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RF Exposure Evaluation Report

Product Bluetooth Module

SKG Trade mark

Model/Type reference : SKGBLEHD01

Serial Number N/A

Report Number EED32O81362702

FCC ID 2AYVT-SKGBLEHD01

Date of Issue Nov. 29, 2022

47 CFR Part 1.1307 **Test Standards**

47 CFR Part 1.1310 47 CFR Part 2.1091 47 CFR Part 2.1093

447498 D04 Interim General RF

Exposure Guidance v01

Test result **PASS**

Prepared for:

SKG Health Technologies Co., Ltd.

23A Floor, Building 3, Zhongke R&D Park, No.009, Gaoxin South 1st Road, High-tech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

Prepared by:

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Nov. 29, 2022

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Report Seal









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2 Version

Version No.	Date	Description	
00	Nov. 29, 2022	Original	
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4 General Information

4.1 Client Information

Applicant:	SKG Health Technologies Co., Ltd.				
Address of Applicant:	23A Floor,Building 3, Zhongke R&D Park, No.009,Gaoxin South 1st Road, Hightech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China				
Manufacturer:	SKG Health Technologies Co., Ltd.				
Address of Manufacturer:	23A Floor, Building 3, Zhongke R&D Park, No.009,Gaoxin South 1st Road, Hightech Zone Community,Yuehai street, Nanshan District,Shenzhen City, Guangdong Province, P.R.China				

4.2 General Description of EUT

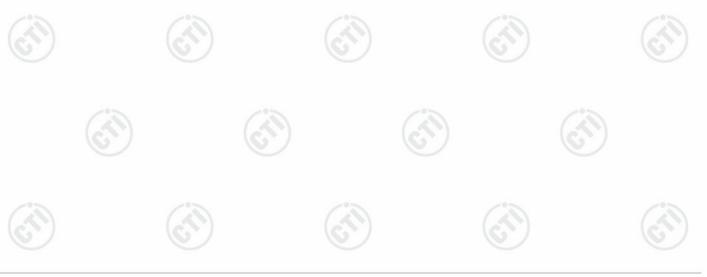
Product Name:		Bluetooth Module	Э		
Model No.(EUT):		SKGBLEHD01			
Trade Mark:	(6.	SKG	(2.73)	(2,7)	(5,5)

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	GFSK
Test Power Grade:	Default
Test Software of EUT:	DTM.exe (manufacturer declare)
Antenna Type:	Ceramic Antenna
Antenna Gain:	2.64 dBi
Power Supply:	DC 3.3V
Sample Received Date:	Sep. 21, 2022
Sample tested Date:	Sep. 21, 2022 to Oct. 14, 2022

Remark

Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.







4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted. FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer





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5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

The SAR-based exemption formula of § 1.1307(b)(3)(i)(B), repeated here as Formula (B.2), applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power or effective radiated power (ERP), whichever is greater, of less than or equal to the threshold Pth (mW).

This method shall only be used at separation distances from 0.5 cm to 40 cm and at frequencies from 0.3 GHz to 6 GHz (inclusive). Pth is given by Formula

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

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\mathrm{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and ERP20cm is per Formula (B.1).

$$P_{\text{th}} (\text{mW}) = ERP_{20 \text{ cm}} (\text{mW}) = \begin{cases} 2040f & 0.3 \text{ GHz} \le f < 1.5 \text{ GHz} \\ \\ 3060 & 1.5 \text{ GHz} \le f \le 6 \text{ GHz} \end{cases}$$
(B. 1)

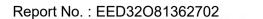
The 1 mW Blanket Exemption of § 1.1307(b)(3)(i)(A) applies for single fixed, mobile, and portable RF sources with available maximum time-averaged power of no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.









5.1.3 EUT RF Exposure Evaluation

For Stand alone:

For BLE

Frequency (MHz)	Max. Conducted Output power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Limit (mW)	Result
2402	2.35	2.64	4.99	2.84	1.923	2.788	PASS

Note:

- ①EIRP=conducted power+antenna gain;
- ②ERP=EIRP-2.15
- 3)Only the worst case data was recorded in the report.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.

End of Report ***











