



SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR230700224003 Page: 1 of 40

# FCC SAR TEST REPORT

Application No.:	SZCR2307002240AT	
Applicant:	SZ DJI Osmo Technology Co., Ltd.	
Address of Applicant:	4F, Jingkou Community Comprehensive Service Building, No. 83 Bishui Road North, Guangming Street, Guangming District, Shenzhen, China.	
Manufacturer:	SZ DJI Ronin Technology Co., Ltd.	
Address of Manufacturer:	Floor 4-5, Block 13, Area 7, Baiwangxin Industrial Park, Songbai Road, Nanshan District, Shenzhen City, Guangdong Province, China.	
Product Name:	DJI MIC 2 Receiver	
Model No.:	DMR02	
Trade mark:	DJI	
FCC ID:	2ANDR-DMR02	
Standard(s) :	FCC 47CFR §2.1093	
Date of Receipt:	2023-08-09	
Date of Test:	2023-08-11	
Date of Issue:	2023-08-19	
Test Result:	Pass*	
* In the configuration tested, the EUT complied with the standards specified above.		

Keny. XM

Keny Xu EMC Laboratory Manager



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Ierms-and-Conditions, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com [Nk IWMtoke, Mk IMdes/etk, Sharka, Bangka, Dilha 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn Pa i r s & % Jin 市au CAN to Date III have the III have the fulles and blank allowide. Sharka, Sharka



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 2 of 40

Revision Record				
Version	Description	Date	Remark	
00	Original	2023-08-19	/	

Authorized for issue by:		
	Owen Xiao	
	Owen Xiao/ Project Engineer	
	Eric Fu	
	Eric Fu / Reviewer	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gsg.com

or email: <u>CN.Doccheck@sgs.com</u> Me. Workshop, M-M, Midde Section, Science & Technology Park, Nanshan District, Shearchen, Guangdong, Clina 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 3 of 40

# **TEST SUMMARY**

Frequency Band	Maximum Reported SAR(W/kg)	Maximum Reported SAR(W/kg)	Maximum Reported SAR(W/kg)
	Head	Body	Limbs
SDR	0.35	0.67	0.94
SAR Limited(W/kg)	1.60	1.60	4.0



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exported by a company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's some transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test days only. **Attention:** To check the **authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CM. Decheck @ags.com</u>]** 

Na.1 Workshop, II-10, Middle Section, Science & Technology Park, Ikanshan District, Shanzhan, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com. 中国・广东・深圳市南山区科技园中区II-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 4 of 40

# **CONTENTS**

1	GENERAL INFORMATION	6
	<ul> <li>1.1 GENERAL DESCRIPTION OF EUT</li> <li>1.2 DUT ANTENNA LOCATIONS</li> <li>1.3 TEST SPECIFICATION</li> </ul>	7
	1.4     RF EXPOSURE LIMITS       1.5     TEST LOCATION	
	1.6 TEST FACILITY	
2		
3		
	<ul> <li>3.1 THE SAR MEASUREMENT SYSTEM</li></ul>	
	3.4         SAM Twin Phantom           3.5         ELI Phantom	
	3.6 Device Holder for Transmitters	
	3.7 MEASUREMENT PROCEDURE	
	3.7.1 Scanning procedure 3.7.2 Data Storage	
	3.7.3 Data Evaluation by SEMCAD	
4	SAR MEASUREMENT VARIABILITY AND UNCERTAINTY	21
	<ul> <li>4.1 SAR MEASUREMENT VARIABILITY</li></ul>	
5	DESCRIPTION OF TEST POSITION	23
	5.1 THE TEST POSITION	23
6	SAR SYSTEM VERIFICATION PROCEDURE	24
	6.1 TISSUE SIMULATE LIQUID	
	6.1.1 Recipes for Tissue Simulate Liquid	
	6.1.2 Test Liquids Confirmation 6.1.3 Measurement for Tissue Simulate Liquid	
	6.2 SAR SYSTEM CHECK	
	6.2.1 Justification for Extended SAR Dipole Calibrations	
	6.2.2 Summary System Check Result(s) 6.2.3 Detailed System Check Results	
7		
•	7.1.1 2.4G SDR Test Configuration	
	7.1.1 2.4G SDR Test Conliguration 7.1.2 DUT Antenna Locations	
8		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com or email: CN.Doccheck@sgs.com [No.1 Workshop, II-10, Middle Section, Science & Technology Park, Nanshan District, Shanzhan, Guiangdong, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsgroup.com.cn



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 5 of 40

<ul><li>8.1.1 Conducted Power</li><li>8.1.2 SAR Result Of SDR</li></ul>	32
8.1.2 SAR Result OI SDR	
9 EQUIPMENT LIST	34
10 CALIBRATION CERTIFICATE	35
11 PHOTOGRAPHS	35
APPENDIX A: DETAILED SYSTEM CHECK RESULTS	36
APPENDIX B: DETAILED TEST RESULTS	38
APPENDIX C: CALIBRATION CERTIFICATE	40
APPENDIX D: PHOTOGRAPHS	40



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's seponsibility is to its Client and this document does not exported by a company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's seponsibility is to its Client and this document does not exported by a company's findings at the limit of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CM. Docheck & Bayses</u>, commily [M. Withigh M. M. Mithight Mithight Buthy Results, Shaniha, Gaugdang, Clime 518057 t (86-755) 2601203 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 6 of 40

# **1** General Information

## **1.1 General Description of EUT**

Product Phase:	production unit			
Device Type:	portable device	portable device		
Exposure Category:	uncontrolled enviro	onment / general populatio	n	
Hardware Version:	V1.0			
Software Version:	V00.00.00.01			
IMEI/SN:	6VSDL6S0010028			
Antenna Type:	IFA antenna			
Antenna Gain:	0.3dBi			
Device Operating Configurations:				
Modulation Mode:	2.4G SDR: GFSK			
Frequency Bands:	Band	Tx (MHz)	Rx (MHz)	
Trequency Danus.	2.4G SDR	2402~2480	2402~2480	
	Model:	BSX102-360-3.87-RX		
	Normal Voltage: 3.87V			
Battery Information:	Rated capacity:	360mAh, 1.393Wh		
	Battery Type:	Rechargeable Li-ion Battery		
	Manufacturer	Springpower Technology (Shenzhen) Co., Ltd.		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention:** To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gss.com

