

Report No.: EED32R80291302 Page 1 of 41

# **FCC SAR Test Report**

Digital Video Monitor **Product** 

Infant Optics Trade mark

DXR9PPZ-A, DXR-9 Model/Type reference

**Serial Number** N/A

EED32R80291302 **Report Number** 

**FCC ID** 2AAAM-DXR9PPZ-APU

Date of Issue: Jul. 07, 2025

**Test Standards** Refer to Section 1.5

Test result PASS

### Prepared for:

Standard Merit Industrial Limited 604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong

### Prepared by:

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Report No.: EED32R80291302

# Page 2 of 41

### **Table of contents**

1 General information		
1.1 Notes		
1.2 Application details		
1.3 EUT Information		
1.4 Statement of Compliance	 	 6
1.5 Test standard/s	 (W) _/	 
1.6 RF exposure limits	 	 8
1.7 SAR Definition		
1.8 Testing laboratory	 	 9
1.9 Test Environment	 	 9
1.10 Applicant and Manufacturer	 	 
2 SAR Measurement System Description and Setup		
2.1 The Measurement System Description		 10
2.2 Probe description	(0,2)	 11
2.3 Data Acquisition Electronics description		
2.4 SAM Twin Phantom description		
2.5 ELI4 Phantom description		
2.6 Device Holder description		
3 SAR Test Equipment List		
4 SAR Measurement Procedures		
4.1 Spatial Peak SAR Evaluation		
4.2 Data Storage and Evaluation		
4.3 Data Storage and Evaluation		
5 SAR Verification Procedure		
5.1 Tissue Simulating Liquids	 	
5.2 Tissue Verification	 	 25
5.3 System check Procedure		
5.4 System check results		
6 SAR Measurement variability and uncertainty		 29
6.1 SAR measurement variability	 	 29
6.2 SAR measurement uncertainty		
7 SAR Test Configuration		30
7.1 2.4G Test Configurations		30
8 SAR Test Results		
8.1 Conducted Power Measurements		 32



-	No.: EED32R80						•	e 3 of 41
	8.1.1 Conducte  SAR test result							
	8.2.1 Results o							
	Multiple Transr							
	Stand-alone SA							
8.5 \$	Simultaneous <sup>-</sup>	Transmissi	on Possibilit	tiesand Con	cusion			39
Annex	A: Appendix	A: SAR	System pe	rformance	Check Plo	ots		40
Annex	B: Appendix	B: SAR	Measuremo	ent results	Plots			40
Annex	C: Appendix	C: Calib	ration rep	orts				40
Annex	D: Appendix	D: Anter	na rotate	d Photo do	cumentati	on		40
Annex	E: Appendix	E: Anten	na retract	ed Photo	documenta	ition	(0,	40



Page 4 of 41 Report No.: EED32R80291302

## **General information**

#### 1.1 **Notes**

The test results of this test report relate exclusively to the test item specified in this test report.

Centre Testing International Group Co., Ltd. does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reProduced or published in full without the prior written permission.

## **Application details**

Date of receipt of test item: 2025-03-15

Start of test: 2025-03-16

End of test: 2025-03-19

















































Report No.: EED32R80291302 Page 5 of 41

### 1.3 EUT Information

Device Information:				
Product:	Digital Video Monitor	37)	(0.)	
Model:	DXR9PPZ-A, DXR-9			
Test Model:	DXR9PPZ-A			
Trade mark:	Infant Optics			
SN:	N/A	(6)	(6)	
Product Type:	☐ Mobile ☐ Porta	ble 🔲 Fix Locat	ion	
Exposure Category:	uncontrolled environment / general population			
Antenna Type :	External antenna			
Antenna gain:	0dBi			
Others Accessories:	N/A			
Device Operating Configurations:				
Supporting Mode(s) :	2.4GHz: 2410MHz ~2477	MHz		
Modulation:	GFSK	-:>	(3)	
Operating Frequency Range(s)	Band	TX(MHz)	RX(MHz)	
Operating Frequency Range(s)	2.4G	2410	)~2477	
Test Channels (low-mid-high):	2410-2441.5-2477	(3)		
Power Supply:	Li-ion battery	DC 3.85V 5600mAh Charge by DC 5V fo		

Remark:

Model No.: DXR9PPZ-A, DXR-9;

Only the model DXR9PPZ-A was tested, Any of adaptor bearing the following model numbers are said to be identical in cosmetics, materials, PCB layout, electrical, mechanical, and physical design, including software/firmware and they are different in model number only.



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Report No.: EED32R80291302 Page 6 of 41

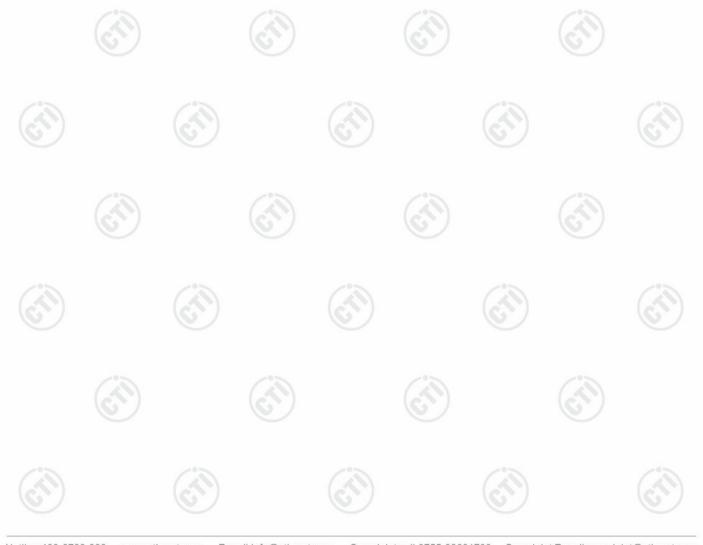
## 1.4 Statement of Compliance

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

Band		MAX Reported SAR (W/kg)  1-g SAR  Hotspot  (0mm)	SAR Test Limit (W/kg)
2.40	Antenna rotated	1.182	4.60
2.4G	Antenna retracted	1.189	1.60

#### Note:

The device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits(1.6W/kg) according to the FCC rule §2.1093, the ANSI/IEEE C95.1:1992, the NCRP Report Number 86 for uncontrolled environment, according to the Industry Canada Radio Standards Specification RSS-102 for General Population/Uncontrolled exposure, and had been tested in accordance with the measurement methods and Procedures specified in IEEE Std 1528-2013.





