

RF Exposure Evaluation Report

Product : Smart Watch
Trade mark : SKG
Model/Type reference : S1621HB
Serial Number : N/A
Report Number : EED32O81521003
FCC ID : 2AYVT-S1621HB
Date of Issue : Nov. 17, 2022
Test Standards : 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF
Exposure Guidance v06
Test result : PASS

Prepared for:

SKG Health Technologies Co., Ltd.
**23A Floor, Building 3, Zhongke R&D Park, No.009, Gaoxin South 1st
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2 Version

Version No.	Date	Description
00	Nov. 17, 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, High-tech 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, High-tech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R. China

4.2 General Description of EUT

Product Name:	Smart Watch
Model No.(EUT):	S1621HB
Trade Mark:	SKG

4.3 Product Specification subjective to this standard

Frequency Range:	2402MHz~2480MHz
Modulation Type:	BLE:GFSK, BT:GFSK, π /4DQPSK, 8DPSK
Test Power Grade:	Default
Test Software of EUT:	MainWindow
Antenna Type:	FPC Antenna
Antenna Gain:	-0.61dBi
Power Supply:	Lithium battery:DC 3.8V,300mAh,1.140Wh,Charge by DC 5V
Max Conducted Peak Output Power:	BLE:-0.07dBm, BT:1.15dBm The Max Conducted Peak Output Power data refer to the report EED32O81521001 and EED32O81521002.
Sample Received Date:	Sep. 30, 2022
Sample tested Date:	Sep. 30, 2022 to Oct. 15, 2022
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. Remark:The report has two different colors for the watchband and case.	

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

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06
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 ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

$f(\text{GHz})$ 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 ≤ 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

1) For Bluetooth LE

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.07	-0.5±0.5	0	1
Middle(2440MHz)	-0.58	-0.5±0.5	0	1
Highest(2480MHz)	-1.55	-1.5±0.5	-1	0.794

2) For Bluetooth Classic

Measurement Data:

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.15	1±1	2	1.585
Middle(2441MHz)	0.86	0±1	1	1.259
Highest(2480MHz)	0.86	0±1	1	1.259

$\pi/4$ DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.03	1±1	2	1.585
Middle(2441MHz)	0.8	0±1	1	1.259
Highest(2480MHz)	0.22	0±1	1	1.259

8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.02	1±1	2	1.585
Middle(2441MHz)	0.78	0±1	1	1.259
Highest(2480MHz)	0.17	0±1	1	1.259

Worst case is Bluetooth Classic: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	1.15	1±1	2	1.585	0.499	3.0
Middle (2441MHz)	0.86	0±1	1	1.259	0.379	
Highest (2480MHz)	0.86	0±1	1	1.259	0.379	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: EED32O81521002.

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 ***