SAR Test Report

Report No.: AGC09377170502EH01

PRODUCT DESIGNATION	:	Tablet PC
BRAND NAME	:	Vonino
MODEL NAME	:	Navo S
CLIENT	:	Vonino Electronics (HK) Limited
DATE OF ISSUE	:	May 12,2017
STANDARD(S)	:	EN 62209-2:2010; IEC 62209-2:2010; EN 50566:2013;
REPORT VERSION	:	V1.0

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Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	May 12,2017	Valid	Extension Report (Extension based on the Report No.: AGC06327160802EH01 Modify the brand name, model name, applicant, manufacturer and software version; Delete the BT.)

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Test Report Certification

Applicant Name	Vonino Electronics (HK) Limited
Applicant Address	#1109, 11/F, Kowloon Center 33 Ashley Road , Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer Name	Vonino Electronics (HK) Limited
Manufacturer Address	#1109, 11/F, Kowloon Center 33 Ashley Road , Tsim Sha Tsui, Kowloon, Hong Kong
Product Designation	Tablet PC
Brand Name	Vonino
Model Name	Navo S
Different Description	N/A
EUT Voltage	DC3.7V by battery
Applicable Standard	EN 62209-2:2010; IEC 62209-2:2010; EN 50566:2013;
Test Date	Aug. 13,2016
Performed Location	Attestation of Global Compliance(Shenzhen) Co., Ltd.
	2 F, Building 2, No.1-No.4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang Street, Bao'an District, Shenzhen, China
Report Template	AGCRT-EC-2.4G/SAR (2016-01-01)

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Angela Li(Li Jiao) May 12,2017

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1. SUMMARY OF MAXIMUM SAR VALUE

The maximum results of Specific Absorption Rate (SAR) found during testing for EUT are as follows:

Frequency Band	Highest Reported 10g-SAR(W/Kg)	SAR Test Limit (W/Kg)
	Body-worn(with 0mm separation)	
WIFI 2.4G	0.569	2.0
SAR Test Result	PASS	

This device is compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (2.0W/Kg).

2. GENERAL INFORMATION

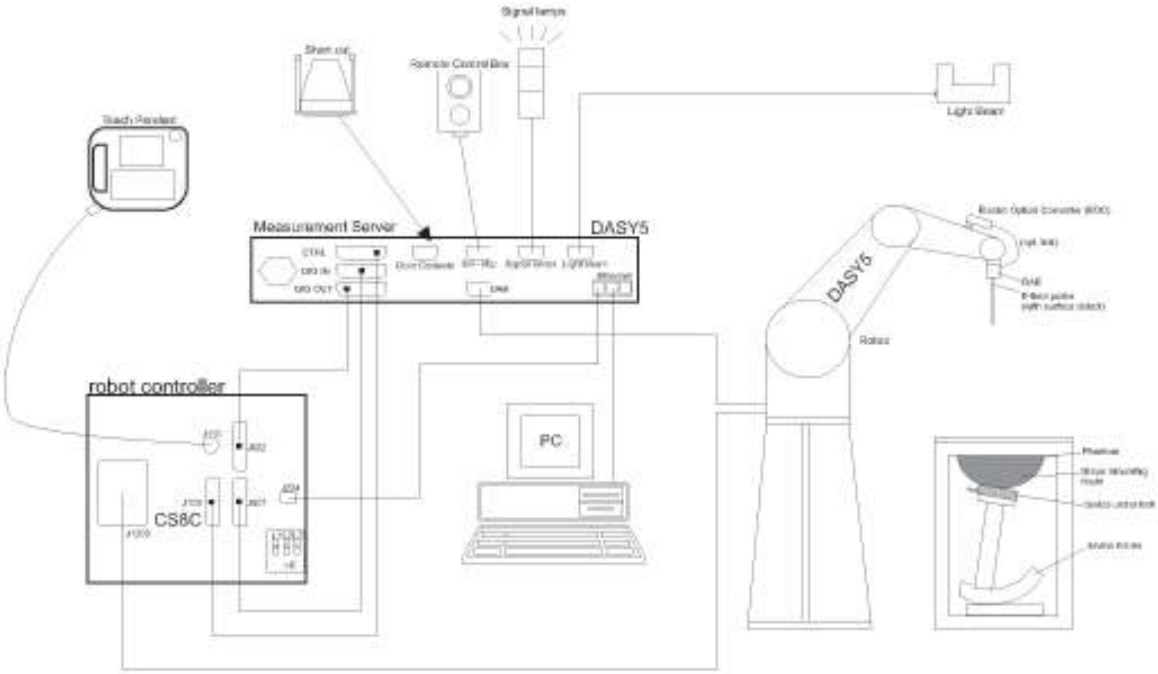
2.1. EUT Description

General Information	
Product Designation	Tablet PC
Test Model	Navo S
Hardware Version	vonino_v1.1.0_20170328
Software Version	N/A
Device Category	Portable
RF Exposure Environment	Uncontrolled
Antenna Type	Internal
WIFI	
WIFI Specification	☐802.11a ☒802.11b ☒802.11g ☒802.11n(20) ☒802.11n(40)
Operation Frequency	2412~2472MHz
EIRP	11b:13.15dBm,11g:10.98dBm,11n(20):10.98dBm,11n(40):9.62dBm
Antenna Gain	0.7dBi
Li-ion Battery	
Brand Name	KONROW
Model Name	357095
Manufacturer Name	Shenzhen Shirui Battery Co., Ltd.
Manufacturer Address	No.25, Shuiwei Road, Xinweizi, Xinmu Village, Pinghu, Longgang Shenzhen P.R. China
Capacitance	2800mAh
Rated Voltage/ Charging Voltage	DC3.7V/ DC4.2V

Note: The sample used for testing is end product.

3. SAR MEASUREMENT SYSTEM

3.1. The DASY5 system used for performing compliance tests consists of following items



- A standard high precision 6-axis robot with controller, teach pendant and software.
- Data acquisition electronics (DAE) which attached to the robot arm extension. The DAE consist of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder with a control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information, as well as an optical uplink for commands and the clock
- A dosimetric probe equipped with an optical surface detector system.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital Communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- A Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running WinXP and the DASY5 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- Phantoms, device holders and other accessories according to the targeted measurement.

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3.2. DASY5 E-Field Probe

The SAR measurement is conducted with the dosimetric probe manufactured by SPEAG. 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. SPEAG conducts the probe calibration in compliance with international and national standards (e.g. EN62209, IEC 62209, etc.)Under ISO17025.The calibration data are in Appendix D.

Isotropic E-Field Probe Specification

Model	ES3DV3	
Manufacture	SPEAG	
frequency	0.15GHz-3 GHz Linearity:±0.2dB(150MHz-3 GHz)	
Dynamic Range	0.01W/Kg-100W/Kg Linearity:±0.2dB	
Dimensions	Overall length:337mm Tip diameter:4mm Typical distance from probe tip to dipole centers:2mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 3 GHz with precision of better 30%.	

3.3. Data Acquisition Electronics description

The data acquisition electronics (DAE) consist if a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converte and a command decoder with a control logic unit. Transmission to the measurement sever is accomplished through an optical downlink fir data and status information, as well as an optical uplink for commands and the clock.

The mechanical probe mounting device includes two different sensor systems for frontal and sideways probe contacts. They are used for mechanical surface detection and probe collision detection.

DAE4

Input Impedance	200MOhm	
The Inputs	Symmetrical and floating	
Common mode rejection	above 80 dB	

3.4. Robot

The DASY system uses the high precision robots (DASY5:TX60) type from Stäubli SA (France). For the 6-axis controller system, the robot controller version from is used. The XL robot series have many features that are important for our application: □ High precision (repeatability 0.02 mm) □ High reliability (industrial design) □ Jerk-free straight movements □ Low ELF interference (the closed metallic construction shields against motor control fields) □ 6-axis controller	

3.5. Light Beam Unit

The light beam switch allows automatic "tooling" of the probe. During the process, the actual position of the probe tip with respect to the robot arm is measured, as well as the probe length and the horizontal probe offset. The software then corrects all movements, such that the robot coordinates are valid for the probe tip. The repeatability of this process is better than 0.1 mm. If a position has been taught with an aligned prob.1 mm, even if the other probe has different dimensions. During probe rotations, the probe tip will keep its actual position. e, the same position will be reached with another aligned probe within 0	

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3.6. Device Holder

The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation center for both scales is the ear reference point (EPR).
Thus the device needs no repositioning when changing the angles.
The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity ε=3 and loss tangent δ = 0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.

