Date of Issue: January 19, 2017 (KunShan) Inc. Reference No: C160108S02-SE

Report No .: C161227S01-SE

In accordance with the requirements of Report and Order: ET Docket 93-62 ; FCC 47 CFR Part 2 (2.1093) ;

SAR TEST REPORT

For

Product Name: HD DIAGNOSTIC TABLET Brand Name : CanDo Model No : HD Pro Tab Series Model: N/A Test Report Number: C161227S01-SF

Issued for

CanDo International, Inc. 138 E Lemon Ave, Monrovia, CA 91016

Issued by

Compliance Certification Services Inc.

Kun shan Laboratory No.10 Weiye Rd., Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China TEL: 86-512-57355888 FAX: 86-512-57370818



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Revision History

Revision	REPORT NO.	Date	Page Revised	Contents
Original	C160108S02-SF	January 22, 2016	N/A	N/A
01	C161227S01-SF	December 27, 2016	1,4,5	Update Product Name, Brand Name, Model Name, FCC ID, Applicant and Manufacturer information.
02	C161227S01-SF	January 19, 2017	8	Add 5GHz tissue recipes.

 Compliance Certification Services (KunShan) Inc.

 Date of Issue: January 19, 2017
 Reference No: C160108S

Reference No: C160108S02-SE Report No .: C161227S01-SE

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1. CERTIFICATE OF COMPLIANCE (SAR EVALUATION)

Product Name:	Product Name: HD DIAGNOSTIC TABLET				
Brand Name:	CanDo				
Model Name.:	HD Pro Tab				
Series Model:	N/A				
Device Category:	PROTABLE DEVICES				
Exposure Category:	GENERAL POPULATION/	JNCONTROLLED EXPOSURE			
Date of Test:	January 18, 2016				
Applicant:	CanDo International, Inc. 138 E Lemon Ave, Monrovia, CA 91016				
Manufacturer:	SHENZHEN FCAR TECHNOLOGY CO.,LTD 8F, Chuangyi Bldg., No. 3025, Nanhai Ave., Nanshan, Shenzhen, China				
Application Type:	Certification				
ļ	APPLICABLE STANDARDS	AND TEST PROCEDURES			
STANDARDS AND TEST PROCEDURES TEST RESULT					
KDB 865664 No non-compliance noted					
Deviation from Applicable Standard					
None					
The device was tested by Compliance Certification Services Inc. in accordance with the measurement					

The device was tested by Compliance Certification Services Inc. 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.

Approved by:	Tested by:			
Jeff fang	Sam. ye.			
Jeff.fang RF Manager Compliance Certification Services Inc.	Sam.ye Test Engineer Compliance Certification Services Inc.			

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2. EUT DESCRIPTION

Product Name:	HD DIAGNOSTIC TABLET			
Brand Name:	CanDo			
Model Name.:	HD Pro Tab			
Series Model:	N/A			
Model Discrepancy:	N/A			
FCC ID:	2AKNY-IDSPROTAB			
Software version	EM_I12_MB_PCB_V14R1			
Hardware version	10.0.10586.Build 10586			
Power reduction:	NO			
DTM Description:	N/A			
Device Category:	Production unit			
Frequency Range:	WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz Bluetooth: 2402 MHz ~ 2480 MHz			
Modulation Technique:	IEEE 802.11a: OFDM IEEE 802.11n5G HT20 MHz Mode: OFDM IEEE 802.11n5G HT40 MHz Mode: OFDM			
Accessories:	Battery(rating):			
Antenna Specification:	WIFI/ Bluetooth: FPC antenna			
Operating Mode:	Maximum continuous output			

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2.1 STATEMENT OF COMPLIANCE

The maximum results of Specific Absorption Rate (SAR) found during testing for **MobileDemand**, LC., **10.1 Inch Full Ruggedized Tablet**, **xTablet T1500**, are as follows.

		Highest SAR Summary				
Equipment Class	Frequency Band	Body 1g SAR (W/kg)	Simultaneous Transmission 1g SAR (W/kg)			
DTS	2.4GHz WLAN	0.258				
NII	5.2GHz WLAN	0.079				
	5.8GHz WLAN	0.165				

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg) specified in FCC 47 CFR part 2 (2.1093), and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013.

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3. REQUIREMENTS FOR COMPLIANCE TESTING DEFINED BY THE FCC

The US Federal Communications Commission has released the report and order "Guidelines for Evaluating the Environmental Effects of RF Radiation", ET Docket No. 93-62 in August 1996. The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 1.6 W/Kg for an uncontrolled environment and 8.0 W/Kg for an occupational/controlled environment as recommended by the FCC 47 CFR Part 2 (2.1093);

4. TEST METHODOLOGY

The Specific Absorption Rate (SAR) testing specification, method and procedure for this <u>device</u> is in accordance with the following standards:

FCC 47 CFR Part 2 (2.1093)

🛛 KDB 248227 D01 v02r02 802.11 Wi-Fi SAR

KDB 447498 D01v06 General RF Exposure Guidance

KDB 865664 D01v01r04 Measurement 100 MHz to 6 GHz

KDB 865664 D02v01r02 RF Exposure Reporting

KDB 616217 D04 v01r02 SAR for laptop and tablets

5. TEST CONFIGURATION

During WLAN SAR testing EUT is configured with the WLAN continuous TX tool, and the transmission duty factor was monitored on the spectrum analyzer with zero-span setting For WLAN SAR testing, WLAN engineering test software installed on the EUT can provide continuous transmitting RF signal and the duty cycle is 100%.

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6. DOSIMETRIC ASSESSMENT SETUP

These measurements were performed with the automated near-field scanning system DASY 5 from ATTENNESSA. The system is based on a high precision robot (working range greater than 0.9 m), which positions the probes with a positional repeatability of better than \pm 0.02 mm. Special E- and H-field probes have been developed for measurements close to material discontinuity, the sensors of which are directly loaded with a Schottky diode and connected via highly resistive lines to the data acquisition unit. The SAR measurements were conducted with the E-field PROBE EX3DV4 (manufactured by SPEAG), designed in the classical triangular configuration and optimized for dosimetric evaluation. The probe has been calibrated according to the procedure described in [7] with accuracy of better than \pm 10%. The spherical isotropy was evaluated with the procedure described in [8] and found to be better than \pm 0.25 dB. The phantom used was the SAM Twin Phantom as described in FCC supplement C, IEE P1528 and IEC 62209.

The following table gives the recipes for tissue simulating liquids.

Ingredients	Frequency (MHz)										
(% by weight)	45	50	83	835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body	
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2	
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04	
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0	
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0	
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0	
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0	
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7	
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5	
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78	

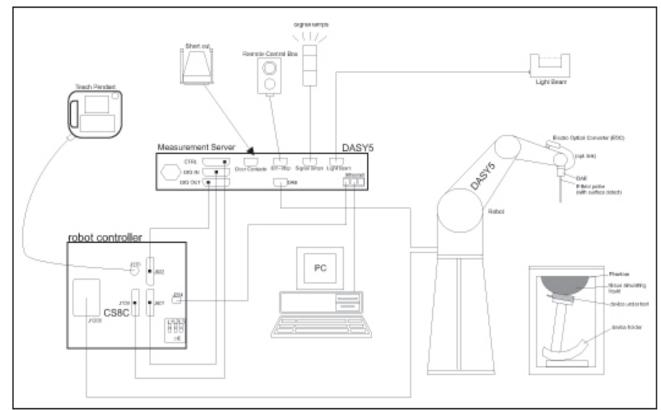
Simulating Liquids for 5 GHz, Manufactured by SPEAG

Ingredients	(% by weight)
Water	78
Mineral oil	11
Emulsifiers	9
Additives and Salt	2

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6.1 MEASUREMENT SYSTEM DIAGRAM



The DASY5 system for performing compliance tests consists of the following items:

- A standard high precision 6-axis robot (St'aubli RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to the DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand and right-hand usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing validating the proper functioning of the system.