01 en man. Unit All Middle Section, Science & Technology Park, Nanshan District, Steargham, Guangdong, Clina 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 7 of 40

### 1.2 DUT Antenna Locations

Please see the Appendix D



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN\_Doccheck@ass.com</u>]

中国・广东・深圳市南山区科技园中区№-10栋1号厂房 邮编:518057 t (86-755)26012053 f (86-755)26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 8 of 40

#### **1.3 Test Specification**

Identity	Document Title
FCC 47CFR §2.1093	Radio frequency Radiation Exposure Evaluation: Portable Devices
IEEE Std C95.1 – 1992	IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz
IEEE 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 447498 D04 v01	RF Exposure Procedures and Equipment Authorization Policies for Mobile and Portable Devices
KDB 865664 D01 v01r04	SAR Measurement Requirements for 100 MHz to 6 GHz
KDB 865664 D02 v01r02	RF Exposure Compliance Reporting and Documentation Considerations



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN\_Doccheck@ass.com</u>]

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 9 of 40

#### **1.4 RF exposure limits**

Human Exposure	Uncontrolled Environment General Population	Controlled Environment Occupational
Spatial Peak SAR* (Brain*Trunk)	1.60 W/kg	8.00 W/kg
Spatial Average SAR** (Whole Body)	0.08 W/kg	0.40 W/kg
Spatial Peak SAR*** (Hands/Feet/Ankle/Wrist)	4.00 W/kg	20.00 W/kg

#### 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.)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced exceept in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (X.Doccheck@gss.com)

01-81-11-01-12-00-12-01-82-01-2-01-02-0
中国・广东・深圳市南山区科技园中区II-10株1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 10 of 40

#### 1.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594 No tests were sub-contracted.

#### 1.6 Test Facility

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

#### A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

#### • VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

#### • FCC – Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excente parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sgs.com</u>]** 

中国·广东·深圳市南山区科技园中区₩-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 11 of 40

# 2 Laboratory Environment

Temperature	Min. = 18°C, Max. = 25 °C	
Relative humidity	Min. = 30%, Max. = 70%	
Ground system resistance	< 0.5 <b>Ω</b>	
Ambient noise is checked and found very low and in compliance with requirement of standards.		
Reflection of surrounding objects is minimized and in compliance with requirement of standards.		



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's seponsibility is to its Client and this document does not exported by a company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's seponsibility is to its Client and this document does not exported by a company's findings at the limit of the company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) test days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CM. Docheck & Bayses</u>, commily [M. Withigh M. M. Mithight Mithight Buthy Results, Shaniha, Gaugdang, Clime 518057 t (86-755) 2601203 f (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 12 of 40

# **3** SAR Measurements System Configuration

#### 3.1 The SAR Measurement System

This SAR Measurement System uses a Computer-controlled 3-D stepper motor system (SPEAG DASY5 professional system). A E-field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|2)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-Simulate.

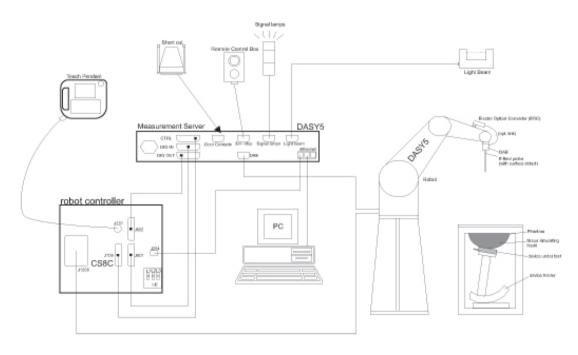
The DASY5 system for performing compliance tests consists of the following items:

A standard high precision 6-axis robot (Stabile RX family) with controller, teach pendant and software. An arm extension for accommodation the data acquisition electronics (DAE).

A dosimetric probe, i.e., an isotropic E-field probe optimized and calibrated for usage in tissue simulating liquid. The probe is equipped with an optical surface detector system.

A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.

The Electro-optical converter (EOC) performs the conversion between optical and electrical of the signals for the digital communication to DAE and for the analog signal from the optical surface detection. The EOC is connected to the measurement server.



#### F-1. SAR Measurement System Configuration



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excente parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@ags.com</u> [Nik Nitwiske], Middisekdb, Samsa Itemborg Ri, Isahan Disht, Samaha, Giangong, Clina 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn there is -fr free or ly to the site attemption of the site of the



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 13 of 40

- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- A probe alignment unit which improves the (absolute) accuracy of the probe positioning.
- A computer operating Windows 7.
- DASY5 software.
- Remote control with teach pendant and additional circuitry for robot safety such as warning lamps, etc.
- The SAM twin phantom enabling testing left-hand, right-hand and Body Worn usage.
- The device holder for handheld mobile phones.
- Tissue simulating liquid mixed according to the given recipes.
- Validation dipole kits allowing to validat the proper functioning of the system.