3.7. Measurement Server

The measurement server is based on a PC/104 CPU board with CPU (DASY5: 400 MHz, Intel Celeron), chip-disk (DASY5: 128MB), RAM (DASY5: 128MB). The necessary circuits for communication with the DAE electronic box, as well as the 16 bit AD converter system for optical detection and digital I/O interface are contained on the DAYS I/O board, which is directly connected to the PC/104 bus of the CPU board.
The measurement server performs all the real-time data evaluation for field measurements and surface detection, controls robot movements and handles safety operations.

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3.8. PHANTOM

SAM Twin Phantom

The SAM twin phantom is a fiberglass shell phantom with 2mm shell thickness (except the ear region where shell thickness increases to 6mm). It has three measurement areas: □ Left head □ Right head □ Flat phantom	

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

ELI4 Phantom

□ Flat phantom a fiberglass shell flat phantom with 2mm+/- 0.2 mm shell thickness. It has only one measurement area for Flat phantom	

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4. SAR MEASUREMENT PROCEDURE

4.1. Specific Absorption Rate (SAR)

SAR is related to the rate at which energy is absorbed per unit mass in 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 occupational/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 given mass 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 can be obtained using either of the following equations:

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

$$SAR = c_h \left.\frac{dT}{dt}\right|_{t=0}$$

Where

SAR	is the specific absorption rate in watts per kilogram;
E	is the r.m.s. value of the electric field strength in the tissue in volts per meter;
σ	is the conductivity of the tissue in siemens per metre;
ρ	is the density of the tissue in kilograms per cubic metre;
c_h	is the heat capacity of the tissue in joules per kilogram and Kelvin;
$\frac{dT}{dt} \mid t=0$	is the initial time derivative of temperature in the tissue in kelvins per second

4.2. SAR Measurement Procedure

Step 1: 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 is 2.7mm This distance cannot be smaller than the distance os sensor calibration points to probe tip as `defined in the probe properties,

Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maximal found in the scanned area, within a range of the global maximum. The range (in db) is specified in the standards for compliance testing. For example, a 2db range is required in IEEE Standard EN 50360 and IEC62209 standards, whereby 3db is a requirement when compliance is assessed in accordance with the ARIB standard (Japan) If one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximum are detected, the number of Zoom Scan has to be increased accordingly.

measure the SAR distribution within the phantom (area scan procedure). The SAR distribution is scanned along the inside surface of one side of the phantom head, at least for an area larger than the projection of the handset and antenna. The spatial grid step shall be less than 20 mm. The resolution accuracy can also be tested using the reference functions of 7.2.4. If surface scanning is used, then the distance between the geometrical centre of the probe dipoles and the inner surface of the phantom shall be 8,0 mm or less (±1,0 mm). At all measurement points, the angle of the probe with respect to the line normal to the surface is recommended but not required to be less than 30°.

Step 3: Zoom Scan

Zoom Scan are used to assess the peak spatial SAR value within a cubic average volume containing 1g and 10g of simulated tissue. The Zoom Scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1g and 10g and displays these values next to the job's label.

measure SAR with a grid step of 8 mm or less in a volume with a minimum size of 30 mm by 30 mm and 30 mm in depth (zoom scan procedure). The grid step in the vertical direction shall be 5 mm or less (see C.3.3). Separate grids shall be centred on each of the local SAR maxima found in step c).

Step 4: Power Drift Measurement

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement within the same procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the same settings. This allows a user to monitor the power drift of the device under test within a batch process. The measurement procedure is the same as Step 1.

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5. TISSUE SIMULATING LIQUID

For SAR measurement of the field distribution inside the phantom, the phantom must be filled with homogeneous tissue simulating liquid to a depth of at least 15cm. For head SAR testing the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.The nominal dielectric values of the tissue simulating liquids in the phantom and the tolerance of 5% are listed in 5.2.

5.1. The composition of the tissue simulating liquid

Ingredient (% Weight) / Frequency (MHz)	Water	Nacl	Sugar	HEC	Bactericide	DGBE	1,2-Propanediol	Triton X-100
2450	71.88	0.16	0.0	0.0	0.0	7.99	0.0	19.97

5.2. Tissue Dielectric Parameters for Head and Body Phantoms

The head tissue dielectric parameters recommended by the EN/IEC 62209-1 have been incorporated in the following table. The body tissue dielectric parameters recommended by the EN/IEC 62209-2 have been incorporated in the following table.

Target Frequency (MHz)	head		body	
	εr	σ (S/m)	εr	σ (S/m)
300	45.3	0.87	45.3	0.87
450	43.5	0.87	43.5	0.87
835	41.5	0.90	41.5	0.90
900	41.5	0.97	41.5	0.97
1450	40.5	1.20	40.5	1.20
1800 – 2000	40.0	1.40	40.0	1.40
2450	**39.2**	**1.80**	**39.2**	**1.80**
3000	38.5	2.40	38.5	2.40

(εr = relative permittivity, σ = conductivity and ρ = 1000 kg/m3)

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5.3. Tissue Calibration Result

The dielectric parameters of the liquids were verified prior to the SAR evaluation using DASY5 Dielectric Probe Kit and R&S Network Analyzer ZVL6.

Frequency (MHz)	Target Value		Measurement Value		Tissue Temp [^{o}C]	Test Date
	εr	δ[s/m]	εr	δ[s/m]		
2450	39.2 37.24-41.16	1.80 1.71-1.89	40.02	1.81	21.9	Aug. 13,2016

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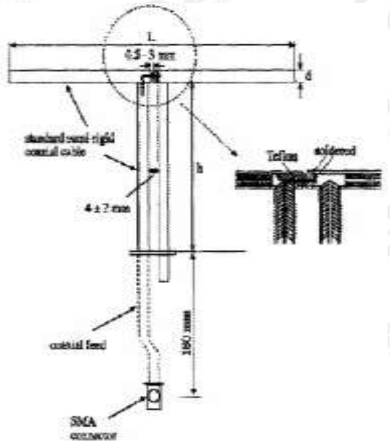
6. SAR SYSTEM CHECK PROCEDURE

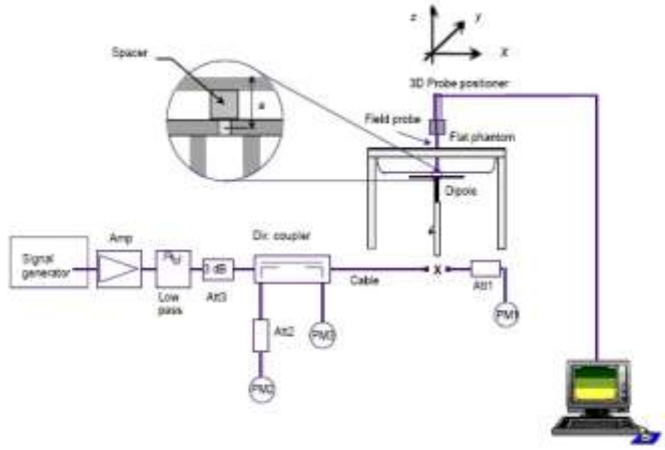
6.1. SAR System Check Procedures

SAR system check is required to confirm measurement accuracy, according to the tissue dielectric media, probe calibration points and other system operating parameters required for measuring the SAR of a test device. The system verification must be performed for each frequency band and within the valid range of each probe calibration point required for testing the device. The same SAR probe(s) and tissue-equivalent media combinations used with each specific SAR system for system verification must be used for device testing. When multiple probe calibration points are required to cover substantially large transmission bands, independent system verifications are required for each probe calibration point. A system verification must be performed before each series of SAR measurements using the same probe calibration point and tissue-equivalent medium. Additional system verification should be considered according to the conditions of the tissue-equivalent medium and measured tissue dielectric parameters, typically every three to four days when the liquid parameters are remeasured or sooner when marginal liquid parameters are used at the beginning of a series of measurements.