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6.2 SYSTEM COMPONENTS



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Dimensions: Overall length: 337 mm (Tip: 9 mm) Tip diameter: 2.5 mm (Body: 10 mm) Distance from probe tip to dipole centers: 1 mm Application: High precision dosimetric measurements in any exposure scenario (e.g., very strong

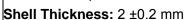
in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.



SAM Twin Phantom

Construction:

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528-200X, CENELEC 50360 and IEC 62209. It 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 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 with the robot.



Filling Volume: Approx. 25 liters

Dimensions: Height: 850mm; Length: 1000mm; Width: 750mm

SAM Phantom (ELI4 v4.0)

Description Construction:

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209 Part II and all known tissue simulating liquids. ELI4 has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is supported by software version DASY4/DASY5.5 and higher and is compatible with all SPEAG dosimetric probes and dipoles

Shell Thickness:2.0 ± 0.2 mm (sagging: <1%)</th>Filling Volume:Approx. 25 litersDimensions:Major ellipse axis: 600 mmMinor axis:400 mm 500mm





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Exampliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Device Holder for SAM Twin Phantom **Construction:** In combination with the Twin SAM Phantom, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, and flat phantom). System Validation Kits for SAM Twin Phantom **Construction:** Symmetrical dipole with I/4 balun Enables measurement of feedpoint impedance with NWA Matched for use near flat phantoms filled with brain simulating solutions Includes distance holder and tripod adaptor. 900,1800,2450,5800 MHz Frequency: ReTune loss: > 20 dB at specified validation position

Power capability: > 100 W (f < 1GHz); > 40 W (f > 1GHz)

Dimensions:

D835V2: dipole length: 161 mm; overall height: 340 mm D1800V2: dipole length: 72.5 mm; overall height: 300 mm D1900V2: dipole length: 67.7 mm; overall height: 300 mm D2450V2: dipole length: 51.5 mm; overall height: 290 mm D5GHzV2: dipole length: 20.6 mm; overall height: 300mm

System Validation Kits for ELI4 phantom

Construction: Symmetrical dipole with I/4 balun Enables measurement of feedpoint impedance with NWA Matched for use near flat phantoms filled with brain simulating solutions Includes distance holder and tripod adaptor.

Frequency: 900, 1800, 2450, 5800 MHz

ReTune loss: > 20 dB at specified validation position

Power capability: > 100 W (f < 1GHz); > 40 W (f > 1GHz)

Dimensions:

D835V2: dipole length: 161 mm; overall height: 340 mm D1800V2: dipole length: 72.5 mm; overall height: 300 mm D1900V2: dipole length: 67.7 mm; overall height: 300 mm D2450V2: dipole length: 51.5 mm; overall height: 290 mm D5GHzV2: dipole length: 20.6 mm; overall height: 300 mm



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7. EVALUATION PROCEDURES

DATA EVALUATION

The DASY 5 post processing 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	Norm _i , a_{i0} , a_{i1} , a_{i2}
	- Conversion factor	ConvF _i
	- Diode compression point	dcp _i
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 be imported into the software from the configuration files issued for the DASY 5 components. In the direct measuring mode of the multi-meter 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:

$$V_i = U_i + U_i^2 \cdot \frac{cf}{dcp_i}$$

with V_i

Compensated signal of channel i(i = x, y, z)
 Input signal of channel i (i = x, y, z)
 Crest factor of exciting field (DASY 5 parameter)

cf= Crest factor of exciting field(DASY 5 parameter)dcpi= Diode compression point(DASY 5 parameter)

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

E-field probes:

Ui

$$E_i = \sqrt{\frac{V_i}{Norm_i \bullet ConvF}}$$

H-field probes:

$$H_i = \sqrt{Vi} \cdot \frac{a_{i10} + a_{i11}f + a_{i12}f}{f}$$

with V_i = Compensated signal of channel i(i = x, y, z)

 $Norm_i$ = Sensor sensitivity of channel i (i = x, y, z)

 μ V/(V/m)² for E0field Probes

ConvF

= Sensitivity enhancement in solution

aij = Sensor sensitivity factors for H-field probes

- f = Carrier frequency (GHz)
- *Ei* = Electric field strength of channel i in V/m
- *Hi* = Magnetic field strength of channel i in A/m

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

$$E_{tot} = \sqrt{E_x^2 + E_y^2 + E_z^2}$$

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1000}$$

with SAR = local specific absorption rate in mW/g

 E_{tot} = 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 as a free space field.

$$P_{pwe} = \frac{E_{tot}^2}{3770}$$
 or $P_{pwe} = H_{tot}^2 \cdot 37.7$

with P_{pwe} = Equivalent power density of a plane wave in mW/cm² E_{tot} = total electric field strength in V/m

 H_{tot} = total magnetic field strength in A/m

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SAR EVALUATION PROCEDURES

The procedure for assessing the peak spatial-average SAR value consists of the following steps:

• Power Reference Measurement

The reference and drift jobs are useful jobs for monitoring the power drift of the device under test in the batch process. Both jobs measure the field at a specified reference position, at a selectable distance from the phantom surface. The reference position can be either the selected section's grid reference point or a user point in this section. The reference job projects the selected point onto the phantom surface, orients the probe perpendicularly to the surface, and approaches the surface using the selected detection method.

• 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 finer measurement around the hot spot. The sophisticated interpolation routines implemented in DASY 5 software can find the maximum locations even in relatively coarse grids. The scan area is defined by an editable grid. This grid is anchored at the grid reference point of the selected section in the phantom. When the area scan's property sheet is brought-up, grid was at to 15 mm by 15 mm and can be edited by a user.

Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 g and 10 g of simulated tissue. The default zoom scan measures $5 \times 5 \times 7$ points within a cube whose base faces are centered around the maximum found in a preceding area scan job within the same procedure. If the preceding Area Scan job indicates more then one maximum, the number of Zoom Scans has to be enlarged accordingly (The default number inserted is 1).

• 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 one reference measurement. This allows a user to monitor the power drift of the device under test within a batch process. In the properties of the Drift job, the user can specify a limit for the drift and have DASY 5 software stop the measurements if this limit is exceeded.

• Z-Scan

The Z Scan job measures points along a vertical straight line. The line runs along the Z-axis of a one-dimensional grid. A user can anchor the grid to the current probe location. As with any other grids, the local Z-axis of the anchor location establishes the Z-axis of the grid.

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SPATIAL PEAK SAR EVALUATION

The procedure for spatial peak SAR evaluation has been implemented according to the IEEE1529 standard. It can be conducted for 1 g and 10 g.

The DASY 5 system allows evaluations that combine measured data and robot positions, such as:

- maximum search
- extrapolation
- boundary correction
- peak search for averaged SAR

During a maximum search, global and local maximum searches are automatically performed in 2-D after each Area Scan measurement with at least 6 measurement points. It is based on the evaluation of the local SAR gradient calculated by the Quadratic Shepard's method. The algorithm will find the global maximum and all local maxima within -2 dB of the global maxima for all SAR distributions.

Extrapolation

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. Several measurements at different distances are necessary for the extrapolation.

Extrapolation routines require at least 10 measurement points in 3-D space. They are used in the Cube Scan to obtain SAR values between the lowest measurement points and the inner phantom surface. The routine uses the modified Quadratic Shepard's method for extrapolation. For a grid using 5x5x7 measurement points with 5mm resolution amounting to 343 measurement points, the uncertainty of the extrapolation routines is less than 1% for 1 g and 10 g cubes.

