



# **TEST REPORT**

Applicant Name: Bolt Modus Corp

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Federal, Panama

Report Number: SZNS220428-17186E-SA

FCC ID: 2APW4EPIC3

Test Standard (s)

FCC Part 2.1093

# **Sample Description**

Product Type: Tablet PC
Model No.: EPIC 3
Multiple Model(s) No.: N/A
Trade Mark: yezz

Date Received: 2022/04/30
Test Date: 2022/07/09
Report Date: 2022/07/11

Test Result: Pass\*

Prepared and Checked By:

Approved By:

Lance Li

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**EMC Engineer** 

anceli

**EMC Engineer** 

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "★".

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<sup>\*</sup> In the configuration tested, the EUT complied with the standards above.

Attestation of Test Results					
MO	DE	Max. SAR Level(s) Reported(W/kg)	Limit (W/kg)		
WLAN 2.4G	1g Body SAR 0.18		1.6		
ВТ	1g Body SAR	0.20	1.6		
	FCC 47 CFR part 2. Radiofrequency radia	1093 tion exposure evaluation: portable devices	•		
	RF Exposure Procedures: TCB Workshop April 2019				
	IEEE1528:2013 IEEE Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques				
Applicable Standards	IEC 62209-1:2016  Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1: Devices used next to the ear (Frequency range of 300 MHz to 6 GHz)				
	KDB 447498 D04 Int KDB 865664 D01 SA KDB 865664 D02 RF KDB 941225 D07 UN	neral RF Exposure Guidance v06 erim General RF Exposure Guidance v01 LR Measurement 100 MHz to 6 GHz v01r04 Exposure Reporting v01r02 MPC Mini Tablet v01r02 2 11 Wi-Fi SAR v02r02			

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Note: This wireless device has been shown to be capable of compliance for localized specific absorption rate (SAR) for General Population/Uncontrolled Exposure limits specified in FCC 47 CFR part 2.1093 and has been tested in accordance with the measurement procedures specified in IEEE 1528-2013 and RF exposure KDB procedures.

The results and statements contained in this report pertain only to the device(s) evaluated.

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# **DOCUMENT REVISION HISTORY**

Revision Number	Report Number	Description of Revision	Date of Revision	
0	SZNS220428-17186E-SA	Original Report	2022/07/11	

# **EUT DESCRIPTION**

This report has been prepared on behalf of *Bolt Modus Corp* and their product *Tablet PC*, Model: *EPIC 3*, FCC ID: *2APW4EPIC3* or the EUT (Equipment under Test) as referred to in the rest of this report.

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# **Technical Specification**

Device Type:	Portable	
<b>Exposure Category:</b>	Population / Uncontrolled	
Antenna Type(s):	Internal Antenna	
Power Sensor	None	
Operation Mode:	Wi-Fi, Bluetooth	
	Wi-Fi 2.4G: 2412 -2472 MHz(TX&RX)	
Frequency Band:	Bluetooth: 2402 -2480 MHz(TX&RX)	
	BLE: 2402 -2480 MHz(TX&RX)	
Power Source:	Rechargeable Battery	
Normal Operation:	Body-worn	

# REFERENCE, STANDARDS, AND GUIDELINES

### FCC:

The Report and 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 mW/g as recommended by the ANSI/IEEE standard C95.1-1992 [6] for an uncontrolled environment (Paragraph 65). According to the Supplement C of OET Bulletin 65 "Evaluating Compliance with FCC Guide-lines for Human Exposure to Radio frequency Electromagnetic Fields", released on Jun 29, 2001 by the FCC, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

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This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in North America is 1.6 mW/g average over 1 gram of tissue mass.

#### CE:

The order requires routine SAR evaluation prior to equipment authorization of portable transmitter devices, including portable telephones. For consumer products, the applicable limit is 2 mW/g as recommended by EN62209-1 for an uncontrolled environment. According to the Standard, the device should be evaluated at maximum output power (radiated from the antenna) under "worst-case" conditions for normal or intended use, incorporating normal antenna operating positions, device peak performance frequencies and positions for maximum RF energy coupling.

This report describes the methodology and results of experiments performed on wireless data terminal. The objective was to determine if there is RF radiation and if radiation is found, what is the extent of radiation with respect to safety limits. SAR (Specific Absorption Rate) is the measure of RF exposure determined by the amount of RF energy absorbed by human body (or its parts) – to determine how the RF energy couples to the body or head which is a primary health concern for body worn devices. The limit below which the exposure to RF is considered safe by regulatory bodies in Europe is 2 mW/g average over 10 gram of tissue mass.

The test configurations were laid out on a specially designed test fixture to ensure the reproducibility of measurements. Each configuration was scanned for SAR. Analysis of each scan was carried out to characterize the above effects in the device.

# **SAR Limits**

# FCC Limit(1g Tissue)

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	SAR (W/kg)			
EXPOSURE LIMITS	(General Population / Uncontrolled Exposure Environment)	(Occupational / Controlled Exposure Environment)		
Spatial Average (averaged over the whole body)	0.08	0.4		
Spatial Peak (averaged over any 1 g of tissue)	1.60	8.0		
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0		

# **CE Limit**(10g Tissue)

	SAR (W/kg)			
	(General Population /	(Occupational /		
EXPOSURE LIMITS	Uncontrolled Exposure	Controlled Exposure		
	Environment)	Environment)		
Spatial Average (averaged over the whole body)	0.08	0.4		
Spatial Peak (averaged over any 10 g of tissue)	2.0	10		
Spatial Peak (hands/wrists/feet/ankles averaged over 10 g)	4.0	20.0		

Population/Uncontrolled Environments are defined as locations where there is the exposure of individual who have no knowledge or control of their exposure.

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

General Population/Uncontrolled environments Spatial Peak limit 1.6W/kg (FCC) applied to the EUT.

# **FACILITIES**

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358,the FCC Designation No.: CN1189. Accredited by American Association for Laboratory Accreditation (A2LA) The Certificate Number is 4297.01

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Listed by Innovation, Science and Economic Development Canada (ISEDC), the Registration Number is 5077A.