Each DASY system is equipped with one or more system check kits. These units, together with the predefined measurement procedures within the DASY software, enable the user to conduct the system 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 check setup is shown as below.





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6.2. SAR System Check
6.2.1. Dipoles

	The dipoles used is based on the EN/IEC62209-1/2 standard, the table below provides details for the mechanical and electrical Specifications for the dipoles.

Frequency	L (mm)	h (mm)	d (mm)
2450MHz	51.5	30.4	3.6

6.2.2. System Check Result

System Performance Check at 2450MHz								
Validation Kit: D2450V2-SN:968								
Frequency [MHz]	Target Value(W/Kg)		Reference Result (± 10%)		Normalized to 1W(W/Kg)		Tissue Temp. [°C]	Test time
	1g	10g	1g	10g	1g	10g		
2450	53.8	25.4	48.42-59.18	22.86-27.94	54.520	25.992	21.9	Aug. 13,2016

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7. EUT TEST POSITION

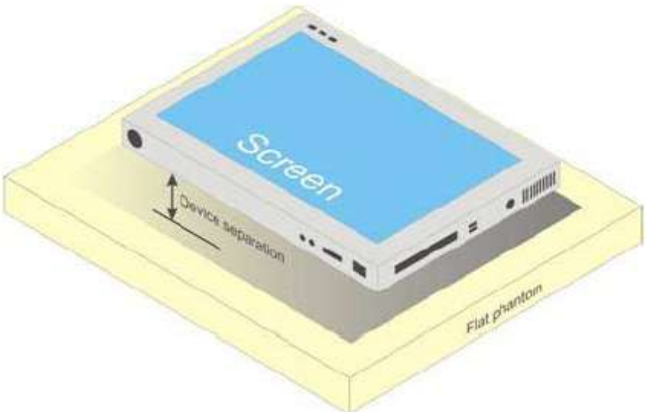
According to EN 62209-2 Section 6.1.4.6.The EUT is tested in **Body back, Body front and 4 edges**

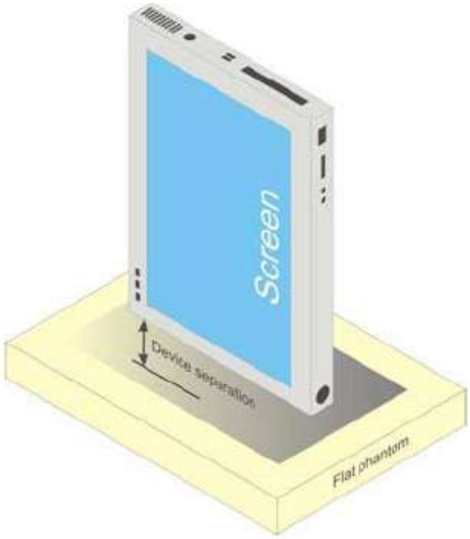
7.1. Body Worn Position

(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 **0mm.**





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8. SAR EXPOSURE LIMITS

SAR assessments have been made in line with the requirements of 1999/519/EC of 12 July 1999 on the limitation of exposure of the general public electromagnetic fields (0 Hz-300GHz).

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

Type Exposure	Uncontrolled Environment Limit (W/kg)
Spatial Peak SAR (10 g cube tissue for brain or body)	2.00
Spatial Average SAR (Whole body)	0.08
Spatial Peak SAR (Limbs)	4.00

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9. TEST EQUIPMENT LIST

Equipment description	Manufacturer/ Model	Identification No.	Current calibration date	Next calibration date
Stäubli Robot	Stäubli-TX60	F13/5Q2UD1/A/01	N/A	N/A
Robot Controller	Stäubli-CS8	139522	N/A	N/A
TISSUE Probe	SATIMO	SN 45/11 OCPG45	12/02/2015	12/01/2016
E-Field Probe	Speag- ES3DV3	SN:3337	10/01/2015	09/30/2016
EL4 Phantom	ELI V5.0	1210	N/A	N/A
Device Holder	Speag-SD 000 H01 KA	SD 000 H01 KA	N/A	N/A
DAE4	Speag-SD 000 D04 BM	1398	02/02/2016	02/01/2017
SAR Software	Speag-DASY5	DASY52.8	N/A	N/A
Liquid	SATIMO	-	N/A	N/A
Dipole	D2450V2	SN968	06/12/2015	06/11/2018
Signal Generator	Agilent-E4438C	US41461365	02/29/2016	02/28/2017
Vector Analyzer	Agilent / E4440A	US40420298	07/02/2016	07/01/2017
Network Analyzer	Rhode & Schwarz ZVL6	SN100132	03/04/2016	03/03/2017
Attenuator	Warison /WATT-6SR1211	N/A	N/A	N/A
Attenuator	Mini-circuits / VAT-10+	N/A	N/A	N/A
Amplifier	EM30180	SN060552	03/04/2016	03/03/2017
Directional Couple	Werlatone/ C5571-10	SN99463	07/02/2016	07/01/2017
Directional Couple	Werlatone/ C6026-10	SN99482	07/02/2016	07/01/2017
Power Sensor	NRP-Z21	1137.6000.02	10/20/2015	10/19/2016
Power Sensor	NRP-Z23	US38261498	03/01/2016	02/28/2017
Power Viewer	R&S	V2.3.1.0	N/A	N/A

Note: Per EN/IEC62209-2 Dipole SAR Validation, AGC Lab has adopted 3 years calibration intervals. On annual basis, every measurement dipole has been evaluated and is in compliance with the following criteria:
1. There is no physical damage on the dipole;
2. System validation with specific dipole is within 10% of calibrated value;
3. Return-loss is within 20% of calibrated measurement;
4. Impedance is within 5Ω of calibrated measurement.

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10. MEASUREMENT UNCERTAINTY

The component of uncertainly may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainly by the statistical analysis of a series of observations is termed a Type An evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in Table as follow.

Uncertainty Distributions	Normal	Rectangular	Triangular	U-Shape
Multi-plying Factor(a)	1/k(b)	$1/\sqrt{3}$	$1/\sqrt{6}$	$1/\sqrt{2}$

(a) Standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b) κ is the coverage factor

Table 13.1 Standard Uncertainty for Assumed Distribution (above table)

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

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DAYS5 Measurement Uncertainty Measurement uncertainty for 150 MHz to 3GHz averaged over 1 gram / 10 gram.							
Error Description	Uncertainty value(±10%)	Probability Distribution	Divisor	(Ci) 1g	(Ci) 10g	Standard Uncertainty (1g)	Standard Uncertainty (10g)
Measurement System							
Probe Calibration	6	Normal	1	1	1	6.00	6.00
Axial Isotropy	0.25	Rectangular	√3	1	1	0.14	0.14
Hemispherical Isotropy	1.3	Rectangular	√3	1	1	0.75	0.75
Linearity	0.3	Rectangular	√3	1	1	0.17	0.17
Probe Modulation Response	1.65	Rectangular	√3	1	1	0.95	0.95
System Detection Limits	0.9	Rectangular	√3	1	1	0.52	0.52
Boundary Effects	0.9	Rectangular	√3	1	1	0.52	0.52
Readout Electronics	0.2	Normal	1	1	1	0.20	0.20
Response Time	0	Rectangular	√3	1	1	0.00	0.00
Integration Time	0	Rectangular	√3	1	1	0.00	0.00
RF Ambient Noise	0.9	Rectangular	√3	1	1	0.52	0.52
RF Ambient Reflection	0.9	Rectangular	√3	1	1	0.52	0.52
Probe Positioner	0.7	Rectangular	√3	1	1	0.40	0.40
Probe Positioning	6.5	Rectangular	√3	1	1	3.75	3.75
Post-processing	3.8	Rectangular	√3	1	1	2.19	2.19
Test Sample Related							
Device Positioning	3.6	Normal	1	1	1	3.6	3.6
Device Holder	2.9	Normal	1	1	1	2.9	2.9
Measurement SAR Drift	5.0	Rectangular	√3	1	1	2.89	2.89
Power Scaling	0.0	Rectangular	√3	1	1	0	0
Phantom and Setup							
Phantom Uncertainty (Shape and thickness tolerances)	0.05	Normal	√3	1	1	0.03	0.03
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	Rectangular	1	1	0.84	1.90	1.60
Liquid conductivity measurement	5	Normal	1	0.78	0.71	3.90	3.55
Liquid permittivity measurement	5	Rectangular	1	0.23	0.26	1.15	1.30
Liquid conductivity – temperature uncertainty	5	Rectangular	√3	0.78	0.71	2.25	2.05
Liquid permittivity – temperature uncertainty	5	Rectangular	√3	0.23	0.26	0.66	0.75
Combined Standard Uncertainty						10.17	9.89
Coverage Factor for 95%						K=2	
Expanded Uncertainty						±20.34%	±19.779%