Boundary effect

For measurements in the immediate vicinity of a phantom surface, the field coupling effects between the probe and the boundary influence the probe characteristics. Boundary effect errors of different dosimetric probe types have been analyzed by measurements and using a numerical probe model. As expected, both methods showed an enhanced sensitivity in the immediate vicinity of the boundary. The effect strongly depends on the probe dimensions and disappears with increasing distance from the boundary. The sensitivity can be approximately given as:

$$S \approx S_o + S_b exp(-\frac{z}{a})cos(\pi \frac{z}{\lambda})$$

Since the decay of the boundary effect dominates for small probes ($a <<\lambda$), the cos-term can be omitted. Factors *Sb* (parameter Alpha in the DASY 5 software) and *a* (parameter Delta in the DASY 5 software) are assessed during probe calibration and used for numerical compensation of the boundary effect. Several simulations and measurements have confirmed that the compensation is valid for different field and boundary configurations.

This simple compensation procedure can largely reduce the probe uncertainty near boundaries. It works well as long as:

- the boundary curvature is small
- the probe axis is angled less than 30_ to the boundary normal
- the distance between probe and boundary is larger than 25% of the probe diameter
- the probe is symmetric (all sensors have the same offset from the probe tip)

Since all of these requirements are fulfilled in a DASY 5 system, the correction of the probe boundary effect in the vicinity of the phantom surface is performed in a fully automated manner via the measurement data extraction during post processing.

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8. MEASUREMENT UNCERTAINTY

Measurement uncertainty for 30 MHz to 3 GHz averaged over 1 gram						
Uncertainty Component	Uncertainty	Prob.	Div.	C _{i (1g)}	Std. Unc.(1-g)	Vi or Veff
Measurement System						
Probe Calibration (<i>k</i> =1)	6.00	Normal	1	1	6.00	∞
Probe Isotropy	4.70	Rectangular	√3	0.7	1.90	∞
Modulation Response	2.40	Rectangular	√3	1	1.39	∞
Hemispherical Isotropy	9.60	Rectangular	√3	0.7	3.88	∞
Boundary Effect	2.00	Rectangular	√3	1	1.15	∞
Linearity	4.70	Rectangular	√3	1	2.71	∞
System Detection Limit	1.00	Rectangular	√3	1	0.58	∞
Readout Electronics	0.30	Normal	1	1	0.30	∞
Response Time	0.80	Rectangular	√3	1	0.46	∞
Integration Time	2.60	Rectangular	√3	1	1.50	∞
RF Ambient Noise	3.00	Rectangular	√3	1	1.73	∞
RF Ambient Reflections	3.00	Rectangular	√3	1	1.73	∞
Probe Positioner	0.40	Rectangular	√3	1	0.23	∞
Probe Positioning	2.90	Rectangular	√3	1	1.67	∞
Max. SAR Evaluation	2.00	Rectangular	√3	1	1.15	∞
Test sample Related	1	·			I	I
Test sample Positioning	2.9	Normal	1	1	2.9	145
Device Holder Uncertainty	3.6	Normal	1	1	3.6	5
Power drift	5	Rectangular	√3	1	2.89	∞
Power Scaling	0	Rectangular	√3	1	0.00	∞
Phantom and Tissue Param	neters			<u> </u>		
Phantom Uncertainty	6.1	Rectangular	√3	1	3.52	∞
SAR correction	1.9	Rectangular	√3	1	1.10	∞
Liquid Conductivity (target)	5	Rectangular	√3	0.64	1.85	∞
Liquid Conductivity (meas)	-0.41	Rectangular	√3	0.78	-0.18	∞
Liquid Permittivity (target)	5	Rectangular	√3	0.6	1.73	∞
Liquid Permittivity (meas)	-1.77	Rectangular	√3	0.26	-0.27	∞
Temp. unc Conductivity	3.4	Rectangular	√3	0.78	1.53	∞
Temp. unc Permittivity	0.4	Rectangular	√3	0.23	0.05	∞
Combined Std. Uncertainty		RSS			11.43	361
Expanded STD Uncertainty		<i>k</i> =2	<u> </u>		22.85	5%

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Measurement uncertainty for 3 GHz to 6 GHz averaged over 1 gram						
Uncertainty Component	Uncertainty	Prob.	Div.	C _{i (1g)}	Std. Unc.(1- g)	V i or Veff
Measurement System						
Probe Calibration (k=1)	6.55	Normal	1	1	6.55	8
Probe Isotropy	4.70	Rectangular	√3	0.7	1.90	8
Modulation Response	2.40	Rectangular	√3	1	1.39	8
Hemispherical Isotropy	9.60	Rectangular	√3	0.7	3.88	8
Boundary Effect	2.00	Rectangular	√3	1	1.15	8
Linearity	4.70	Rectangular	√3	1	2.71	×
System Detection Limit	1.00	Rectangular	√3	1	0.58	×
Readout Electronics	0.30	Normal	1	1	0.30	×
Response Time	0.80	Rectangular	√3	1	0.46	×
Integration Time	2.60	Rectangular	√3	1	1.50	∞
RF Ambient Noise	3.00	Rectangular	√3	1	1.73	∞
RF Ambient Reflections	3.00	Rectangular	√3	1	1.73	∞
Probe Positioner	0.80	Rectangular	√3	1	0.46	∞
Probe Positioning	6.70	Rectangular	√3	1	3.87	∞
Max. SAR Evaluation	4.00	Rectangular	√3	1	2.31	∞
Test sample Related				1	1	
Test sample Positioning	2.9	Normal	1	1	2.9	145
Device Holder Uncertainty	3.6	Normal	1	1	3.6	5
Power drift	5	Rectangular	√3	1	2.89	∞
Power Scaling	0	Rectangular	√3	1	0.00	∞
Phantom and Tissue Para	meters					
Phantom Uncertainty	6.6	Rectangular	√3	1	3.81	∞
SAR correction	1.9	Rectangular	√3	1	1.10	∞
Liquid Conductivity (target)	5	Rectangular	√3	0.64	1.85	×
Liquid Conductivity (meas)	-3.83	Rectangular	√3	0.78	-1.72	∞
Liquid Permittivity (target)	5	Rectangular	√3	0.6	1.73	∞
Liquid Permittivity (meas)	3.11	Rectangular	√3	0.26	0.47	∞
Temp. unc Conductivity	3.4	Rectangular	√3	0.78	1.53	∞
Temp. unc Permittivity	0.4	Rectangular	√3	0.23	0.05	8
Combined Std. Uncertainty		RSS			12.61	748
Expanded STD Uncertainty		<i>k</i> =2			25.	22%

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9. EXPOSURE LIMIT

(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 1gram 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.

<u>Occupational/Controlled Environments</u> 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

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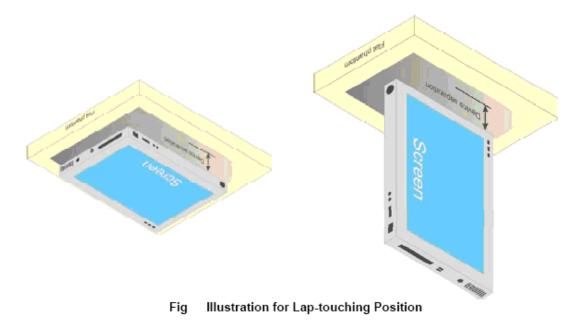
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10. EUT ARRANGEMENT

Please refer to IEEE1528 illustration below.

10.1 BODY WORN TEST

This EUT was tested in Three different positions. They are front side, rear side and Edge 2 of tablet. In these positions ,the surface of EUT is touching phantom with 0 mm.



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MEASUREMENT RESULTS 11.

