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TEST REPORT

Report No. : CQASZ20250100115E-02
Applicant: Shenzhen Jiayouda Electronics Co.,Ltd
Address of Applicant: 711, Building C, Langkou Baoke Industrial Zone, Longhua District, Shenzhen City, China
Equipment Under Test (EUT):
EUT Name: HELMET HEADSET
Model No.: BT56
Test Model No.: BT56
Brand Name: N/A
FCC ID: 2BFL4-BT56
Standards: 47 CFR Part 1.1307
47 CFR Part 1.1310
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2025-01-15
Date of Test: 2025-01-15 to 2025-03-13
Date of Issue: 2025-03-19
Test Result : PASS

Tested By:

Lewis Zhou

(Lewis Zhou)

Reviewed By:

Timo Lei

(Timo Lei)

Approved By:

Jack Ai

(Jack Ai)



The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1. Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20250100115E-02	Rev.01	Initial report	2025-03-19

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3. General Information

4. Client Information

Applicant:	Shenzhen Jiayouda Electronics Co.,Ltd
Address of Applicant:	711, Building C, Langkou Baoke Industrial Zone, Longhua District,Shenzhen City, China
Manufacturer:	Shenzhen Jiayouda Electronics Co.,Ltd
Address of Manufacturer:	711, Building C, Langkou Baoke Industrial Zone, Longhua District,Shenzhen City, China
Factory:	Shenzhen Jiayouda Electronics Co.,Ltd
Address of Factory:	711, Building C, Langkou Baoke Industrial Zone, Longhua District,Shenzhen City, China

5. General Description of EUT

1#

Product Name:	HELMET HEADSET
Model No.:	BT56
Test Model No.:	BT56
Trade Mark:	N/A
Software Version:	sdk_ab563x_v01x_s14685_20240323
Hardware Version:	SSTA28S_V01
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	Chip antenna
Antenna Gain:	2.7dBi
Product Type:	☐ Mobile ☒ Portable
Power Supply:	Li-ion battery: DC 3.7V 500mAh, Charge by DC 5V for adapter

RF Exposure Evaluation

RF Exposure Compliance Requirement

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.

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:

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

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

EUT RF Exposure

1) For BT(A3 SDaC1600Bx0g0922437)

Measurement Data

Worst case: 8DPSK				
Test Channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	-0.70	0±1	1	1.26
Middle(2441MHz)	-0.17	-0.5±1	0.5	1.12
Highest(2480MHz)	0.64	0.5±1	1.5	1.41

Worst case: 8DPSK			
Channel	Maximum tuneup Power (mW)	Calculated value	Exclusion threshold
Lowest (2402MHz)	1.26	0.310	3.0
Middle (2441MHz)	1.12	0.312	
Highest (2480MHz)	1.41	0.445	
Conclusion: the calculated value ≤3.0, SAR is exempted.			

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20250100115E-01