#### 3.2 Isotropic E-field Probe EX3DV4

	Symmetrical design with triangular core 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 (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: ± 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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@ags.com]



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 14 of 40

## 3.3 Data Acquisition Electronics (DAE)

Model	DAE4	
Construction	Signal amplifier, multiplexer, A/D converter and control logic. Serial optical link for communication with DASY4/5 embedded system (fully remote controlled). Two step probe touch detector for mechanical surface detection and emergency robot stop.	A second
Measurement Range	-100 to +300 mV (16 bit resolution and two range settings: 4mV,400mV)	
Input Offset Voltage	< 5µV (with auto zero)	
Input Bias Current	< 50 f A	
Dimensions	60 x 60 x 68 mm	

#### 3.4 SAM Twin Phantom

Material	Vinylester, glass fiber reinforced (VE- GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	$2 \pm 0.2$ mm (6 $\pm 0.2$ mm at ear point)	T III
Dimensions (incl. Wooden Support)	Length: 1000mm Width: 500mm Height: adjustable feet	
Filling Volume	approx. 25 liters	-
Wooden Support	SPEAG standard phantom table	

The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209-1. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by teaching three points with the robot.

Twin SAM V5.0 has the same shell geometry and is manufactured from the same material as Twin SAM V4.0, but has reinforced top structure.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is actived wised that information contained hereon reflects the Company's findings at the time of lis intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such as mathe(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gs.com

 Ne. Numking M. Middeskdx, Samak Istendogram, liamgdug, Clima 518057
 t (86-755) 26012053
 f (86-755) 28710594
 www.sgsgroup.com.cn.

 中国 中 广 东 · 深圳市南山区科技园中区JH-10拣1号厂房 邮编: 518057
 t (86-755) 280710594
 sgs.china@gsg.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 15 of 40

#### 3.5 ELI Phantom

Material	Vinylester, glass fiber reinforced (VE-GF)	
Liquid Compatibility	Compatible with all SPEAG tissue simulating liquids (incl. DGBE type)	
Shell Thickness	$2.0 \pm 0.2$ mm (bottom plate)	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	
Filling Volume	approx. 30 liters	
Wooden Support	SPEAG standard phantom table	

Phantom for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.

ELI V5.0 has the same shell geometry and is manufactured from the same material as ELI4, but has reinforced top structure.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sus.com</u>]** 

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 16 of 40

#### **3.6 Device Holder for Transmitters**



F-2. Device Holder for Transmitters

- The DASY device holder is designed to cope with different positions given in the standard. It has two scales for the device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear reference points). The rotation centres for both scales are the ear reference point (ERP). Thus the device needs no repositioning when changing the angles.
- The DASY device holder has been made out of low-loss POM material having the following dielectric parameters: relative permittivity  $\varepsilon$ =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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exconerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sus.com</u>]** 

中国・广东・深圳市南山区科技园中区NH-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 17 of 40

#### 3.7 Measurement procedure

#### 3.7.1 Scanning procedure

#### Step 1: Power reference measurement

The "reference" and "drift" measurements are located at the beginning and end of the batch process. They measure the field drift at one single point in the liquid over the complete procedure.

#### Step 2: Area scan

The SAR distribution at the exposed side of the head was measured at a distance of 4mm from the inner surface of the shell. The area covered the entire dimension of the head and the horizontal grid spacing was 15mm\*15mm or 12mm\*12mm or 10mm\*10mm.Based on the area scan data, the area of the maximum absorption was determined by spline interpolation.

#### Step 3: Zoom scan

Around this point, a volume of  $30mm^*30mm^*30mm$  (fine resolution volume scan, zoom scan) was assessed by measuring 5x5x7 points ( $\leq 2GHz$ ) and 7x7x7 points ( $\geq 2GHz$ ). On this basis of this data set, the spatial peak SAR value was evaluated with the following procedure:

The data at the surface was extrapolated, since the centre of the dipoles is 2.0mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.2mm. (This can be variable. Refer to the probe specification). 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. The maximum interpolated value was searched with a straight-forward algorithm. Around this maximum the SAR values averaged over the spatial volumes (1g or 10g) were computed using the 3D-Spline interpolated to calculate the average. All neighbouring volumes were evaluated until no neighboring volume with a higher average value was found.

The area and zoom scan resolutions specified in the table below must be applied to the SAR measurements Probe boundary effect error compensation is required for measurements with the probe tip closer than half a probe tip diameter to the phantom surface. Both the probe tip diameter and sensor offset distance must satisfy measurement protocols; to ensure probe boundary effect errors are minimized and the higher fields closest to the phantom surface can be correctly measured and extrapolated to the phantom surface for computing 1-g SAR. Tolerances of the post-processing algorithms must be verified by the test laboratory for the scan resolutions used in the SAR measurements, according to the reference distribution functions specified in IEEE Std. 1528-2013.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. <u>Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN\_Doccheck@sss.com</u>]</u>

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

Member of the SGS Group (SGS SA)

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 18 of 40

			$\leq$ 3 GHz	> 3 GHz		
Maximum distance fro (geometric center of pr			5 ± 1 mm	$\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5 \text{ mm}$		
Maximum probe angle surface normal at the n	-	-	30°±1°	20°±1°		
			$\leq$ 2 GHz: $\leq$ 15 mm 2 - 3 GHz: $\leq$ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm		
Maximum area scan sp	atial resolu	ation: $\Delta x_{Area}$ , $\Delta y_{Area}$	When the x or y dimension o measurement plane orientation the measurement resolution n x or y dimension of the test d measurement point on the test	on, is smaller than the above, must be $\leq$ the corresponding evice with at least one		
Maximum zoom scan s	spatial reso	lution: Δx <sub>Zoom</sub> , Δy <sub>Zoom</sub>	$\leq 2 \text{ GHz}: \leq 8 \text{ mm}$ 2 - 3 GHz: $\leq 5 \text{ mm}^*$	$3 - 4 \text{ GHz} \le 5 \text{ mm}^*$ $4 - 6 \text{ GHz} \le 4 \text{ mm}^*$		
	uniform	grid: ∆z <sub>Zoom</sub> (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	$\Delta z_{Zoom}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface	$\leq$ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm		
	grid	Δz <sub>Zoom</sub> (n>1): between subsequent points	$\leq 1.5 \cdot \Delta z_{Zoom}(n-1)$			
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm		
P1528-2011 for d	letails.	-	I incidence to the tissue mediu			

When zoom scan is required and the <u>reported</u> SAR from the area scan based 1-g SAR estimation procedures of KDB 447498 is  $\leq 1.4$  W/kg,  $\leq 8$  mm,  $\leq 7$  mm and  $\leq 5$  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.