11.1 TEST LIQUIDS CONFIRMATION

SIMULATED TISSUE LIQUID PARAMETER CONFIRMATION

The dielectric parameters were checked prior to assessment using the HP85070C dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

IEEE SCC-34/SC-2 P1528 RECOMMENDED TISSUE DIELECTRIC PARAMETERS

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 and extrapolated according to the head parameters specified in P1528

Target Frequency	He	ad	Body		
(MHz)	ε _r	σ (S/m)	ε _r	σ (S/m)	
150	52.3	0.76	61.9	0.80	
300	45.3	0.87	58.2	0.92	
450	43.5	0.87	56.7	0.94	
835	41.5	0.90	55.2	0.97	
900	41.5	0.97	55.0	1.05	
915	41.5	0.98	55.0	1.06	
1450	40.5	1.20	54.0	1.30	
1610	40.3	1.29	53.8	1.40	
1800-2000	40.0	1.40	53.3	1.52	
2450	39.2	1.80	52.7	1.95	
3000	38.5	2.40	52.0	2.73	
5800	45.3	5.27	48.2	6.00	

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

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11.2 LIQUID MEASUREMENT RESULTS

The following table show the measuring results for simulating liquid:

Liquid Type	Liquid Temp. (°C)	Parameters	Target	Measured	Deviation (%)	Limited (%)	Measured Date
Body2450	21.5	Permitivity(ε)	52.70	51.77	-1.77	± 5	2016-1-18
B00y2430	21.0	Conductivity(σ)	1.95	1.94	-0.41	± 5	2010-1-18
Body5200	21.5	Permitivity(ε)	49.03	50.40	2.80	± 5	2016-1-18
BOUy5200	21.5	Conductivity(σ)	5.35	5.15	-3.83	± 5	2010-1-18
Body5800	21.5	Permitivity(ε)	48.20	49.70	3.11	± 5	2016-1-18
BodySooo	21.5	Conductivity(σ)	6.00	6.04	0.62	± 5	2010-1-18

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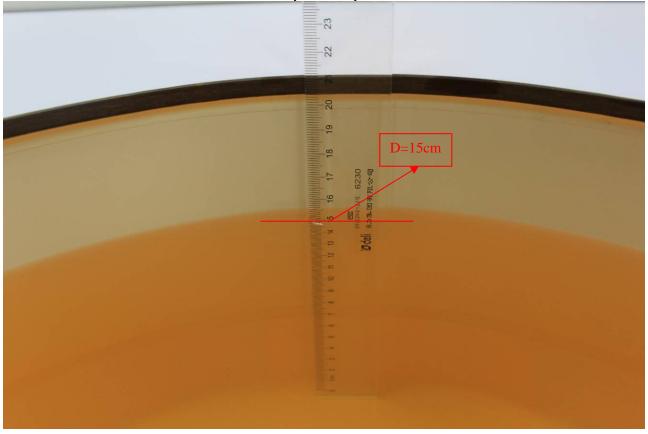
11.3 SYSTEM PERFORMANCE CHECK

The system performance check is performed prior to any usage of the system in order to guarantee reproducible results. The system performance check verifies that the system operates within its specifications of $\pm 10\%$. The system performance check results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

SYSTEM PERFORMANCE CHECK MEASUREMENT CONDITIONS

- The measurements were performed in the flat section of the SAM twin phantom filled with head and body simulating liquid of the following parameters.
- The DASY5 system withan E-fileld probe EX3DV4 SN: 3798 was used for the measurements.
- The dipole was mounted on the small tripod so that the dipole feed point was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 15 mm (below 1 GHz) and 10 mm (above 1 GHz) from dipole center to the simulating liquid surface.
- The coarse grid with a grid spacing of 10mm was aligned with the dipole.
- Special 7x7x7 fine cube was chosen for cube integration (dx= 5 mm, dy= 5 mm, dz= 5 mm).
- Distance between probe sensors and phantom surface was set to 2 mm.
- The dipole input power was 250mW±3%.
- The results are normalized to 1 W input power.

Depth of Liquid



• Note: For SAR testing, the depth is 15cm shown above

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SYSTEM PERFORMANCE CHECK RESULTS

Liquid Type	Ambient Temp. (° C)	Liquid Temp. (°C)	Input Power (W)	Measured SAR1g (W/Kg)	Target	1W Normalized SAR1g(W/Kg)	Deviatio n (%)	Limite d (%)	Date
Body2450	22	21.5	0.25	12.60	49.20	50.40	2.44	± 10	2016-1-18
Body5200	22	21.5	0.1	7.04	74.60	70.4	-5.63	± 10	2016-1-18
Body5800	22	21.5	0.1	7.41	75.00	74.1	-1.20	± 10	2016-1-18

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11.4 EUT TUNE-UP PROCEDURES AND TEST MODE

Conducted output power(dBm):

General Note:

- 1 Power must be measured at each transmit antenna port according to the DSSS and OFDM transmission configurations in each standalone and aggregated frequency band.
- 2 Power measurement is required for the transmission mode configuration with the highest maximum output power specified for production units.
 - 1) When the same highest maximum output power specification applies to multiple transmission modes, the largest channel bandwidth configuration with the lowest order modulation and lowest data rate is measured.
 - 2) When the same highest maximum output power is specified for multiple largest channel bandwidth configurations with the same lowest order modulation or lowest order modulation and lowest data rate, power measurement is required for all equivalent 802.11 configurations with the same maximum output power.
- 3 For each transmission mode configuration, power must be measured for the highest and lowest channels; and at the mid-band channel(s) when there are at least 3 channels. For configurations with multiple mid-band channels, due to an even number of channels, both channels should be measured.

Mode	Channel	Frequence (MHZ)	Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average power (dBm)
	1	2412	13	±1	14	13.34
802.11 b	6	2437	13	±1	14	13.55
	11	2462	13	±1	14	13.88
	1	2412	12.5	±1	13.5	12.87
802.11 g	6	2437	12.5	±1	13.5	13.16
	11	2462	12.5	±1	13.5	13.41
	1	2412	11.5	±1	12.5	11.88
802.11 n 20MHz	6	2437	11.5	±1	12.5	11.76
201112	11	2462	11.5	±1	12.5	12.15
802.11 n 40MHz	3	2422	8	±1	9	8.48
	6	2437	8	±1	9	8.57
	9	2452	8	±1	9	8.76

WLAN 2.4G

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WLAN 5.2G

WEAN 5.2G						
Mode	Channel	Frequence (MHZ)	Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average Power (dBm)
	36	5180	7.5	±1	8.5	8.15
802.11 a	40	5200	7.5	±1	8.5	8.25
002.11 a	44	5220	7.5	±1	8.5	8.20
	48	5240	7.5	±1	8.5	8.31
	36	5180	7	±1	8	7.74
802.11 n 20MHz	40	5200	7	±1	8	7.73
	44	5220	7	±1	8	7.69
	48	5240	7	±1	8	7.77
802.11 n 40MHz	38	5190	5	±1	6	5.83
	46	5230	5	±1	6	5.78

WLAN 5.8G

Mode	Channel	Frequence	Target power(dBm)	Turn up tolerance (dBm)	Maximum Turn up power (dBm)	Average power (dBm)
	149	5745	10	±1	11	10.17
802.11 a	157	5785	10	±1	11	10.72
	165	5825	10	±1	11	10.21
000.44	149	5745	9	±1	10	9.75
802.11 n 20MHz	157	5785	9	±1	10	9.71
2011112	165	5825	9	±1	10	9.53
802.11 n	151	5755	7	±1	8	7.34
40MHz	159	5795	7	±1	8	6.99

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Bluetooth 3.0+EDR Conducted output power(dBm):

		Average p	ower(dBm)
Channel	Frequency	Date	Rate
		1Mbps	3Mbps
CH00	2402MHz	2.29	1.32
CH39	2441 MHz	2.87	1.31
CH78	2480 MHz	3.09	1.43

BLE Conducted output power (dBm):

Channel	Freedoment	Average power (dBm)
Channel	Frequency	Date Rate
CH00	2402MHz	2.10
CH20	2440 MHz	1.76
CH39	2480 MHz	1.72

According to KDB447498 D01:The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* \leq 50 mm are determined by:

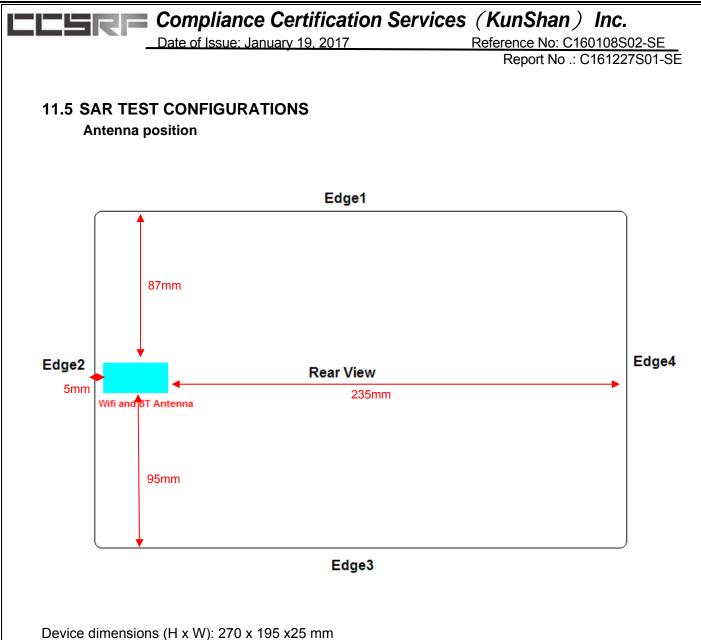
[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,

mm)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g 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 calculation25
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below
- If the test separation distance (antenna-user) is < 5mm, 5mm is used for excluded SAR calculation

	Wireless Interface	Bluetooth	
T	3.5		
Tun	Tune-up Maximum rated power (mW)		
	Antenna to user (mm)	5	
Body	Frequency(GHz)	2.480	
	SAR exclusion threshold	0.705	

Per KDB 447498 D01 exclusion thresholds is 0.705 < 3, Bluetooth RF exposure evaluation is not required.



ſ Antonnas

Antennas	Wireless Interface
Bluetooth &WLAN Antenna	WLAN 2.4GHz WLAN 5.2GHz WLAN 5.8GHz Bluetooth

Test Mode

IEEE 802.11	Data transmission mode(802.11b; 802.11a)
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11.6 BODY TEST EXCLUSION THRESHOLDS

The following SAR test exclusion Thresholds based on KDB 447498 D01 General RF Exposure Guidance v05r02) 4.3.1)

	Wireless Interface	WLAN				
Exposure		802.11 b	802.11 a			
Position	Maximum power	14	11			
	Maximum rated power(mW)	25.12	12.59			
	Antenna to user (mm)	8	8			
Front	SAR exclusion threshold	15.33	9.97			
	SAR testing required?	Yes	Yes			
	Antenna to user (mm)	9	9			
Rear	SAR exclusion threshold	17.25	11.21			
	SAR testing required?	Yes	Yes			
	Antenna to user (mm)	87	87			
Edge1	SAR exclusion threshold	466.00	432.28			
	SAR testing required?	No	No			
Edge2	Antenna to user (mm)	5	5			
	SAR exclusion threshold	9.58	6.23			
	SAR testing required?	Yes	Yes			
Edge3	Antenna to user (mm)	95	95			
	SAR exclusion threshold	546.00	512.28			
	SAR testing required?	No	No			
	Antenna to user (mm)	235	235			
Edge4	SAR exclusion threshold	1946.00	1912.28			
	SAR testing required?	No	No			

Note:

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

2. Per KDB 447498 D01, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.

3. Per KDB 447498 D01, standalone SAR test exclusion threshold is applied; If the distance of the antenna to the user is < 5mm, 5mm is used to determine SAR exclusion threshold

4. Per KDB 447498 D01, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\left[\sqrt{f(GHz)}\right] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-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 < 50 mm distance, we just calculate mW of the exclusion threshold value (3.0) to do compare.

This formula is [3.0] / $\left[\sqrt{f(GHz)}\right]$ [(*min. test separation distance, mm*)] = exclusion threshold of mW.

5. Per KDB 447498 D01, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following

a) [Threshold at 50 mm in step 1] + (test separation distance – 50 mm)·(f(MHz)/150)] mW, at 100 MHz to 1500 MHz b) [Threshold at 50 mm in step 1] + (test separation distance – 50 mm)·10] mW at > 1500 MHz and \leq 6 GHz

6. When the minimum *test separation distance* is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

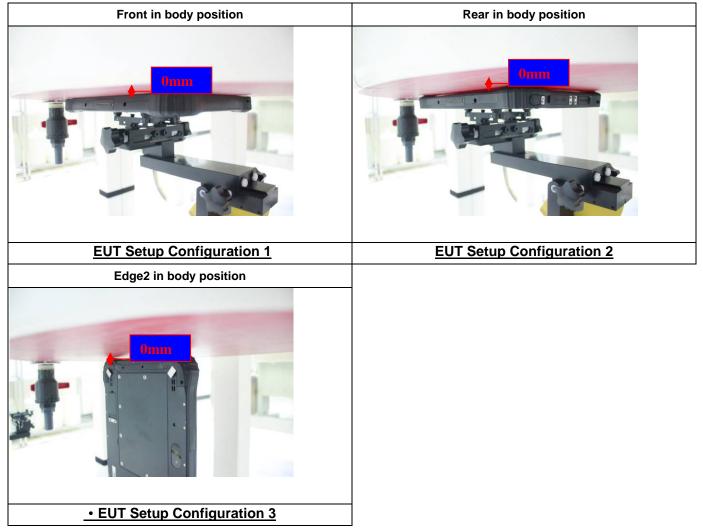
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11.7 EUT SETUP PHOTOS

11.8 BODY SAR TEST CONFIGURATION



INC.

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SAR Results for Body Test Records

Band	Mode	Test Position	Dist. (mm)	Ch.	Freq. (MHZ)	max Power (dBm)	Tune- Up Limit (dBm)	Scaling Factor	Power Drift (dB)	SAR1g (mW/g)	Scaled SAR1g (mW/g)
WLAN 2.4G	802.11 b	Front	0	11	2462	13.88	14	1.028	0.00	0.251	0.258
WLAN 2.4G	802.11 b	Rear	0	11	2462	13.88	14	1.028	0.00	0.123	0.126
WLAN 2.4G	802.11 b	Edge 2	0	11	2462	13.88	14	1.028	0.03	0.069	0.071
WLAN 5.2G	802.11 a	Front	0	48	5240	8.31	8.5	1.045	0.01	0.036	0.038
WLAN 5.2G	802.11 a	Rear	0	48	5240	8.31	8.5	1.045	0.20	0.076	0.079
WLAN 5.2G	802.11 a	Edge2	0	48	5240	8.31	8.5	1.045	0.13	0.032	0.033
WLAN 5.8G	802.11 a	Front	0	157	5785	10.72	11	1.067	0.01	0.105	0.112
WLAN 5.8G	802.11 a	Rear	0	157	5785	10.72	11	1.067	0.12	0.155	0.165
WLAN 5.8G	802.11 a	Edge2	0	157	5785	10.72	11	1.067	0.09	0.103	0.110

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11.9 REPEATED SAR MEASUREMENT

Band	Mode	Test Position	Dist. (mm)	Ch.	Original Measured SAR1g (mW/g)	1st Repeated SAR1g (mW/g)	Ratio	Original Measured SAR1g (mW/g)	2nd Repeated SAR1g (mW/g)	Ratio

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 ≤1.2 and the measured SAR <1.45W/Kg,only one repeated measurement is required.
- 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 ≥ 1.45 W/kg
- 4. The ratio is the difference in percentage between original and repeated measured SAR.

