



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

DEKRA TESTING AND CERTIFICATION CO., LTD.<sup>1</sup>  
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ELECTRICAL (EMC)

Valid to: June 30, 2023

Certificate Number: 5319.01

In recognition of the successful completion of the A2LA accreditation is granted to this laboratory at the location listed above, *as well as the one satellite laboratory location listed below*, to perform the following automotive electromagnetic compatibility tests:

**Test Technology:**

Electrostatic Discharge (ESD)

**Test Method(s):** <sup>2</sup>

ISO 10605;  
BS ISO 10605;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J113-13;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

**Test Technology:**

RF Conducted Emissions

**Test Method(s):** <sup>2</sup>

CISPR 25 Sections 6.3 and 6.4;  
EN 55025 Sections 6.2, 6.3;  
BS EN 55025;  
SAE J1113-41;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

RF Radiated Emissions

CISPR 25 Section 6.5 and Annex I;  
ECE R10;  
EN 50498 (sections 7.1 and 7.2);  
EN 55025 sections 6.4;  
BS EN 50498;  
BS EN 55025;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-41;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

Absorber-Lined Shielded Enclosure (ALSE)  
*200 MHz to 6 GHz, Up to 200 V/m*  
*Radar Pulse, Up to 600 V/m*

ISO 11452-2;  
ECE R10;  
BS ISO 11452-2;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-21;



**Test Technology:**

Absorber-Lined Shielded Enclosure (ALSE) (*Cont.*)  
200 MHz to 6 GHz, Up to 200 V/m  
Radar Pulse, Up to 600 V/m

TEM cell

Bulk Current Injection (BCI)  
(*excluding TWC test method*)

Stripline

Direct Radio Frequency (RF) Power Injection

**Test Method(s):** <sup>2</sup>

Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

ISO 11452-3;  
BS ISO 11452-3

ISO 11452-4;  
ECE R10;  
BS ISO 11452-4;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-4;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

ISO 11452-5;  
ECE R10;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-23;  
BMW GS-95002-2;  
VW TL81000 (2016); VW TL81000

ISO 11452-7;  
SAE J1113-3



**Test Technology:**

Magnetic Fields Immunity  
(Radiating Loop Method)

Magnetic Fields Emissions

Portable Transmitters

Electrical Tests

Conducted Transient Emission (CTE)

**Test Method(s):** <sup>2</sup>

ISO 11452-8;  
BS ISO 11452-8;  
MIL-STD-461;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

MIL-STD-461;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779

ISO 11452-9;BS ISO 11452-9;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
HAITEC TES-95465;  
VW TL81000 (2016); VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

ISO 16750-2;  
GMW 3172;  
VW 80000;  
Geely Q/JLY J7111029;

ISO 7637-2;  
ECE R10;  
BS ISO 7637-2;  
EN 50498 (section 7.3);  
BS EN 50498;  
BS EN ISO 14982; EN ISO 14982;



**Test Technology:**

**Test Method(s):** <sup>2</sup>

Conducted Transient Emission (CTE) (*Cont.*)

BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
SAE J1113-11;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

Conducted Transient Immunity

ISO 7637-2; ISO 7637-3;  
EN 50498 (section 7.4);  
BS EN 50498;  
ECE R10;  
BS ISO 7637-2;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
SAE J1113-11; SAE J1113-12;  
Jaguar JLR-EMC-CS v1.0;  
Jaguar JLR-EMC-CS;  
Ford EMC-CS-2009.1; Ford FMC1278;  
GMW3097 (2015); GMW3097;  
FCA CS.00054;  
HAITEC TES-95465;  
BMW GS-95002-2;  
Daimler MBN 10284-2;  
Daimler MBN 10284-4;  
VW TL81000;  
Nissan 28401NDS02;  
Geely Q/JLY J7110779;  
GAC QJ/GAC 1523.029

Radar equipment operating in the 76 GHz to 77 GHz range

ETSI EN 301 091;  
ETSI EN 301 091-1; ETSI EN 301 091-2

Multiple-Gigabit/s radio equipment operating in the 60 GHz band

ETSI EN 302 567

Short Range Radar equipment operating in the 77 GHz to 81 GHz band

ETSI EN 302 264

Generic/Product Specific EMC Standards

IEC 61851-21-1; IEC 61851-21-2



<sup>1</sup> This accreditation covers testing performed at the main laboratory listed above, and the satellite laboratory indicated below:

No. 5-22, Ruishukeng,  
Linkou District, New Taipei City, 24451, Taiwan (R.O.C.)  
Murphy Wang Phone: +886 2 8601 3788  
Email: murphy.wang@dekra.com

**Test Technology:**

**Test Method(s):<sup>2</sup>**

Electrostatic Discharge (ESD)

ISO 10605;  
BS ISO 10605;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J113-13

RF Conducted Emissions

CISPR 25 Sections 6.3 and 6.4;  
EN 55025 Sections 6.2, 6.3;  
BS EN 55025;  
SAE J1113-41

RF Radiated Emissions

CISPR 25 Section 6.5 and Annex I;  
ECE R10;  
EN 50498 (sections 7.1 and 7.2);  
EN 55025 sections 6.4;  
BS EN 50498;  
BS EN 55025;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-41

Bulk Current Injection (BCI)  
(excluding TWC test method)

ISO 11452-4;  
ECE R10;  
BS ISO 11452-4;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
BS EN 15194; EN 15194;  
SAE J1113-4

Electrical Tests

ISO 16750-2

Conducted Transient Emission (CTE)

ISO 7637-2;  
ECE R10;  
BS ISO 7637-2;  
EN 50498 (section 7.3);  
BS EN 50498;  
BS EN ISO 14982; EN ISO 14982;



**Test Technology:**

**Test Method(s):** <sup>2</sup>

Conducted Transient Emission (CTE) (*Cont.*)

BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
SAE J1113-11

Conducted Transient Immunity

ISO 7637-2; ISO 7637-3;  
EN 50498 (section 7.4);  
BS EN 50498;  
ECE R10;  
BS ISO 7637-2;  
BS EN ISO 14982; EN ISO 14982;  
BS EN ISO 13766-1; EN ISO 13766-1;  
BS EN ISO 13766-2; EN ISO 13766-2;  
SAE J1113-11; SAE J1113-12

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

Automotive Electrical/Electronic Components and Subsystems,

Industrial, Scientific, Medical (ISM), Information Technology Equipment (ITE), RF Equipment

<sup>2</sup> When the date, edition, version, etc. is not identified in the scope of accreditation, laboratories may use the version that immediately precedes the current version for a period of one year from the date of publication of the standard measurement method, per part C., Section 1 of A2LA *RI01 - General Requirements- Accreditation of ISO-IEC 17025 Laboratories*.





## Accredited Laboratory

A2LA has accredited

**DEKRA TESTING AND CERTIFICATION CO.,LTD.**

*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 9<sup>th</sup> day of July 2021.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 5319.01  
Valid to June 30, 2023

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