#### Step 4: Power reference measurement (drift)

The Power Drift Measurement job 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 indicated drift is mainly the variation of the DUT's output power and should vary max.  $\pm 5$  %



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that Information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this documents under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be presecuted to the fullest extent of the law. Unless otherwise stated the results shown in this text report refor only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@egs.com</u> [Mk.IWtokiek.Mk.Watek.Bkm.Matek.Bandwa,Bandyon,China 518057 t (86-755) 26710594 www.sgsgroup.com.cn email: <u>CN.Doccheck@egs.com</u>]



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 19 of 40

#### 3.7.2 Data Storage

The DASY software stores the acquired data from the data acquisition electronics as raw data (in microvolt readings from the probe sensors), together with all necessary software parameters for the data evaluation (probe calibration data, liquid parameters and device frequency and modulation data) in measurement files with the extension ".DAE3". The software evaluates the desired unit and format for output each time the data is visualized or exported. This allows verification of the complete software setup even after the measurement and allows correction of incorrect parameter settings. For example, if a measurement has been performed with a wrong crest factor parameter in the device setup, the parameter can be corrected afterwards and the data can be reevaluated. The measured data can be visualized or exported in different units or formats, depending on the selected probe type ([V/m], [A/m], [°C], [m W/g], [m W/cm<sup>2</sup>], [dBrel], etc.). Some of these units are not available in certain situations or show meaningless results, e.g., a SAR output in a lossless media will always be zero. Raw data can also be exported to perform the evaluation with other software packages.

#### 3.7.3 Data Evaluation by SEMCAD

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

Probe parameters: - S	Sensitivity	Normi, ai0, ai1, ai2
- Conversion factor	ConvFi	
- Diode compression po	pint Dcpi	
Device parameters: - F	requency	f
- Crest factor	cf	
Media parameters: - C	Conductivity	3
- Density	ρ	

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

The first step of the evaluation is a linearization of the filtered input signal to account for the compression characteristics of the detector diode. The compensation depends on the input signal, the diode type and the DC-transmission factor from the diode to the evaluation electronics.

If the exciting field is pulsed, the crest factor of the signal must be known to correctly compensate for peak power. The formula for each channel can be given as:

# $V_i = U_i + U_i^2 \cdot c f / d c p_i$

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

cf = crest factor of exciting field (DASY parameter)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction document. If any. The Company's sole under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such as <u>anther in this tested and such as authorized alteration</u>, forgery or falsification of the content propert <u>accertificate</u>, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sgs.com</u>]



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 20 of 40

dcp i = diode compression point (DASY parameter)

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

E-field probes:

$$E_{i} = (V_{i} / Norm_{i} \cdot ConvF)^{1/2}$$

H-field probes:

#### $H_{i} = (V_{i})^{1/2} \cdot (a_{i0} + a_{i1}f + a_{i2}f^{2})/f$

With Vi = compensated signal of channel i (i = x, y, z)Normi = sensor sensitivity of channel I (i = x, y, z)[mV/(V/m)2] for E-field Probes ConvF = sensitivity enhancement in solution aij = sensor sensitivity factors for H-field probes f = carrier frequency [GHz] Ei = electric field strength of channel i in V/m Hi = magnetic field strength of channel i in A/m

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

### $E_{tot} = (E_x^2 + E_y^2 + E_z^2)^{1/2}$

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

# $SAR = (Etot^2 \cdot \sigma) / (\varepsilon \cdot 1000)$

With SAR = local specific absorption rate in mW/g Etot = total field strength in V/m  $\sigma$ = conductivity in [mho/m] or [Siemens/m]  $\epsilon$ = equivalent tissue density in g/cm3

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

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

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

Etot = total electric field strength in V/m

Htot = total magnetic field strength in A/m



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction document. This document is anot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such as attention; or advised that information contained hereon response to the fullest extent of the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@ags.com</u>] (Nil Witshout, Wildweskon, Swands Itenhogy Ri, Isahan Dishi, Shardan, Guandon, Clima 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn the IPI · 广东 · 深圳市南山区科技团中区III - 10株1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@gs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 21 of 40

# 4 SAR measurement variability and uncertainty

#### 4.1 SAR measurement variability

Per KDB865664 D01 SAR measurement 100 MHz to 6 GHz v01r04, 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. The 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 remounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

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  $\geq$  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  $\geq$ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.

The same procedures should be adapted for measurements according to extremity and occupational exposure limits by applying a factor of 2.5 for extremity exposure and a factor of 5 for occupational exposure to the corresponding SAR thresholds.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company, Any under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company, Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sss.com</u>]

中国・广东・深圳市南山区科技园中区NI-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 22 of 40

#### 4.2 SAR measurement uncertainty

Per KDB865664 D01 SAR Measurement 100 MHz to 6 GHz, 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sps.com</u> [Mk.] (Wnkigh, Mk.] Midsebadh, Simsä lehnbug 74k, Isman District, Simsten, Ginapon, Clima 518057 to (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn** 

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 23 of 40

# 5 Description of Test Position

#### 5.1 The Test Position

Per KDB inquiry, SAR can test the sides near the antenna, the surface of the device should be tested for SAR compliance with device touching the phantom. The SAR Exclusion Threshold in KDB 447498 D04 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent device surface is used to determine if SAR testing is required for the adjacent surfaces, with the adjacent surface positioned against the phantom and the surface containing the antenna positioned perpendicular to the phantom.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. <u>Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com]</u>

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 24 of 40

# 6 SAR System Verification Procedure

## 6.1 Tissue Simulate Liquid

#### 6.1.1 Recipes for Tissue Simulate Liquid

The bellowing tables give the recipes for tissue simulating liquids to be used in different frequency bands:

Ingredients					Frequ (MI	uency Hz)			-	
(% by weight)	450		835		915		1900		2450	
Tissue Type	Head	Body	Head	Body	Head	Body	Head	Body	Head	Body
Water	38.56	51.16	41.45	52.4	41.05	56.0	54.9	40.4	62.7	73.2
Salt (NaCl)	3.95	1.49	1.45	1.4	1.35	0.76	0.18	0.5	0.5	0.04
Sugar	56.32	46.78	56.0	45.0	56.5	41.76	0.0	58.0	0.0	0.0
HEC	0.98	0.52	1.0	1.0	1.0	1.21	0.0	1.0	0.0	0.0
Bactericide	0.19	0.05	0.1	0.1	0.1	0.27	0.0	0.1	0.0	0.0
Triton X-100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	36.8	0.0
DGBE	0.0	0.0	0.0	0.0	0.0	0.0	44.92	0.0	0.0	26.7
Dielectric Constant	43.42	58.0	42.54	56.1	42.0	56.8	39.9	54.0	39.8	52.5
Conductivity (S/m)	0.85	0.83	0.91	0.95	1.0	1.07	1.42	1.45	1.88	1.78
HSL5GHz is compos	ed of the	following	ingredier	nts:						
Water: 50-65%										
Mineral oil: 10-30%										
Emulsifiers: 8-25%										
Sodium salt: 0-1.5%	)									
MSL5GHz is compos	ed of the	following	ingredie	nts:						
Water: 64-78%										
Mineral oil: 11-18%										
Emulsifiers: 9-15%										
Sodium salt: 2-3%										

Table 2: Recipe of Tissue Simulate Liquid



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="https://www.sgs.com/en/Terms-and-Conditions">https://www.sgs.com/en/Terms-and-Conditions</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecued to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@ags.com [N4.1Witkio#.Mi.Middisetin, Simata lething altering #Aitman.Bisting.Gims 518057 to (86-755) 26012053 for (86-755) 26710594 www.sgsgroup.com.cn

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 25 of 40

#### 6.1.2 Test Liquids Confirmation

#### Simulated tissue liquid parameter confirmation

The dielectric parameters were checked prior to assessment using the SPEAG DAK3.5 dielectric probe kit. The dielectric parameters measured are reported in each correspondent section.

#### IEEE SCC-34/SC-2 P1528 recommended tissue dielectric parameters

The head tissue dielectric parameters recommended by the IEEE SCC-34/SC-2 in P1528 have been incorporated in the following table. These head parameters are derived from planar layer models simulating the highest expected SAR for the dielectric properties and tissue thickness variations in a human head. Other head and body tissue parameters that have not been specified in P1528 are derived from the tissue dielectric parameters computed from the 4-Cole-Cole equations and extrapolated according to the head parameters specified in P1528

Target Frequency	Не	ad	Во	dy
(MHz)	٤r	σ (S/m)	٤r	σ (S/m)
150	52.3	0.76	61.9	0.80
300	45.3	0.87	58.2	0.92
450	43.5	0.87	56.7	0.94
835	41.5	0.90	55.2	0.97
900	41.5	0.97	55.0	1.05
915	41.5	0.98	55.0	1.06
1450	40.5	1.20	54.0	1.30
1610	40.3	1.29	53.8	1.40
1800-2000	40.0	1.40	53.3	1.52
2450	39.2	1.80	52.7	1.95
3000	38.5	2.40	52.0	2.73
5800	35.3	5.27	48.2	6.00

( $\varepsilon_r$  = relative permittivity,  $\sigma$  = conductivity and  $\rho$  = 1000 kg/m<sup>3</sup>)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CM.Doccheck@gss.com</u>

018-11 Officient Charles Control Networks Standborg Park, Nanshan District, Shenzhan, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10株1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 26 of 40

#### 6.1.3 Measurement for Tissue Simulate Liquid

The dielectric properties for this Tissue Simulate Liquids were measured by using the SPEAG DAK3.5 dielectric probe kit in conjunction with Network Analyzer (300 KHz-8500 MHz). The Conductivity ( $\sigma$ ) and Permittivity ( $\rho$ ) are listed in bellow table. For the SAR measurement given in this report. The temperature variation of the Tissue Simulate Liquids was 22±2°C.

	Measurement for Tissue Simulate Liquid													
Tissue Type	Measured Frequency (MHz)	Conductivity (σ)	Permittivity (ε <sub>r</sub> )	Conductivity Target (σ)	Permittivity Target (ε <sub>r</sub> )	Delta (σ) (%)	Delta (ε <sub>r</sub> ) (%)	Limit (%)	Liquid Temp. (°C)	Date				
2450 Head	2450	1.84	38.65	1.80	39.20	2.22	-1.40	±5	22.2	2023/8/11				



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN\_Doccheck@ass.com</u>]

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com

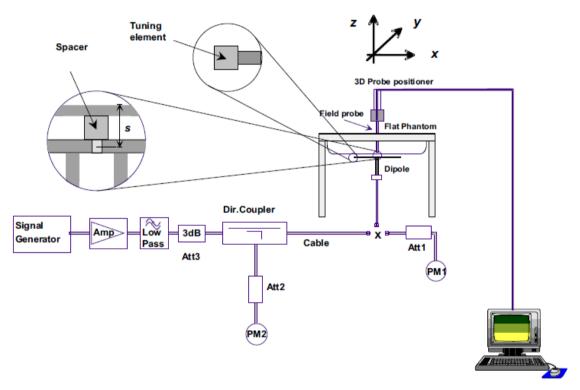


SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 27 of 40

## 6.2 SAR System Check

The microwave circuit arrangement for system check is sketched in bellow figure. The daily system accuracy verification occurs within the flat section of the SAM phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target SAR values. The tests were conducted on the same days as the measurement of the EUT. The obtained results from the system accuracy verification are displayed in the following table. During the tests, the ambient temperature of the laboratory was in the range 22±2°C, the relative humidity was in the range 60% and the liquid depth above the ear reference points was above 15 cm in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



F-3. the microwave circuit arrangement used for SAR system verification



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sus.com</u>]** 

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057

t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 28 of 40

#### 6.2.1 Justification for Extended SAR Dipole Calibrations

1) Referring to KDB865664 D01 requirements for dipole calibration, instead of the typical annual calibration recommended by measurement standards, longer calibration intervals of up to three years may be considered when it is demonstrated that the SAR target, impedance and return loss of a dipole have remain stable according to the following requirements. 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) Return-loss is within 10% of calibrated measurement;

d) Impedance is within  $5\Omega$  from the previous measurement.