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11.10 SAR HANDSETS MULTI XMITER ASSESSMENT

No.	Applicable Simultaneous Transmission Combination
1	N/A

Note:

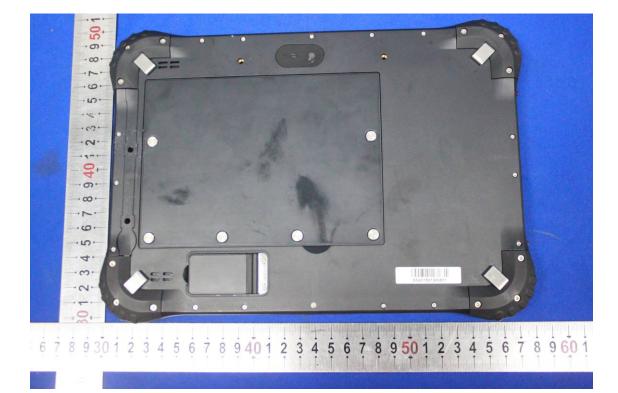
1. WLAN and BT share the same antenna, and cannot transmit simultaneously.

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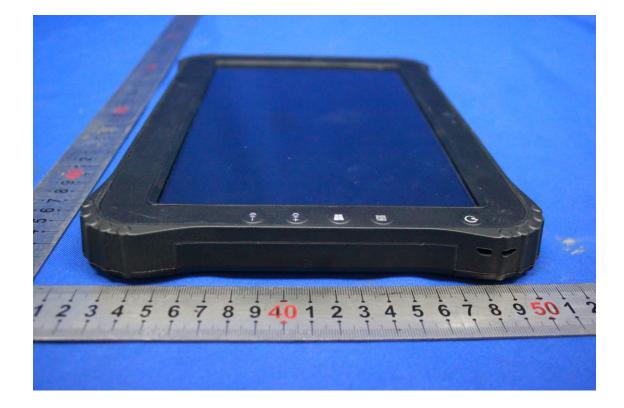
12. EUT PHOTO





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13. EQUIPMENT LIST & CALIBRATION STATUS

Name of Equipment	Manufacturer	Type/Model	Serial Number	Last Calibration	Calibration Due
PC	HP	Core(rm)3.16G	CZCO48171H	N/A	N/A
Signal Generator	Agilent	E8257C	MY43321570	11/20/2015	11/19/2016
S-Parameter Network Analyzer	Agilent	E5071B	MY42301382	03/03/2015	03/02/2016
Power meter	Anritsu	ML2495A	1445010	03/03/2015	03/02/2016
Power sensor	Anritsu	MA2411B	1339220	03/03/2015	03/02/2016
E-field PROBE	SPEAG	EX3DV4	3798	07/24/2015	07/23/2016
DAE	SPEAG	DEA4	1245	07/22/2015	07/21/2016
DIPOLE 2450MHZ ANTENNA	SPEAG	D2450V2	817	07/31/2013	07/28/2016
DIPOLE 5GHZ ANTENNA	SPEAG	D5GHzV2	1095	05/31/2013	05/28/2016
DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
Twin SAM Phantom	SPEAG	QD000P40CD	1609	N/A	N/A
ROBOT	SPEAG	TX60	F10/5E6AA1/A101	N/A	N/A
ROBOT KRC	SPEAG	CS8C	F10/5E6AA1/C101	N/A	N/A
LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

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14. FACILITIES

All measurement facilities used to collect the measurement data are located at

No.10, Weiye Rd., Innovation Park, Eco & Tec. Development Part, Kunshan City, Jiangsu Province, China.

15. REFERENCES

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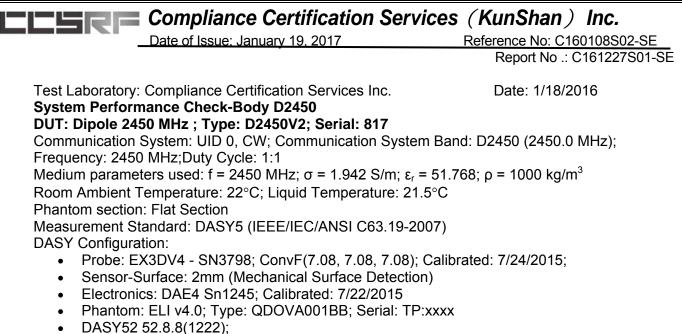
ILERE Compliance Certification Services (KunShan) Inc.

Date of Issue: January 19, 2017

Reference No: C160108S02-SE Report No .: C161227S01-SE

APPENDIX A: PLOTS OF PERFORMANCE CHECK

The plots are showing as followings.

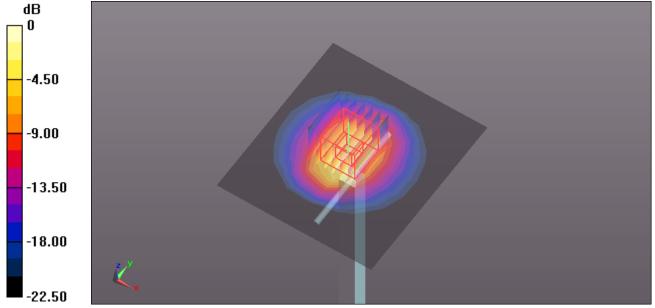


• SEMCAD X Version 14.6.10 (7331)

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Area Scan (9x10x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 17.1 W/kg

System Performance Check at Frequencies above 1 GHz/Pin=250 mW, dist=10mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 98.03 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 26.6 W/kg SAR(4 c) = 42.6 W/kg

SAR(1 g) = 12.6 W/kg; SAR(10 g) = 5.79 W/kg Maximum value of SAR (measured) = 19.5 W/kg



0 dB = 19.5 W/kg = 12.90 dBW/kg



- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz 20/Area Scan (10x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 16.5 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5200 MHz 20/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement

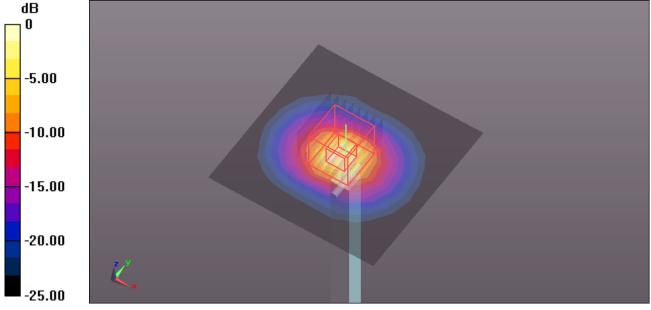
grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 66.57 V/m; Power Drift = 0.03 dB

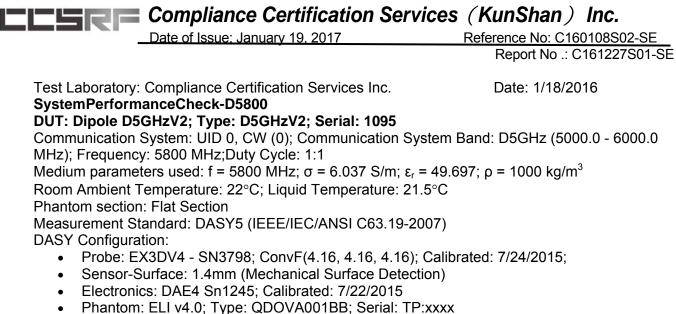
Peak SAR (extrapolated) = 30.7 W/kg

SAR(1 g) = 7.04 W/kg; SAR(10 g) = 1.99 W/kg

Maximum value of SAR (measured) = 17.3 W/kg



0 dB = 17.3 W/kg = 12.38 dBW/kg



- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Area Scan (9x10x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 17.0 W/kg

System Performance Check with D5GHzV2 Dipole (graded grid)/d=10mm, Pin=100mW, f=5800 MHz/Zoom Scan (4x4x1.4mm, graded), dist=1.4mm (8x8x7)/Cube 0: Measurement grid:

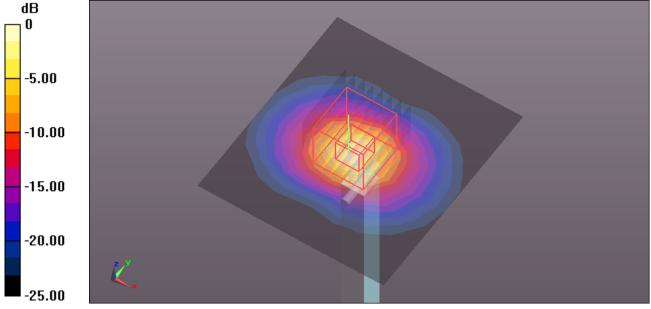
dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 65.11 V/m; Power Drift = 0.04 dB

Peak SAR (extrapolated) = 35.7 W/kg

SAR(1 g) = 7.41 W/kg; SAR(10 g) = 2.08 W/kg

Maximum value of SAR (measured) = 19.0 W/kg



0 dB = 19.0 W/kg = 12.79 dBW/kg

ERF Compliance Certification Services (KunShan) Inc.

