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Report No.: BTEK231124008AE002 FCC ID: 2AATP-TP902

## **RF Exposure Evaluation Report**

Application No.:	BTEK231124008AE				
Applicant:	SHENZHEN ECARE ELECTRONICS CO., LTD				
Address of Applicant:	B201/B401/B501/B601, Hua Li Industrial Building, 404 Yu An Road, Bao An, Shenzhen, Guang Dong, China				
Manufacturer:	SHENZHEN ECARE ELECTRONICS CO., LTD				
Address of Manufacturer:	B201/B401/B501/B601, Hua Li Industrial Building, 404 Yu An Road, Bao An, Shenzhen, Guang Dong, China				
Factory:	SHENZHEN ECARE ELECTRONICS CO., LTD				
Address of Factory:	B201/B401/B501/B601, Hua Li Industrial Building, 404 Yu An Road, Bao An, Shenzhen, Guang Dong, China				
Equipment Under Test (EUT)					
EUT Name:	Bluetooth module				
Model No.:	TP901, TP901W, I01, TP902, TP902W, I02, P900, P900W, TP903, TP903W, I03, TP904, TP904W, I04				
	Please refer to section 3 of this report which indicates which model was actually tested and which were electrically identical.				
Trade Mark:	N/A				
Standard(s) :	47 CFR Part 2 Subpart J Section 2.1093				
Date of Receipt:	2023-11-24				
Date of Test:	2023-11-24 to 2023-12-08				
Date of Issue:	2023-12-08				
Test Result:	Pass*				

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

Damon Su

Damon Su EMC Laboratory Manager





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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-08		Original
[				

Authorized for issue by:	8° (II	1. 182	<u></u>
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## **3** General Information

#### 3.1 Details of E.U.T.

	Power supply:	DC 3.3V
	For BLE ANT 1:	
~	Operation Frequency:	2402MHz to 2480MHz
	Modulation Type:	GFSK
	Channel Spacing:	2MHz
8	Date Rate:	1Mbps
	Number of Channels:	40
	Antenna Type:	PIFA Antenna
	Antenna Gain:	3 dBi
	Hardware Version	N/A
	Software and Firmware Version	N/A
	Sample No.:	BTEK231124008AE-01
	For BLE ANT 2:	
0	Operation Frequency:	2402MHz to 2480MHz
	Modulation Type:	GFSK
2	Channel Spacing:	2MHz
	Date Rate:	1Mbps
	Number of Channels:	40
	Antenna Type:	PIFA Antenna
	Antenna Gain:	3 dBi
	Hardware Version	N/A
	Software and Firmware Version	N/A O
	Sample No.:	BTEK231124008AE-01

Remark: The information in this section is provided by the applicant or manufacturer, BANTEK is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Model No.: TP901, TP901W, I01, TP902, TP902W, I02, P900, P900W, TP903, TP903W, I03, TP904, TP904W, I04.

The module is same, and the only different is antenna

The model number of ANT1 is TP901, TP901W, I01, TP902, TP902W, I02, P900, P900W ANT2 is TP903, TP903W, I03, TP904, TP904W, I04.

#### 3.2 Description of Support Units

The EUT has been tested as an independent unit.





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#### 3.3 Test Location

All tests were performed at: Shenzhen BANTEK Testing Co., Ltd. A5&A6, Building B1&B2, No.45 Gangtou Road, Bogang Community, Shajing Street, Bao'an District, Shenzhen, Guangdong, China 518104 Tel:0755-2334 4200 Fax: 0755-2334 4200 FCC Registration Number: 264293 Designation Number: CN1356 No tests were sub-contracted.

# 3.4 Deviation from Standards None

#### 3.5 Abnormalities from Standard Conditions None











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### 4 Test Requirement

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] • [  $\checkmark$  f(GHz)]  $\leqslant$  3.0

Where

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

-Power and distance are rounded to the nearest mW and mm before calculation

-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 according to 4.1 f) is applied to determine SAR test exclusion.

#### 4.1 Test Data and Test Result

Туре	Frequency (MHz)	Conducted Power (dBm)	Maximum Tune-up (dBm)	Calculating data	Limit	Result
BLE	2440	-0.86	0	0.312	3.0	Pass

Note: The exposure evaluation safety distance is 5mm.

## 5 EUT Constructional Details

Refer to Appendix - External and Internal Appendix EUT Photos.

