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Certificate of Accreditation

International Accreditation Japan (IAJapan) hereby accredits the following conformity assessment body as a calibration laboratory of Japan Calibration Service System.

Accreditation Identification: JCSS 0197 Calibration

Name of Conformity Assessment Body: Quality Assurance Section, Quality Assurance Department,
Environmental Instrument Division, RION CO., LTD.

Name of Legal Entity: RION CO., LTD.

Location of Conformity Assessment Body: 3-20-41, Higashi-motomachi, Kokubunji-shi, Tokyo
185-8533, JAPAN

Scope of Accreditation: Acceleration, Acoustics & Ultrasound
(as the following pages)

Accreditation Requirement: ISO/IEC 17025:2017*

* The relevant accreditation requirements described in the JCSS Accreditation Scheme Document are also applied.

Effective Date of Accreditation: 2019-09-03

Expiry Date of Accreditation: 2023-09-02

Date of Initial Accreditation: 2007-09-03

A handwritten signature in black ink, appearing to read 'Kozo Sakamoto', is written over a horizontal line.

SAKAMOTO Kozo

Chief Executive, International Accreditation Japan (IAJapan)

National Institute of Technology and Evaluation

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- International Accreditation Japan (IAJapan) is a laboratory accreditation body which has signed MRAs of ILAC (International Laboratory Accreditation Cooperation) and APAC (Asia Pacific Accreditation Cooperation).
 - MRA requirements are, in addition to relevant international standards and guides, requirements for participation in proficiency testing programs, surveillance and reassessment, and the policy for the traceability of measurement for MRA purpose.
 - This laboratory fulfills ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. This accreditation means this laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).
 - The latest accreditation information is publicly available on IAJapan Website as an accreditation certificate.

General Field of Calibration: Acceleration

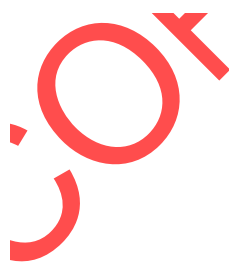
Date of Initial Accreditation of the Field: 2012-11-15

Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facility

Calibration and Measurement Capabilities

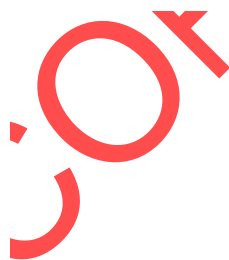
Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Vibration Acceleration Measuring Equipment, etc.	Reference Accelerometer (Voltage Sensitivity)	20 Hz	1.2 %
		25 Hz	1.5 %
		31.5 Hz	1.7 %
		40 Hz	1.3 %
		50 Hz	1.3 %
		63 Hz	1.1 %
		80 Hz	1.1 %
		100 Hz	1.5 %
		125 Hz	1.9 %
		159.2 Hz	1.2 %
		160 Hz	1.2 %
		200 Hz	1.6 %
		250 Hz	1.1 %
		315 Hz	1.0 %
		400 Hz	2.2 %
		500 Hz	2.4 %
		630 Hz	0.9 %
		800 Hz	0.9 %
		1000 Hz	1.0 %
		1250 Hz	1.0 %
		1600 Hz	1.3 %
		2000 Hz	1.6 %
		2500 Hz	1.9 %
3150 Hz	1.6 %		
4000 Hz	1.6 %		
5000 Hz	2.1 %		
6300 Hz	2.3 %		
8000 Hz	2.3 %		
10000 Hz	1.9 %		

#All Calibration Procedures are in-house procedures developed by this laboratory.



Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range	Expanded Uncertainty (Level of Confidence Approximately 95 %)
Vibration Acceleration Measuring Equipment, etc.	Reference Accelerometer (Charge Sensitivity)	20 Hz	1.2 %
		25 Hz	1.6 %
		31.5 Hz	1.7 %
		40 Hz	1.3 %
		50 Hz	1.3 %
		63 Hz	1.1 %
		80 Hz	1.2 %
		100 Hz	1.5 %
		125 Hz	1.9 %
		159.2 Hz	1.2 %
		160 Hz	1.3 %
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		250 Hz	1.2 %
		315 Hz	1.1 %
		400 Hz	2.2 %
		500 Hz	2.4 %
		630 Hz	1.0 %
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		1000 Hz	1.0 %
		1250 Hz	1.0 %
		1600 Hz	1.4 %
		2000 Hz	1.6 %
		2500 Hz	1.9 %
		3150 Hz	1.6 %
4000 Hz	1.6 %		
5000 Hz	2.1 %		
6300 Hz	2.3 %		
8000 Hz	2.3 %		
10000 Hz	1.9 %		

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General Field of Calibration: Acoustics & Ultrasound

Date of Initial Accreditation of the Field: 2007-09-03

Laboratory's permanent facility/On-site Calibration: Laboratory's permanent facility

Calibration and Measurement Capabilities

Calibration Procedures# and Type of Instruments/Materials to be calibrated		Range		Expanded Uncertainty (Level of Confidence Approximately 95 %)	
Acoustic Measuring Equipment, etc.	Measurement Microphone (Free-Field Sensitivity Level, Type2 Microphone)	20 Hz, 25 Hz		0.4 dB	
		From 31.5 Hz up to 160 Hz		0.3 dB	
		More than 160 Hz up to 1000 Hz		0.2 dB	
		More than 1000 Hz up to 8000 Hz		0.3 dB	
		More than 8000 Hz up to 2000 Hz		0.5 dB	
	Sound Level Meter (Free-Field Response Level)	20 Hz, 25 Hz		0.4 dB	
		From 31.5 Hz up to 160 Hz		0.3 dB	
		More than 160 Hz up to 1000 Hz		0.2 dB	
		More than 1000 Hz up to 3150 Hz		0.3 dB	
		More than 3150 Hz up to 8000 Hz		0.4 dB	
		More than 8000 Hz up to 12500 Hz		0.6 dB	
	Sound Calibrator (Sound Pressure Level)	Sound Pressure Level with Reference Standard	114 dB	250 Hz	0.09 dB
		Sound Pressure Level with Standard Load Volume *1			0.09 dB
		Sound Pressure Level with Reference Standard	94 dB	1000 Hz	0.09 dB
Sound Pressure Level with Standard Load Volume *1		0.10 dB			

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*1 Effective Load Volume According to Calibration's Condition based on the Specifications for Sound Calibrator