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RF Exposure Evaluation Report

Report No.:	CQASZ20220300468E-02
Applicant:	Shenzhen Inateck Technology Co., Ltd.
Address of Applicant:	Rm. 2507, Bldg. 11, TianAn Cloud Park, Bantian Street, Longgang District, Shenzhen

Equipment Under Test (EUT):

EUT Name:	Wireless adapter
Model No.:	ACC-BCST 60-Adapter
Test Model No.:	ACC-BCST 60-Adapter
Brand Name:	Inateck
FCC ID:	2A2T9-ACCB60
Standards:	47 CFR Part 1.1307 47 CFR Part 1.1310 447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt:	2022-03-29
Date of Test:	2022-03-29 to 2022-04-26
Date of Issue:	2022-05-31
Test Result:	**PASS***

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

Tested By: _____

(*Lewis Zhou*)

Reviewed By: _____

(*K Liao*)

Approved By: _____

(*Jack Ai*)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220300468E-02	Rev.01	Initial report	2022-05-31

2   Contents

3 General Information

3.1 Client Information

Applicant:	Shenzhen Inateck Technology Co., Ltd.
Address of Applicant:	Rm. 2507, Bldg. 11, TianAn Cloud Park, Bantian Street, Longgang District, Shenzhen
Manufacturer:	Shenzhen Lixin Technology Co., Ltd.
Address of Manufacturer:	Tongyi Industrial Park, No. 351, Jihua Road, Longgang District, Shenzhen, China
Factory:	Shenzhen Lixin Technology Co., Ltd.
Address of Factory:	Tongyi Industrial Park, No. 351, Jihua Road, Longgang District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Wireless adapter
Model No.:	ACC-BCST 60-Adapter
Test Model No.:	ACC-BCST 60-Adapter
Trade Mark:	Inateck
Software Version:	V2.7
Hardware Version:	V2.0
EUT Power Supply:	Power by computer

3.3 General Description of BT Classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	Bluetooth Spec 5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☐ Mobile ☐ Portable ☒ Fix Location
Antenna Type:	PCB antenna
Antenna Gain:	-5dBi
Cable loss:	1.0 dB

Note：

The above parameters will directly affect the test results. The information is provided by the applicant.

4 MPE Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

The table applies to any RF source (i.e., single fixed, mobile, and portable transmitters) and specifies power and distance criteria for each of the five frequency ranges used for the MPE limits. These criteria apply at separation distances from any part of the radiating structure of at least $\lambda/2\pi$. The thresholds are based on the general population MPE limits with a single perfect reflection, outside of the reactive near-field, and in the main beam of the radiator.For mobile devices that are not exempt per Table B.1 [Table 1 of § 1.1307(b)(1)(i)(C)] at distances from 20 cm to 40 cm and in 0.3 GHz to 6 GHz, evaluation of compliance with the exposure limits in § 1.1310 is necessary if the ERP of the device is greater than ERP20cm inFormula (B.1) [repeated from § 2.1091(c)(1) and § 1.1307(b)(1)(i)(B)].

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

If the ERP is not easily obtained, then the available maximum time-averaged power may be used (i.e., without consideration of ERP only if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave Dipole.

SAR-based exemptions are constant at separation distances between 20 cm and 40 cm to avoid discontinuities in the threshold when transitioning between SAR-based and MPE-based exemption criteria at 40 cm, considering the importance of reflections.

4.1.2 Test Procedure

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

4.1.3 EUT RF Exposure

1) For BT Classic

Output Power Into Antenna & RF Exposure Evaluation Distance:

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.09	2.0±1	3.0	1.995
Middle(2441MHz)	1.98	2.0±1	3.0	1.995
Highest(2480MHz)	1.89	2.0±1	3.0	1.995
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.87	2.0±1	3.0	1.995
Middle(2441MHz)	1.75	1.5±1	2.5	1.778
Highest(2480MHz)	1.86	2.0±1	3.0	1.995
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	1.9	2.0±1	3.0	1.995
Middle(2441MHz)	1.97	2.0±1	3.0	1.995
Highest(2480MHz)	1.76	1.5±1	2.5	1.778

The maximum output power of this product is less than 3060mW

Note: 1) Refer to report No. CQASZ20220300468E-01 for EUT test Max Conducted Peak Output Power value.

2) EUT's Bluetooth module is more than 20cm away from the human body.

*** END OF REPORT ***