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RF Exposure Evaluation Report

Report No.:	CQASZ2020080811E-02
Applicant:	Shenzhen Ginto E-Commerce Co., Limited.
Address of Applicant:	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Equipment Under Test (EUT):	
EUT Name:	Bluetooth Headset
Model No.:	DUDIOS T8, T16, M3, S5, S6, N6, D8, D16
Test Model No.:	DUDIOS T8
Brand Name:	DUDIOS
FCC ID:	2AONGDD003
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Receipt:	2020-08-06
Date of Test:	2020-08-06 to 2020-08-13
Date of Issue:	2020-08-18
Test Result:	**PASS***

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

Tested By: Tiny You

(Tiny You)

Reviewed By: Sheek Luo

(Sheek Luo)

Approved By:

(Jack Ai)

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20200800811E-02	Rev.01	Initial report	2020-08-18

2 Contents

3 General Information

3.1 Client Information

Applicant:	Shenzhen Ginto E-Commerce Co., Limited.
Address of Applicant:	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Manufacturer:	Shenzhen Ginto E-Commerce Co., Limited.
Address of Manufacturer:	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China
Factory:	Shenzhen Ginto E-Commerce Co., Limited.
Address of Factory:	Room 1308-1309, Building B, Huihai Square, Chuangye Road, Longhua District, Shenzhen, Guangdong, China

3.2 General Description of EUT

Product Name:	Bluetooth Headset
Model No.:	DUDIOS T8, T16, M3, S5, S6, N6, D8, D16
Test Model No.:	DUDIOS T8
Trade Mark:	DUDIOS
Hardware Version:	V2.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	FCC_assist (manufacturer declare)
Antenna Type:	Internal Antenna
Antenna Gain:	1.4dBi
Power Supply:	lithium battery:DC3.7V 500mAh, Charge by DC5.0V

Note:
Model No.: DUDIOS T8, T16, M3, S5, S6, N6, D8, D16
Only the model DUDIOS T8 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, pack and model name.

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation[17]
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

Measurement Data

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-7.270	-8.0±1	-7.0	0.200
Middle(2441MHz)	-6.130	-7.0±1	-6.0	0.251
Highest(2480MHz)	-5.770	-6.5±1	-5.5	0.282
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-6.530	-7.0±1	-6.0	0.251
Middle(2441MHz)	-5.410	-6.0±1	-5.0	0.316
Highest(2480MHz)	-5.030	-6.0±1	-5.0	0.316

Worst case: π/4DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-6.530	-7.0±1	-6.0	0.251	0.078	3.0
Middle (2441MHz)	-5.410	-6.0±1	-5.0	0.316	0.099	
Highest (2480MHz)	-5.030	-6.0±1	-5.0	0.316	0.100	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20200800811E-01