The test site has been registered with ISED Canada under ISED Canada Registration Number CN0016.

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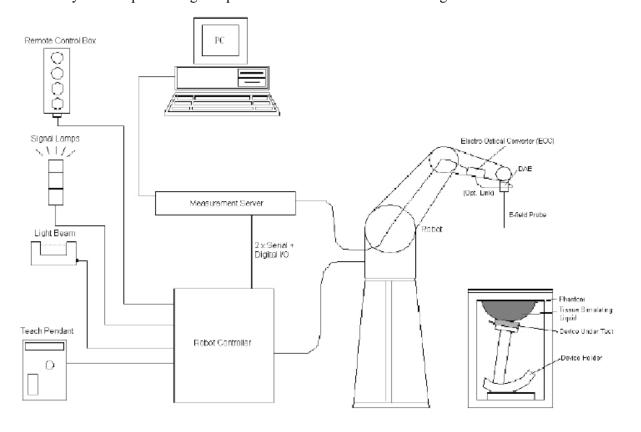
# **DESCRIPTION OF TEST SYSTEM**

These measurements were performed with the automated near-field scanning system DASY5 from Schmid & Partner Engineering AG (SPEAG) which is the Fifth generation of the system shown in the figure hereinafter:



# **DASY5 System Description**

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



- A standard high precision 6-axis robot (Staubli TX=RX family) with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal application, 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.

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- 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.
- 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.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 professional operating system and the DASY52 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

### **DASY5 Measurement Server**

The DASY5 measurement server is based on a PC/104 CPU board with a 400 MHz Intel ULV Celeron, 128 MB chip-disk and 128 MB RAM. The necessary circuits for communication with the DAE4 (or DAE3) electronics box, as well as the 16-bit AD converter system for optical detection and digital I/O interface are contained on the DASY6 I/O board, which is directly connected to the PC/104 bus of the CPU board.

The measurement server performs all real-time data evaluations of field measurements and surface detection, controls robot movements, and handles safety operations. The PC operating system cannot interfere with these time-critical processes. All connections are supervised by a watchdog, and disconnection of any of the cables to the measurement server will automatically disarm the robot and disable all program-controlled robot movements. Furthermore, the measurement server is equipped with an expansion port, which is reserved for future applications. Please note that this expansion port does not have a standardized pinout, and therefore only devices provided by SPEAG can be connected. Connection of devices from any other supplier could seriously damage the measurement server.

# **Data Acquisition Electronics**

The data acquisition electronics (DAE4) 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.

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.

The input impedance of both the DAE4 as well as of the DAE3 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.

#### **EX3DV4 E-Field Probes**

Frequency	10 MHz to > 6 GHz Linearity: ± 0.2 dB (30 MHz to 6 GHz)
Directivity	$\pm$ 0.3 dB in TSL (rotation around probe axis) $\pm$ 0.5 dB in TSL (rotation normal to probe axis)
Dynamic Range	10 $\mu$ W/g to > 100 mW/g Linearity: $\pm$ 0.2 dB (noise: typically < 1 $\mu$ W/g)
Dimensions	Overall length: 337 mm (Tip: 20 mm) Tip diameter: 2.5 mm (Body: 12 mm) Typical distance from probe tip to dipole centers: 1 mm
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields); the only probe that enables compliance testing for frequencies up to 6 GHz with precision of better 30%.
Compatibility	DASY3, DASY4, DASY52 SAR and higher, EASY4/MRI

#### **SAM Twin Phantom**

The SAM Twin Phantom (shown in front of DASY5) is a fiberglass shell phantom with shell thickness 2 mm, except in the ear region where the thickness is increased to 6 mm.

When the phantom is mounted inside allocated slot of the DASY5 platform, phantom reference points can be taught directly in the DASY5 V5.2 software. When the DASY5 platform is used to mount the

Phantom, some of the phantom teaching points cannot be reached by the robot in DASY5 V5.2. A special tool called P1a-P2aX-Former is provided to transform two of the three points, P1 and P2, to reachable locations. To use these new teaching points, a revised phantom configuration file is required.

In addition to our standard broadband liquids, the phantom can be used with the following tissue simulating liquids:

Sugar-water-based liquids can be left permanently in the phantom. Always cover the liquid when the system is not in use to prevent changes in liquid parameters due to water evaporation.



DGBE-based liquids should be used with care. As DGBE is a softener for most plastics, the liquid should be taken out of the phantom, and the phantom should be dried when the system is not in use (desirable at least once a week).

Do not use other organic solvents without previously testing the solvent resistivity of the phantom. Approximately 25 liters of liquid is required to fill the SAM Twin phantom.

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# Calibration Frequency Points for EX3DV4 E-Field Probes SN: 7441 Calibrated: 2022/05/16

<b>Calibration Frequency</b>	Frequency Range(MHz)		Conversion Factor		
Point(MHz)	From	To	X	Y	Z
750 Head	650	850	10.04	10.04	10.04
900 Head	850	1000	9.61	9.61	9.61
1450 Head	1350	1550	8.52	8.52	8.52
1750 Head	1650	1850	8.32	8.32	8.32
1900 Head	1850	1950	7.94	7.94	7.94
2000 Head	1950	2100	7.99	7.99	7.99
2300 Head	2200	2400	7.78	7.78	7.78
2450 Head	2400	2550	7.54	7.54	7.54
2600 Head	2550	2700	7.30	7.30	7.30
5250 Head	5140	5360	5.35	5.35	5.35
5600 Head	5490	5700	4.85	4.85	4.85
5750 Head	5700	5860	4.83	4.83	4.83

# **Area Scans**

	≤3 GHz	> 3 GHz	
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface	5 mm ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \text{ mm} \pm 0.5 \text{ mm}$	
Maximum probe angle from probe axis to phantom surface normal at the measurement location	30° ± 1°	20° ± 1°	
	≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm	
Maximum area scan spatial resolution: Δx <sub>Area</sub> , Δy <sub>Area</sub>	When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device.		