Report No.: EED32R80291302 Page 7 of 41

#### 1.5 Test standard/s

ANIOLOU I 005 / 4000	Safety Levels with Respect to Human Exposure to Radio Frequency
ANSI Std C95.1-1992	Electromagnetic Fields, 3 kHz to 300 GHz.
IEEE Std 1528-2013	Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques
KDB 248227 D01	SAR guidance for IEEE 802.11(Wi-Fi) transmitters v02r02
KDB 616217 D04	SAR for laptop and tablets v01r02
KDB 447498 D04	Interim General RF Exposure Guidance v01
KDB 690783 D01	SAR Listings on Grants v01r03
KDB 865664 D01	SAR Measurement 100 MHz to 6 GHz v01r04
KDB 865664 D02	RF Exposure Reporting v01r02





Page 8 of 41 Report No.: EED32R80291302

#### 1.6 RF exposure limits

Uncontrolled Environment General Population	Controlled Environment Occupational  8.00 mW/g  0.40 mW/g	
1.60 mW/g	8.00 mW/g	
(40)		
0.08 mW/g	0.40 mW/g	
4.00 mW/g	20.00 mW/g	
	General Population  1.60 mW/g  0.08 mW/g	

The limit applied in this test report is shown in bold letters

### Notes:

- The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the apPropriate averaging time.
- The Spatial Average value of the SAR averaged over the whole body.
- The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the apPropriate averaging time.

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

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

### SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dW) absorbed by(dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ).

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

SAR is expressed in units of watts per kilogram (W/kg). SAR can be related to the electric field at a point by

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

where:

 $\sigma$  = conductivity of the tissue (S/m)

 $\rho$  = mass density of the tissue (kg/m<sup>3</sup>)

E = rms electric field strength (V/m)



Report No.: EED32R80291302

# Page 9 of 41

# **Testing laboratory**

Test Site	Centre Testing International Group Co., Ltd.	(17)	
Test Location	Hongwei Industrial Zone, Bao'an 70 District, She	nzhen, Guangdong, China	
Telephone	+86 (0) 755 3368 3668	-0-	-64
Fax	+86 (0) 755 3368 3385	(31)	(c'

#### **Test Environment** 1.9

**Manufacturer Address:** 

	Required	Actual
Ambient temperature:	18 – 25 °C	21.5 ± 2.0 °C
Tissue Simulating liquid:	18 – 25 °C	21.5 ± 2.0 °C
Relative humidity content:	30 – 70 %	30 – 70 %

# 1.10 Applicant and Manufacturer

Applicant/Client Name:	Standard Merit Industrial Limited
Applicant Address:	604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong
$(?_3)$ $(?_3)$	$(25) \qquad (25)$
Manufacturer Name:	Standard Merit Industrial Limited

Factory Name:	Standard Merit Industrial Limited
Factory Address:	604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong

604 Kalok Building, 720 Nathan Road, Kowloon, Hong Kong

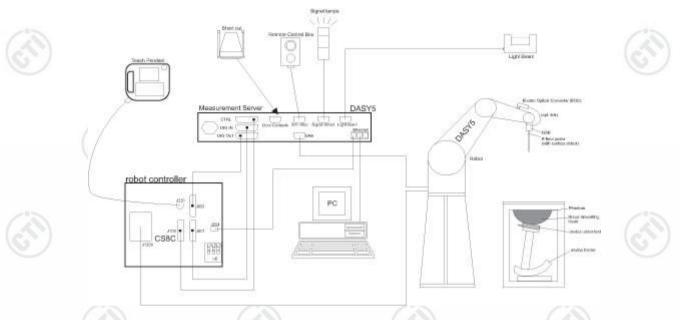




Report No.: EED32R80291302 Page 10 of 41

# 2 SAR Measurement System Description and Setup

### 2.1 The Measurement System Description



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

- A standard high precision 6-axis robot (Stäubli 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 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 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 Profesional operating system and the DASY5 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.





Report No.: EED32R80291302 Page 11 of 41

## 2.2 Probe description

Dosimetric Probes: These Probes are specially designed and calibrated for use in liquids with high permittivities.

They should not be used in air, since the spherical isotropy in air is poor(±2 dB). The dosimetric Probes have special calibrations in various liquids at different frequencies.

Construction	Symmetrical design with triangular core Interleaved sensors Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)
Calibration	ISO/IEC 17025 calibration service available.
Frequency	10 MHz to 6 GHz; Linearity: ± 0.2 dB
Probe Overall Length	337mm
Probe Body Diameter	10mm
Tip Length	9mm
Tip Diameter	2.5mm
Dynamic range	5 μW/g to 100 mW/g; Linearity: ± 0.2 dB



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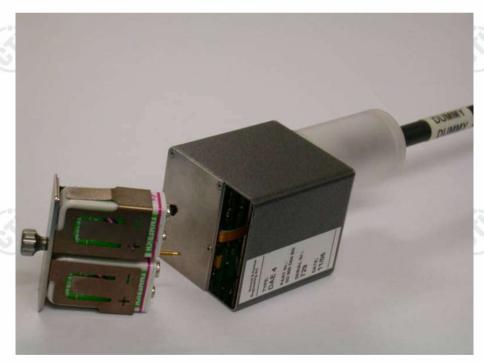


Report No.: EED32R80291302 Page 12 of 41

#### **Data Acquisition Electronics description** 2.3

The data acquisition electronics (DAE4) consist of a highly sensitive electrometer-grade preamplifier with autozeroing, 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 the DAE4 box is 200MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB. Batteries: The DAE works with either two standard 9V batteries or two 9V (actually 8.4V or 9.6 V) rechargeable batteries. Because the electronics automatically power-down unused components during braking or between measurements, the battery lifetime depends on system usage. Typical lifetimes are >20 hours for batteries and >10 hours for accus. Remove the batteries if you do not plan to use the DAE for a long period of time.











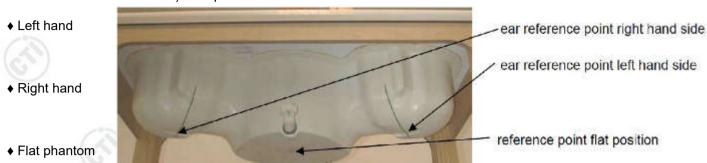




Report No.: EED32R80291302 Page 13 of 41

## 2.4 SAM Twin Phantom description

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



The phantom table for the DASY systems have the size of 100 x 50 x 85 cm (L xWx H). these tables are reinforced for mounting of the robot onto the table. For easy dislocation these tables have fork lift cut outs at the bottom.

The bottom plate contains three pairs of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.

A white cover is Provided to cover the phantom during off-periods to prevent water evaporation and changes in the liquid parameters.

Three reference marks are Provided on the phantom counter. These reference marks are used to teach the absolute phantom position relative to the robot.



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Page 14 of 41 Report No.: EED32R80291302

### **ELI4 Phantom description**

The ELI4 phantom is intended for compliance testing of handheld and body mounted wireless devices in the frequency range of 30MHz to 6 GHz. ELI4 is fully compatible with the latest draft of the standard IEC 62209-2 and all known tissue simulating liquids.

ELI4 has been optimized regarding its performance and can be integrated into a SPEAG standard phantom table. 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







Report No.: EED32R80291302 Page 15 of 41

### 2.6 Device Holder description

repositioning when changing the angles.