Date of Issue: January 19, 2017

Reference No: C160108S02-SE Report No .: C161227S01-SE

APPENDIX B: PLOTS OF SAR TEST RESULT

The plots are showing as followings .

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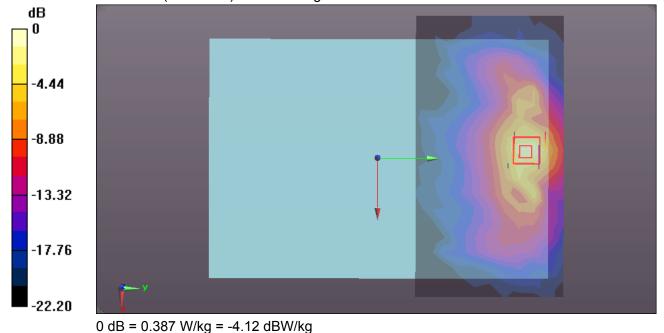
ERPIE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WiFi 802.11b -Body Front High CH11 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band; Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; σ = 1.954 S/m; ϵ_r = 51.703; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(7.08, 7.08, 7.08); Calibrated: 7/24/2015; • Sensor-Surface: 2mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 •

- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi/Body Front High CH11/Area Scan (20x11x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.289 W/kg

WiFi/Body Front High CH11/Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.541 W/kg SAR(1 g) = 0.251 W/kg; SAR(10 g) = 0.111 W/kg Maximum value of SAR (measured) = 0.387 W/kg



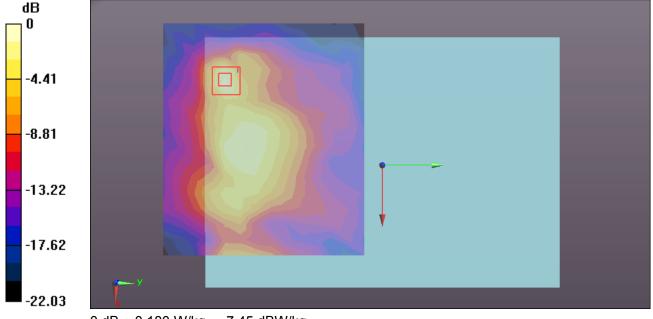
ERE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WiFi 802.11b -Body Rear High CH11 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band; Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; σ = 1.954 S/m; ϵ_r = 51.703; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(7.08, 7.08, 7.08); Calibrated: 7/24/2015; • Sensor-Surface: 2mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 •

- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi/Body Rear High CH11/Area Scan (16x14x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.156 W/kg

WiFi/Body Rear High CH11/Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 0.247 W/kg SAR(1 g) = 0.123 W/kg; SAR(10 g) = 0.052 W/kg Maximum value of SAR (measured) = 0.180 W/kg



0 dB = 0.180 W/kg = -7.45 dBW/kg

Example 1 Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WiFi 802.11b -Body Edge 2 High CH11 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11b (0); Communication System Band: ISM 2.4GHz Band; Frequency: 2462 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2462 MHz; σ = 1.954 S/m; ϵ_r = 51.703; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(7.08, 7.08, 7.08); Calibrated: 7/24/2015; • Sensor-Surface: 2mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 • Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx •

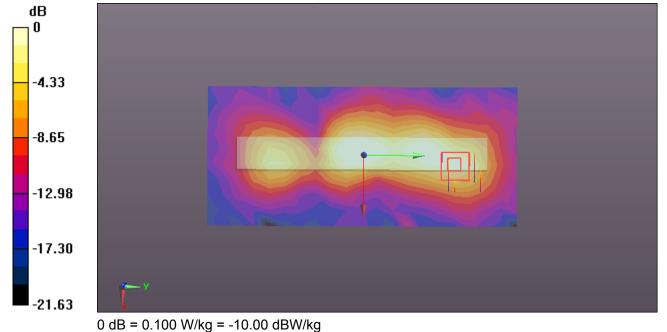
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WiFi/Body Edge 2 High CH11/Area Scan (10x21x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 0.128 W/kg

WiFi/Body Edge 2 High CH11/Zoom Scan (7x7x5)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 7.788 V/m; Power Drift = 0.03 dB Peak SAR (extrapolated) = 0.132 W/kg SAR(1 g) = 0.069 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.100 W/kg



ERPIER Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WIFI 802.11a-Body Front Body CH48 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band I; Frequency: 5240 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5240 MHz; σ = 5.209 S/m; ϵ_r = 49.87; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(4.64, 4.64, 4.64); Calibrated: 7/24/2015; • Sensor-Surface: 1.4mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 • Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx •

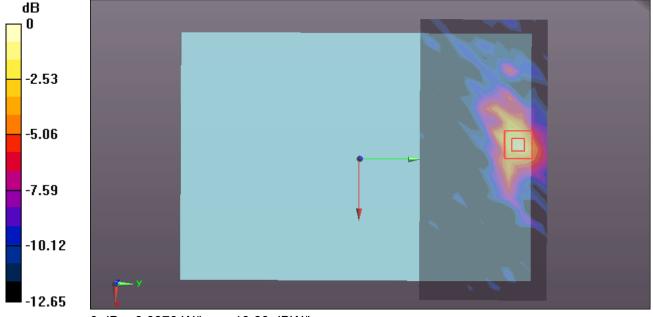
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Front Body CH48/Area Scan (23x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.0776 W/kg

WIFI/IEEE802.11a Front Body CH48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.157 W/kg SAR(1 g) = 0.036 W/kg; SAR(10 g) = 0.013 W/kg

Maximum value of SAR (measured) = 0.0870 W/kg



0 dB = 0.0870 W/kg = -10.60 dBW/kg

ERPIE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WIFI 802.11a-Body Rear Body CH48 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band I; Frequency: 5240 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5240 MHz; σ = 5.209 S/m; ϵ_r = 49.87; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(4.64, 4.64, 4.64); Calibrated: 7/24/2015; • Sensor-Surface: 1.4mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 • Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx •

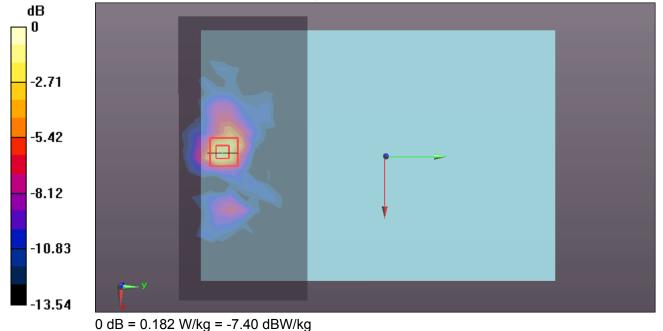
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Rear Body CH48/Area Scan (23x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.143 W/kg

