SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

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ELECTRICAL

Valid To: July 31, 2021 Certificate Number: 5241.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests:

Test Technology:	**Test Method(s):**
Emissions	
Radiated and Conducted	RSS-Gen; FCC Part 15-B (*using ANSI C63.4 2014*)
Radio	
Maritime Radio Systems STATIONS IN THE MARITIME SERVICES *(Occupied Bandwith, Frequency Stability, Transmitter Output Power, Transmitter Unwanted Emissions, Receiver Spurious Emissions As applicable)*	RSS-238; RSS 182; FCC Part 80 *(Using ANSI/TIA-603-E-2016)*
PRIVATE LAND MOBILE RADIO SERVICE *(Power and antenna height limits. Types of emissions. Bandwidth limitations. Emission masks. Frequency Stability, Transmitter Measurement. Exemption from technical standards.)*	FCC Part 90-I (Using ANSI/TIA-603-E-2016)
Radio / Intentional Radiators *(Using ANSI C63.10:2013; EIA/TIA-603-E)*	47 CFR FCC Parts 25, 30, 74, 87,95, 97 and 101;
RF Exposure	
(MPE only, Excluding SAR and Nerve Stimulation)	RSS-102; IEEE Std 1528™-2013

Test Technology:	**Test Method(s):**
EMC Immunity RF Radiated/Conducted for Automotive Electronic Devices (AED), Machine and Vehicle	ISO 11452-2, ISO 11452-4, JASO D 011, ECE R10 05, ISO 14982 / EN ISO 14982, ISO 13766
ESD for Automotive Electronic Modules (AEM) and Vehicles (ESA and Machine)	ISO 10605
EMC RF Radiated/Conducted Emission of automotive electronic devices (AED), Machine and Vehicle	CISPR 25, JASO D 008, ECE R10 05, ISO 14982 / EN ISO 14982, CISPR 12 / EN 55012

On the following products or types of products:
Maritime Radio Transmitters and Receivers in the Band 156-162.5 MHz; Radar in the 2900-3100 MHz and 9225-9500 MHz Bands (Shipborne, River, Coastal Surveillance, Vessel Traffic Services, Harbor, Weather, etc.)

[1]This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratories listed below.

Satellite Locations

NISHINOMIYA LABORATORY
9-52, Ashihara-cho,
Nishinomiya-shi, Hyogo,
662-8580 Japan

Test Technology:	**Test Method(s):**
Emissions	
Radiated and Conducted	RSS-Gen, FCC Part 15-B (*Using ANSI C63.4 2014)*
Radio	
Maritime Radio Systems STATIONS IN THE MARITIME SERVICES *(Occupied Bandwidth, Frequency Stability, Transmitter Output Power, Transmitter Unwanted Emissions, Receiver Spurious Emissions As applicable0*	RSS-238, RSS-182; FCC Part 80 *(Using ANSI/TIA-603-E-2016)*
PRIVATE LAND MOBILE RADIO SERVICE *(Power and antenna height limits. Types of emissions. Bandwidth limitations. Emission masks. Frequency stability. Transmitter measurements. Exemption from technical standards)*	FCC Part 90-I *(Using ANSI/TIA-603-E-2016)*
Radio / Intentional Radiators *(Using ANSI C63.10:2013; EIA/TIA-603-E)*	47 CFR FCC Parts 25, 30, 74, 87,95, 97 and 101
RF Exposure *(MPE only, Excluding SAR and Nerve Stimulation)*	RSS-102; IEEE Std 1528™-2013

NISHINOMIYA-HAMA LABORATORY
2-20, Nishinomiya-Hama,
Nishinomiya-shi, Hyogo,
662-0934 Japan

Test Technology:	**Test Method(s):**
Emissions	
Radiated and Conducted	RSS-Gen, FCC Part 15-B (*Using ANSI C63.4 2014*)
Radio	
Maritime Radio Systems STATIONS IN THE MARITIME SERVICES *(Occupied Bandwidth, Frequency Stability, Transmitter Output Power, Transmitter Unwanted Emissions, Receiver Spurious Emissions As applicable)*	RSS-238, RSS-182; FCC Part 80 *(Using ANSI/TIA-603-E-2016)*
PRIVATE LAND MOBILE RADIO SERVICE *(Power and antenna height limits. Types of emissions. Bandwidth limitations. Emission masks. Frequency stability. Transmitter measurements. Exemption from technical standards)*	FCC Part 90-I (*Using ANSI/TIA-603-E-2016)*
Radio / Intentional Radiators *(Using ANSI C63.10:2013; EIA/TIA-603-E)*	47 CFR FCC Parts 25, 30, 74, 87,95, 97 and 101
RF Exposure *(MPE only, Excluding SAR and Nerve Stimulation)*	RSS-102; IEEE Std 1528™-2013

Testing Activities Performed in Support of FCC Declaration of Conformity and Certification in Accordance with 47 Code of Federal Regulations and FCC KDB 974614, Appendix A, Table A.1[2]

Rule Subpart/Technology	Test Method	Maximum Frequency (MHz)
Unintentional Radiators		
Part 15B	ANSI C63.4:2014	40000
Intentional Radiators		
Maritime and Aviation Radio Services (FCC Licensed Radio Service Equipment) Parts 80 and 87	ANSI/TIA-603-E-2016	40000
Microwave and Millimeter Wave Bands Radio Services (FCC Licensed Radio Service Equipment) Part 25 Part 30 Part 74 Part 90 (above 3 GHz) Part 95 (above 3 GHz) Part 97 (above 3 GHz) Part 101	ANSI/TIA-603-E-2016	40000
RF Exposure		
Devices Subject to SAR Requirements	IEEE Std 1528:2013	6000

[2] Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

Accredited Laboratory

A2LA has accredited

LABOTECH INTERNATIONAL., LTD.

Nishinomiya-shi, Hyogo, Japan

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 17th day of July 2019.

Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 5241.01
Valid to July 31, 2021

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.