The SAR in the phantom is apProximately inversely Proportional to the square of the distance between the source and the liquid surface. For a source at 5mm distance, a positioning uncertainty of ±0.5mm would Produce a SAR uncertainty of ±20%. Accurate device positioning is therefore crucial for accurate and repeatable measurements. The positions in which the devices must be measured are defined by the standards.

The DASY device holder is designed to cope with the different positions given in the standard. It has two scales for device rotation (with respect to the body axis) and device inclination (with respect to the line between the ear reference points). The rotation centers for both scales is the ear reference point (ERP). Thus the device needs no

The DASY device holder is constructed of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$  = 3 and loss tangent  $\delta$  =0.02. The amount of dielectric material has been reduced in the closest vicinity of the device, since measurements have suggested that the influence of the clamp on the test results could thus be lowered.



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Report No.: EED32R80291302 Page 16 of 41

# 3 SAR Test Equipment List

To simplify the identification of the test equipment and/or ancillaries which were used, the reporting of the relevant test cases only refer to the test item number as specified in the table below.

Manufacturer	Device Type	Type(Model)	Serial number	Date of last calibration	Valid period
SPEAG	E-Field Probe	EX3DV4	7328	2024-04-18	One year
SPEAG	835 MHz Dipole	D835V2	4d193	2024-01-17	Three years
SPEAG	1750 MHz Dipole	D1750V2	1134	2024-01-17	Three years
SPEAG	1900 MHz Dipole	D1900V2	5d198	2024-01-18	Three years
SPEAG	2000 MHz Dipole	D2000V2	1078	2024-01-22	Three years
SPEAG	2300 MHz Dipole	D2300V2	1082	2023-01-11	Three years
SPEAG	2450 MHz Dipole	D2450V2	959	2024-01-17	Three years
SPEAG	2600 MHz Dipole	D2600V2	1101	2024-01-22	Three years
SPEAG	5 GHz Dipole	D5GHzV2	1208	2024-01-16	Three years
SPEAG	DAKS Probe	DAKS-3.5	1052	2024-04-22	Three years
SPEAG	Planar R140 Vector Reflectometer	DAKS-VNA R140	0200514	2024-04-22	Three years
SPEAG	Data acquisition electronics	DAE4	1458	2025-01-20	One year
SPEAG	Software	DASY 5	NA	NCR	NCR
SPEAG	Twin Phantom	SAM V5.0	1875	NCR	NCR
SPEAG	Flat Phantom	ELI V6.0	2024	NCR	NCR
Liquid	Head Liquid	2450 Head	2450		1
R&S	Universal Radio Communication Tester	CMU200	101553	2024-12-05	One year
R&S	Universal Radio Communication Tester	CMW500	102898	2024-12-05	One year
Agilent	Signal Generator	N5181A	MY50142334	2024-12-05	One year
BONN	Power Amplifier and	SU319W	BL-SZ1550140	2024-12-05	
KEITHLEY		3500	1128079	2024-06-12	One year
KEITHLEY	RF Power Meter	3500	1128081		
JINGCHUAN G	Temperature/ Humidity Indicator	GSP-8	EMK197F0009	2024-06-05	
	SPEAG	SPEAG E-Field Probe  SPEAG 835 MHz Dipole  SPEAG 1750 MHz Dipole  SPEAG 1900 MHz Dipole  SPEAG 2000 MHz Dipole  SPEAG 2300 MHz Dipole  SPEAG 2450 MHz Dipole  SPEAG 2600 MHz Dipole  SPEAG 5 GHz Dipole  SPEAG DAKS Probe  SPEAG Planar R140 Vector Reflectometer  SPEAG Data acquisition electronics  SPEAG Software  SPEAG Twin Phantom  SPEAG Flat Phantom  Liquid Head Liquid  R & S Universal Radio Communication Tester  R & S Universal Radio Communication Tester  Agilent Signal Generator  BONN Power Amplifier and directional coupler  KEITHLEY RF Power Meter  KEITHLEY RF Power Meter  JINGCHUAN Temperature/ Humidity	SPEAG E-Field Probe EX3DV4  SPEAG 835 MHz Dipole D835V2  SPEAG 1750 MHz Dipole D1750V2  SPEAG 1900 MHz Dipole D2000V2  SPEAG 2000 MHz Dipole D2300V2  SPEAG 2300 MHz Dipole D2300V2  SPEAG 2450 MHz Dipole D2450V2  SPEAG 2600 MHz Dipole D2600V2  SPEAG 5 GHz Dipole D5GHzV2  SPEAG DAKS Probe DAKS-3.5  SPEAG Planar R140 Vector Reflectometer R140  SPEAG Data acquisition electronics DAE4  SPEAG Software DASY 5  SPEAG Twin Phantom SAM V5.0  SPEAG Flat Phantom ELI V6.0  Liquid Head Liquid 2450 Head Universal Radio Communication Tester Communication Tester Agilent Signal Generator N5181A  BONN Power Amplifier and directional coupler KEITHLEY RF Power Meter S500  JINGCHUAN Temperature/ Humidity GSP 8	SPEAG         E-Field Probe         EX3DV4         7328           SPEAG         835 MHz Dipole         D835V2         4d193           SPEAG         1750 MHz Dipole         D1750V2         1134           SPEAG         1900 MHz Dipole         D1900V2         5d198           SPEAG         2000 MHz Dipole         D2000V2         1078           SPEAG         2300 MHz Dipole         D2300V2         1082           SPEAG         2450 MHz Dipole         D2450V2         959           SPEAG         2600 MHz Dipole         D2600V2         1101           SPEAG         5 GHz Dipole         D5GHzV2         1208           SPEAG         DAKS Probe         DAKS-3.5         1052           SPEAG         DAKS Probe         DAKS-VNA R140         0200514           SPEAG         Data acquisition electronics         DAE4         1458           SPEAG         Data acquisition electronics         DASY 5         NA           SPEAG         Twin Phantom         SAM V5.0         1875           SPEAG         Flat Phantom         ELI V6.0         2024           Liquid         Head Liquid         2450 Head         2450           R & S         Universal Radio Communication Tester <td>Manufacturer         Device Type         Type(Model)         Serial number         calibration           SPEAG         E-Field Probe         EX3DV4         7328         2024-04-18           SPEAG         835 MHz Dipole         D835V2         4d193         2024-01-17           SPEAG         1750 MHz Dipole         D1750V2         1134         2024-01-17           SPEAG         1900 MHz Dipole         D1900V2         5d198         2024-01-18           SPEAG         2000 MHz Dipole         D2000V2         1078         2024-01-22           SPEAG         2300 MHz Dipole         D2300V2         1082         2023-01-11           SPEAG         2450 MHz Dipole         D2450V2         959         2024-01-17           SPEAG         2600 MHz Dipole         D2600V2         1101         2024-01-12           SPEAG         2600 MHz Dipole         D5GHzV2         1208         2024-01-12           SPEAG         5 GHz Dipole         D5GHzV2         1208         2024-01-22           SPEAG         5 GHz Dipole         DAKS-3.5         1052         2024-01-22           SPEAG         DAKS Probe         DAKS-VNA         R140         2005-14         2024-01-22           SPEAG         Data acquisition elec</td>	Manufacturer         Device Type         Type(Model)         Serial number         calibration           SPEAG         E-Field Probe         EX3DV4         7328         2024-04-18           SPEAG         835 MHz Dipole         D835V2         4d193         2024-01-17           SPEAG         1750 MHz Dipole         D1750V2         1134         2024-01-17           SPEAG         1900 MHz Dipole         D1900V2         5d198         2024-01-18           SPEAG         2000 MHz Dipole         D2000V2         1078         2024-01-22           SPEAG         2300 MHz Dipole         D2300V2         1082         2023-01-11           SPEAG         2450 MHz Dipole         D2450V2         959         2024-01-17           SPEAG         2600 MHz Dipole         D2600V2         1101         2024-01-12           SPEAG         2600 MHz Dipole         D5GHzV2         1208         2024-01-12           SPEAG         5 GHz Dipole         D5GHzV2         1208         2024-01-22           SPEAG         5 GHz Dipole         DAKS-3.5         1052         2024-01-22           SPEAG         DAKS Probe         DAKS-VNA         R140         2005-14         2024-01-22           SPEAG         Data acquisition elec