DAYS5 System Check Uncertainty for 150 MHz to 3GHz averaged range								
Error Description	Uncer. value (±10%)	Prob. Dist.	Div.	(Ci) 1g	(Ci) 10g	Std. Unc. (1g)	Std. Unc. (10g)	(v_i) V_{eff}
Measurement System								
Probe Calibration	6	Normal	1	1	1	6.00	6.00	∞
Axial Isotropy	0.25	Rectangular	√3	1	1	0.14	0.14	∞
Hemispherical Isotropy	1.3	Rectangular	√3	1	1	0.75	0.75	∞
Boundary Effects	0.3	Rectangular	√3	1	1	0.17	0.17	∞
Linearity	1.65	Rectangular	√3	1	1	0.95	0.95	∞
System Detection Limits	0.9	Rectangular	√3	1	1	0.52	0.52	∞
Modulation Response	0.9	Rectangular	√3	1	1	0.52	0.52	∞
Readout Electronics	0.2	Normal	1	1	1	0.20	0.20	∞
Response Time	0	Rectangular	√3	1	1	0.00	0.00	∞
Integration Time	0	Rectangular	√3	1	1	0.00	0.00	∞
RF Ambient Noise	0.9	Rectangular	√3	1	1	0.52	0.52	∞
RF Ambient Reflection	0.9	Rectangular	√3	1	1	0.52	0.52	∞
Probe Positioner	0.7	Rectangular	√3	1	1	0.40	0.40	∞
Probe Positioning	6.5	Rectangular	√3	1	1	3.75	3.75	∞
Max. SAR Eval.	3.8	Rectangular	√3	1	1	2.19	2.19	∞
Dipole Related								
Deviation of exp. dipole	5.3	Rectangular	√3	1	1	3.06	3.06	∞
Dipole Axis to Liquid Dist.	2.0	Rectangular	√3	1	1	1.15	1.15	∞
Input power & SAR drift	3.3	Rectangular	√3	1	1	1.91	1.91	∞
Phantom and Setup								
Phantom Uncertainty (Shape and thickness tolerances)	0.05	Normal	√3	1	1	0.03	0.03	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	1.9	Rectangular	1	1	0.84	1.90	1.60	∞
Liquid conductivity measurement	5	Normal	1	0.78	0.71	3.90	3.55	∞
Liquid permittivity measurement	5	Rectangular	1	0.23	0.26	1.15	1.30	∞
Liquid conductivity – temperature uncertainty	5	Rectangular	√3	0.78	0.71	2.25	2.05	∞
Liquid permittivity – temperature uncertainty	5	Rectangular	√3	0.23	0.26	0.66	0.75	∞
Combined Std. Uncertainty						9.38	9.080	
Expanded STD Uncertainty						±18.77%	±18.16%	

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11. CONDUCTED POWER MEASUREMENT

WIFI

Mode	Data Rate (Mbps)	Channel	Frequency(MHz)	EIRP (dBm)
802.11b	1	1	2412	**13.15**
		7	2442	12.92
		13	2472	12.24
802.11g	6	1	2412	10.62
		7	2442	10.98
		13	2472	10.48
802.11n(20)	6.5	1	2412	10.68
		7	2442	10.98
		13	2472	10.38
802.11n(40)	13.5	3	2422	9.43
		7	2442	9.62
		11	2462	9.35

12. TEST RESULTS

12.1. SAR Test Results Summary

12.1.1. Test position and configuration

Body SAR was performed with the device 0mm from the phantom according to IEC/EN62209-2.

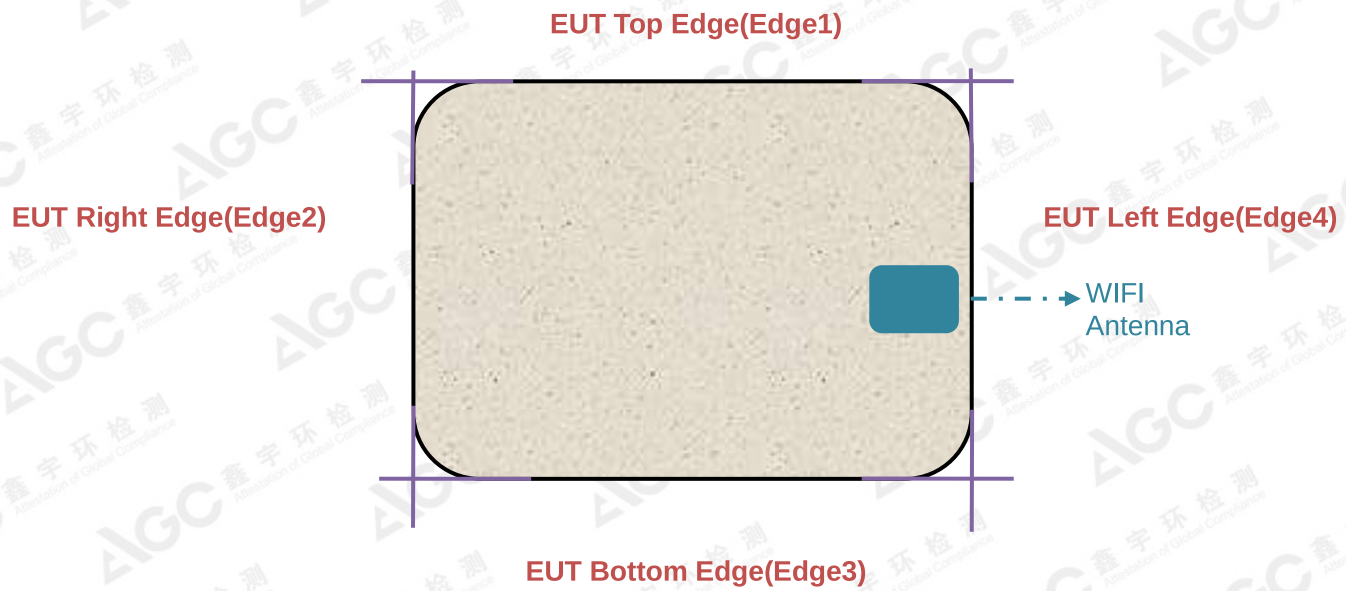
12.1.2. Operation Mode

1. For WIFI SAR testing, the EUT has installed WIFI engineering testing software which can provide continuous transmitting RF signal.

2. Sensors have no any influence on power level or SAR result.

3. According to EN62209-2, annex K 2.2, SAR is not required for Bluetooth, because its maximum output power is less than 13 dBm.