2) Network analyzer probe calibration against air, distilled water and a shorting block performed before measuring liquid parameters.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document cannot be reproduced except in full, without prior written approval of the Company. Any under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested au such as <u>any legislations</u> of a sole sole. Attention: To check the <u>authenticity of testing /inspection report & certificate, please contact us at telephone:</u> (86-755) 8307 1443, or <u>email: CN\_Doccheck@ass.com</u>]

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 29 of 40

#### 6.2.2 Summary System Check Result(s)

	SAR System Validation Result(s)											
Validation Kit		Measured Measured SAR SAR 250mW 250mW		Measured SARMeasured SAR(normalized to 1w)(normalized to 1w)		Target SAR (normalized to 1w) (±10%)	Target SAR (normalized to 1w) (±10%)	Liquid Temp. (°C)	Measured Date			
1g (W/kg)		1g (W/kg)	10g (W/kg)	1g (W/kg)	10g (W/kg)	1-g(W/kg)	10-g(W/kg)					
D2450V2	Head	12.87	6.43	51.48 25.72		53.4 (47.70~58.30)	24.9 (22.23~27.17)	22.2	2023/8/11			

#### 6.2.3 Detailed System Check Results

Please see the Appendix A



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such asmple(s) are retained for 30 days only. <u>Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone:</u> (86-755) 8307 1443, or email: <u>CN.Doccheck@ass.com</u>).

中国・广东・深圳市南山区科技园中区NI-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 30 of 40

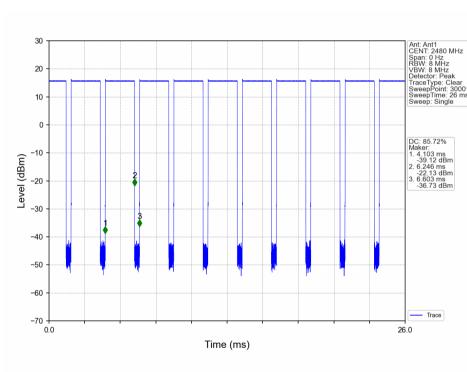
# 7 Test Configuration

## 7.1 Operation Configurations

#### 7.1.1 2.4G SDR Test Configuration

For the SAR tests, a communication link is set up with the test mode software for 2.4G, in the case of 2402~2480 MHz, during the test at each test frequency channel. The EUT is operated at the RF continuous emission mode. Each channel should be tested at the lowest rate. operating modes are tested independently according to the service requirements in each frequency band.

#### 7.1.1.1 Duty cycle



SDR 1M\_HCH\_2480MHz\_Ant1\_NTNV:85.72%

#### 7.1.2 DUT Antenna Locations Please see the Appendix D



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction document. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the aut-their so therwise stated the result shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the aut-their **yof testing /inspection report & certificate, please contact us at telephone:** (86-755) 8307 1443, or email: <u>CN\_Doccheck@sgs.com</u>]



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 31 of 40

# 8 Test Result

#### 8.1 Measurement of SAR Data

#### 8.1.1 Conducted Power

	2.4G SDR_1	Mbps	Average	Tune	Average	Tuno un	
Modulation	Channel	Frequency(MHz)	Conducted Power(dBm)ANT1	up (dBm)	Conducted Power(dBm)ANT2	Tune up (dBm)	
	0	2402	15.84	17	16.14	17	
GFSK	19	2440	16.23	17	16.23	17	
	39	2480	15.87	17	15.66	17	

	2.4G SDR_2	2Mbps	Average	Tune	Average	Tung up	
Modulation	Channel	Frequency(MHz)	Conducted Power(dBm)ANT1	up (dBm)	Conducted Power(dBm)ANT2	Tune up (dBm)	
	0	2402	15.8	17	15.98	17	
GFSK	19	2440	16.2	17	16.16	17	
	39	2480	15.82	17	15.5	17	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the result shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sgs.com</u>]** 

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755)26012053 f (86-755)26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 32 of 40

#### 8.1.2 SAR Result Of SDR

	SDR SAR Test Record												
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	Limit (W/kg) 10-g
	-			Limb	os Test da	ata for Ant	1 (Separa	ate 0mm)	-	-	-		
Side 1	GFSK	19/2440	85.72%	1.17	0.456	0.234	-0.11	16.23	17.00	1.194	0.326	22.0	4.0
Side 2	GFSK	19/2440	85.72%	1.17	0.691	0.347	0.06	16.23	17.00	1.194	0.484	22.0	4.0
Side 3	GFSK	19/2440	85.72%	1.17	1.212	0.654	-0.17	16.23	17.00	1.194	0.911	22.0	4.0
Side 4	GFSK	19/2440	85.72%	1.17	0.796	0.387	0.03	16.23	17.00	1.194	0.539	22.0	4.0
Side 5	GFSK	19/2440	85.72%	1.17	0.094	0.047	0.08	16.23	17.00	1.194	0.065	22.0	4.0
Side 6	GFSK	19/2440	85.72%	1.17	0.682	0.341	-0.09	16.23	17.00	1.194	0.475	22.0	4.0
Side 3	GFSK	0/2402	85.72%	1.17	1.123	0.612	0.04	15.84	17.00	1.306	0.933	22.0	4.0
Side 3	GFSK	39/2480	85.72%	1.17	1.152	0.624	-0.15	15.87	17.00	1.297	0.944	22.0	4.0
Side 3+Earphone	GFSK	0/2402	85.72%	1.17	0.996	0.512	-0.08	15.84	17.00	1.306	0.780	22.0	4.0
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp.	Limit (W/kg) 1-g
					dy Test d		· · ·	ate 0mm)					
Side 1	GFSK	39/2480	85.72%	1.17	0.441	0.223	-0.11	15.87	17.00	1.297	0.668	22.0	1.6
				He	ead Test of	data for A	nt1 (Sepa	rate 10mm)					
Side 5	GFSK	39/2480	85.72%	1.17	0.083	0.041	0.08	15.87	17.00	1.297	0.126	22.0	1.6