#### Note

- 1) Per KDB865664D01 requirements for dipole calibration, the test laboratory has adopted three-year extended calibration interval. Each measured dipole is expected to evaluate with the following criteria at least on annual interval in Appendix C.
- a) There is no physical damage on the dipole;
- b) System check with specific dipole is within 10% of calibrated value;
- c) The most recent return-loss result, measured at least annually, deviates by no more than 20% from the previous measurement.
- d) The most recent measurement of the real or imaginary parts of the impedance, measured at least annually is within  $5\Omega$  from the previous measurement.



Report No.: EED32R80291302 Page 17 of 41

### 4 SAR Measurement Procedures

### 4.1 Spatial Peak SAR Evaluation

The DASY5 software includes all numerical Procedures necessary to evaluate the spatial peak SAR values. The base for the evaluation is a "cube" measurement in a volume of 30mm³ (7x7x7 points). The measured volume must include the 1 g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan. If the 10g cube or both cubes are not entirely inside the measured volumes, the system issues a warning regarding the evaluated spatial peak values within the PostProcessing engine (SEMCAD X). This means that if the measured volume is shifted, higher values might be possible. To get the correct values you can use a finer measurement grid for the area scan. In complicated field distributions, a large grid spacing for the area scan might miss some details and give an incorrectly interpolated peak location. The entire evaluation of the spatial peak values is performed within the PostProcessing engine (SEMCAD X). The system always gives the maximum values for the 1 g and 10 g cubes.

The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. extraction of the measured data (grid and values) from the Zoom Scan
- calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- 3. generation of a high-resolution mesh within the measured volume
- 4. interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- 6. calculation of the averaged SAR within masses of 1 g and 10 g





Report No.: EED32R80291302 Page 18 of 41

## 4.2 Data Storage and Evaluation

#### Data Storage

The DASY5 software stores the measured voltage acquired by the Data Acquisition Electronics (DAE) as raw data together with all the necessary software parameters for the data evaluation (Probe calibration data, liquid parameters and communication system parameters) in measurement files with the extension .da5x. The postProcessing software evaluates the data every time the data is visualized or exported. This allows the verification and modification of the setup after completion of the measurement. For example, if a measurement has been performed with an incorrect crest factor, the parameter can be corrected afterwards and the data can be reevaluated.

To avoid unintentional parameter changes or data manipulations, the parameters in measured files are locked. In the administrator access mode of the software, the parameters can be unlocked. After changing the parameters, the measured scans can be reevaluated in the postProcessing engine.

The measured data can be visualized or exported in different units or formats, depending on the selected Probe type (e.g., E-field, H-field, SAR). Some of these units are not available in certain situations or give meaningless results, e.g., a SAR-output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### **Data Evaluation**

The fields and SAR are calculated from the measured voltage (Probe voltage acquired by the DAE) and the following parameters:

Probe parameters: - Sensitivity norm<sub>i</sub>, a<sub>i0</sub>, a<sub>i1</sub>, a<sub>i2</sub>

- Conversion Factor convF<sub>i</sub>

- Diode Compression Point dcpi

Probe Modulation Response Factors a<sub>i</sub>, b<sub>i</sub>,c<sub>i</sub>, d

Device parameters: - Frequency

- Crest factor cf

Media parameters: - Conductivity σ

- Relative Permittivity

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Report No.: EED32R80291302

Page 19 of 41

This parameters are stored in the DASY5 V52 measurement file.

These parameters must be correctly set in the DASY5 V52 software setup. They are available as configuration file and can be imported into the measurement file. The values displayed in the multimeter window are assessed using the parameters of the actual system setup. In the scan visualization and export modes, the parameters stored in the measurement file are used.

The measured voltage is not Proportional to the exciting. It must be first linearized.

ApProximated Probe Response Linearization using Crest Factor.

This linearization method is enabled when a custom defined communication system is measured. The compensation applied is a function of the measured voltage, the detector diode compression point and the crest factor of the measured signal.

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

linearized voltage of channel i (uV) with (i = x,y,z)

> measured voltage of channel i (uV) Ui (i = x,y,z)

(DASY parameter) crest factor of exciting field cf

diode compression point of channel i (uV) (Probe parameter, i = x,y,z) dcpi



Report No.: EED32R80291302 Page 20 of 41

### Field and SAR Calculation

The primary field data for each channel are calculated using the linearized voltage:

E - fieldProbes : 
$$E_i = \sqrt{\frac{V_i}{Norm_i \cdot ConvF}}$$

H - fieldProbes : 
$$H_i = \sqrt{V_i} \cdot \frac{a_{i0} + a_{i1}f + a_{i2}f^2}{f}$$

with 
$$V_i$$
 = linearized voltage of channel i  $(i = x,y,z)$ 

Norm<sub>i</sub> = sensor sensitivity of channel i 
$$(i = x,y,z)$$

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

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

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

$$SAR = E_{tot}^2 \cdot \frac{\sigma}{\rho \cdot 1'000}$$

$$E_{tot}$$
 = total field strength in V/m

$$\sigma$$
 = conductivity in [mho/m] or [Siemens/m]

$$\rho$$
 = equivalent tissue density in g/cm<sup>3</sup>

Note that the density is set to 1, to account for actual head tissue density rather than the density of the tissue simulating liquid.

