

TEST REPORT

Product Name : Bluetooth Converter
Brand Mark : N/A
Model No. : SR-BL2421-SVVT
FCC ID : 2AHST-XX2421
Report Number : BLA-EMC-202209-A3603
Date of Sample Receipt : 2022/9/16
Date of Test : 2022/9/19 to 2022/9/28
Date of Issue : 2022/9/28
Product Name : Bluetooth Converter
Test Standard : 47 CFR Part 15, Part1.1307
47 CFR Part 15, Part2.1093
KDB447498 D01 General RF Exposure Guidance v06
Test Result : Pass

Extension Model:

SR-BL2421-SVVT, ALBV 20A UNV, ALBV 5A UNV, CO-BA-1, CO-BA-2, CO-BD-1, C-T20-17-DJ00, DR-BV-1, SR-BL1029-SVT, SR-BL2421-SVD, SR-BL2421-SVV, SRPF-SV9105-50CCT, SR-SBP2801K4-BLE(US), SR-SBP2801K4-BLE(US)-E, SR-SBP2801K4-BLE, SR-SBP2801K4-BLE-E, SR-SV2835PAC-V(US), SW-2A-1, SW-4B-1, SW-4H-1, WLC/BT-PWPK-20A-UNV-10A-A, WLC/BT-PWPK-5A-UNV-10A-A, SR-XX2421-YYY, SR-XXX280YYY-ZZZZZ, SR-XX28YYYYY-ZZZ “X”, “Y”, “Z” indicates the customer code for market purpose, it could be alphanumeric characters or blank.



Prepared for:

Shenzhen Sunricher Technology Limited
3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third road, No.72
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Date: 2022/9/28



REPORT REVISE RECORD

Version No.	Date	Description
00	2022/9/28	Original

BlueAsia

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

2 GENERAL INFORMATION

Applicant	Shenzhen Sunricher Technology Limited
Address	3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third road, No.72 area, Xin'an Street, Baoan District, Shenzhen, China
Manufacturer	Shenzhen Sunricher Technology Limited
Address	3rd Floor, B building, Jia'an Industrial Building, Liu Xian Third road, No.72 area, Xin'an Street, Baoan District, Shenzhen, China
Product Name	Bluetooth Converter
Test Model No.	SR-BL2421-SVVT

3 GENERAL DESCRIPTION OF E.U.T.

Hardware Version	V1.2
Software Version	V1.2
Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Channel Spacing:	2MHz
Data Rate	1Mbps;2Mbps
Number of Channels:	40
Antenna Type:	Outlay Antenna
Antenna Gain:	0dBi

4 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,
China
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No tests were sub-contracted.

5 RF EXPOSURE COMPLIANCE REQUIREMENT

SAR evaluation

MPE Calculation Method

$$E \text{ (V/m)} = (30 \cdot P \cdot G)^{0.5} / d$$

$$\text{Power Density: } P_d \text{ (W/m}^2\text{)} = E^2 / 377$$

E = Electric Field (V/m)

P = Peak RF output Power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$P_d = (30 \cdot P \cdot G) / (377 \cdot d^2)$$

From the peak EUT RF output power, the minimum mobile separation distance, $d=0.2\text{m}$, as well as the gain of the used antenna, the RF power density can be obtained.

Directional Antenna Gain (Numeric)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1mW (0dBi)	0.813mW (-0.9dBm)	0.00016	1	Complies

----END OF REPORT----

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