



FCC RF EXPOSURE REPORT

Applicant	:	Guangdong ERSE Acoustics Inc.
Address of Applicant	:	No.6 LIUHUA XIHENGSA STREET, XIAKOU, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG, CHINA
Manufacturer	:	Guangdong ERSE Acoustics Inc.
Address of Manufacturer	:	No.6 LIUHUA XIHENGSA STREET, XIAKOU, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG, CHINA
Equipment under Test	:	Rock Speaker
Model No.	:	ERS-1002, SPR501C02-SL-PR, RS400T01-SL-PR, ERS-1001, ERS-1003-XX, ERS-1004-XX, ERS-1005-XX, ERS-1006-XX, ERS-1007-XX, ERS-1008-XX, ERS-1009-XX, ERS-1010-XX, NRS-1011-XX, NRS-1012-XX, NRS-1013-XX, NRS-1014-XX, NRS-1015-XX, NRS-1016-XX, NRS-1017-XX, NRS-1018-XX, NRS-1019-XX, NRS-1020-XX, VRS-1021-XX, VRS-1022-XX, VRS-1023-XX, VRS-1024-XX, VRS-1025-XX, VRS-1026-XX, VRS-1027-XX, VRS-1028-XX, VRS-1029-XX, VRS-1030-XX, ERS-2000, ERS-2001-XX, ERS-2002-XX, ERS-2003-XX, ERS-2004-XX, ERS-2005-XX, ERS-2006-XX, ERS-2007-XX, ERS-2008-XX, ERS-2009-XX, ERS-2010-XX, NRS-2011-XX, NRS-2012-XX, NRS-2013-XX, NRS-2014-XX, NRS-2015-XX, NRS-2016-XX, NRS-2017-XX, NRS-2018-XX, NRS-2019-XX, NRS-2020-XX, VRS-1031-XX, VRS-1032-XX, VRS-1033-XX, VRS-1034-XX, VRS-1035-XX, VRS-1036-XX, VRS-1037-XX, VRS-1038-XX, VRS-1039-XX, VRS-1040-XX
Trade Mark		Emerson, NAXA, VICTOR
FCC ID	:	2AWFXSPR506
Test Standard(s)	:	KDB447498 D01 General RF Exposure Guidance v06
Report No.	:	DDT-RE23122113-2E02
Issue Date	:	2024/01/30
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd.
Address of Laboratory	:	Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Trade Mark		Emerson, NAXA, VICTOR
Manufacturer	:	Guangdong ERSE Acoustics Inc.
Address of Manufacturer	:	No.6 LIUHUA XIHENGSA STREET, XIAKOU, DONGCHENG DISTRICT, DONGGUAN CITY, GUANGDONG, CHINA

Standard Used: KDB447498 D01 General RF Exposure Guidance v06

We Declare:

The equipment described above is assessed by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration assessed the equipment complied with the standards specified above. The assessed results are contained in this report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these assess.

After evaluation, our opinion is that the equipment In Accordance with above standard.

Report No.:	DDT-RE23122113-2E02		
Date of Receipt:	2024/01/08	Date of Test:	2024/01/08~2024/01/30

Prepared By:

Approved By:

Ziqin Chen

Ziqin/Engineer

Damon Hu

Damon Hu/EMC Manager

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Rev.	Revisions	Issue Date	Revised By
---	Initial issue	2024/01/30	

1. General Information

1.1. Description of equipment

EUT Name	: Rock Speaker
Model Number	: ERS-1001, ERS-1002, ERS-2000, SPR501C02-SL-PR, RS400T01-SL-PR, ERS-1001, ERS-1003-XX, ERS-1004-XX, ERS-1005-XX, ERS-1006-XX, ERS-1007-XX, ERS-1008-XX, ERS-1009-XX, ERS-1010-XX, NRS-1011-XX, NRS-1012-XX, NRS-1013-XX, NRS-1014-XX, NRS-1015-XX, NRS-1016-XX, NRS-1017-XX, NRS-1018-XX, NRS-1019-XX, NRS-1020-XX, VRS-1021-XX, VRS-1022-XX, VRS-1023-XX, VRS-1024-XX, VRS-1025-XX, VRS-1026-XX, VRS-1027-XX, VRS-1028-XX, VRS-1029-XX, VRS-1030-XX, ERS-2000, ERS-2001-XX, ERS-2002-XX, ERS-2003-XX, ERS-2004-XX, ERS-2005-XX, ERS-2006-XX, ERS-2007-XX, ERS-2008-XX, ERS-2009-XX, ERS-2010-XX, NRS-2011-XX, NRS-2012-XX, NRS-2013-XX, NRS-2014-XX, NRS-2015-XX, NRS-2016-XX, NRS-2017-XX, NRS-2018-XX, NRS-2019-XX, NRS-2020-XX, VRS-1031-XX, VRS-1032-XX, VRS-1033-XX, VRS-1034-XX, VRS-1035-XX, VRS-1036-XX, VRS-1037-XX, VRS-1038-XX, VRS-1039-XX, VRS-1040-XX
Difference of models	: Above models are identical in schematic and structure, only the model number are different, therefore the test performed on the model ERS-1002
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 5V from external AC Adapter or DC 3.7 V Polymer Li-ion built-in battery
Radio Specification	: Bluetooth V5.0
Operation Frequency	: 2402 MHz - 2480 MHz
Modulation	: GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate	: 1 Mbps, 2 Mbps, 3 Mbps
Antenna	: FPC antenna, maximum PK gain: 1.9 dBi

1.2. Assess laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20155, G-20118

2. RF Exposure evaluation for FCC

According to 447498 D01 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:

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

The result is rounded to one decimal place for comparison

Manufacturing Tolerance

Mode	Antenna	Frequency [MHz]	Target (dBm)	Tolerance $\pm$ (dB)
GFSK (Peak)	Ant1	2402	-12	1
		2441	-12.5	1
		2480	-12.5	1
$\pi/4$ DQPSK (Peak)	Ant1	2402	-9.5	1
		2441	-10	1
		2480	-10	1
8DPSK (Peak)	Ant1	2402	-9	1
		2441	-9.5	1
		2480	-9.5	1

Estimation Result

Worse case is as below: [2402 MHz, -8.0 dBm, (0.16 mW) output power]

$(0.18/5) \cdot [\sqrt{2.402(\text{GHz})}] = 0.049 < 3.0$ for 1-g SAR

Then SAR evaluation is not required.

END OF REPORT