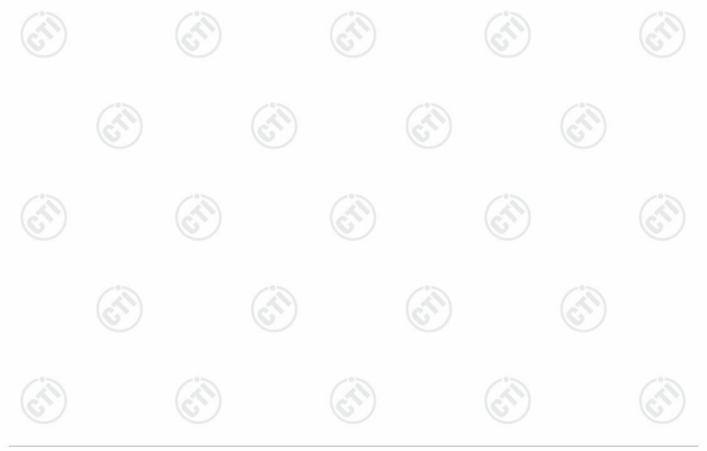


Report No.: EED32R80291302 Page 21 of 41

#### Spatial Peak SAR for 1 g and 10 g

The DASY5 software includes all numerical Procedures necessary to evaluate the spatial peak SAR values. The base for the evaluation is a "cube" measurement at the points of the fine cube grid consisting of 5 x 5 x 7 points (with 8mm horizontal resolution) or 7 x 7 x 7 points (with 5mm horizontal resolution) or 8 x 8 x 7 points (with 4mm horizontal resolution). The entire evaluation of the spatial peak values is performed within the PostProcessing engine (SEMCAD X). The system always gives the maximum values for the 1 g and 10 g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- 1. extraction of the measured data (grid and values) from the Zoom Scan.
- 2. calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).
- 3. generation of a high-resolution mesh within the measured volume.
- 4. interpolation of all measured values from the measurement grid to the high-resolution grid
- 5. extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface.
- 6. calculation of the averaged SAR within masses of 1 g and 10 g.





Report No.: EED32R80291302 Page 22 of 41

## 4.3 Data Storage and Evaluation

The DASY5 installation includes predefined files with recommended Procedures for measurements and validation.

All test positions (head or body-worn) are tested with the same configuration of test steps differing only in the grid definition for the different test positions.

#### Step 1: Power reference measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch Process. The Minimum distance of Probe sensors to surface determines the closest measurement point to phantom surface. By default, the Minimum distance of Probe sensors to surface is 4 mm. This distance can be modified by the user, but cannot be smaller than the Distance of sensor calibration points to Probe tip as defined in the Probe Properties. The SAR measurement was taken at a selected spatial reference point to monitor power variations during testing. This fixed location point was measured and used as a reference value.

#### Step 2: Area Scan

The Area Scan is used as a fast scan in two dimensions to find the area of high field values, before doing a finer measurement around the hotspot. The sophisticated interpolation routines implemented in DASY5 software can find the maximum locations even in relatively coarse grids. When an Area Scan has measured all reachable points, it computes the field maxima found in the scanned area, within a range of the global maximum. The range (in dB) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE 1528-2003 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan). If only one Zoom Scan follows the Area Scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of Zoom Scans has to be increased accordingly.





Report No.: EED32R80291302 Page 23 of 41

#### Step 3: Zoom Scan

The Zoom Scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The default Zoom Scan is defined in the following table. DASY5 is also able to perform repeated zoom scans if more than 1 peak is found during area scan. When the measurement is done, the Zoom Scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Area scan and Zoom scan resolutions per FCC KDB Publication 865664 D01:

	Maximun	Maximun Zoom	Maximun 2	Zoom Scan sp	atial resolution	Minimum
Fraguanay	Area Scan	Scan spatial	Uniform Grid	Gra	ided Grad	zoom scan
Frequency	resolution	resolution	A = (-)	A - (4)*	A - (-> 4)*	volume
	(Δx <sub>Area</sub> ,Δy <sub>Area</sub> )	$(\Delta x_{Zoom}, \Delta y_{Zoom})$	$\Delta z_{Zoom}(n)$	$\Delta z_{Zoom}(1)^*$	$\Delta z_{Zoom}(n>1)^*$	(x,y,z)
≤ 2GHz	≤ 15mm	≤8mm	≤ 5mm	≤ 4mm	≤1.5*∆z <sub>Zoom</sub> (n-1)	≥ 30mm
2-3GHz	≤ 12mm	≤ 5mm	≤ 5mm	≤ 4mm	≤1.5*∆z <sub>Zoom</sub> (n-1)	≥ 30mm
3-4GHz	≤ 12mm	≤ 5mm	≤ 4mm	≤ 3mm	≤1.5*∆z <sub>Zoom</sub> (n-1)	≥ 28mm
4-5GHz	≤ 10mm	≤ 4mm	≤ 3mm	≤ 2.5mm	≤1.5*∆z <sub>Zoom</sub> (n-1)	≥ 25mm
5-6GHz	≤ 10mm	≤ 4mm	≤ 2mm	≤ 2mm	≤1.5*∆z <sub>Zoom</sub> (n-1)	≥ 22mm

### Step 4: Power Drift Monitoring

The Power Drift Measurement measures the field at the same location as the most recent power reference measurement job within the same Procedure, and with the same settings. The Power Drift Measurement gives the field difference in dB from the reading conducted within the last Power Reference Measurement. If the value changed by more than 5%, the evaluation should be retested.





Page 24 of 41 Report No.: EED32M00138905

### **SAR Verification Procedure**

#### 5.1 Tissue Simulating Liquids

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 5.1. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown as followed:

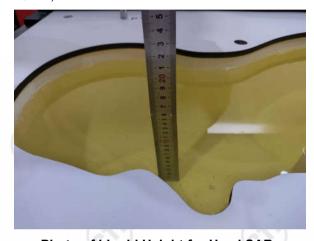


Photo of Liquid Height for Head SAR

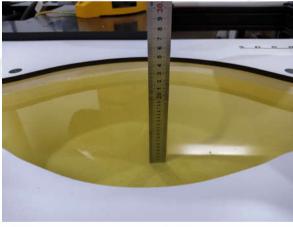


Photo of Liquid Height for Body SAR





Report No.: EED32R80291302 Page 25 of 41

### 5.2 Tissue Verification

The following materials are used for Producing the tissue-equivalent materials. (Liquids used for tests are marked with  $\boxtimes$  ):

Ingredients (% of weight)				Frequency (f	MHz)		
Tissue Type	(24)	-	(2)	Head Tiss	ue		(2)
frequency band	□ 835	<u> </u>	2000	2300	⊠ 2450	<u>2600</u>	<u> </u>
Water	41.45	52.64	54.9	62.82	62.7	55.242	65.52
Salt (NaCl)	1.45	0.36	0.18	0.51	0.5	0.306	0.0
Sugar	56.0	0.0	0.0	0.0	0.0	0.0	0.0
HEC	1.0	0.0	0.0	0.0	0.0	0.0	0.0
Bactericide	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	36.8	0.0	17.24
DGBE	0.0	47.0	44.92	36.67	0.0	44.452	0.0
Diethylenglycol monohexylether	0.0	0.0	0.0	0.0	0.0	0.0	17.24

