E-field probes: Ei = (Vi / Normi · ConvF)1/2

From the compensated input signals the primary field data for each channel can be evaluated:

f = carrier frequency [GHz]
Ei = electric field strength of channel i in V/m
Hi = magnetic field strength of channel i in A/m

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The RSS value of the field components gives the total field strength (Hermitian magnitude):

Etot = (Ex2+ EY2+ Ez2)1/2

The primary field data are used to calculate the derived field units.

SAR = (Etot) $2 \cdot \sigma / (\rho \cdot 1000)$

with SAR = local specific absorption rate in mW/g

Etot = total field strength in V/m

σ = conductivity in [mho/m] or [Siemens/m]

ρ = equivalent tissue density in g/cm3

Note that the density is normally set to 1 (or 1.06), to account for actual brain density rather than the density of the simulation liquid. The power flow density is calculated assuming the excitation field to be a free space field.

6.6. Position of the wireless device in relation to the phantom

Handset Reference Points

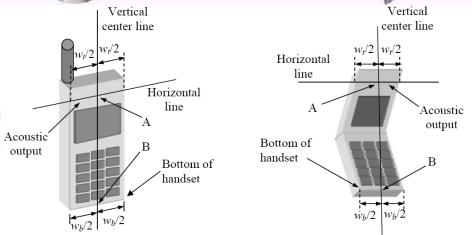
Ppwe = Etot2 / 3770 or Ppwe = $Htot2 \cdot 37.7$

With Ppwe = equivalent power density of a plane wave in mW/cm2

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m





Wt Width of the handset at the level of the acoustic

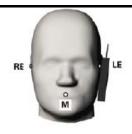
Wb Width of the bottom of the handset

A Midpoint of the width wt of the handset at the level of the acoustic output

B Midpoint of the width wb of the bottom of the handset

Positioning for Cheek / Touch





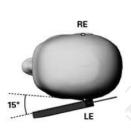




Positioning for Ear / 15º Tilt







Body Worn Accessory Configurations

To position the device parallel to the phantom surface with either keypad up or down.

To adjust the device parallel to the flat phantom.

To adjust the distance between the device surface and the flat phantom to 15mm or holster surface and the flat phantom to 0 mm.





Illustration for Body Worn Position

Ireless Router (Hotspot) Configurations

Some battery-operated handsets have the capability to transmit and receive internet connectivity through simultaneous transmission of WIFI in conjunction with a separate licensed transmitter. The FCC has provided guidance in KDB Publication 941225 D06 where SAR test considerations for handsets (L x W >

9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device with antennas 2.5 cm or closer to the edge of the device, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions. Therefore, SAR must be evaluated for each frequency transmission and mode separately and summed with the WIFI transmitter according to KDB 648474 publication procedures. The "Portable Hotspot" feature on the handset was NOT activated, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal.



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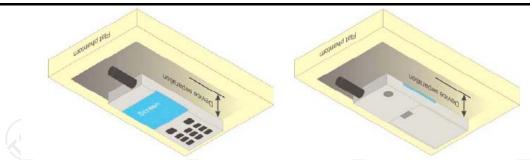
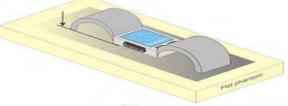


Illustration for Hotspot Position

Limb-worn device

A limb-worn device is a unit whose intended use includes being strapped to the arm or leg of the user while transmitting (except in idle mode). It is similar to a body-worn device. Therefore, the test positions of 6.1.4.4 also apply. The strap shall be opened so that it is divided into two parts as shown in Figure 9. The device shall be positioned directly against the phantom surface with the strap straightened as much as possible and the back of the device towards the phantom.

If the strap cannot normally be opened to allow placing in direct contact with the phantom surface, it may be necessary to break the strap of the device but ensuring to not damage the antenna.



