

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240100012002

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RF Exposure Evaluation Report

Application No.: SZCR2401000120AT Applicant: Delaval International AB

Address of Applicant: Gustaf de Lavals vag 15, PO box 39 14637 Tumba, Sweden

Manufacturer: Delaval International AB

Address of Manufacturer: Gustaf de Lavals vag 15, P.O. box 39, Tumba 14637, Sweden

Factory: Orbit One AB

Address of Factory: Fridhemsvägen 15, SE-372 38 Ronneby, Sweden

Equipment Under Test (EUT):

EUT Name: Biosensors ear tag

BAT1 Model No.: FCC ID: UCSBAT1

Trade Mark:

🖍 DeLaval

47 CFR PART 1.1307 Standards: 47 CFR PART 1.1310

47 CFR PART 2.1093

447498 D04 Interim General RF Exposure Guidance v01

Date of Receipt: 2024-01-11

2024-01-11 to 2024-01-18 Date of Test:

2024-01-25 Date of Issue:

Test Result: PASS*

Kenv Xu **EMC Laboratory Manager**

Leny. xu



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



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Version

Revision Record						
Version	Chapter	Date	Modifier	Remark		
01		2024-01-25		Original		

Authorized for issue by		
	Ledai	
	Leo Lai/Project Engineer	
	Exic Fu	
	Eric Fu/Reviewer	



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General Information 4

4.1 General Description of EUT

Power supply: DC3.6V by battery

For UWB

Operating Frequency: 6489.6MHz

Modulation Type: PΜ Number of Channels:

Sample Type: Hand Held Use

Ceramic Chip Antenna Antenna Type:

Antenna Gain: 4.16dBi

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.



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4.2 Test Location

All tests were performed at:

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

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

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

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.



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4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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RF Exposure Evaluation 5

RF Exposure Compliance Requirement

5.1.1 Limits

Per § 1.1307(b)(3)(i)(A), a single RF source is exempt RF device (from the requirement to show data demonstrating compliance to RF exposure limits, as previously mentioned) if the available maximum timeaveraged power is no more than 1 mW, regardless of separation distance.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at test channel.

5.1.3 EUT RF Exposure Evaluation

For UWB:

Antenna Gain: 4.16dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.61 in linear scale.

As the maximum allowed Peak EIRP for UWB is less than 0dBm, which is less than 1mW, per 447498 D04 Interim General RF Exposure Guidance v01 section 2.1.2, RF Exposure Policy Updates, RF exposure test is not required based on 1mW exclusion for frequency over 6GHz.

- End of the Report -



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