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RF Exposure Evaluation Report

Report No. : CQASZ20191001014E-02
Applicant: Shenzhen Times Innovation Technology Co., Ltd
Address of Applicant: Room 3, 6/F, Building 3, WINLEAD, Fada Road, Bantian Street, Longgang District, Shenzhen, China.
Equipment Under Test (EUT):
EUT Name: Baseus Intelligent T2 rope type
Mode No.: ZLFDQT2-02, ZLFDQT2-03, ZLFDQT2-04
Test Mode No.: ZLFDQT2-02
Brand Name: Baseus
FCC ID: 2AN7Y-ZLFDQT2
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2019-10-09
Date of Test: 2019-10-09 to 2019-10-18
Date of Issue: 2019-10-18
Test Result : PASS*

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

Tested By:

Tom Chen.

(Tom chen)

Reviewed By:

Sheek, Luo

(Sheek Luo)

Approved By:

Jack Ai

(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20191001014E-02	Rev.01	Initial report	2019-10-18

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3 General Information

3.1 Client Information

Applicant:	Shenzhen Times Innovation Technology Co., Ltd
Address of Applicant:	Room 3, 6/F, Building 3, WINLEAD, Fada Road, Bantian Street, Longgang District, Shenzhen, China.
Manufacturer:	Shenzhen Juku Intelligent Technology Co;Ltd.
Address of Manufacturer:	Jinyu yunchuang 303-306, No.12 Huancheng south Road, Bantian Street, Longgang District, Shenzhen, China

3.2 General Description of EUT

Product Name:	Baseus Intelligent T2 rope type
Model No.:	ZLFDQT2-02, ZLFDQT2-03, ZLFDQT2-04
Test Model No.:	ZLFDQT2-02
Trade Mark:	Baseus
Hardware Version:	V1.0
Software Version:	V1.0.5
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Product Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	RF Test (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
EUT Power Supply:	button battery: 3.0V

Note:

Model No.: ZLFDQT2-02, ZLFDQT2-03, ZLFDQT2-04

Only the model ZLFDQT2-02 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance.

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. 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.

4.1.2 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:

$$\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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

4.1.3 EUT RF Exposure

For BLE

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-4.23	-5.0±1	-4.0	0.398
Middle(2440MHz)	-4.68	-5.5±1	-4.5	0.355
Highest(2480MHz)	-4.3	-5.0±1	-4.0	0.398

Worst case: GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune- up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-4.23	-5.0±1	-4.0	0.398	0.123	3.0
Middle (2440MHz)	-4.68	-5.5±1	-4.5	0.355	0.111	
Highest (2480MHz)	-4.3	-5.0±1	-4.0	0.398	0.125	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20191001014E-01.