Test position for limb-worn devices





6.7. Tissue Dielectric Parameters

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The liquid used for the frequency range of 100MHz-6G consisted of water, sugar, salt and Cellulose. The liquid has been previously proven to be suited for worst-case. The following Table shows the detail solution. It's satisfying the latest tissue dielectric parameters requirements proposed by the IEEE 1528 and IEC 62209. The simulating liquids should be checked at the beginning of a series of SAR measurements to determine of the determine of the dielectric parameter are within the tolerances of the specified target values. The measured conductivity and relative permittivity should be within $\pm 5\%$ of the target values.

The following materials are used for producing the tissue-equivalent materials

Targets for tissue simulating liquid

Frequency (MHz)	Liquid Type	Liquid Type (σ)	± 5% Range	Permittivity (ε)	± 5% Range
300	Head	0.87	0.83~0.91	45.3	43.04~47.57
450	Head	0.87	0.83~0.91	43.5	41.33~45.68
835	Head	0.90	0.86~0.95	41.5	39.43~43.58
900	Head	0.97	0.92~1.02	41.5	39.43~43.58
1800-2000	Head	1.40	1.33~1.47	40.0	38.00~42.00
2450	Head	1.80	1.71~1.89	39.2	37.24~41.16
3000	Head	2.40	2.28~2.52	38.5	36.58~40.43
5800	Head	5.27	5.01~5.53	35.3	33.54~37.07
300	Body	0.92	0.87~0.97	58.2	55.29~61.11
450	Body	0.94	0.89~0.99	56.7	53.87~59.54
835	Body	0.97	0.92~1.02	55.2	52.44~57.96
900			1.00~1.10	55.0	52.25~57.75
1800-2000			1.44~1.60	53.3	50.64~55.97
2450	Body	1.95	1.85~2.05	52.7	50.07~55.34
3000	Body	2.73	2.60~2.87	52.0	49.40~54.60
5800	Body	6.00	5.70~6.30	48.2	45.79~50.61

6.8. Tissue-equivalent Liquid Properties

Test Date	Temp ℃	Tissue Type	Measured Frequency (MHz)	εr	σ(s/m)	Dev εr(%)	Dev σ(%)
			2402	52.76	1.90	0.11	-2.56
21/05/2017	20°C	24500	2441	52.73	1.92	0.06	-1.54
31/05/2017	22℃	2450B	2450	52.71	1.94	0.02	-0.51
			2480	52.61	1.99	-0.17	2.05

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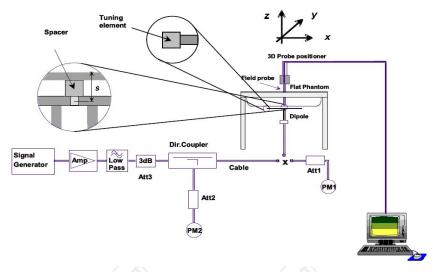
6.9. System Check

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The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation.

System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).

System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Data	Freq. (MHz)	Liquid Type	Measured Value in 100mW (W/kg)		Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
	(IVII IZ)	Type	1 g	10 g	1 g	10 g	1 g	10 g	1 g	10 g
			Average	Average	Average	Average	Average	Average	Average	Average
31/05/2017	2400	Body	5.07	2.42	50.70	24.16	50.72	23.43	-0.04	3.12

Comparing to the original SAR value provided by MVG, the verification data should be within its specification of 10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Section 10 of this report.





7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.

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Read the WWAN RF power level from the base station simulator.

For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band. Connect EUT RF port through RF cable to the power meter or spectrum analyzer, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.

Place the EUT in positions as Appendix B demonstrates.

Set scan area, grid size and other setting on the MVG software.

Measure SAR results for the highest power channel on each testing position.

Find out the largest SAR result on these testing positions of each band.

Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power reference measurement Area scan Zoom scan Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The MVG software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values form the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

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Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties

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 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

		≤3 GHz	> 3 GHz	
		5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$	
		30° ± 1° 20° ± 1°		
		≤ 2 GHz: ≤ 15 mm 3 – 4 GHz: ≤ 12 mm 2 – 3 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
atial resol	ution: Δx_{Area} , Δy_{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.		
patial resc	lution: Δx _{Zoom} , Δy _{Zoom}	≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
uniform grid: $\Delta z_{\rm Zoen}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm	
m graded	Δz _{Zeom} (1): between 1 st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm	
grid $\Delta z_{Zoom}(n>1)$: between subsequent points		$\leq 1.5 \cdot \Delta z_{Zoos}(n-1)$		
x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm	
ׅ֡֡֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜֜	obe sensor from prob leasureme atial resolv patial reso uniform graded grid	$ \begin{array}{c} \Delta z_{Zoom}(1) \text{: between} \\ 1^{st} \text{ two points closest} \\ \text{to phantom surface} \\ \\ \Delta z_{Zoom}(n > 1) \text{:} \\ \text{between subsequent} \\ \text{points} \end{array} $	m closest measurement point obe sensors) to phantom surface from probe axis to phantom seasurement location $30^{\circ} \pm 1^{\circ}$ $\leq 2 \text{ GHz} \leq 15 \text{ mm}$ $2 - 3 \text{ GHz} \leq 12 \text{ mm}$ When the x or y dimension of measurement plane orientation the measurement resolution in x or y dimension of the test dimeasurement point on the test dimeasurement point	

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

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^{*} When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.



SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

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Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In MVG measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.



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8. Conducted Output Power

	BLE 4.0		
Frequency	2402	2440	2480
Average Power (dBm)	14.36	13.61	12.50

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
0	2402	14.5	28.18	5	8.77	3.0

Note

 Per KDB 447498 D01v05r02, the 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ for 1-g SAR, and ≤ 7.5 for 10-extremity SAR, where

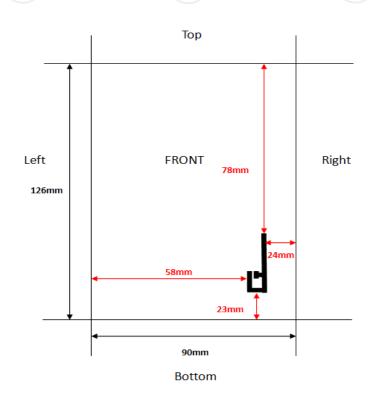
- ·f(GHz) is the RF channel transmit frequency in GHz
- ·Power and distance are rounded to the nearest mW and mm before calculation
- ·The result is rounded to one decimal place for comparison
- 2. Base on the result of note1, RF exposure evaluation of bt mode is required.

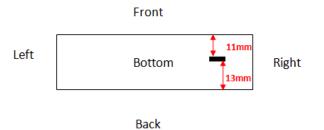
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9. Exposure Position Consideration

9.1. EUT Antenna Location





9.2. Test Position Consideration

Test Positions									
Mode	Back	Front	Top Side	Bottom Side	Right Side	Left Side			
\ \/\ \[\ \	13 mm	11 mm	78 mm	23 mm	24mm	58 mm			
WIFI	YES	YES	NO	YES	YES	NO			

Note:

1. KDB 648474 D04, particular DUT edges were not required to be evaluated for hotspot SAR if the antenna-to-edge distance is greater than 2.5cm

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10. SAR Test Results Summary

Report No.: TCT170519E002

10.1. Body-Worn 1g SAR Data

Band	Mode	Test Position with0mm	CH.	Freq. (MHz)	Ave. Power (dBm)	Power Drift (%)	Tune-Up Limit (dBm)	Meas. SAR1g (W/kg)	Scaling Factor	Reported SAR1g (W/kg)	Limit (W/Kg)
		Front	0	2402	14.36	-2.97	14.50	0.20	1.033	0.21	
2.4G	BLE	Back	0	2402	14.36	4.44	14.50	0.08	1.033	0.08	
Bluetooth	4.0	Right	0	2402	14.36	3.69	14.50	0.03	1.033	0.03	1.60
		Bottom	0	2402	14.36	-1.53	14.50	0.04	1.033	0.04	(60

Note:

 Per KDB 447498 D01 v06, for each exposure position, if the highest output power channel Reported SAR ≤ 0.8W/kg, other channels SAR testing is not necessary.