Salt: 99+% Pure Sodium Chloride Sugar: 98+% Pure Sucrose

Water: De-ionized, 16M $\Omega$ + resistivity

HEC: Hydroxyethyl Cellulose

DGBE: 99+% Di(ethylene glycol) butyl ether, [2-(2-butoxyethoxy)ethanol]

Triton X-100(ultra pure): Polyethylene glycol mono [4-(1,1,3,3-tetramethylbutyl)phenyl]ether



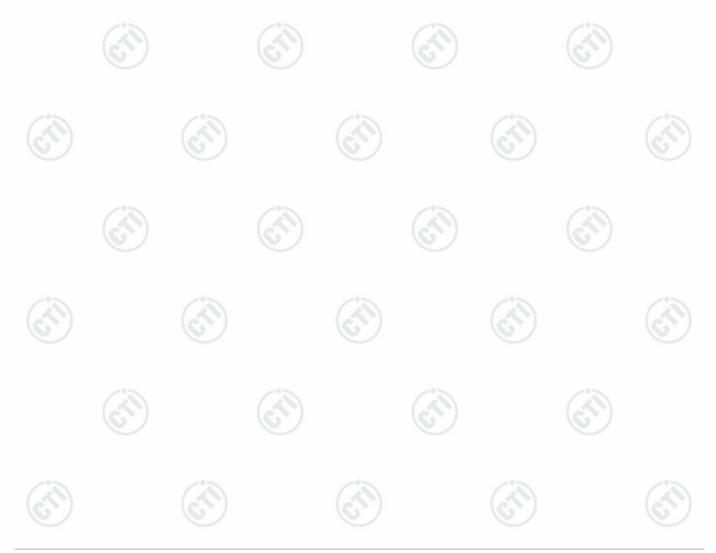


Report No.: EED32R80291302

Page 26 of 41

### Tissue simulating liquids: parameters:

		.9qa pa			1	- 1		44, 41	
Tissu	Measur ed	Target <sup>1</sup>	Tissue		sured sue		iation n ±5%)	Liquid	T4 D-4-
е Туре	Freque ncy (MHz)	ε <sub>r</sub> (+/-5%)	σ (S/m) (+/-5%)	ε <sub>r</sub>	σ (S/m)	Δετ %	Δσ %	Temp.	Test Date
	2450	39.20 (37.24~41.16)	1.80 (1.71~1.89)	40.06	1.837	2.19	2.06	20.28°C	3/18/2025
2450	2410	39.27 (37.31~41.23)	1.77 (1.68~1.86)	39.98	1.779	1.81	0.51	20.28°C	3/18/2025
Head	2441.5	39.21 (37.25~41.17)	1.79 (1.70~1.88)	40.07	1.819	2.19	1.62	20.28°C	3/18/2025
	2477	39.16 (37.20~41.12)	1.82 (1.73~1.91)	39.99	1.851	2.12	1.15	20.28°C	3/18/2025
(3)			εr= Relative p	ermittivit	y, σ= Co	nductivity			



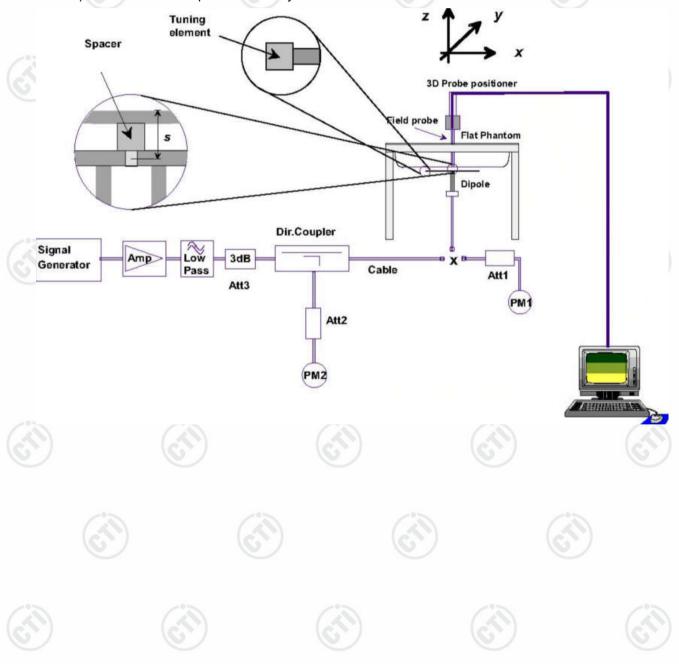


Report No.: EED32R80291302 Page 27 of 41

### 5.3 System check Procedure

The System check is performed by using a System check dipole which is positioned parallel to the planar part of the SAM phantom at the reference point. The distance of the dipole to the SAM phantom is determined by a spacer. The dipole is connected to the signal source consisting of signal generator and amplifier via a directional coupler, N-connector cable and adaption to SMA. It is fed with a power of 250mW. To adjust this power a power meter is used. The power sensor is connected to the cable before the System check to measure the power at this point and do adjustments at the signal generator. At the outputs of the directional coupler both return loss as well as forward power are controlled during the validation to make sure that emitted power at the dipole is kept constant. This can also be checked by the power drift measurement after the test (result on plot).

System check results have to be equal or near the values determined during dipole calibration (target SAR in table above) with the relevant liquids and test system.





System

Check

(MHz)

Report No.: EED32R80291302 Page 28 of 41

#### System check results 5.4

1-g (mW/g)

Target SAR (1W) (+/-10%)

10-g (mW/g)

The system Check is performed for verifying the accuracy of the complete measurement system and performance of the software. The following table shows System check results for all frequency bands and tissue liquids used during the tests (plot(s) see annex A).

Measured SAR

(Normalized to 1W)

10-g

1-g

Measured SAR

(Tolerances)

10-g(%)

1-g(%)

Liquid

Temp.

**Test Date** 

(MHz)	1-g (mW/g)	10-g (mW/g)	(mW/g) (	(mW/g)   1-g(%)	10-g(%)	,	
D2450 Head	53.60 (48.24~58.96)	24.70 (22.23~27.17)		23.00 -4.66	-6.88	20.28°C	3/18/2025
	(6)	Note: All SAR valu	ues are norma	lized to 1W forwa	rd power.		



Report No.: EED32R80291302 Page 29 of 41

# 6 SAR Measurement variability and uncertainty

### 6.1 SAR measurement variability

In accordance with published RF Exposure KDB Procedure 865664 D01 SAR measurement 100 MHz to 6 GHz v01r04. 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. The same Procedures should be adapted for measurements according to extremity exposure limits by applying a factor of 2.5 for extremity exposure.