12.1.3. Antenna Location: (back view)



12.1.4. SAR Test Results Summary

SAR MEASUREMENT									
Depth of Liquid (cm):>15				Relative Humidity (%): 53.9					
Product: Tablet PC									
Test Mode: 802.11b									
Position	**Mode**	**Ch.**	**Fr. (MHz)**	**Power Drift (<±0.2)**	**SAR (10g) (W/kg)**	**Max. Tune-up Power (dBm)**	**Meas. output Power (dBm)**	**Scaled SAR (W/Kg)**	**Limit W/kg**
Body back	DTS	1	2412	0.01	0.468	14.00	13.15	**0.569**	2.0
Body front	DTS	1	2412	-0.03	0.324	14.00	13.15	0.394	2.0
Body back + Ear.	DTS	1	2412	0.12	0.402	14.00	13.15	0.489	2.0
Edge 4 (Left)	DTS	1	2412	-0.07	0.326	14.00	13.15	0.396	2.0
Edge 1 (Top)	DTS	1	2412	0.02	0.294	14.00	13.15	0.358	2.0
Edge 3 (Bottom)	DTS	1	2412	0.12	0.144	14.00	13.15	0.175	2.0

Note:
- When the 10-g SAR is ≤ 1.0W/kg, testing for low and high channel is optional.
- The test separation of all above table(body part) is 0mm.

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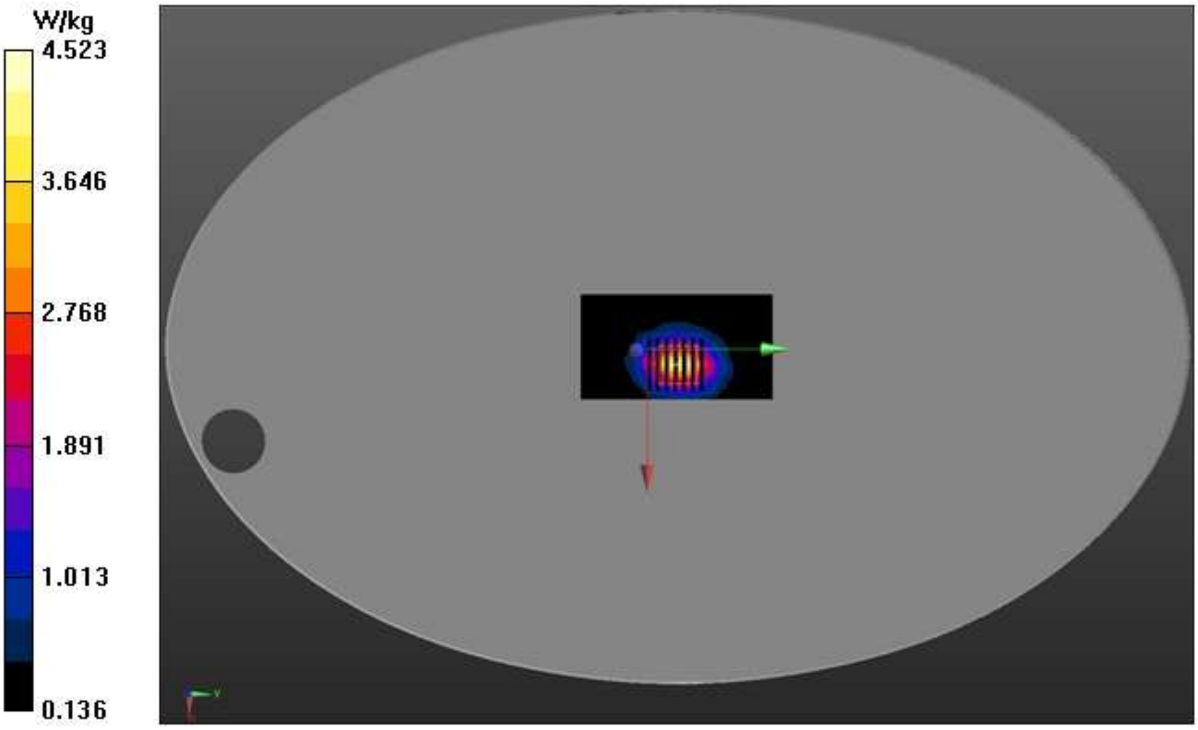
APPENDIX A. SAR SYSTEM CHECK DATA

Test Laboratory: AGC Lab **Date: Aug. 13,2016**
System Check Head 2450 MHz
DUT: Dipole 2450 MHz Type: D2450V2

Communication System: CW; Communication System Band: D2450 (2450.0 MHz); Duty Cycle: 1:1;
Frequency: 2450 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section; Input Power=18dBm
Ambient temperature (℃): 22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP: 1210
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

Configuration/System Check Head 2450MHz / Area Scan (9x12x1): Measurement grid: dx=10mm, dy=10mm
Maximum value of SAR (measured) = 4.39 W/kg
Configuration/System Check Head 2450MHz/ Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm
Reference Value = 37.141 V/m; Power Drift = -0.05 dB
Peak SAR (extrapolated) = 7.19 W/kg
SAR(1 g) = 3.44 W/kg; SAR(10 g) = 1.64 W/kg
Maximum value of SAR (measured) = 4.523W/kg



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APPENDIX B. SAR MEASUREMENT DATA

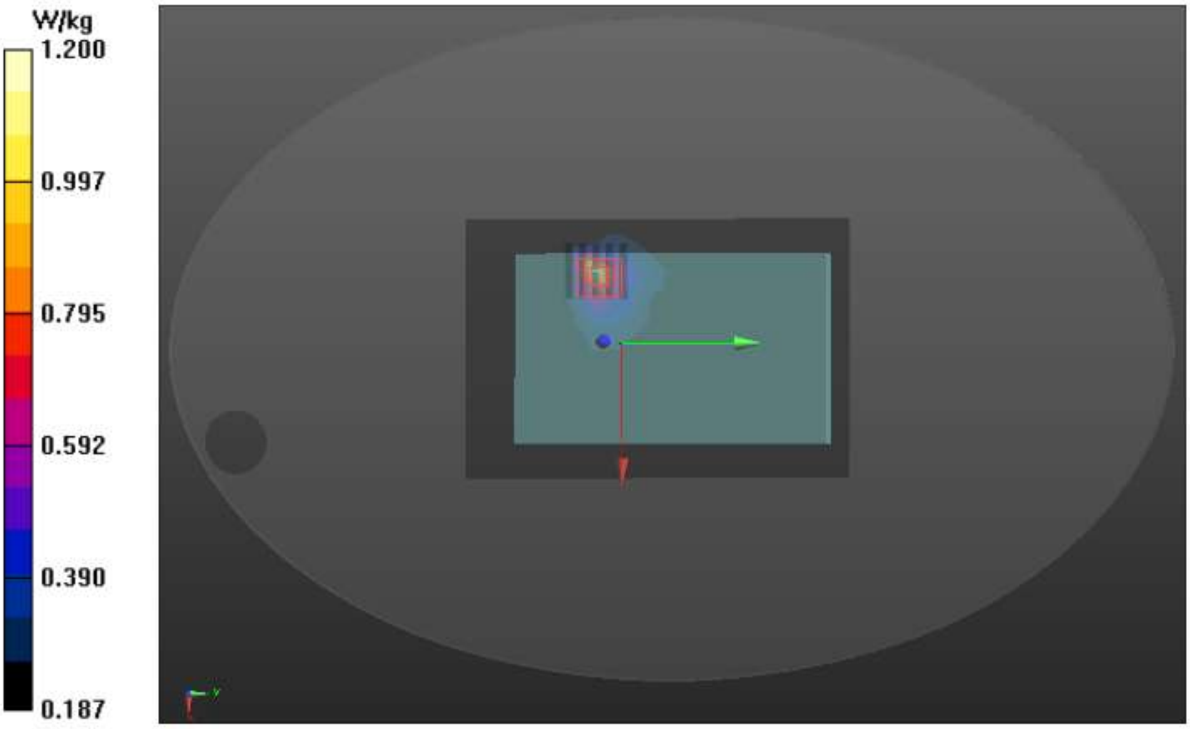
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low-Body- Back (DTS)
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

B-WIFI/BACK-L/Area Scan (11x16x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 1.21 W/kg

B-WIFI/BACK-L/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.802 V/m; Power Drift = 0.01 dB
Peak SAR (extrapolated) = 2.50 W/kg
SAR(1 g) = 0.914 W/kg; SAR(10 g) = 0.468 W/kg
Maximum value of SAR (measured) = 1.20 W/kg