2. Per KDB 447498 D01 v06, body-worn use is evaluated with the device positioned at 0 mm from a flat phantom filled with head tissue-equivalent medium.

3. Per KDB 447498 D01 v06, the report SAR is measured SAR value adjusted for maximum tune-up tolerance. Scaling Factor=10^[(tune-up limit power(dBm) - Ave.power power (dBm))/10], where tune-up limit is the maximum rated power among all production units.

Reported SAR (W/kg)=Measured SAR (W/kg)*Scaling Factor.

4. Per KDB865664D01 v01r04 perform a second repeated measurement only the ratio of largest to smallest SAR for the original and first repeated measurement is >1.20 or when the original or repeated measurement is ≥ 1.45W/kg.

5. Perform a third measurement only if the original, first and second repeated measurement is ≥1.5w/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurement is >1.20.



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10.2. Measurement Uncertainty (450MHz-3GHz)

Ų	NCERTAI	NTY EVAL	UATION FO	OR H	EADSET	SAR			
Uncertainty Component	Descriptio n	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	V
Measurement system				1 .					
Probe calibration	7.2.1	5.8	N	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	(1-C _{p)} ^{1/2}	1.43	1.43	8
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	8
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	8
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	8
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	(O ₁)	0.58	0.58	~
Modulation Response	7.2.1.3	3	N	1	1	1	3.00	3.00	8
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	8
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	8
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1	(1)	0.81	0.81	8
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	8
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	8
Test sample related								· · · ·	
Test sample positioning	7.2.2.4.4	2.6	N	1	1	1	2.60	2.60	∞
Device holder uncertainty	7.2.2.4.2 7.2.2.4.3	3	N	1	1	1	3.00	3.00	8
output power variation-SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	8
SAR scaling	7.2.5	2	R	$\sqrt{3}$	1	1	1.15	1.15	8
Phantom and tissue parame	eters								
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	8
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	8
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	8
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	8
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	8
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	1	0.23	0.26	1.15	1.30	8
Combined standard uncertainty			RSS				10.83	10.54	
Expanded uncertainty (95%CONFIDENCEINTER VAL			k				21.26	21.08	



