

EMC-TRF-03 Rev 1.0

Report No.: GZCR210902117503 Page: 1 of 10 FCC ID: OSDFREEBYRD

RF EXPOSURE EVALUATION REPORT

Application No.:	GZCR2109021175AT		
Applicant:	Beyerdynamic		
Address of Applicant:	56 Central Avenue Farmingdale, New York 11735, United States		
Manufacturer:	Beyerdynamic		
Address of Manufacturer:	56 Central Avenue Farmingdale, New York 11735, United States		
Factory:	Shenzhen Grandsun Electronic Co.,Ltd.		
Address of Factory:	East Park,Gaoqiao Industry Zone,Pingdi Street,Longgang,Shenzhen City		
Equipment Under Test (EUT):			
EUT Name:	Free BYRD		
Model No.:	Free BYRD *		
	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.		
Trade Mark:	beyerdynamic		
Standard(s) :	47 CFR PART 1, Subpart I, Section 1.1310		
	47 CFR PART 2, Subpart J, Section 2.1093		
	KDB447498D01 General RF Exposure Guidance v06		
Date of Receipt:	2021-09-23		
Date of Evaluation:	2021-09-25 to 2021-10-12		
Date of Issue:	2021-10-14		
Evaluation Result:	Pass*		

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

vhe. Jun

Kobe Jian EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-10-14		Original

Authorized for issue by		
Tested By	CJ Vu	
	Curry Wu/Project Engineer	
Reviewed By	Riday Lin	
	Ricky Liu/Reviewer	



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Evaluation Summary 2

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.

Declaration of EUT Family Grouping:

Model No.: Free BYRD

For the model Free BYRD which have two color samples :black and white ,Only the black sample was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used, internal wiring and functions were identical for all the above models, with only difference on color.



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4 **General Information**

4.1 Details of E.U.T.

Power supply:	Left earbuds: Li-Ion Polymer Battery 3.7V 85mAh (Charge by Charging box)	
	Right earbuds: Li-Ion Polymer Battery 3.7V 85mAh (Charge by Charging box)	
	Charging box with backup battery: Li-Ion Polymer Battery 3.7V 500mAh (Charged by type-C port)	
Cable(s):	Type-c cable: 60cm unshielded	
3T:		
Operation Frequency:	2402MHz to 2480MHz	
Bluetooth Version:	V5.2 Dual mode	
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK	
Number of Channels:	79	
Channel Spacing:	1MHz	
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)	
Antenna Type:	Loop_LDS	
Antenna Gain:	-2.6dBi(for left earbud) and -2.5dBi(for Right earbud)	
BLE:		
Operation Frequency:	2402MHz to 2480MHz	
Bluetooth Version:	V5.2 Dual mode	
Modulation Type:	GFSK	
Number of Channels:	40	
Channel Spacing:	2MHz	
Data Rate:	Support 1Mb/s and 2Mb/s	
Antenna Type:	Loop_LDS	
Antenna Gain:	-2.6dBi(for left earbud) and -2.5dBi(for Right earbud)	
	Cable(s): 3T: Operation Frequency: Bluetooth Version: Modulation Type: Number of Channels: Channel Spacing: Spectrum Spread Technology: Antenna Type: Antenna Gain: 3LE: Operation Frequency: Bluetooth Version: Modulation Type: Number of Channels: Channel Spacing: Data Rate: Antenna Type:	

4.2 Evaluating Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.



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4.3 Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

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.

CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

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

Abnormalities from Standard Conditions 4.5

None



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5 **Technical Requirements Specification**

5.1 RF Exposure Evaluation

5.1.1 Limit & Test Method

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · $[\sqrt{f(GHz)}] \le 3.0$ 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 calculation¹⁷
- The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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



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5.1.2 Conclusion

For BT:

Right earbud:

8.96 dBm on the lowest channe 2.48 The Max. power (including tune-up tolerance) is GHz (*) 8.96 dBm logarithmic terms convert to numeric result is nearly 7.87 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = (7.87 mW / 5 mm) x $\sqrt{2.48}$ GHz = 2.48 (1)SAR requirement: S = 3.0(2)(1) < (2)So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117501

For BT: left earbud:

The Max. power (including tune-up tolerance) is 8.61 dBm on the lowest channe 2.48 GHz (*) 8.61 dBm logarithmic terms convert to numeric result is nearly 7.26 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General ̈́RF Exposure = (7.26 mW / 5 mm) x √2.48 GHz = 2.29	(1)
SAR requirement:	
<i>S</i> = 3.0	(2)
(1) < (2)	

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117501



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For BLE: **Right earbud:** Data Rate:1Mb/s

The Max. power (including tune-up tolerance) is 3.51 dBm on the lowest channe 2.402 GHz (*) 3.51 dBm logarithmic terms convert to numeric result is nearly 2.24 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] General RF Exposure = (2.24 mW / 5 mm) $x \sqrt{2.402}$ GHz = 0.69 (1)

SAR requirement: S = 3.0(2) (1) < (2)So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117502

For BLE: **Right earbud:** Data Rate:2Mb/s

The Max. power (including tune-up tolerance) is 3.54 dBm on the lowest channe 2.402 GHz (*) 3.54 dBm logarithmic terms convert to numeric result is nearly 2.26 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)]

General RF Exposure = (2.26 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.70	(1)
SAR requirement:	
<i>S</i> = <i>3</i> .0	(2)
(1) < (2)	

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117502



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(2)

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For BLE: Left earbud: Data Rate:1Mb/s

The Max. power (including tune-up tolerance) is 3.67 dBm on the lowest channe 2.402 GHz (*) 3.67 dBm logarithmic terms convert to numeric result is nearly 2.33 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [Vf(GHz)] General RF Exposure = (2.33 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.72 (1)

SAR requirement: *S* = *3.0* (1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117502

For BLE: Left earbud: Data Rate:2Mb/s

The Max. power (including tune-up tolerance) is 3.74 dBm on the lowest channe 2.402 GHz (*) 3.74 dBm logarithmic terms convert to numeric result is nearly 2.37 mW According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\forall f(GHz)]

General RF Exposure = $(2.37 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{ GHz}} = 0.73$ (1) SAR requirement: S = 3.0 (2) (1) < (2)

So the SAR report is not required.

(*) Max. power refer to Report No.:GZCR210902117502

6 EUT Constructional Details (EUT Photos)

Refer to appendix - external and internal photos for GZCR2109021175AT

- End of the Report -



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