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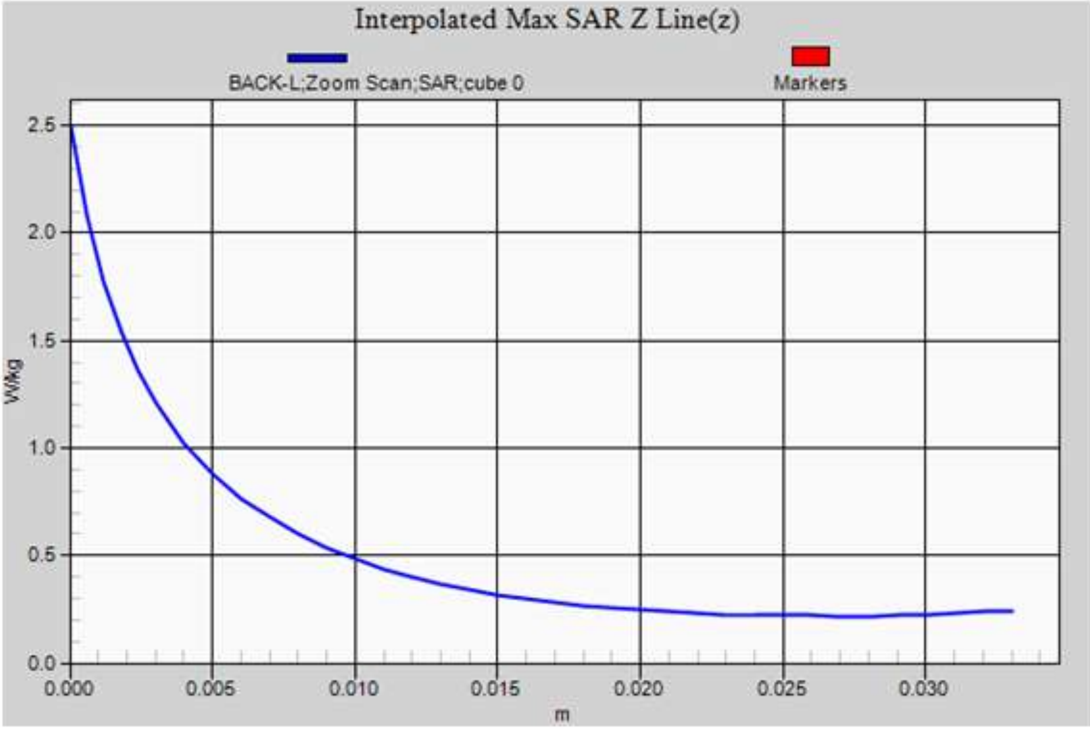

Interpolated Max SAR Z Line(z)
BACK-L;Zoom Scan;SAR;cube 0
Markers
2.5
2.0
1.5
1.0
0.5
0.0
W/kg
0.000
0.005
0.010
0.015
0.020
0.025
0.030
m

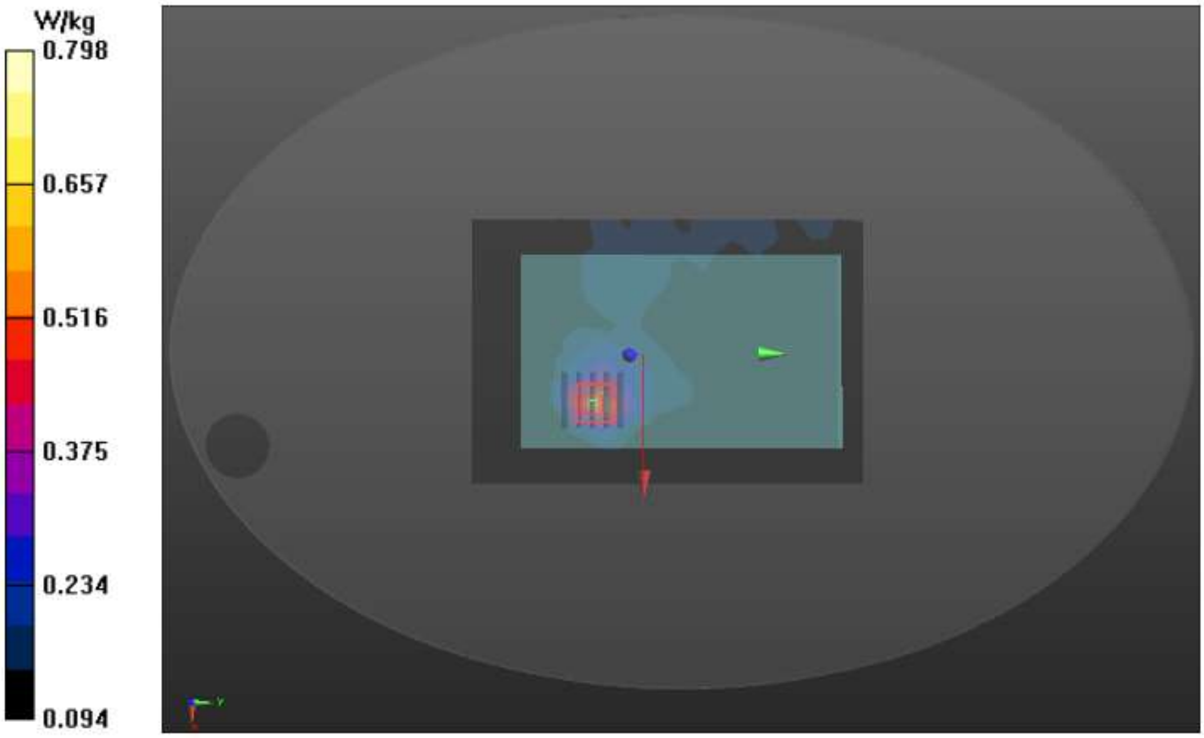
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low-Body- Front (DTS)
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
• Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
• Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
• Electronics: DAE4 SN1398; Calibrated: 02/02/2016
• Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
• DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

B-WIFI/FRONT-L /Area Scan (11x16x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.688 W/kg

B-WIFI/FRONT-L /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.698 V/m; Power Drift = -0.03 dB
Peak SAR (extrapolated) = 1.76 W/kg
SAR(1 g) = 0.659 W/kg; SAR(10 g) = 0.324 W/kg
Maximum value of SAR (measured) = 0.798 W/kg



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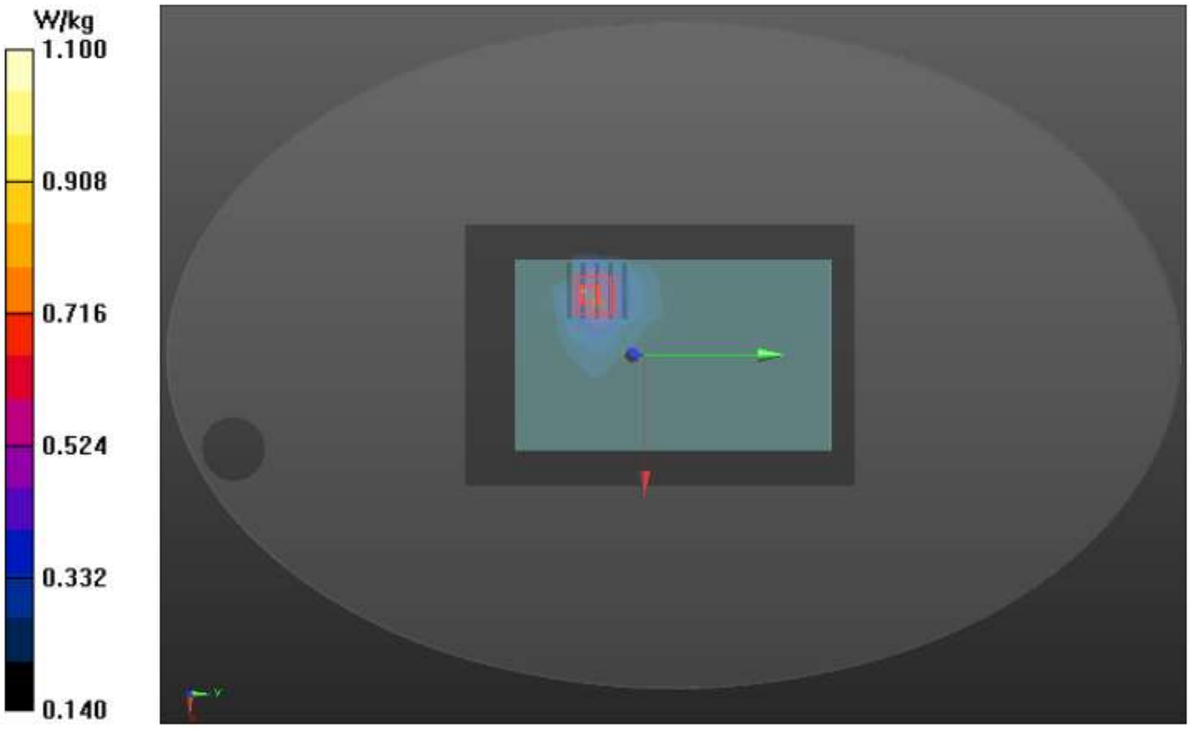
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low-Body- Back (DTS) –with earphone
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