	UNCERT	AINTY FO	R PERFOR	MAN	CE CHE	CK			
Uncertainty Component	Description	Uncertainty Value(%)	Probably Distribution	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. 1g(%)	Std. Unc. 10g(%)	٧
Measurement system	,			· .					
Probe calibration	7.2.1	5.8	N -	1	1	1	5.8	5.8	∞
Axial isotropy	7.2.1.1	3.5	R	$\sqrt{3}$	$(1-C_p)^{1/2}$	(1-C _{p)} ^{1/2}	1.43	1.43	∞
Hemispherical isotropy	7.2.1.1	5.9	R	$\sqrt{3}$	$\sqrt{C_p}$	$\sqrt{C_p}$	2.41	2.41	∞
Boundary Effects	7.2.1.4	1.00	R	$\sqrt{3}$	1	1	0.58	0.58	∞
Linearity	7.2.1.2	4.70	R	$\sqrt{3}$	1	1	2.71	2.71	8
System detection limits	7.2.1.2	1	R	$\sqrt{3}$	1	(O1)	0.58	0.58	~
Modulation Response	7.2.1.3	3	Ń	1	1	1	0.00	0.00	∞
Readout Electronics	7.2.1.5	0.5	N	1	1	1	0.50	0.50	∞
Response Time	7.2.1.6	0	R	$\sqrt{3}$	1	1	0.00	0.00	∞
Integration Time	7.2.1.7	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
RF Ambient Conditions-Noise	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
RF Ambient Conditions-Reflection	7.2.3.7	3	R	$\sqrt{3}$	1	1	1.73	1.73	∞
Probe positioned mechanical Tolerance	7.2.2.1	1.4	R	$\sqrt{3}$	1 ((1)	0.81	0.81	∞
Probe positioning with respect to phantom shell	7.2.2.3	1.4	R	$\sqrt{3}$	1	1	0.81	0.81	∞
Extrapolation interpolation and integration algorithms for Max.SAR evaluation	7.2.4	2.3	R	1	1	1	1.33	1.33	∞
Dipole									
Deviation of experimental source from numerical source		4	N	1	1	1	4.00	4.00	∞
Input power and SAR drift measurement	7.2.3.6	5	R	$\sqrt{3}$	1	1	2.89	2.89	∞
Dipole axis to liquid distance		2	R	$\sqrt{3}$	1	1			∞
Phantom and tissue paran	neters								
Phantom uncertainty (shape and thickness tolerances)	7.2.2.2	4	R	$\sqrt{3}$	1	1	2.31	2.31	∞
uncertainty in SAR correction for deviation (in permittivity and conductivity)	7.2.6	2	N	1	1	0.84	2.00	1.68	∞
Liquid conductivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	8
Liquid conductivity -measurement uncertainty	7.2.3.3	4	N	1	0.23	0.26	0.92	1.04	∞
Liquid permittivity (temperature uncertainty)	7.2.3.5	2.5	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement uncertainty	7.2.3.4	5	N	10	0.23	0.26	1.15	1.30	∞
Combined standard uncertainty			RSS				10.15	10.05	
Expanded uncertainty (95%CONFIDENCEINTE RVAL			k				20.29	20.10	



10.3. Test Equipment List

2	51)	('0')		Calibration		
Test Equipment	Manufacturer	Model	Serial Number	Calibration Date (D.M.Y)	Calibration Due (D.M.Y)	
PC	Lenovo	H3050	N/A	N/A	N/A	
Signal Generator	Angilent	N5182A	MY47070282	12/06/2016	11/06/2017	
Multimeter	Keithley	MiltiMeter 2000	4078275	12/06/2016	11/06/2017	
Network Analyzer	Agilent	8753E	US38432457	12/06/2016	11/06/2017	
Power Meter	Agilent	E4418B	GB43312526	12/06/2016	11/06/2017	
Power Meter	Agilent	E4416A	MY45101555	12/06/2016	11/06/2017	
Power Meter	Agilent	N1912A	MY50001018	12/06/2016	11/06/2017	
Power Sensor	Agilent	E9301A	MY41497725	12/06/2016	11/06/2017	
Power Sensor	Agilent	E9327A	MY44421198	12/06/2016	11/06/2017	
Power Sensor	Agilent	E9323A	MY53070005	12/06/2016	11/06/2017	
Power Amplifier	PE C	PE15A4019	112342	N/A	N/A	
Directional Coupler	Agilent	722D	MY52180104	N/A	N/A	
Attenuator	Chensheng	FF779	134251	N/A	N/A	
E-Field PROBE	MVG	SSE5	SN 07/15 EP248	10/01/2017	09/01/2018	
DIPOLE 2450	MVG	SID 2450	SN 16/15 DIP 2G450-374	06/05/2015	05/05/2018	
Limesar Dielectric Probe	MVG	SCLMP	SN 19/15 OCPG71	06/05/2015	05/05/2018	
Communication Antenna	MVG	ANTA59	SN 39/14 ANTA59	N/A	N/A	
Mobile Phone Position Device	MVG	MSH101	SN 19/15 MSH101	N/A	N/A	
Dummy Probe	MVG	DP66	SN 13/15 DP66	N/A	N/A	
SAM PHANTOM	MVG	SAM120	SN 19/15 SAM120	N/A	N/A	
PHANTOM TABLE	MVG	TABP101	SN 19/15 TABP101	N/A	N/A	
Robot TABLE	MVG	TABP61	SN 19/15 TABP61	N/A	N/A	
6 AXIS ROBOT	KUKA	KR6-R900	501822	N/A	N/A	