# **Zoom Scan (Cube Scan Averaging)**

Maximum zoom scan spatial resolution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>		≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*	
	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
Maximum zoom scan spatial resolution, normal to phantom surface graded grid	_	Δz <sub>Zoom</sub> (1): between 1 <sup>st</sup> two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
	Δz <sub>Zoom</sub> (n>1): between subsequent points		≤1.5·Δz <sub>Zoo</sub>	<sub>m</sub> (n-1) mm
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note:  $\delta$  is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

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

# **Tissue Dielectric Parameters for Head**

The head tissue dielectric parameters recommended by the IEC 62209-1:2016

# **Recommended Tissue Dielectric Parameters for Head**

Table A.3 - Dielectric properties of the head tissue-equivalent liquid

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Frequency	Relative permittivity	Conductivity (σ)
MHz	$arepsilon_{ m r}$	S/m
300	45,3	0,87
450	43,5	0,87
750	41,9	0,89
835	41,5	0,90
900	41,5	0,97
1 450	40,5	1,20
1 500	40,4	1,23
1 640	40,2	1,31
1 750	40,1	1,37
1 800	40,0	1,40
1 900	40,0	1,40
2 000	40,0	1,40
2 100	39,8	1,49
2 300	39,5	1,67
2 450	39,2	1,80
2 600	39,0	1,96
3 000	38,5	2,40
3 500	37,9	2,91
4 000	37,4	3,43
4 500	36,8	3,94
5 000	36,2	4,45
5 200	36,0	4,66
5 400	35,8	4,86
5 600	35,5	5,07
5 800	35,3	5,27
6 000	35,1	5,48

NOTE For convenience, permittivity and conductivity values at those frequencies which are not part of the original data provided by Drossos et al. [33] or the extension to 5 800 MHz are provided (i.e. the values shown in italics). These values were linearly interpolated between the values in this table that are immediately above and below these values, except the values at 6 000 MHz that were linearly extrapolated from the values at 3 000 MHz and 5 800 MHz.

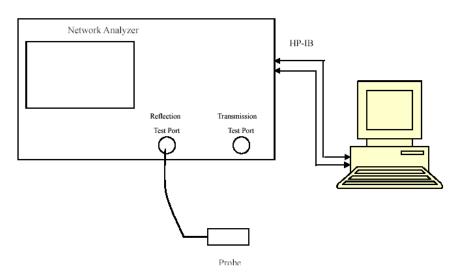
# **EQUIPMENT LIST AND CALIBRATION**

# **Equipments List & Calibration Information**

Equipment	Model	S/N	Calibration Date	Calibration Due Date
DASY5 Test Software	DASY52 52.10.4	N/A	NCR	NCR
DASY5 Measurement Server	DASY5 6.0.31	N/A	NCR	NCR
Data Acquisition Electronics	DAE4	1211	2022/03/01	2023/02/28
E-Field Probe	EX3DV4	7441	2022/05/16	2023/05/15
Mounting Device	MD4HHTV5	SD 000 H01 KA	NCR	NCR
SAM Twin Phantom	SAM-Twin V5.0	1744	NCR	NCR
Dipole,2450MHz	D2450V2	751	2020/10/13 2023/10/12	
Simulated Tissue Liquid Head(500-9500MHz)	HBBL600-10000V6	180622-2	Each Time	
Network Analyzer	8753D	3410A08288	2022/7/05 2023/7/04	
Dielectric Assessment Kit	DAK-3.5	1320	NCR NCR	
Signal Generator	SMB100A	108362	2021/12/23	2022/12/22
USB wideband power sensor	U2021XA	MY52350001	2021/12/23	2022/12/22
Power Amplifier	CBA 1G-070	T44328	2021/12/23	2022/12/22
Linear Power Amplifier	AS0860-40/45	1060913	2021/12/23	2022/12/22
Directional Coupler	4223-20	3.113.277	2021/12/23	2022/12/22
6dB Attenuator	8493B 6dB Attenuator	2708A 04769	2021/12/23	2022/12/22
Spectrum Analyzer	FSV40	101949	2021/12/13	2022/12/12

# SAR MEASUREMENT SYSTEM VERIFICATION

# **Liquid Verification**



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Liquid Verification Setup Block Diagram

# **Liquid Verification Results**

Frequency	Liquid Tuno	Liquid Parameter		Target Value		Delta (%)		Tolerance
(MHz)	Liquid Type	$\epsilon_{\rm r}$	O' (S/m)	$\epsilon_{ m r}$	O' (S/m)	$\Delta \epsilon_{ m r}$	ΔO	(%)
2402	Simulated Tissue Liquid Head	40.114	1.792	39.28	1.77	2.12	1.24	±5
2412	Simulated Tissue Liquid Head	40.102	1.799	39.28	1.77	2.09	1.64	±5
2441	Simulated Tissue Liquid Head	40.081	1.817	39.23	1.79	2.17	1.51	±5
2442	Simulated Tissue Liquid Head	40.081	1.817	39.23	1.79	2.17	1.51	±5
2450	Simulated Tissue Liquid Head	39.961	1.828	39.20	1.80	1.94	1.56	±5
2472	Simulated Tissue Liquid Head	39.927	1.837	39.18	1.81	1.91	1.49	±5
2480	Simulated Tissue Liquid Head	39.911	1.839	39.18	1.81	1.87	1.6	±5

<sup>\*</sup>Liquid Verification above was performed on 2022/07/09.

# **System Accuracy Verification**

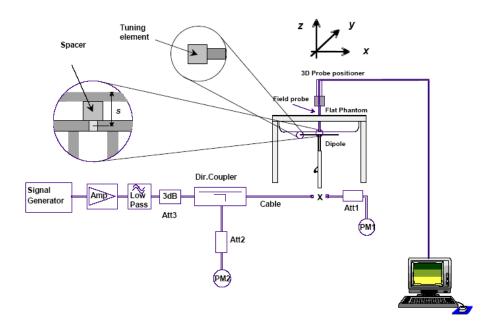
Prior to the assessment, the system validation kit was used to test whether the system was operating within its specifications of  $\pm 10\%$ . The validation results are tabulated below. And also the corresponding SAR plot is attached as well in the SAR plots files.

