

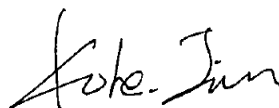


RF Exposure Evaluation Report

Application No.: GZCR2201000101AT
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
Model No.: BAT1
Trade Mark: 
Standards: 47 CFR PART 1.1307
47 CFR PART 1.1310
47 CFR PART 2.1093
447498 D04 Interim General RF Exposure Guidance v01
Date of Receipt: 2022-01-19
Date of Test: 2022-01-24 to 2022-01-28
Date of Issue: 2022-02-15

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
EMC Laboratory Manager



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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2022-02-15		Original

Authorized for issue by:				
				
		Curry Wu/Project Engineer		
				
		Ricky Liu/Reviewer		



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4 General Information

4.1 General Description of EUT

Power supply:	DC3.6V by battery
For UWB	
Operating Frequency:	6489.6MHz
Modulation Type:	PM
Number of Channels:	1
Sample Type:	Hand Held Use
Antenna Type:	Ceramic Chip Antenna
Antenna Gain:	4.16dBi



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4.2 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663
Tel: +86 20 82155555 Fax: +86 20 82075059

4.3 Test Facility

The test 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



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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.

4.6 Other Information Requested by the Customer

None.

5 RF Exposure Evaluation

5.1 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 time-averaged 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 -