B-WIFI/EARPHONE-L /Area Scan (11x16x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.783 W/kg

B-WIFI/EARPHONE-L /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 8.944 V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 2.38 W/kg
SAR(1 g) = 0.821 W/kg; SAR(10 g) = 0.402 W/kg
Maximum value of SAR (measured) = 1.10 W/kg



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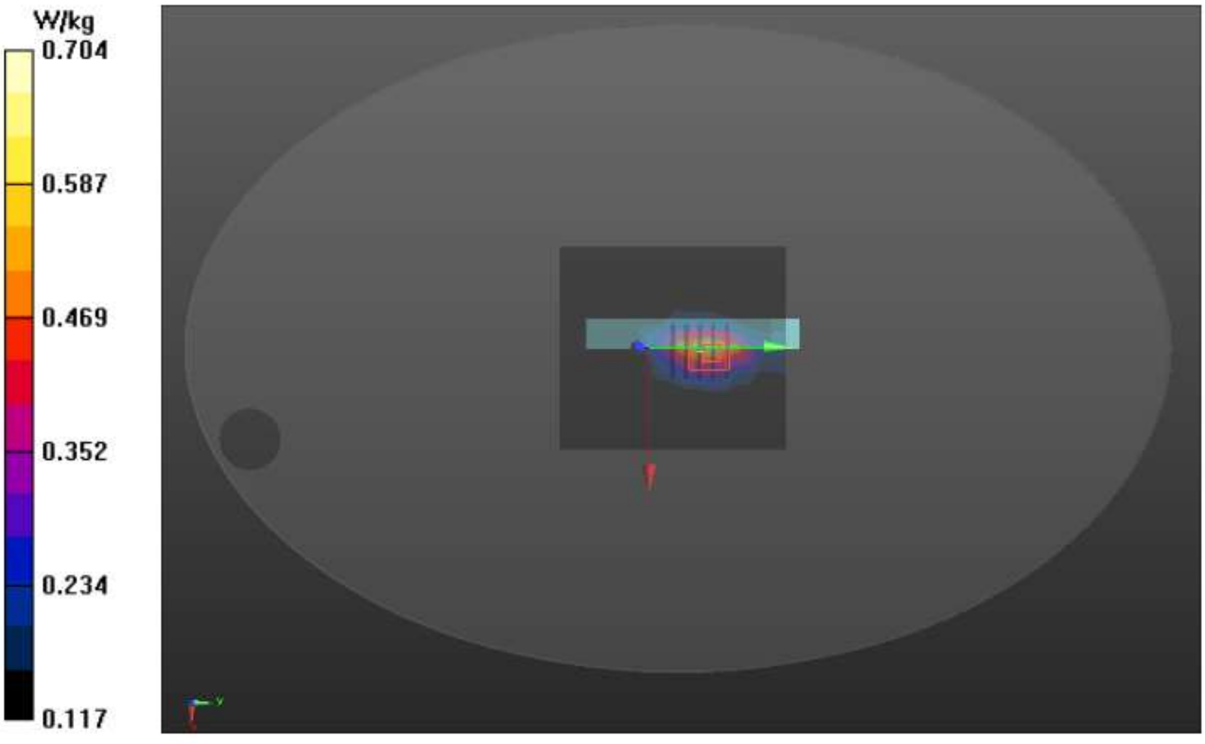
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low- Edge 4(DTS)
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

B-WIFI/ Edge4-L /Area Scan (9x10x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.655 W/kg

B-WIFI/ Edge4-L /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 16.953 V/m; Power Drift = -0.07 dB
Peak SAR (extrapolated) = 1.29 W/kg
SAR(1 g) = 0.567 W/kg; SAR(10 g) = 0.326 W/kg
Maximum value of SAR (measured) = 0.704 W/kg



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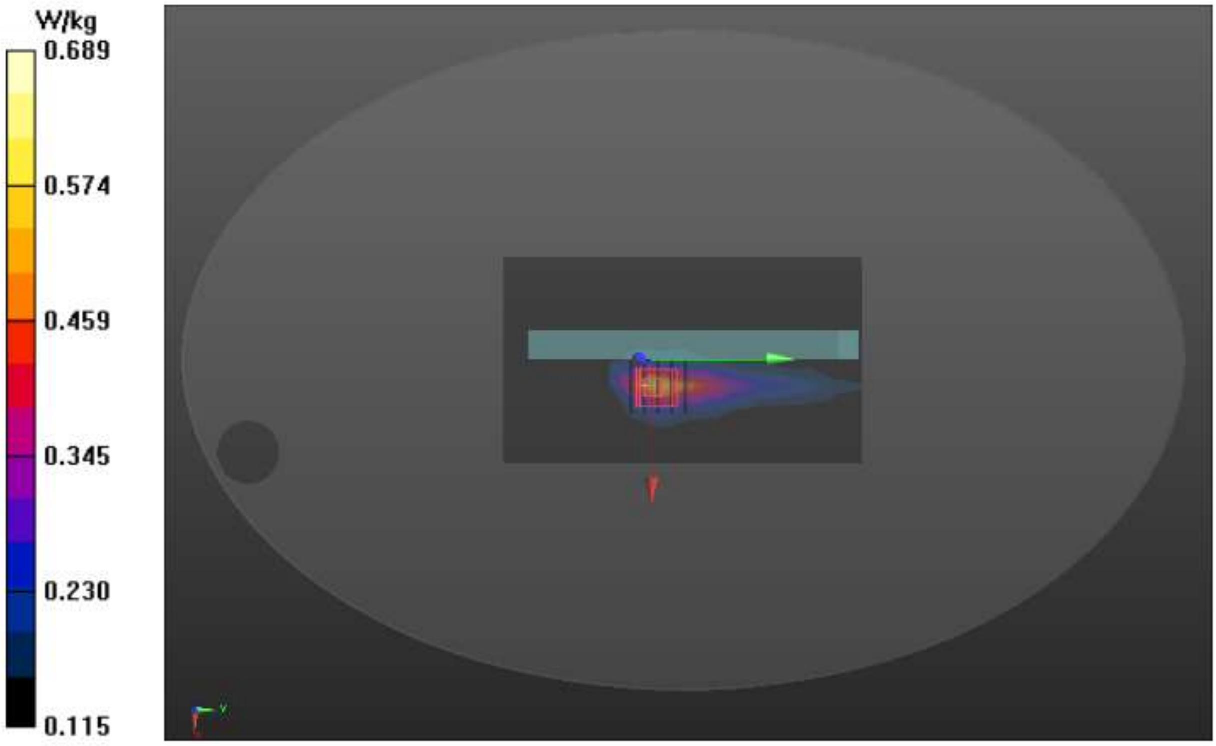
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low- Edge 1 (DTS)
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

BODY/ Edge1-L /Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.667 W/kg

BODY/Edge1-L /Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 9.989 V/m; Power Drift = 0.02 dB
Peak SAR (extrapolated) = 1.27 W/kg
SAR(1 g) = 0.543 W/kg; SAR(10 g) = 0.294 W/kg
Maximum value of SAR (measured) = 0.689 W/kg