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The spacing distances in the System Verification Setup Block Diagram is given by the following:

- a)  $s = 15 \text{ mm} \pm 0.2 \text{ mm} \text{ for } 300 \text{ MHz} \le f \le 1000 \text{ MHz};$
- b)  $s = 10 \text{ mm} \pm 0.2 \text{ mm}$  for  $1000 \text{ MHz} < f \le 3000 \text{ MHz}$ ;
- c)  $s = 10 \text{ mm} \pm 0.2 \text{ mm}$  for 3 000 MHz  $< f \le 6$  000 MHz.

# **System Verification Setup Block Diagram**



### **System Accuracy Check Results**

Date	Frequency Band	Liquid Type	Input Power (mW)	:	sured SAR //kg)	Normalized to 1W (W/kg)	Target Value (W/kg)	Delta (%)	Tolerance (%)
2022/07/09	2450 MHz	Head	100	1g	5.71	57.1	53.0	7.736	±10

<sup>\*</sup>The SAR values above are normalized to 1 Watt forward power.

### System Performance 2450MHz

DUT: D2450V2; Type: 2450 MHz; Serial: 751

Communication System: UID 0, CW (0); Frequency: 2450 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz;  $\sigma = 1.828 \text{ S/m}$ ;  $\varepsilon_r = 39.961$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

### DASY5 Configuration:

Probe: EX3DV4 - SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1211; Calibrated: 2022/03/01

Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

# System Performance Cheek at 2450MHz/d=10mm, Pin=100mw/Area Scan (101x111x1): Measurement grid:

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dx=10mm, dy=10mm

Maximum value of SAR (interpolated) = 6.59 W/kg

### System Performance Cheek at 2450MHz/d=10mm, Pin=100mw/Zoom Scan (7x7x7)/Cube 0: Measurement grid:

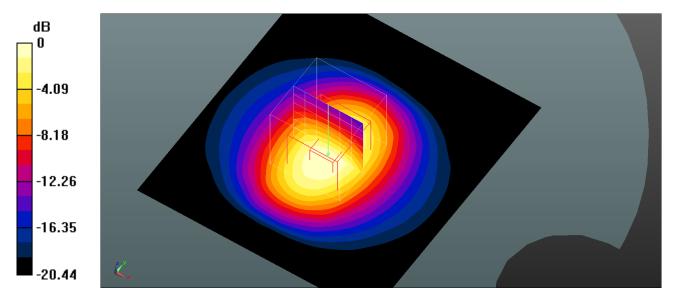
dx=5mm, dy=5mm, dz=5mm

Reference Value = 58.94 V/m; Power Drift = 0.05 dB

Peak SAR (extrapolated) = 12.6 W/kg

# SAR(1 g) = 5.71 W/kg; SAR(10 g) = 2.65 W/kg

Maximum value of SAR (measured) = 6.53 W/kg



0 dB = 6.53 W/kg = 8.15 dBW/kg

# **EUT TEST STRATEGY AND METHODOLOGY**

# Test positions for body-worn and other configurations

Body-worn operating configurations should be tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in normal use configurations. Devices with a headset output should be tested with a headset connected to the device. When multiple accessories that do not contain metallic components are supplied with the device, the device may be tested with only the accessory that dictates the closest spacing to the body. When multiple accessories that contain metallic components are supplied with the device, the device must be tested with each accessory that contains a unique metallic component. If multiple accessories share an identical metallic component (e.g., the same metallic belt-clip used with different holsters with no other metallic components), only the accessory that dictates the closest spacing to the body must be tested.

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Body-worn accessories may not always be supplied or available as options for some devices that are intended to be authorized for body-worn use. A separation distance of 1.5 cm between the back of the device and a flat phantom is recommended for testing body-worn SAR compliance under such circumstances. Other separation distances may be used, but they should not exceed 2.5 cm. In these cases, the device may use body-worn accessories that provide a separation distance greater than that tested for the device provided however that the accessory contains no metallic components.

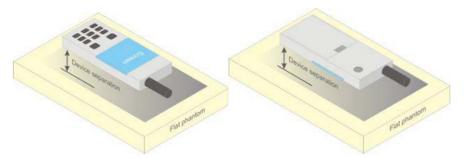


Figure 5 - Test positions for body-worn devices

#### **Test Distance for SAR Evaluation**

For this case the EUT(Equipment Under Test) is set 0mm away from the phantom, the test distance is 0mm.

#### **SAR Evaluation Procedure**

The evaluation was performed with the following procedure:

Step 1: Measurement of the SAR value at a fixed location above the ear point or central position was used as a reference value for assessing the power drop. The SAR at this point is measured at the start of the test and then again at the end of the testing.

- Step 2: The SAR distribution at the exposed side of the head was measured at a distance of 4 mm from the inner surface of the shell. The area covered the entire dimension of the head or radiating structures of the EUT, the horizontal grid spacing was 15 mm x 15 mm, and the SAR distribution was determined by integrated grid of 1.5mm x 1.5mm. Based on these data, the area of the maximum absorption was determined by spline interpolation. The first Area Scan covers the entire dimension of the EUT to ensure that the hotspot was correctly identified.
- Step 3: Around this point, a volume of 30 mm x 30 mm x 30 mm was assessed by measuring 7x 7 x 7 points. On the basis of this data set, the spatial peak SAR value was evaluated under the following procedure:
  - 1) The data at the surface were extrapolated, since the center of the dipoles is 1.2 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.3 mm. The extrapolation was based on a least square algorithm. A polynomial of the fourth order was calculated through the points in z-axes. This polynomial was then used to evaluate the points between the surface and the probe tip.
  - 2) The maximum interpolated value was searched with a straightforward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1 g or 10 g) were computed by the 3D-Spline interpolation algorithm. The 3D-Spline is composed of three one dimensional splines with the "Not a knot"-condition (in x, y and z-directions). The volume was integrated with the trapezoidal-algorithm. One thousand points (10 x 10 x 10) were interpolated to calculate the averages.
  - All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- Step 4: Re-measurement of the SAR value at the same location as in Step 1. If the value changed by more than 5%, the evaluation was repeated.