Note

- 1. N/A means this equipment no need to calibrate
- 2. Each Time means this device need to calibrate every use time
- 3. The dipole was not damaged properly repaired.
- 4. The measured SAR deviates from the calibrated SAR value by less than 10%
- 5. The most recent return-loss result meets the required 20 dB minimum return-loss requirement
- 6. The most recent measurement of the real or imaginary parts of the impedance, deviates by less than 5 Ω from the previous measurement.

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11. System Check Results

Date of measurement: 31/05/2017 Test mode: 2450MHz (Body)

Product Description: Validation

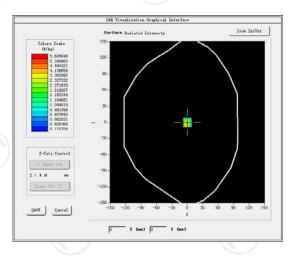
Dipole Model: SID2450

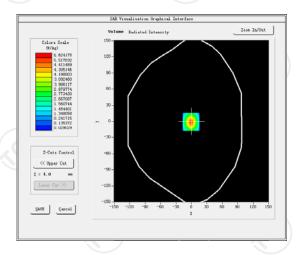
E-Field Probe: SSE5 (SN 07/15 EP248)

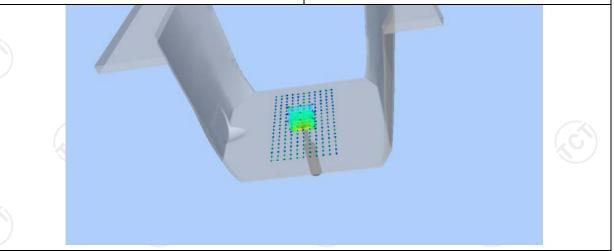
Phantom	Validation plane	(C)
Input Power	100mW	
Crest Factor	1.0	
Probe Conversion factor	4.58	
Frequency (MHz)	2450.000000	
Relative permittivity (real part)	52.710258	
Relative permittivity (imaginary part)	14.318444	
Conductivity (S/m)	1.941258	
Variation (%)	-0.230000	(,C)
SAR 10g (W/Kg)	2.416669	
SAR 1g (W/Kg)	5.066368	

SURFACE SAR

VOLUME SAR









TES	TING CENTRE TECHNOLOGY			Report No.	: TCT170519E	002
Z (mm) SAR (W/Kg)	0.00 6.8357	4.00 4.6928	9.00 2.8472	14.00 1.4195	19.00 1.2184	
	0.8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-8-	4 6 8 10 12	14 16 18 20 22			
		Hot snot	z (mm) t position			
		ποι spo	i position			
5						
5						





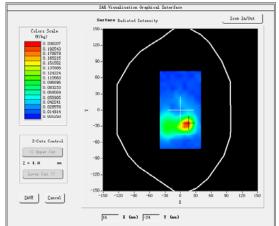
12. SAR Test Data

2.4GHz Bluetooth

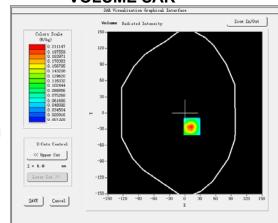
A CI	IDEM	IENIT
45L		1 - 17 1

Lower Band SAR (Channel 0):	Date: 31/05/2017
Frequency (MHz)	2402.000000
Relative permittivity (real part)	52.764000
Relative permittivity (imaginary part)	14.260667
Conductivity (S/m)	1.903007
Variation (%)	-2.970000
Crest Factor:	1.0
Probe Conversion factor	4.58
E-Field Probe:	SSE5 (SN 07/15 EP248)
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	<u>Validation plane</u>
Device Position	Body front
Band	Bluetooth