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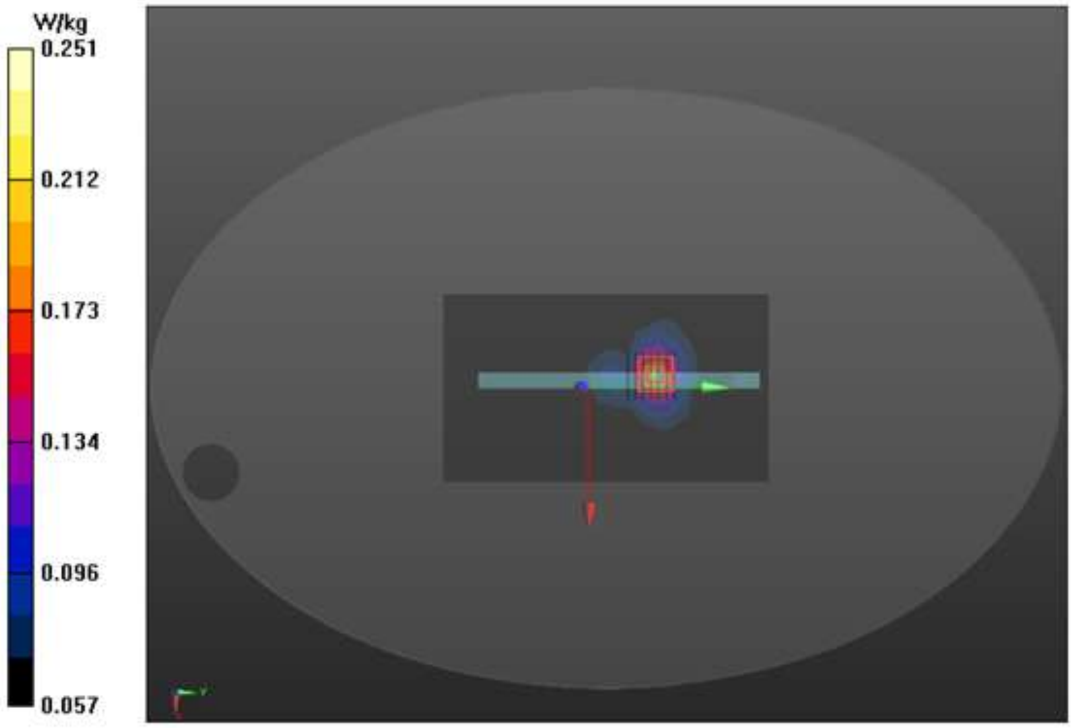
Test Laboratory: AGC Lab **Date: Aug. 13,2016**
802.11b Low- Edge 3(DTS)
DUT: Tablet PC ; Type: Navo S

Communication System: Wi-Fi; Communication System Band: 802.11b; Duty Cycle: 1:1;
Frequency: 2412 MHz; Medium parameters used: f = 2450 MHz; σ =1.81 mho/m; εr =40.02; ρ= 1000 kg/m³ ;
Phantom section: Flat Section
Ambient temperature (℃):22.6, Liquid temperature (℃): 21.9

DASY Configuration:
- Probe: ES3DV3 – SN3337; ConvF(4.66, 4.66, 4.66); Calibrated:10/01/2015
- Sensor-Surface: 3mm (Mechanical Surface Detection), z = 1.0, 31.0
- Electronics: DAE4 SN1398; Calibrated: 02/02/2016
- Phantom: ELI v5.0; Type: QDOVA002AA; Serial: TP:1210;
- DASY52 52.8.7(1137); SEMCAD X 14.6.10(7164)

WIFI/ Edge3-L /Area Scan (9x15x1): Measurement grid: dx=15mm, dy=15mm
Maximum value of SAR (measured) = 0.234 W/kg

WIFI/Edge3-L /Zoom Scan (8x8x15)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm
Reference Value = 4.609V/m; Power Drift = 0.12 dB
Peak SAR (extrapolated) = 0.376 W/kg
SAR(1 g) = 0.217 W/kg; SAR(10 g) = 0.144W/kg
Maximum value of SAR (measured) = 0.251 W/kg



APPENDIX C. TEST SETUP PHOTOGRAPHS

Body Back 0mm

Body Front 0mm

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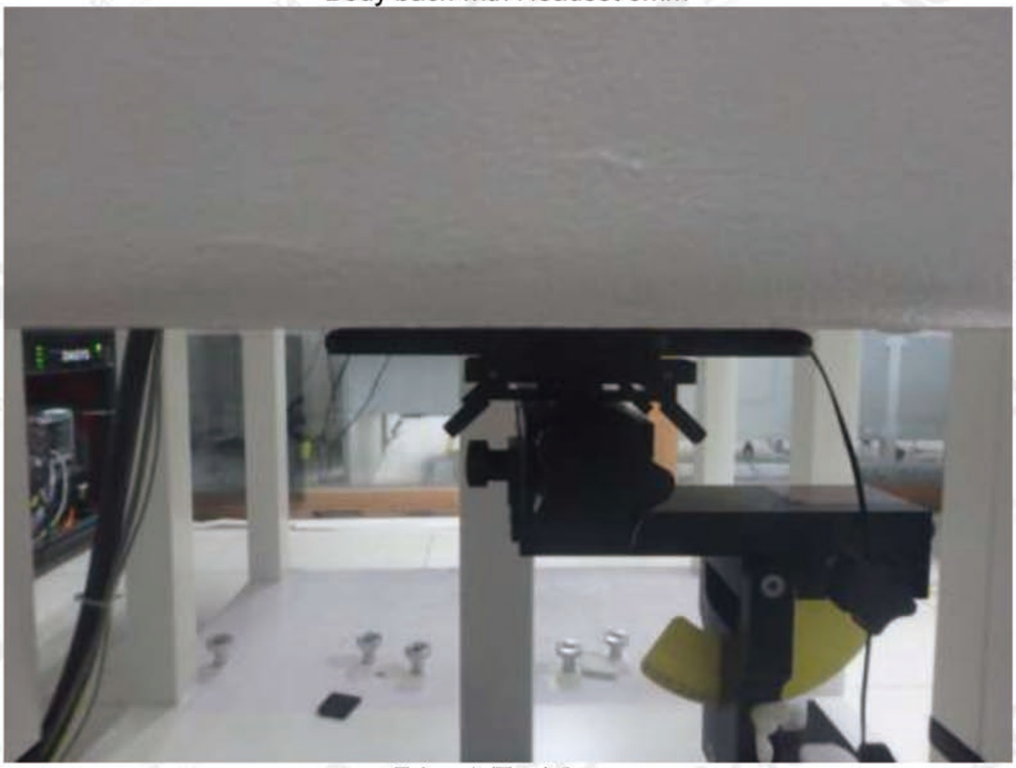
Body back with Headset 0mm



Edge 1 (Top) 0mm

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Edge 3 (Bottom) 0mm

Edge 4 (Left) 0mm

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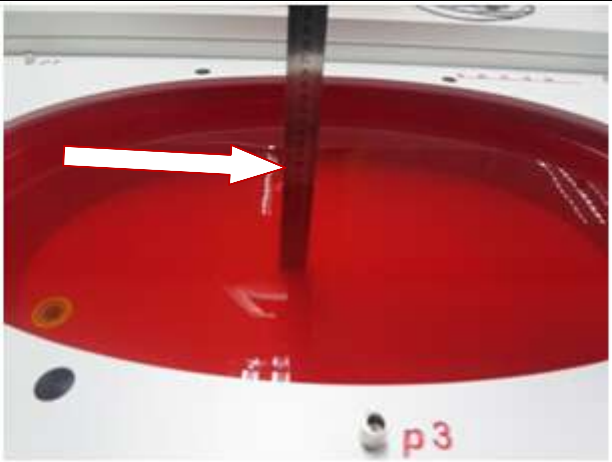
DEPTH OF THE LIQUID IN THE PHANTOM—ZOOM IN

Note：The position used in the measurement were according to EN/IEC62209-2

2450MHz body	
	

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APPENDIX D. CALIBRATION DATA

Refer to Attached files.

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