# CONDUCTED OUTPUT POWER MEASUREMENT

# **Maximum Target Output Power**

Max Target Power(dBm)								
Mada/Dand		Channel						
Mode/Band	Low	Middle	High					
WLAN 2.4G	5.0	5.0	5.0					
Bluetooth BDR/EDR	9.0	9.0	9.0					
BLE	7.5	7.5	7.5					

# **Test Results:**

# **Bluetooth:**

Mode	Channel frequency (MHz)	RF Output Power (dBm)
	2402	7.05
BDR(GFSK)	2441	6.81
	2480	6.50
	2402	8.38
EDR(π/4-DQPSK)	2441	8.26
	2480	7.94
	2402	8.77
EDR(8DPSK)	2441	8.70
	2480	8.58
	2402	7.11
BLE(1M)	2440	6.94
	2480	6.51

# Wi-Fi 2.4G:

Mode	Channel frequency (MHz)	Data Rate	Conducted Average Output
	2412		4.02
802.11b	2442	1Mbps	4.47
	2472		4.36
802.11g	2412		4.30
	2442	6Mbps	4.97
	2472	]	4.89
	2412		4.09
802.11n HT20	2442	MCS0	4.91
	2472		4.67
	2422		4.29
802.11n HT40	2442	MCS0	4.81
	2452		4.85

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# **Duty cycle**

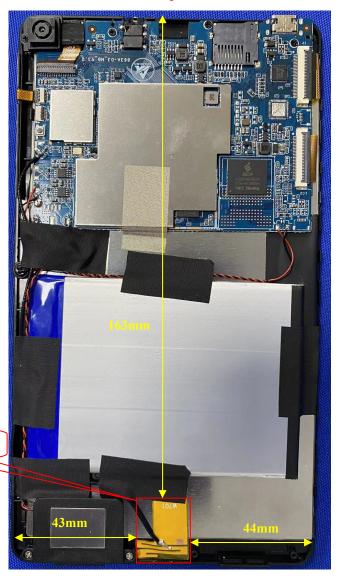
Mode	Duty Cycle (%)
802.11b	96.83
802.11g	83.54
802.11n-HT20	94.88
802.11n-HT40	90.04
BLE 1M	62.28

Left

# Standalone SAR test exclusion considerations

# **Antennas Location:**





WLAN&BT-ANT

Right

**Bottom** 

**EUT Back View** 

# **Antenna Distance To Edge**

Antenna Distance To Edge(mm)									
Antenna	Front	Back	Left	Right	Top	Bottom			
WLAN/BT	< 5	< 5	44	43	163	< 5			

#### Standalone SAR test exclusion considerations

Mode	Frequency (MHz)	Max Target Power (dBm)	Antenna gain (dBi)	P <sub>Max</sub> (dBm)	P <sub>Max</sub> (mW)	Distance (mm)	P <sub>th</sub> (mW)	SAR Test Exclusion
Bluetooth	2480	9.0	2.0	11.0	12.59	0	2.72	No
2.4G Wi-Fi	2472	5.0	2.0	7.0	5.01	0	2.72	No

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#### Note:

- 1.  $P_{Max}$  refers to the greater value in the conducted average power and EIRP.
- 2. The formula for calculating P<sub>th</sub> is given below, with distances ranging from 20cm to 40cm.

$$P_{\rm th} \; ({\rm mW}) = ERP_{\rm 20\; cm} \; ({\rm mW}) = \begin{cases} 2040f & 0.3 \; {\rm GHz} \leq f < 1.5 \; {\rm GHz} \\ \\ 3060 & 1.5 \; {\rm GHz} \leq f \leq 6 \; {\rm GHz} \end{cases}$$

3. The formula for calculating P<sub>th</sub> is given below, with distances ranging from 0.5cm to 40cm.

$$P_{\text{th (mW)}} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \le 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \le 40 \text{ cm} \end{cases}$$

where

$$\chi = -\log_{10}\left(\frac{60}{ERP_{20}\operatorname{cm}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP<sub>20cm</sub> is per Formula (Note 2). 4. When the separation distance is less than 0.5cm, 0.5cm is used as the calculation distance

#### Standalone SAR test exclusion Distance

Mode	Frequency (MHz)	P <sub>Max</sub> (dBm)	P <sub>Max</sub> (mW)	Exclusion distance (mm)
2.4G WLAN	2472	11.0	12.59	11.2
BT	2480	7.0	5.01	6.9

#### Note:

Exclusion distance(mm)= $200*(P_{Max(mW)}/ERP_{20cm})^{1/x}$ .

# SAR test exclusion for the EUT edge considerations Result

Antenna Distance To Edge(mm)										
Mode	Front	Back	Left	Right	Тор	Bottom				
Bluetooth	Required	Required	Exclusion	Exclusion	Exclusion	Required				
2.4GWi-Fi	Required	Required	Exclusion	Exclusion	Exclusion	Required				

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### Note:

Required: The distance to Edge is less than Exclusion distance, testing is required. Exclusion: The distance to Edge is more than Exclusion distance, testing is not required.

## SAR MEASUREMENT RESULTS

This page summarizes the results of the performed dosimetric evaluation.

### **SAR Test Data**

### **Environmental Conditions**

Temperature:	22.1-23.2℃
Relative Humidity:	45-58 %
ATM Pressure:	101.3 kPa
Test Date:	2022/07/09

Testing was performed by Seven Liang, Jacky Yang, Fake ou.