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: (X.Doccheck@gss.com)

01 en mark <u>Unit New Mole Sector</u>, Sectore & Technology Park, Nanshan District, Stearghon, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 33 of 40

	SDR SAR Test Record												
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 10-g	Liquid Temp.	Limit (W/kg) 10-g
				Lim	os Test da	ata for Ant	2 (Separa	ate 0mm)					
Side 1	GFSK	19/2440	85.72%	1.17	0.387	0.192	0.08	16.23	17.00	1.194	0.268	22.0	4.0
Side 2	GFSK	19/2440	85.72%	1.17	0.571	0.298	-0.11	16.23	17.00	1.194	0.415	22.0	4.0
Side 3	GFSK	19/2440	85.72%	1.17	0.087	0.041	0.06	16.23	17.00	1.194	0.057	22.0	4.0
Side 4	GFSK	19/2440	85.72%	1.17	0.670	0.324	0.03	16.23	17.00	1.194	0.451	22.0	4.0
Side 5	GFSK	19/2440	85.72%	1.17	1.052	0.584	-0.05	16.23	17.00	1.194	0.814	22.0	4.0
Side 6	GFSK	19/2440	85.72%	1.17	0.563	0.287	-0.14	16.23	17.00	1.194	0.400	22.0	4.0
Side 5	GFSK	0/2402	85.72%	1.17	0.387	0.192	0.08	16.23	17.00	1.194	0.268	22.0	4.0
Side 5	GFSK	39/2480	85.72%	1.17	0.952	0.517	0.07	15.66	17.00	1.361	0.821	22.0	4.0
Side 5+Earphone	GFSK	0/2402	85.72%	1.17	0.941	0.502	-0.10	16.14	17.00	1.219	0.714	22.0	4.0
Test position	Test mode	Test Ch./Freq.	Duty Cycle	Duty Cycle Scaled factor	SAR (W/kg) 1-g	SAR (W/kg) 10-g	Power drift (dB)	Conducted power (dBm)	Tune up Limit (dBm)	Scaled factor	Scaled SAR (W/kg) 1-g	Liquid Temp.	Limit (W/kg) 1-g
				Bo	ody Test d	lata for Ar	it2 (Sepai	rate 0mm)					
Side 1	GFSK	39/2480	85.72%	1.17	0.395	0.196	0.08	15.66	17.00	1.361	0.628	22.0	1.6
				H	ead Test of	data for A	nt2 (Sepa	irate 10mm)					
Side 5	GFSK	39/2480	85.72%	1.17	0.219	0.084	0.07	15.66	17.00	1.361	0.348	22.0	1.6

#### Note:

1) The maximum Scaled SAR value is marked in bold. Graph results refer to Appendix B

The scaled SAR = Measured SAR(W/kg) \* Duty Cycle Scaled factor \* Scaled factor Duty Cycle Scaled factor = 100% Duty Cycle / Measured Duty Cycle 2)

3)

4) If the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg then testing at the other channels is not required for such test configuration(s). When the reported SAR is > 0.8 W/kg, SAR is required for that exposure configuration using the next highest measured output power channel.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com 01 emin. Cr. 2010 emin Cr. 201

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 34 of 40

## 9 Equipment list

Test Platform SPEAG DASY5 Professional						
Location		SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch				
Sc	oftware Reference	DASY52 52.8.4(1052);	SEMCAD X 14.6.8(70	028)		
Hardware Reference						
	Equipment	Manufacturer	Model	Serial Number	Calibration Date	Due date of calibration
$\boxtimes$	PC	DELL	Core(TM)i3-6100 3.7GHz	7LLVLG2	N/A	N/A
$\square$	Signal Generator	Agilent	N5173B	MY53270267	2023/03/21	2024/03/20
	S-Parameter Networ Analyzer	k Agilent	E5071C	MY46527453	2023/03/21	2024/03/20
$\square$	DAK-3.5 probe	SPEAG	DAK-3.5	1102	N/A	N/A
$\square$	Power sensor	KEYSIGHT	U2021XA	MY57110007	2023/03/21	2024/03/20
$\boxtimes$	universal Radio communication teste	r R&S	CMW500	154501	2023/03/20	2024/03/19
$\square$	DAE	SPEAG	DAE4	760	2023/06/26	2024/06/25
$\square$	E-field PROBE	SPEAG	EX3DV4	7380	2023/06/21	2024/06/20
$\square$	Dipole	SPEAG	D2450V2	955	2022/06/06	2025/06/05
$\boxtimes$	Electro Thermomete	r MITIR	N/A	N/A	2023/03/23	2024/04/22
$\square$	Amplifier	Mini-circuits	ZVE-3W-83+	857501833	N/A	N/A
$\square$	Amplifier	Mini-circuits	ZHL-42W	A0950002	N/A	N/A
$\boxtimes$	3db ATTENUATOR	SHX	SMA-3dB-6G	12021302	N/A	N/A
$\square$	DUMMY PROBE	SPEAG	DP_2	SPDP2001AA	N/A	N/A
	Dual Directional Coupler	Agilent	772D	MY46151275	N/A	N/A
	SAM PHANTOM (ELI4 v4.0)	SPEAG	QDOVA001BB	1102	N/A	N/A
$\boxtimes$	ELI V8.0	SPEAG	QDOVA004AA	2062	N/A	N/A
$\boxtimes$	Twin SAM Phantom	SPEAG	QD000P40CD	1673	N/A	N/A
	Twin Phantom	SPEAG	QD000P40CB	1438	N/A	N/A
$\square$	ROBOT KRC	SPEAG	CS8	SP1/D/211/421/00	N/A	N/A
	LIQUID CALIBRATION KIT	ANTENNESSA	41/05 OCP9	00425167	N/A	N/A

Note: All the equipments are within the valid period when the tests are performed.

