



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

**AUTOMOTIVE RESEARCH AND TESTING CENTER**

Electromagnetic Compatibility Laboratory

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Lukang Township, Changhua County, 50544

Taiwan (R.O.C.)

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**ELECTRICAL (EMC)**

Valid to: August 31, 2024

Certificate Number: 2376.01

In recognition of the successful completion of the A2LA accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility tests:

**Test Technology:**

**Test Method(s):<sup>1</sup>**

Electrostatic Discharge (ESD)

ISO 10605

RF Conducted Emissions

CISPR 25 :2002, 2008 Sections 6.2, 6.3  
CISPR 25 :2016 Sections 6.3, 6.4,  
Annex I.2, I.3, I.5;  
CISPR 25 :2021 Sections 6.3, 6.4,  
Annex H.3, H.4, H.6

RF Radiated Emissions

CISPR 25: 2002, 2008 Section 6.4;  
CISPR 25: 2016 Section 6.5, Annex I.4, I.5;  
CISPR 25: 2021 Section 6.5,  
Annex H.5, H.6;  
ANSI C63.4 Section 8.2.3 (30M to 1GHz)

Bulk Current Injection (BCI)  
*Substitution Method*

ISO 11452-4;  
SAE J1113-4

Absorber-Lined Shielded Enclosure (ALSE)  
*Metallic Bench Only*  
*200 MHz to 6GHz, Up to 200 V/m*

ISO 11452-2

Absorber-Lined Shielded Enclosure (ALSE)  
*Radar Pulse Only*  
*Up to 600 V/m*

ISO 11452-2

Conducted Transient Emissions

ISO 7637-2;  
ISO 7637-4

**Test Technology:****Test Method(s): <sup>1</sup>**

Conducted Transient Immunity	ISO 7637-2; ISO 7637-3; ISO 7637-4
Electrical Loads	ISO 16750-2
Method of Measurement of Radiated Broadband/Narrowband Electromagnetic Emissions from Vehicles	ECE R10 Annex 4, 5; CISPR 12
Method of Testing for Immunity of Vehicles to Electromagnetic Radiation	ECE R10 Annex 6; ISO 11451-2
Portable Transmitters Immunity	ISO 11452-9
Immunity to Magnetic Fields	ISO 11452-8
Method(s) of Testing for Emission of Harmonics Generated on AC power lines from Vehicle/ESA	ECE R10 Annex 11 (Vehicle), 17 (ESA) (IEC 61000-3-2:2005 + A1: 2008 + A2:2009, IEC 61000-3-12:2004)
Method(s) of Testing for Emission of Voltage Changes, Voltage Fluctuations and Flicker on AC Power Lines from Vehicle/ESA	ECE R10 Annex 12 (Vehicle), 18 (ESA) (IEC 61000-3-3: 2008, IEC 61000-3-11:2000)
Method of Testing for Immunity of Vehicles/ESA to Electrical Fast Transient/Burst Disturbances Conducted Along AC and DC Power Lines	ECE R10 Annex 15 (Vehicle), 21 (ESA) (IEC 61000-4-4: 2004)
Method of Testing for Immunity of Vehicles/ESA to Surges Conducted Along AC and DC power Lines	ECE R10 Annex 16 (Vehicle), 22 (ESA) (IEC 61000-4-5: 2005)
Method(s) of Testing for Emission of Radiofrequency Conducted Disturbances on AC and DC Power Lines from Vehicles/ESA	ECE R10 Annex 13 (Vehicle), 19 (ESA) (CISPR 16-2-1: 2008)

**Types of products, materials, and/or industry that the laboratory tests:**

Automotive Electrical/Electronic Components and Subsystems, Vehicles of Category L, M, N, O

<sup>1</sup> When the date, revision or edition of a test method standard is not identified on the scope of accreditation, the laboratory is expected to be using the current version within one year of the date of publication, per part C., Section 1 of A2LA R101 - *General Requirements - Accreditation of ISO/IEC 17025 Laboratories*.



## Accredited Laboratory

A2LA has accredited

### AUTOMOTIVE RESEARCH AND TESTING CENTER

*Lugang, Changhua County, Taiwan (R.O.C.)*

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 12<sup>th</sup> day of August 2022.

A blue ink signature of Mr. Trace McInturff.

Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 2376.01  
Valid to August 31, 2024

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