#### **WLAN 2.4G:**

EUT	Frequency		Max. Meas.	Max. Rated	Scaled	duty	Duty cycle	1g SAR (W/kg)		
Position	(MHz)	Test Mode	Power	Power (dBm)	Factor	cycle %	Scaled Factor	Meas. SAR	Scaled   SAR	Plot
	2412	802.11b	/	/	/	/	/	/	/	/
Body Front (0mm)	2442	802.11b	4.47	5.0	1.130	96.83	1.0327	0.070	0.08	1#
(**************************************	2472	802.11b	/	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/	/
Body Back (0mm)	2442	802.11b	4.47	5.0	1.130	96.83	1.0327	0.157	0.18	2#
(**************************************	2472	802.11b	/	/	/	/	/	/	/	/
	2412	802.11b	/	/	/	/	/	/	/	/
Body Bottom (0mm)	2442	802.11b	4.47	5.0	1.130	96.83	1.0327	0.056	0.07	3#
(331111)	2472	802.11b	/	/	/	/	/	/	/	/

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#### Note

- 1. When the 1-g SAR is  $\leq$  0.8W/Kg, testing for other channels are optional.
- 2. When the highest *reported* SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, OFDM SAR is not required.
- 3. When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance.
- 4. When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 80211b/g/n mode is use for SAR measurement, on the highest measured output power channel in the initial test configuration, for each frequency band.
- 5. According 2016 Oct. TCB, for SAR testing of 2.4G WIFI 802.11b signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/( duty cycle)".

### BT:

EUT	Frequency (MHz)	1 est Mode	Max. Meas.		Scaled	duty	Duty cycle	1g SAR (W/kg)		
Position			Power	Power (dBm)	Factor	cycle %	Scaled Factor	Meas. SAR	Scaled SAR	Plot
_	2402	EDR(8DPSK)	/	/	/	/	/	/	/	/
Body Front (0mm)	2441	EDR(8DPSK)	8.70	9.0	1.072	100	1	0.089	0.10	4#
(0)	2480	EDR(8DPSK)	/	/	/	/	/	/	/	/
Body Back (0mm)	2402	EDR(8DPSK)	/	/	/	/	/	/	/	/
	2441	EDR(8DPSK)	8.70	9.0	1.072	100	1	0.191	0.20	5#
	2480	EDR(8DPSK)	/	/	/	/	/	/	/	/
Body Bottom (0mm)	2402	EDR(8DPSK)	/	/	/	/	/	/	/	/
	2441	EDR(8DPSK)	8.70	9.0	1.072	100	1	0.068	0.07	6#
	2480	EDR(8DPSK)	/	/	/	/	/	/	/	/

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### Note:

- When the SAR value is less than half of the limit, testing for other channels are optional.
   When SAR or MPE is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance
- 3. From October 2016 TB workshop, this device power and SAR measured is performed with test software, the duty cycle is 100%.

# **SAR Measurement Variability**

In accordance with published RF Exposure KDB procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01. These additional measurements are repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device should be returned to ambient conditions (normal room temperature) with the battery fully charged before it is re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results

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- 1) Repeated measurement is not required when the original highest measured SAR is < 0.80 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is  $\geq 0.80$  W/kg, repeat that measurement once.
- 3) Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

### The Highest Measured SAR Configuration in Each Frequency Band

# **Body**

SAR probe	Frequency	Freq.(MHz)	EUT D - :4:	Meas. SA	Largest to Smallest		
calibration point	Band	rieq.(Miriz)	EUT Position	Original	Repeated	SAR Ratio	
/	/	/	/	/	/	/	

#### Note:

- 1. Second Repeated Measurement is not required since the ratio of the largest to smallest SAR for the original and first repeated measurement is not > 1.20.
- 2. The measured SAR results **do not** have to be scaled to the maximum tune-up tolerance to determine if repeated measurements are required.
- 3. SAR measurement variability must be assessed for each frequency band, which is determined by the **SAR probe calibration point and tissue-equivalent medium** used for the device measurements..

# SAR SIMULTANEOUS TRANSMISSION DESCRIPTION

# **Simultaneous Transmission:**

Description of Simultaneous Transmit Capabilities						
Transmitter Combination	Simultaneous?	Hotspot?				
2.4G WLAN + Bluetooth	×	×				

henzhen Accurate Technology Co., Ltd.	Report No.: SZNS220428-17186E-SA
AR Plots	
lease Refer to the Attachment.	

# APPENDIX A MEASUREMENT UNCERTAINTY

The uncertainty budget has been determined for the measurement system and is given in the following Table.

Measurement uncertainty evaluation for IEEE1528-2013 SAR test

Source of uncertainty	Tolerance/ uncertaint y ± %	Probability distributio n	Divisor	ci (1 g)	ci (10 g)	Standard uncertai nty ± %, (1 g)	Standard uncertai nty ± %, (10 g)		
Measurement system									
Probe calibration	6.55	N	1	1	1	6.6	6.6		
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7		
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0		
Boundary effect	1.0	R	√3	1	1	0.6	0.6		
Linearity	4.7	R	√3	1	1	2.7	2.7		
Detection limits	1.0	R	√3	1	1	0.6	0.6		
Readout electronics	0.3	N	1	1	1	0.3	0.3		
Response time	0.0	R	√3	1	1	0.0	0.0		
Integration time	0.0	R	√3	1	1	0.0	0.0		
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6		
RF ambient conditions—reflections	1.0	R	√3	1	1	0.6	0.6		
Probe positioner mech. Restrictions	0.8	R	√3	1	1	0.5	0.5		
Probe positioning with respect to phantom shell	6.7	R	√3	1	1	3.9	3.9		
Post-processing	2.0	R	√3	1	1	1.2	1.2		
		Test sample	related						
Test sample positioning	2.8	N	1	1	1	2.8	2.8		
Device holder uncertainty	6.3	N	1	1	1	6.3	6.3		
Drift of output power	5.0	R	√3	1	1	2.9	2.9		
		Phantom and	l set-up						
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3		
Liquid conductivity target)	5.0	R	√3	0.64	0.43	1.8	1.2		
Liquid conductivity meas.)	2.5	N	1	0.64	0.43	1.6	1.1		
Liquid permittivity target)	5.0	R	√3	0.6	0.49	1.7	1.4		
Liquid permittivity meas.)	2.5	N	1	0.6	0.49	1.5	1.2		
Combined standard uncertainty		RSS				12.2	12.0		
Expanded uncertainty 95 % confidence interval)						24.3	23.9		