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of his document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction force versing all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@gs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 35 of 40

## **10** Calibration certificate

Please see the Appendix C

### 11 Photographs

Please see the Appendix D



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN\_Doccheck@ass.com</u>]

中国・广东・深圳市南山区科技园中区M−10栋1号厂房 邮编:518057 t (86-755)26012053 f (86-755)26710594 sgs.china@sgs.com Member of the SGS Group (SGS SA)



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 36 of 40

# **Appendix A: Detailed System Check Results**

The plots are showing as followings.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/an/Terms-and-Conditions</u>, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the result shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>CN.Doccheck@sgs.com</u>]** 

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 37 of 40

Date: 2023/08/11

Test Laboratory: SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

#### System Performance Check-D2450 DUT: Dipole 2450 MHz D2450V2; Type: 955

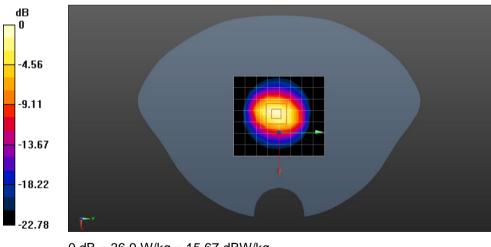
Communication System: UID 0, CW; Frequency: 2450 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.801 S/m;  $\epsilon_r$  = 39.351;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN7380; ConvF(7.50, 7.50, 7.50); Calibrated: 2023/6/21;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2023/6/26
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673
- Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Area Scan (8x9x1): Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 35.1 W/kg

System Performance Check at Frequencies above 1 GHz/d=10mm, Pin=250 mW, dist=2.0mm (EX-Probe)/Zoom Scan (7x7x7) (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 107.51 V/m; Power Drift = -0.12 dB Peak SAR (extrapolated) = 28.3 W/kg SAR(1 g) = 12.87 W/kg; SAR(10 g) = 6.43 W/kg Maximum value of SAR (measured) = 36.9 W/kg



0 dB = 36.9 W/kg = 15.67 dBW/kg



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com/en/Terms-and-Conditions, Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not excente parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or faisification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

 Ne Nitwiski, Mi. Midesekti, Simiski Bendugge, Clima 518057
 t (86-755) 2601203
 f (86-755) 26710594
 www.sgsgroup.com.cn

 Pis - 广东、深圳市南山区科技园中区JH-10格1号厂房 離编: 518057
 t (86-755) 26012053
 f (86-755) 26710594
 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 38 of 40

# **Appendix B: Detailed Test Results**

The plots of worse case are showing as followings.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. <u>Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com]</u>

中国・广东・深圳市南山区科技园中区№-10栋1号厂房 邮编:518057 t (86-755)26012053 f (86-755)26710594 sgs.china@sgs.com



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 39 of 40

Date: 2023/8/11

Test Laboratory: SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

#### SDR GFSK Side5 0mm Ant1 Ch39 DUT: DMR02; Type: DJI MIC 2 Receiver;

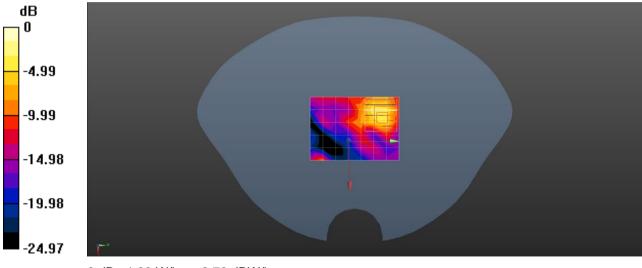
Communication System: BT; Frequency: 2441 MHz;Duty Cycle: 1:1 Medium parameters used: f = 2441 MHz;  $\sigma$  = 1.827 S/m;  $\epsilon_r$  = 39.286;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: EX3DV4 SN7380; ConvF(7.50, 7.50, 7.50); Calibrated: 2023/6/21;
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn760; Calibrated: 2023/6/26
- Phantom: SAM2; Type: QD000P40CD; Serial: TP:1673
- Measurement SW: DASY52, Version 52.8 (4); SEMCAD X Version 14.6.8 (7028)

**Body/Area Scan (5x5x1):** Measurement grid: dx=12mm, dy=12mm Maximum value of SAR (measured) = 2.02 W/kg

Body/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 22.412 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 2.56 W/kg SAR(1 g) = 1.123 W/kg; SAR(10 g) = 0.612 W/kg Maximum value of SAR (measured) = 1.89 W/kg



0 dB =1.89 W/kg = 2.76 dBW/kg



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. **Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or enail: <u>CN.Doccheck@sgs.com</u> Nu/Windws/Mu/Mußes/timaks/time** 



SZSAR-TRF-01 Rev. A/0 May15,2023

Report No.: SZCR230700224003 Page: 40 of 40

**Appendix C: Calibration certificate** 

**Appendix D: Photographs** 

----END----



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <u>https://www.sgs.com/en/Terms-and-Conditions</u>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction form exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only. <u>Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN\_Doccheck@sgs.com]</u>

中国・广东・深圳市南山区科技园中区M-10栋1号厂房 邮编:518057 t(86-755)26012053 f(86-755)26710594 sgs.china@sgs.com