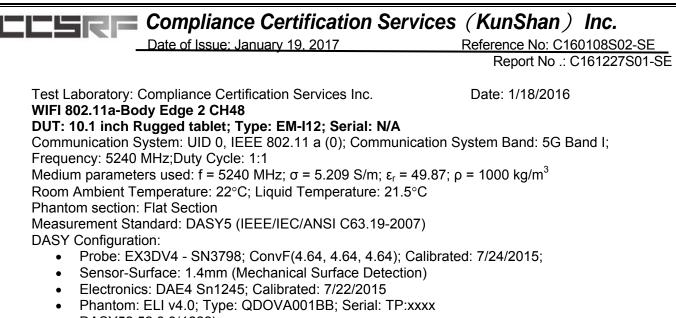
WIFI/IEEE802.11a Rear Body CH48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.20 dB Peak SAR (extrapolated) = 0.308 W/kg SAR(1 g) = 0.076 W/kg; SAR(10 g) = 0.026 W/kg

Maximum value of SAR (measured) = 0.182 W/kg



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- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

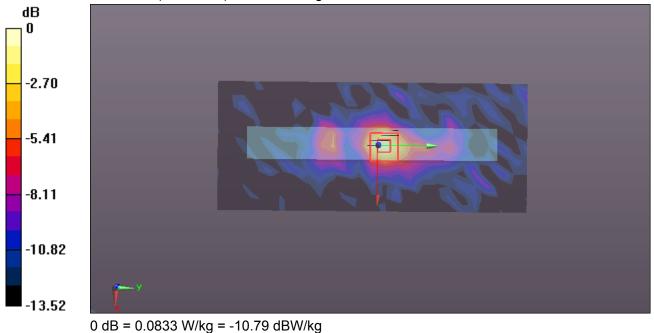
WIFI/IEEE802.11a Body Edge 2 CH48/Area Scan (11x25x1): Measurement grid: dx=10mm,

dy=10mm Maximum value of SAR (measured) = 0.0815 W/kg

WIFI/IEEE802.11a Body Edge 2 CH48/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 2.482 V/m; Power Drift = 0.13 dB Peak SAR (extrapolated) = 0.126 W/kg SAR(1 g) = 0.032 W/kg; SAR(10 g) = 0.011 W/kg

Maximum value of SAR (measured) = 0.0833 W/kg



ERE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WIFI 802.11a-Body Front Body CH157 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV; Frequency: 5785 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5785 MHz; σ = 6.023 S/m; ϵ_r = 49.472; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(4.16, 4.16, 4.16); Calibrated: 7/24/2015; • Sensor-Surface: 1.4mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 • Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx •

- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

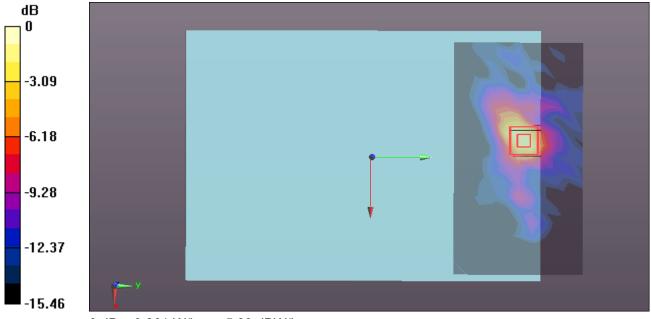
WIFI/IEEE802.11a Front Body CH157/Area Scan (19x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.207 W/kg

WIFI/IEEE802.11a Front Body CH157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.01 dB Peak SAR (extrapolated) = 0.508 W/kg SAR(1 g) = 0.105 W/kg; SAR(10 g) = 0.036 W/kg

Maximum value of SAR (measured) = 0.261 W/kg



0 dB = 0.261 W/kg = -5.83 dBW/kg

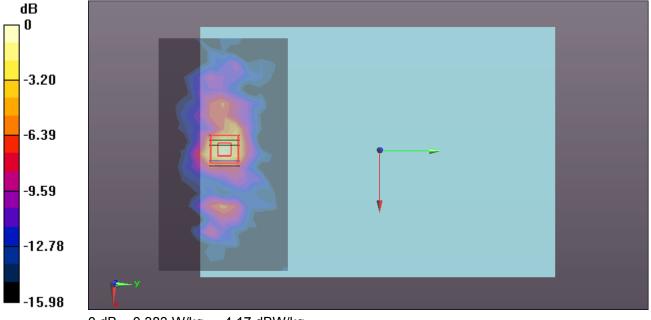
ERE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WIFI 802.11a-Body Rear Body CH157 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV; Frequency: 5785 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5785 MHz; σ = 6.023 S/m; ϵ_r = 49.472; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(4.16, 4.16, 4.16); Calibrated: 7/24/2015; • Sensor-Surface: 1.4mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 •

- Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Rear Body CH157/Area Scan (19x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.349 W/kg

WIFI/IEEE802.11a Rear Body CH157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm,

dy=4mm, dz=1.4mm Reference Value = 0 V/m; Power Drift = 0.12 dB Peak SAR (extrapolated) = 0.686 W/kg SAR(1 g) = 0.155 W/kg; SAR(10 g) = 0.054 W/kg Maximum value of SAR (measured) = 0.383 W/kg



0 dB = 0.383 W/kg = -4.17 dBW/kg

ERE Compliance Certification Services (KunShan) Inc. Date of Issue: January 19, 2017 Reference No: C160108S02-SE Report No .: C161227S01-SE Test Laboratory: Compliance Certification Services Inc. Date: 1/18/2016 WIFI 802.11a-Body Edge 2 CH157 DUT: 10.1 inch Rugged tablet; Type: EM-I12; Serial: N/A Communication System: UID 0, IEEE 802.11 a (0); Communication System Band: 5G Band IV; Frequency: 5785 MHz; Duty Cycle: 1:1 Medium parameters used: f = 5785 MHz; σ = 6.023 S/m; ϵ_r = 49.472; ρ = 1000 kg/m³ Room Ambient Temperature: 22°C; Liquid Temperature: 21.5°C Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007) DASY Configuration: Probe: EX3DV4 - SN3798; ConvF(4.16, 4.16, 4.16); Calibrated: 7/24/2015; • Sensor-Surface: 1.4mm (Mechanical Surface Detection) • Electronics: DAE4 Sn1245; Calibrated: 7/22/2015 • Phantom: ELI v4.0; Type: QDOVA001BB; Serial: TP:xxxx •

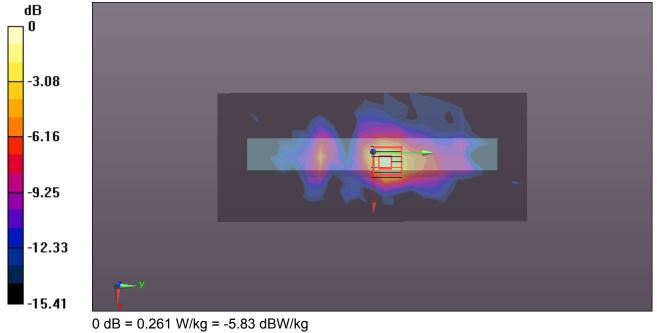
- DASY52 52.8.8(1222);
- SEMCAD X Version 14.6.10 (7331)

WIFI/IEEE802.11a Body Edge 2 CH157/Area Scan (11x25x1): Measurement grid: dx=10mm,

dy=10mm Maximum value of SAR (measured) = 0.237 W/kg

WIFI/IEEE802.11a Body Edge 2 CH157/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 4.189 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 0.452 W/kg SAR(1 g) = 0.103 W/kg; SAR(10 g) = 0.036 W/kg Maximum value of SAR (measured) = 0.261 W/kg



CERE Compliance Certification Services (KunShan) Inc.

Date of Issue: January 19, 2017

Reference No: C160108S02-SE Report No .: C161227S01-SE

APPENDIX C: DASY CALIBRATION CERTIFICATE

The DASY Calibration Certificates are showing in the file named APPENDIX C DASY CALIBRATION CERTIFICATE .

END REPORT