- 1) Repeated measurement is not required when the original highest measured SAR is < 2.0 W/kg; steps 2) through 4) do not apply.
- 2) When the original highest measured SAR is ≥ 2.0 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 > 3.0 or when the original or repeated measurement is ≥ 3.6 W/kg (~ 10% from the 10-g SAR limit).
- 4) Perform a third repeated measurement only if the original, first or second repeated measurement is ≥3.75 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

## 6.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg, the extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment apProval. The equivalent ratio (1.5/1.6) is applied to extremity and occupational exposure conditions.



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Report No.: EED32R80291302 Page 30 of 41

# 7 SAR Test Configuration

### 7.1 2.4G Test Configurations

For WiFi SAR testing, a communication link is set up with the testing software for WiFi mode test. During the test, at the each test frequency channel, the EUT is operated at the RF continuous emission mode. The RF signal utilized in SAR measurement has 100% duty cycle and its crest factor is 1. The test Procedures in KDB 248227D01 v02r02 are applied.

#### Per KDB 248227 D01 802.11 Wi-Fi SAR v02r02, SAR Test Reduction criteria are as follows:

SAR test reduction for 802.11 Wi-Fi transmission mode configurations are considered separately for DSSS and OFDM. An initial test position is determined to reduce the number of tests required for certain exposure configurations with multiple test positions. An initial test configuration is determined for each frequency band and aggregated band according to maximum output power, channel bandwidth, wireless mode configurations and other operating parameters to streamline the measurement requirements. For 2.4 GHz DSSS, either the initial test position or DSSS Procedure is applied to reduce the number of SAR tests; these are mutually exclusive. For OFDM, an initial test position is only applicable to next to the ear, UMPC mini-tablet and hotspot mode configurations, which is tested using the initial test configuration to facilitate test reduction. For other exposure conditions with a fixed test position, SAR test reduction is determined using only the initial test configuration.

The multiple test positions require SAR measurements in head, hotspot mode or UMPC mini-tablet configurations may be reduced according to the highest reported SAR determined using the <u>initial test position(s)</u> by applying the DSSS or OFDM SAR measurement Procedures in the required wireless mode test configuration(s). The relative SAR levels of multiple exposure test positions can be established by area scan measurements on the highest measured output power channel to determine the <u>initial test position</u>. The area scans must be measured using the same SAR measurement configurations, including test channel, maximum output power, Probe tip to phantom distance, scan resolution etc.

When the <u>reported</u> SAR for the <u>initial test position</u> is:

- ≤0.4 W/kg, further SAR measurement is not required for the other test positions in that exposure configuration and wireless mode combination within the frequency band or aggregated band. DSSS and OFDM configurations are considered separately according to the required SAR Procedures.
- 2) > 0.4 W/kg, SAR is repeated using the same wireless mode test configuration tested in the <u>initial test</u> <u>position</u> to measure the subsequent next closet/smallest test separation distance and maximum coupling test position, on the highest maximum output power channel, until the reported SAR is ≤ 0.8 W/kg or all required test positions are tested.







Report No.: EED32R80291302

Page 31 of 41

3) For all positions/configurations tested using the initial test position and subsequent test positions, when the reported SAR is > 0.8 W/kg, measure the SAR for these positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is ≤ 1.2 W/kg or all required test channels are considered.

SAR is not required for the following 2.4 GHz OFDM conditions.

- 1) When KDB Publication 447498 SAR test exclusion applies to the OFDM configuration.
- 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.





Report No.: EED32R80291302 Page 32 of 41

## 8 SAR Test Results

### 8.1 Conducted Power Measurements

### 8.1.1 Conducted Power of 2.4G

The output power of 2.4G is as following:

Mode	Channel	Frequency (MHz)	Tune-up	Average Power(dBm)	SAR Test (Yes/No)
	1	2410	10.06	10.50	Yes
GFSK	10	2441.5	10.15	10.50	Yes
	20	2477	10.14	10.50	Yes





Report No.: EED32R80291302 Page 33 of 41

### 8.2 SAR test results

#### Notes:

- 1) Per KDB447498 D01v06, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:  $\leq$  0.8 W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq$  100 MHz. When the maximum output power variation across the required test channels is  $> \frac{1}{2}$  dB, instead of the middle channel, the highest output power channel must be used.
- 2) Per KDB447498 D01v06, All measurement SAR result is scaled-up to account for tune-up tolerance is compliant.
- 3) Per KDB865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is ≥0.8W/Kg; if the deviation among the repeated measurement is ≤ 20%, and the measured SAR <1.45W/Kg, only one repeated measurement is required.
- 4) Per KDB865664 D02v01r02, SAR plot is only required for the highest measured SAR in each exposure configuration, wireless mode and frequency band combination; Plots are also required when the measured SAR is > 1.5 W/kg, or > 7.0 W/kg for occupational exposure. The same Procedures should be adapted for measurements according to extremity exposure limits by applying a factor of 2.5 for extremity exposure. The published RF exposure KDB Procedures may require additional plots; for example, to support SAR to peak location separation ratio test exclusion and/or volume scan post-Processing (Refer to appendix B for details).



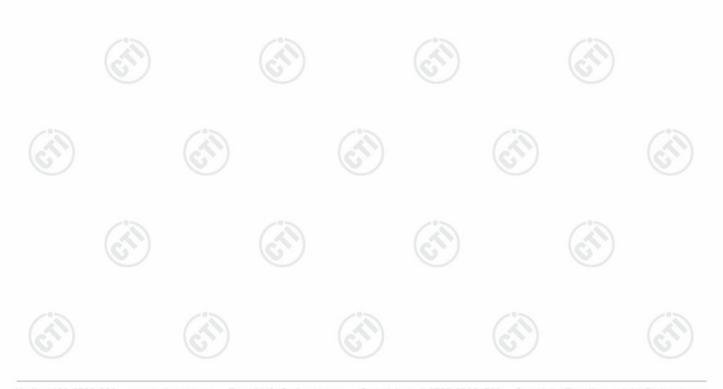


Report No.: EED32R80291302 Page 34 of 41

### 8.2.1 Results overview of 2.4G

### **Test Antenna rotated:**

Test	Test			Value /kg)	D	Cond	Tune-	O a alla d	A - 4 1	Repor ted	Liqui	
Positi on With 0mm	channel /Freq. (MHz)	Test Mode	1-g	10-g	Power Drift (dBm)	Powe r (dBm)	up power (dBm)	Scaled SAR <sub>1-g</sub> (W/kg)	Actual Duty Cycle	SAR <sub>1</sub> .  g (W/kg	d Temp	Plot Page
Front Side	10/2441. 5	GFSK	0.080	0.041	0.000	10.15	10.50	0.086	80.60 %	0.107	20.28 °C	-
Back Side	10/2441. 5	GFSK	0.541	0.225	0.000	10.15	10.50	0.586	80.60 %	0.728	20.28 °C	-
Right Side	10/2441. 5	GFSK	0.034	0.018	0.080	10.15	10.50	0.036	80.60 %	0.045	20.28 °C	-
Top Side	10/2441. 5	GFSK	0.016	0.008	0.000	10.15	10.50	0.017	80.60 %	0.021	20.28 °C	ı
Back Side	1/2410	GFSK	0.365	0.153	0.000	10.06	10.50	0.404	80.60 %	0.501	20.28 °C	-
Back Side	20/2477	GFSK	0.877	0.361	0.000	10.14	10.50	0.953	80.60 %	1.182	20.28 °C	45
				SA	R1-g >0.8	(W/kg) F	Repeated					
Back Side	20/2477	GFSK	0.872	0.360	0.000	10.14	10.50	0.947	80.60 %	1.175	20.22 °C	46





