



Report No.: SZEM190501393403 Page: 1 of 7

SAR Evaluation Report

Test Result :	PASS*
Date of Issue:	2019-05-30
Date of Test:	2019-05-20 to 2019-05-24
Date of Receipt:	2019-05-15
	47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Standards:	47 CFR Part 1.1307
FCC ID:	2AG5CSPTWS
♣ Trade mark:	Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical. IHIP, POM, Liangzhisheng
Model No.:	CVS-SPTWS, WLGSPTWS, WMSPTWS, FDSPTWS, Pns-AB-1-9, P2g-SP1- 40, bb-100-199, LS-i8X 🔹
EUT Name:	SoundPods True Wireless
Equipment Under Test (EUT	
Address of Factory:	1-3 floor, No. 10, quanwei, xikeng Community, henggang, longgang District, Shenzhen, China
Factory:	Shenzhen Xinglong new plastic products limited company
Address of Manufacturer:	1-3 floor, No. 10, quanwei, xikeng Community, henggang, longgang District, Shenzhen, China
Manufacturer:	Shenzhen Xinglong new plastic products limited company
Address of Applicant:	1-3 floor, No. 10, quanwei, xikeng Community, henggang, longgang District, Shenzhen, China
Applicant:	Shenzhen Xinglong new plastic products limited company
Application No.:	SZEM1905013934CR

In the configuration tested, the EUT complied with the standards specified above.

Keny. Xu

Keny Xu EMC Laboratory Manager



	Unless otherwise agreed in writing, this document is issued overleaf, available on request or accessible at http://www.sgs. subject to Terms and Conditions for Electronic Documents al Attention is drawn to the limitation of liability, indemnification advised that information contained hereon reflects the Compr Client's instructions, if any. The Company's sole responsibili transaction from exercising all their rights and obligations un except in full, without prior written approval of the Company appearance of this document is unlawful and offenders may be results shown in this test report refer only to the sample(s) test Attention. To check the authenticity of testing /inspection	com/en/Terr http://www and jurisdi any's finding ity is to its nder the tra Any unau e prosecute of and such	ms-and-Conditions .sgs.com/en/Terms- ction issues define gs at the time of its Client and this do insaction documen thorized alteration, d to the fullest exte sample(s) are retai	aspx and, for electroni and-Conditions/Termi intervention only and cument does not exc is. This document ca forgery or falsification nt of the law. Unlesso ned for 30 days only.	c format documents, <u>s-e-Document aspx</u> . of this document is d within the limits of onerate parties to a not be reproduced on of the content or otherwise stated the
	or email: CN.Doccheck@sgs.com				
d.	No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China	518057	t (86-755) 26012053	f (86-755) 26710594	www.sgsgroup.com.cn
	中国・深圳・科技园中区M-10栋一号厂房 邮编	518057	t (86-755) 26012053	f (86-755) 26710594	sgs.china@sgs.com



Report No.: SZEM190501393403 Page: 2 of 7

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-05-30		Original

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	Evic Fu	
	Eric Fu /Reviewer	



中国 · 深圳 · 科技园中区M-10栋一号厂房

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>http://www.sgs.com/en/Terms-and-Conditions.aspx</u> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <u>http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</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 unauthorized alteration, forgery or falsification of the content or appearance of this document is sunlawful 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.

邮编: 518057 t (86-755) 26012053 f (86-755) 26710594

Member of the SGS Group (SGS SA)

sgs.china@sgs.com



Report No.: SZEM190501393403 Page: 3 of 7

3 Contents

Page

1	cov	ER PAGE	1
2	VER	SION	2
3		ITENTS	
4	GEN	IERAL INFORMATION	4
	4.1	GENERAL DESCRIPTION OF EUT	4
	4.2	TEST LOCATION	5
	4.3	TEST FACILITY	
	4.4	DEVIATION FROM STANDARDS	6
	4.5	ABNORMALITIES FROM STANDARD CONDITIONS	
	4.6	OTHER INFORMATION REQUESTED BY THE CUSTOMER	6
5	SAR	EVALUATION	
!	5.1	RF EXPOSURE COMPLIANCE REQUIREMENT	7
	5.1.1		
	5.1.2		
	5.1.3	3 EUT RF Exposure	7



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. 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 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. 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>

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 ·深圳 ·科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



Report No.: SZEM190501393403 Page: 4 of 7

4 General Information

4.1 General Description of EUT

Power supply:	Left ear: Li-ion rechargeable battery DC 3.7V Right ear: Li-ion rechargeable battery DC 3.7V Charging box: Rechargeable battery DC 3.7V (Charged by USB)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Classic
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	CHIP Antenna
Antenna Gain:	-0.68dBi

Declaration of EUT Family Grouping:

Model No.: CVS-SPTWS, WLGSPTWS, WMSPTWS, FDSPTWS, Pns-AB-1-9, P2g-SP1-40, bb-100-199, LS-i8X

Only the model CVS-SPTWS was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on model name.



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. 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 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 on). Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@asp.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



Report No.: SZEM190501393403 Page: 5 of 7

4.2 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, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

4.3 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

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

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. 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: CN1178

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

Designation Number: CN1178. Test Firm Registration Number: 406779.

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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. 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 is entervent 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 authenticity of testing linspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: <u>Ch.Doccheck@sgs.com</u> 10x10/rtshow.Mtol. Midde Section.Science & Technology Park.Shenzhen.China 518057 tf (86-755) 26012053 ff (86-755) 26710594 www.sgsgroup.com.cn

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 中国 •深圳 • 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594



Report No.: SZEM190501393403 Page: 6 of 7

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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 http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-end-Conditions/T

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgsgroup.com.cn 中国 •深圳 • 科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.com



Report No.: SZEM190501393403 Page: 7 of 7

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

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

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] \leq 3.0 for 1-g SAR and \leq 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

The Max. power (including tune-up toleranc 0.72 dBm on the lowest channe 2.402 GHz (*) 0.72 dBm logarithmic terms convert to numeric result is nearly 1.18 mW According to the formula. calculate the test exclusion thresholds:

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

General RF Exposure = $(1.18 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.37$	(1)
SAR requirement:	
<i>S</i> = <i>3</i> . <i>0</i>	(2)
(1) < (2)	

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM190501393402

- End of the Report -



	Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Servi overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format d subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Docur Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this dc advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the	ocuments, nent.aspx. ocument is ne limits of
	Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate pr transaction from exercising all their rights and obligations under the transaction documents. This document cannot be r except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise results shown in this test report refer only to the sample(s) lested and such sample(s) are retained for 30 days only.	eproduced content or stated the
	Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) or email: CN.Doccheck@sgs.com	83071443,
"Ltd.	td. No.1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, China 518057 t (86–755) 26012053 f (86–755) 26710594 www.sgsg	roup.com.cn
ry.	中国・深圳・科技园中区M-10栋一号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china	@sgs.com