SURFACE SAR



VOLUME SAR



Maximum location: X=14.00, Y=-25.00

SAR Peak: 0.36 W/kg

 SAR 10g (W/Kg)
 0.095623

 SAR 1g (W/Kg)
 0.198037

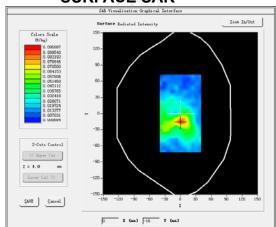


SAR (W/Kg) 0.3479 0.2111 0.1080 0.0543 0.0281 0.30 0.25 0.25 0.20 0.15 0.10 0.10 0.05 0.10 0.10 0.05 0.10 0.10	Z (mm)	0.00	4.00	9.00	14.00	19.00	
0.30- 0.25- 0.15- 0.10- 0.05- 0.01- 0.2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 Z (mm)	SAR (W/Kg)	0.3479	0.2111	0.1080	0.0543	0.028	1
0.05- 0.01- 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 Z (mm)		0.30 - 0.25 - 0.20 - 0.15 -					
Hot spot position Hot spot posi	5	0. 05 - 0. 01 -		Z (mm)	24 26 28 30		
			Hot spot	position			
	5						

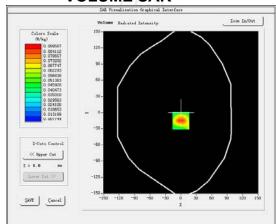


MEASUR	REMENT 2
Lower Band SAR (Channel 0):	Date: 31/05/2017
Frequency (MHz)	2402.000000
Relative permittivity (real part) 52.764000 Relative permittivity (imaginary part) 14.260667 Conductivity (S/m) 1.903007 Variation (%) 4.440000 Crest Factor: 1.0 Probe Conversion factor 4.58 E-Field Probe: SSE5 (SN 07/15 EP248) Area Scan dx=8mm dy=8mm, h= 5.00 mm ZoomScan 5x5x7,dx=8mm dy=8mm	
Relative permittivity (imaginary part)	14.260667
Conductivity (S/m)	1.903007
Variation (%)	4.440000
Crest Factor:	1.0
Probe Conversion factor	4.58
E-Field Probe:	SSE5 (SN 07/15 EP248)
Area Scan	<u>dx=8mm dy=8mm, h= 5.00 mm</u>
ZoomScan	5x5x7,dx=8mm dy=8mm
	dz=5mm,Complete/ndx=8mm dy=8mm, h=
	<u>5.00 mm</u>
Phantom	<u>Validation plane</u>
Device Position	Body back
Band	<u>Bluetooth</u>



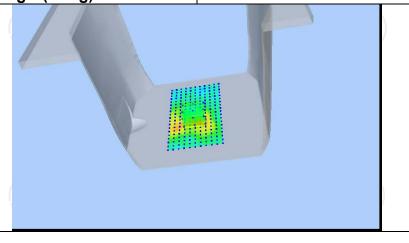


VOLUME SAR



Maximum location: X=0.00, Y=-15.00 SAR Peak: 0.14 W/kg

SAR 10g (W/Kg)	0.046369
SAR 1g (W/Kg)	0.083302





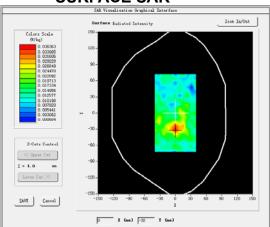
Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.1358 0.14-	0.0896	0.0516	0.0292	0.016	
	0.12-					
	0.10-					
	0.08-	+				
	SAR (%/kg)					
	0.04	+++				
	0. 02 - 0. 01 -					
	ó ź	4 6 8 10 12	14 16 18 20 22 Z (mm)	24 26 28 30		
		Hot spot	position			
		A				