Report No.: EED32R80291302

Page 35 of 41

### **Test Antenna retracted:**

Test	Test			Value /kg)	Dawer	Cond	Tune-	Cooled	Actual	Repor ted	Liqui	
Positi on With 0mm	channel /Freq. (MHz)	Test Mode	1-g	10-g	Power Drift (dBm)	Powe r (dBm)	up power (dBm)	Scaled SAR <sub>1-g</sub> (W/kg)	Actual Duty Cycle	SAR <sub>1</sub> .  g (W/kg )	d Temp	Plot Page
Front Side	10/2441. 5	GFSK	0.013	0.006	0.000	10.15	10.50	0.014	80.60 %	0.017	20.28 °C	-
Back Side	10/2441. 5	GFSK	0.528	0.195	-0.160	10.15	10.50	0.572	80.60	0.710	20.28 °C	-
Right Side	10/2441. 5	GFSK	0.001	0.001	0.000	10.15	10.50	0.001	80.60 %	0.001	20.28 °C	-
Top Side	10/2441. 5	GFSK	0.144	0.062	0.000	10.15	10.50	0.156	80.60 %	0.194	20.28 °C	-
Back Side	1/2410	GFSK	0.343	0.128	-0.040	10.06	10.50	0.380	80.60 %	0.471	20.28 °C	-
Back Side	20/2477	GFSK	0.882	0.319	-0.160	10.14	10.50	0.958	80.60 %	1.189	20.28 °C	47
	6			SA	R1-g >0.8	(W/kg) R	Repeated		(6)			
Back Side	20/2477	GFSK	0.876	0.317	-0.040	10.14	10.50	0.952	80.60 %	1.181	20.22 °C	48

### Note:

1) Scaled SAR = SAR Value \* 10(0.1\*(Tune up Power-Conducted Power))

Reported SAR = SAR Value \* 10(0.1\*(Tune up Power-Conducted Power))/ Duty factor \* 100





Report No.: EED32R80291302 Page 36 of 41

# 8.3 Multiple Transmitter Information

The location of the antennas inside this device is shown as below picture:

#### Antenna rotated:



<EUT Back View>

#### **Antenna retracted:**





Report No.: EED32R80291302 Page 37 of 41

### 8.4 Stand-alone SAR

Per FCC KDB 447498:

 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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g SAR and  $\le 7.5$  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 calculation
- The result is rounded to one decimal place for comparison
   When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.</li>
- 2) 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) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)·(f(MHz)/150)]} mW, at 100 MHz to 1500 MHz
  - b) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance 50 mm)·10]} mW at > 1500 MHz and ≤ 6 GHz

#### Antenna rotated:

(Antennas <50mm to adjacent sides)

Band	Exposure Condition	f(GHz)	Pmax	Pmax			Sepera	ation Distar	nce(mm)				SAR Te	st (Yes or N	lo)	
Duna	Exposure condition	1(0112)	dBm	mW	Front side	Back side	Left side	Right side	Top side	Bottom side	Front side	Back side	Left side	Right side	Top side	Bottom side
2.4G	Body 0mm	2.45	10.50	11.22	5.00	5.00	135.00	22.00	5.00	68.00	Yes	Yes	>50mm	Yes	Yes	>50mm

### (Antennas >50mm to adjacent sides)

Band	Exposure Condition	f(GHz)	Pmax	Pmax			Seperation	Distance(m	ım)				SAR Te	st (Yes or N	lo)	
Bario	Exposure Condition	1(0112)	dBm	mW	Front side	Back side	Left side	Right side	Top side	Bottom side	Front side	Back side	Left side	Right side	Top side	Bottom side
2.4G	Body 0mm	2.45	10.50	11.22	5.00	5.00	135.00	22.00	5.00	68.00	<50mm	<50mm	No	<50mm	<50mm	No





Report No.: EED32R80291302 Page 38 of 41

#### Antenna retracted:

(Antennas <50mm to adjacent sides)

Band	Evnosure Condition	f(GHz)	Pmax	Pmax			Sepera	ation Distar	nce(mm)				SAR Te	st (Yes or N	lo)	
Ballu	Exposure condition	1(0112)	dBm	mW	Front side	Back side	Left side	Right side	Top side	Bottom side	Front side	Back side	Left side	Right side	Top side	Bottom side
WiFi 2.4G	Body 0mm	2.45	10.50	11.22	5.00	5.00	51.00	22.00	5.00	68.00	Yes	Yes	>50mm	Yes	Yes	>50mm

### (Antennas >50mm to adjacent sides)

Band	Exposure Condition	f(GHz)	Pmax	Pmax			Seperation	Distance(n	ım)				SAR Te	st (Yes or N	lo)	
Bario	Exposure condition	1(0112)	dBm	mW	Front side	Back side	Left side	Right side	Top side	Bottom side	Front side	Back side	Left side	Right side	Top side	Bottom side
WiFi 2.4G	Body 0mm	2.45	10.50	11.22	5.00	5.00	51.00	22.00	5.00	68.00	<50mm	<50mm	No	<50mm	<50mm	No

3) When the minimum test separation distance is > 50 mm, the estimated SAR value is 0.4 W/kg.
For conditions where the estimated SAR is overly conservative for certain conditions, the test lab may choose to perform standalone SAR measurements and use the measured SAR to determine simultaneous transmission SAR test exclusion.





Report No.: EED32R80291302 Page 39 of 41

### 8.5 Simultaneous Transmission Possibilities and Conlcusion

The device has one antenna, there is not simultaneous transmission possibility and the reported SAR results is not exceed the SAR limit, so the tested result is comply with the FCC limit.





Report No.: EED32R80291302 Page 40 of 41

Annex A: Appendix A: SAR System performance Check Plots

(Please See Appendix A)

Annex B: Appendix B: SAR Measurement results Plots

(Please See Appendix B)

Annex C: Appendix C: Calibration reports

(Please See Appendix C)

Annex D: Appendix D: Antenna rotated Photo documentation

(Please See Appendix D)

Annex E: Appendix E: Antenna retracted Photo documentation

(Please See Appendix E)





Report No.: EED32R80291302 Page 41 of 41

#### **Statement**

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
- 5. Without written approval of CTI, this report can't be reproduced except in full.

