



SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

EMC-TRF-03 Rev 1.1

Report No.: GZCR240400035906

Page: 1 of 8

FCC ID: R3UDSBT5

RF EXPOSURE EVALUATION REPORT

Application No.: GZCR2404000359AT
Applicant: DSEA A/S
Address of Applicant: Kongebakken 9, DK-2765 Smørum, Denmark
Manufacturer: DSEA A/S
Address of Manufacturer: Kongebakken 9, DK-2765 Smørum, Denmark
Factory: Minami Acoustics Limited
Address of Factory: No. 13, Maonan Road, Torch Development District, Zhongshan, Guangdong, China
Product Name: ADAPT E1 earbuds
Model No.: DSBT5
Trade Mark: EPOS
Standard(s) : KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2024-04-17
Date of Evaluation: 2024-05-09 to 2024-05-09
Date of Issue: 2024-05-11

Evaluation Result:

Pass*

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

Ricky Liu

Ricky Liu
Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center EEC Laboratory

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SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Revision Record			
Version	Report No.	Date	Remark
01	GZCR240400035906	2024-05-11	Original

Authorized for issue by:			
		Jim Li	
		Jim Li/Project Engineer	
		Vico Cui	
		Vico Cui/Reviewer	



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2 Evaluation Summary

Item	Standard	Method	Requirement	Result
RF Exposure	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	KDB447498D01 General RF Exposure Guidance v06	Pass

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.

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4 General Information

4.1 Details of E.U.T.

Power supply: Powered by built-in battery as below for normal working:
Model: 24015
Powered by charging case for charging

Cable(s): DC input pins*2

RF Characterize: Please refer to GZCR240400035903 for BLE details
Please refer to GZCR240400035904 for BT Classic details

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

4.2 Evaluating Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou,
Guangdong, China 510663

Tel: +86 20 82155555

No tests were sub-contracted.



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4.3 Facility

The facility is recognized, certified, or accredited by the following organizations:

- **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

- **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

- **ISED (Registration No.: 4620B, CAB identifier: CN0052)**

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

- **VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)**

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

- **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.

4.4 Deviation from Standards

None

4.5 Abnormalities from Standard Conditions

None



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5 Technical Requirements Specification

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

KDB447498D01 General RF Exposure Guidance v06

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

5.1.2 Conclusion

For Right Earbud

The Maximum Conducted Peak Output Power is 4.81 dBm in channel 2.480 GHz;
 4.81 dBm logarithmic terms convert to numeric result is nearly 3.027 mW
 $\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$
 General RF Exposure = $\left(\frac{3.027 \text{ mW}}{5 \text{ mm}} \right) \times \sqrt{2.480 \text{ GHz}} = 0.953$;
 SAR requirement: $S = 3.0$;

∵ $0.953 < 3.0$ ∴ the SAR report is not required.

For Left Earbud

The Maximum Conducted Peak Output Power is 4.22 dBm in channel 2.441 GHz;
 4.22 dBm logarithmic terms convert to numeric result is nearly 2.642 mW
 $\left[\frac{(\text{max. power of channel, including tune-up tolerance, mW})}{(\text{min. test separation distance, mm})} \right] \cdot \sqrt{f(\text{GHz})}$
 General RF Exposure = $\left(\frac{2.642 \text{ mW}}{5 \text{ mm}} \right) \times \sqrt{2.441 \text{ GHz}} = 0.826$;
 SAR requirement: $S = 3.0$;

∵ $0.826 < 3.0$ ∴ the SAR report is not required.

The BT classic and BLE can not be transmitted simultaneously.

Note: Refer to report No. GZCR240400035903 & GZCR240400035904 for EUT test Max Conducted Peak Output Power value.



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6 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for GZCR2404000359AT

- End of the Report -