Source of uncertainty	Tolerance/ uncertai nty ± %	Probability distributio n	Divisor	ci (1 g)	ci (10 g)	Standard uncertai nty ± %, (1 g)	Standard uncertai nty ± %, (10 g)		
Measurement system									
Probe calibration	6.55	N	1	1	1	6.6	6.6		
Axial Isotropy	4.7	R	√3	1	1	2.7	2.7		
Hemispherical Isotropy	9.6	R	√3	0	0	0.0	0.0		
Linearity	4.7	R	√3	1	1	2.7	2.7		
Modulation Response	0.0	R	√3	1	1	0.0	0.0		
Detection limits	1.0	R	√3	1	1	0.6	0.6		
Boundary effect	1.0	R	√3	1	1	0.6	0.6		
Readout electronics	0.3	N	1	1	1	0.3	0.3		
Response time	0.0	R	√3	1	1	0.0	0.0		
Integration time	0.0	R	√3	1	1	0.0	0.0		
RF ambient conditions – noise	1.0	R	√3	1	1	0.6	0.6		
RF ambient conditions-reflections	1.0	R	$\sqrt{3}$	1	1	0.6	0.6		
Probe positioner mech. Restrictions	0.8	R	$\sqrt{3}$	1	1	0.5	0.5		
Probe positioning with respect to phantom shell	6.7	R	$\sqrt{3}$	1	1	3.9	3.9		
Post-processing	2.0	R	$\sqrt{3}$	1	1	1.2	1.2		
	1	Test sample	related	•	•				
Device holder Uncertainty	6.3	N	1	1	1	6.3	6.3		
Test sample positioning	2.8	N	1	1	1	2.8	2.8		
Power scaling	4.5	R	√3	1	1	2.6	2.6		
Drift of output power	5.0	R	$\sqrt{3}$	1	1	2.9	2.9		
	_	Phantom and	set-up			_			
Phantom uncertainty (shape and thickness tolerances)	4.0	R	$\sqrt{3}$	1	1	2.3	2.3		
Algorithm for correcting SAR for deviations in permittivity and conductivity	1.9	N	1	1	0.84	1.1	0.9		
Liquid conductivity (meas.)	2.5	N	1	0.64	0.43	1.6	1.1		
Liquid permittivity (meas.)	2.5	N	1	0.6	0.49	1.5	1.2		
Temp. unc Conductivity	1.7	R	√3	0.78	0.71	0.8	0.7		
Temp. unc Permittivity	0.3	R	√3	0.23	0.26	0.0	0.0		
Combined standard uncertainty		RSS				12.2	12.1		
Expanded uncertainty 95 % confidence interval)						24.5	24.2		

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#### **Test Plot 1#**

## DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, 2.4G DTS (0); Frequency: 2442 MHz; Duty Cycle: 1:1.0327 Medium parameters used (interpolated): f = 2442 MHz;  $\sigma = 1.817$  S/m;  $\varepsilon_r = 40.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

# DASY5 Configuration:

Probe: EX3DV4 - SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16

Sensor-Surface: 4mm (Mechanical Surface Detection)

Electronics: DAE4 Sn1211; Calibrated: 2022/03/01

Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744

Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Body Front/WLAN 802.11b Mid/Area Scan (11x13x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.0629 W/kg

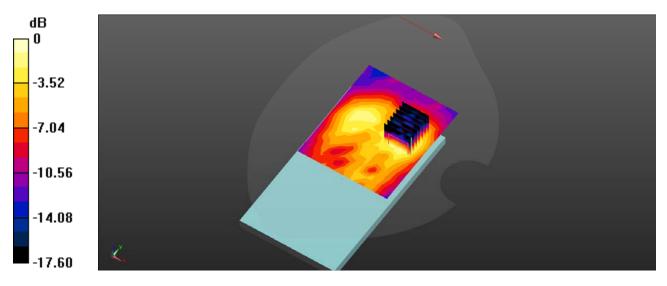
Body Front/WLAN 802.11b Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.193 V/m; Power Drift = 0.06 dB

Peak SAR (extrapolated) = 0.229 W/kg

SAR(1 g) = 0.070 W/kg; SAR(10 g) = 0.033 W/kg

Maximum value of SAR (measured) = 0.0724 W/kg



0 dB = 0.0724 W/kg = -11.40 dBW/kg

#### Test Plot 2#

## DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, 2.4G DTS (0); Frequency: 2442 MHz; Duty Cycle: 1:1.0327 Medium parameters used (interpolated): f = 2442 MHz;  $\sigma$  = 1.817 S/m;  $\epsilon_r$  = 40.081;  $\rho$  = 1000 kg/m³ Phantom section: Flat Section

# DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1211; Calibrated: 2022/03/01
- Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

**Body Back/WLAN 802.11b Mid/Area Scan (11x13x1):** Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.161 W/kg

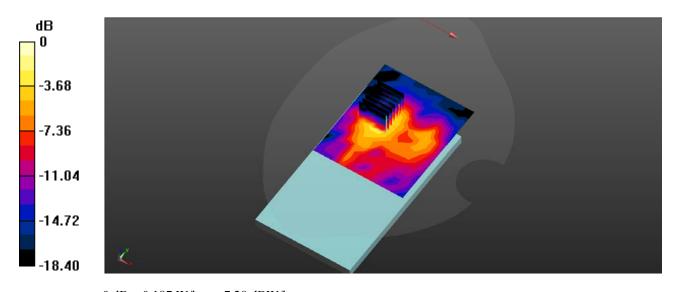
Body Back/WLAN 802.11b Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 5.548 V/m; Power Drift = 0.10 dB

Peak SAR (extrapolated) = 0.585 W/kg

SAR(1 g) = 0.157 W/kg; SAR(10 g) = 0.067 W/kg

Maximum value of SAR (measured) = 0.187 W/kg



0 dB = 0.187 W/kg = -7.28 dBW/kg

### **Test Plot 3#**

## DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, 2.4G DTS (0); Frequency: 2442 MHz; Duty Cycle: 1:1.0327 Medium parameters used (interpolated): f = 2442 MHz;  $\sigma = 1.817$  S/m;  $\varepsilon_r = 40.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

# DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1211; Calibrated: 2022/03/01
- Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Body Bottom/WLAN 802.11b Mid/Area Scan (11x11x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (measured) = 0.0561 W/kg

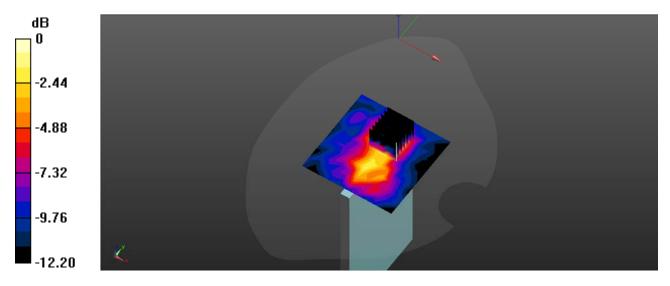
Body Bottom/WLAN 802.11b Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.221 V/m; Power Drift = -0.05 dB

Peak SAR (extrapolated) = 0.122 W/kg

SAR(1 g) = 0.056 W/kg; SAR(10 g) = 0.027 W/kg

Maximum value of SAR (measured) = 0.0631 W/kg



0 dB = 0.0631 W/kg = -12.00 dBW/kg

#### **Test Plot 4#**

## DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, EDR (0); Frequency: 2441 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2441 MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 40.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

# DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1211; Calibrated: 2022/03/01
- Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Body Front/EDR(8DPSK) Mid/Area Scan (13x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.173 W/kg

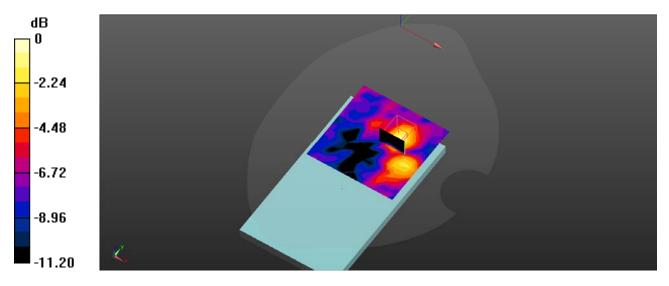
Body Front/EDR(8DPSK) Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.503 V/m; Power Drift = -0.07 dB

Peak SAR (extrapolated) = 0.275 W/kg

SAR(1 g) = 0.089 W/kg; SAR(10 g) = 0.054 W/kg

Maximum value of SAR (measured) = 0.171 W/kg



0 dB = 0.171 W/kg = -7.67 dBW/kg

### **Test Plot 5#**

### DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, EDR (0); Frequency: 2441 MHz; Duty Cycle: 1:1 Medium parameters used: f = 2441 MHz;  $\sigma = 1.817$  S/m;  $\epsilon_r = 40.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

# DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1211; Calibrated: 2022/03/01
- Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Body Back/EDR(8DPSK) Mid/Area Scan (11x11x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.253 W/kg

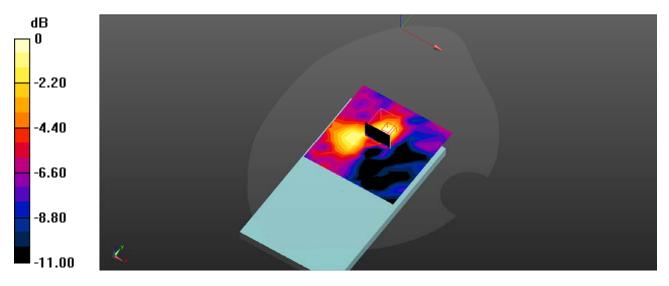
Body Back/EDR(8DPSK) Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 1.580 V/m; Power Drift = -0.08 dB

Peak SAR (extrapolated) = 0.381 W/kg

SAR(1 g) = 0.191 W/kg; SAR(10 g) = 0.084 W/kg

Maximum value of SAR (measured) = 0.268 W/kg



0 dB = 0.268 W/kg = -5.72 dBW/kg

### Test Plot 6#

### DUT: EPIC; Type: Tablet PC; Serial: SZNS220428-17186E-SA-S1

Communication System: UID 0, EDR (0); Frequency: 2441 MHz; Duty Cycle: 1:1

Medium parameters used (interpolated): f = 2441 MHz;  $\sigma = 1.817$  S/m;  $\varepsilon_r = 40.081$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

# DASY5 Configuration:

- Probe: EX3DV4 SN7441; ConvF(7.54, 7.54, 7.54); Calibrated: 2022/05/16
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1211; Calibrated: 2022/03/01
- Phantom: Twin SAM; Type: QD000P40CD; Serial: TP:1744
- Measurement SW: DASY52, Version 52.10 (4); SEMCAD X Version 14.6.14 (7501)

Body Bottom/EDR(8DPSK) Mid/Area Scan (13x13x1): Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 0.127 W/kg

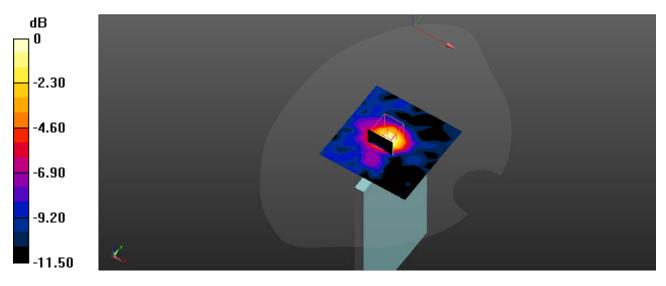
Body Bottom/EDR(8DPSK) Mid/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 4.089 V/m; Power Drift = -0.02 dB

Peak SAR (extrapolated) = 0.621 W/kg

SAR(1 g) = 0.068 W/kg; SAR(10 g) = 0.023 W/kg

Maximum value of SAR (measured) = 0.129 W/kg



0 dB = 0.129 W/kg = -8.89 dBW/kg