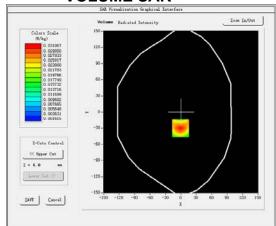
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MEAGO	INDIVIDUAL V			
Lower Band SAR (Channel 0):	Date: 31/05/2017			
Frequency (MHz)	2402.000000			
Relative permittivity (real part)	52.764000			
Relative permittivity (imaginary part)	14.260667			
Conductivity (S/m)	1.903007			
Variation (%)	3.690000			
Crest Factor:	1.0			
Probe Conversion factor	4.58			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
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	<u>Validation plane</u>			
Device Position	Body right			
Band	Bluetooth			

SURFACE SAR

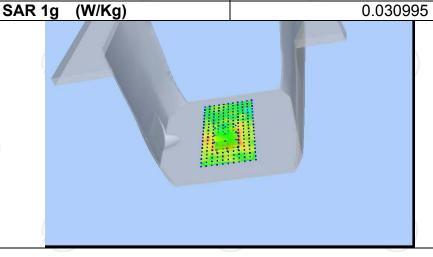


VOLUME SAR



Maximum location: X=-1.00, Y=-30.00 SAR Peak: 0.05 W/k

SAR 10g (W/Kg) 0.019092





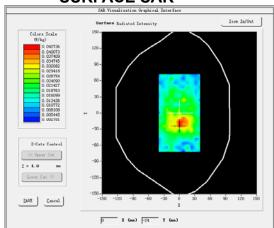
Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0546	0.0319	0.0163	0.0098	0.0079	
	0.05					
	₅₀ 0.04-					
	0.04- 0.03- (%//kg)	\longrightarrow				
	% 0.02-	$\perp \downarrow \downarrow \downarrow \downarrow$				
	0.01-		14 16 18 20 22	24 26 28 30		
			z (mm) position			
		Hot spot	position		(0)	
			100			
			- 1			
			-,			



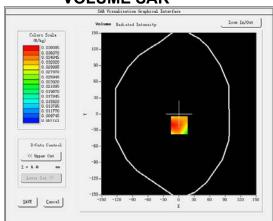
N.	SL	ID		uт	· 1
IV	เอเ	JK		ИI	4

=, 1.50	· · · · · · · · · · · · · · · · · · ·			
Lower Band SAR (Channel 0):	Date: 31/05/2017			
Frequency (MHz)	2402.000000			
Relative permittivity (real part)	52.764000			
Relative permittivity (imaginary part)	14.260667			
Conductivity (S/m)	1.903007			
Variation (%)	-1.530000			
Crest Factor:	1.0			
Probe Conversion factor	4.58			
E-Field Probe:	SSE5 (SN 07/15 EP248)			
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	<u>Validation plane</u>			
Device Position	Body bottom			
Band	Bluetooth			

SURFACE SAR

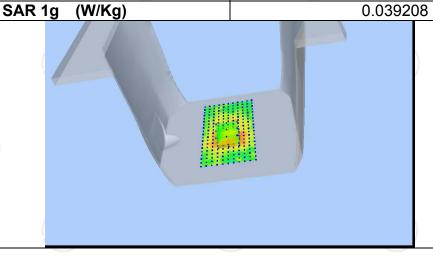


VOLUME SAR



Maximum location: X=1.00, Y=-21.00 SAR Peak: 0.07 W/kg

SAR 10g (W/Kg) 0.027307



TCT通测检测

Z (mm)	0.00	4.00	9.00	14.00	19.00	
SAR (W/Kg)	0.0423	0.0360	0.0293	0.0240	0.019	7
	0. 042 - 0. 040 -					
	0.035 -					
	0.030 - (%)					
	€ 0.030-					
	뿘 0.025-		$\overline{}$			
	0.020-		+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$			
	0.016	2 4 6 8 10 1	2 14 16 18 20 22	04 05 09 20		
	0 2	2 4 6 8 10 1:	Z (mm)	24 26 26 30		
		Hot spo	t position			
			100			
			4-			
		_	1			
			-			