

Annex to declaration of accreditation (scope of accreditation)
 Normative document: EN ISO/IEC 17025:2017
 Registration number: **L 279**

of **Kiwa Dare B.V.**

This annex is valid from: **29-08-2023** to **01-11-2025**

Replaces annex dated: **16-08-2023**

Location(s) where activities are performed under accreditation

Head Office

Vijzelmolenlaan 5 & 7
 3447 GX
 Woerden
 The Netherlands

Location	Abbreviation/ location code
Vijzelmolenlaan 5 & 7 3447 GX Woerden The Netherlands	WO
On-site	OS

No.	Material or product	Type of activity ¹	Internal reference number	Location
Electromagnetic Compatibility tests				
EMC.E.02	Electric- and electronic equipment	Conducted Emissions Voltage method (AMN) 9 kHz to 30 MHz	document 850 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11 EN 55014-1, CISPR 14-1 EN 55015, CISPR 15 EN 55022, CISPR 22 EN 55032, CISPR 32 ECE Regulation No. 10	WO
EMC.E.02		Conducted Emissions Voltage method (AMN) 150 kHz - 30 MHz	document 899 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11	OS

¹ If there is a referral to a code starting with NAW, NAP, EA or IAF, this concerns a scheme mentioned on the [RvA-BR010-lijst](#).
 If no date or version number is mentioned for a normative document, the accreditation concerns the most current version of the document or scheme.

This annex has been approved by the Board of the Dutch Accreditation Council, on its behalf,

J.A.W.M. de Haas

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.E.03	Electric- and electronic equipment	Conducted Emissions Voltage method (LISN) 9 kHz – 30 MHz	document 850 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11 EN 55014-1, CISPR 14-1 EN 55015, CISPR 15 EN 55022, CISPR 22 EN 55032, CISPR 32 ECE Regulation No. 10	WO
EMC.E.03		Conducted Emissions Voltage method (LISN) 150 kHz - 30 MHz	document 899 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11	OS
EMC.E.04		Conducted Emissions, Voltage method (Voltage probe) 150 kHz - 30 MHz	document 852 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11 EN 55014-1, CISPR 14-1 EN 55015, CISPR 15	WO
EMC.E.04		Conducted Emissions Voltage method (Voltage probe) 150 kHz - 30 MHz	document 901 EN 55016-2-1, CISPR 16-2-1 EN 55011, CISPR 11	OS
EMC.E.05		Conducted Emissions, Current method (Current probe) 150 kHz to 30 MHz	document 848 EN 55015, CISPR 15 EN 55016-2-1, CISPR 16-2-1 EN 55022, CISPR 22 EN 55032, CISPR 32 ECE Regulation No. 10	WO
EMC.E.06		Conducted Emissions Power disturbance method (Absorbing clamp) 30 MHz - 300 MHz	document 854 EN 55016-2-2 EN 55014-1, CISPR 14-1	WO
EMC.E.14		Radiated Emissions Full Anechoic Chamber Method (FACM) 1 GHz - 8 GHz	document 864 EN 55016-2-3 EN 55011, CISPR 11 EN 55022, CISPR 22 EN 55032, CISPR 32	WO
EMC.E.15		Radiated Emissions Semi Anechoic Chamber Method (SACM) 9 kHz - 1 GHz	document 868 EN 55016-2-3 EN 55011, CISPR 11 EN 55022, CISPR 22 EN 55032, CISPR 32	WO

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EMC.E.16	Electric- and electronic equipment	Radiated Emissions Open Area Test Site (OATS) 30 MHz – 1 GHz	document 841 EN 55016-2-3 EN 55011, CISPR 11 EN 55022, CISPR 22 EN 55032, CISPR 32	WO
EMC.E.18		Radiated Emissions Large loop antenna method (LAS) 9 kHz – 30 MHz	document 866 EN 55016-2-3 EN 55011, CISPR 11 EN 55014-1, CISPR 14-1 EN 55015, CISPR 15	WO
EMC.E.21		Radiated Emissions Electric Field 30 MHz - 1 GHz	document 907 In accordance with EN 55016-2-3, CISPR 16-2-3 EN 55011, CISPR 11	WO, OS
EMC.E.26		Harmonic Current Emissions (Up to and including 16A per phase) 1 phase	document 862 EN-IEC 61000-3-2 ECE Regulation No. 10	WO
EMC.E.27		Voltage changes, voltage fluctuations and flicker Emissions (Up to and including 16A per phase) 1 phase 50 Hz – 60 Hz	document 860 EN-IEC 61000-3-3 ECE Regulation No. 10	WO
EMC.E.34		Conducted Emissions Voltage method (AAN) 150 kHz to 30 MHz	document 1796 EN 55016-2-1, CISPR 16-2-1 EN 55015, CISPR 15 EN 55022, CISPR 22 EN 55032, CISPR 32	WO

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Automotive				
EMC.E.01	Electrical/electronic subassemblies	Conducted Emissions, Voltage method (AN) 150 kHz to 108 MHz	document 877, 940, 1888 CISPR 25 GMW3097 JLR-EMC-CS_v1.0	WO
EMC.E.05		Conducted Emissions Current method (Current probe) 150 kHz - 245 MHz	document 879 CISPR 25 JLR-EMC-CS_v1.0	WO
EMC.E.14		Radiated Emissions Full Anechoic Chamber Method (FACM) 150 kHz – 6 GHz	document 887, 940, 1888 CISPR 25 GMW3097 ECE Regulation No. 10 JLR-EMC-CS_v1.0	WO
EMC.E.15	Motor vehicles	Radiated Emissions Semi Anechoic Chamber Method (SACM) 30 MHz - 1 GHz	document 885 CISPR 12 ECE Regulation No. 10	WO
Immunity of susceptibility				
EMC.I.07	Electric- and electronic equipment	Immunity to conducted disturbances Induced by radio-frequency fields Up to 30 Vrms 150 kHz – 230 MHz	document 856 EN-IEC 61000-4-6	WO
EMC.I.07		Immunity to conducted disturbances Induced by radio-frequency fields Up to 10 Vrms 150 kHz - 80 MHz	document 903 Equivalent to EN-IEC 61000-4-6	WO, OS
EMC.I.12		Radiated Immunity Electric Field Up to 30 V/m 26 MHz - 6 GHz	document 872 EN-IEC 61000-4-3	WO
EMC.I.21	Electric- and electronic equipment	Electrostatic discharge Immunity (ESD) Contact discharge: up to 8 kV Air discharge: up to 15 kV	document 859, 906 EN-IEC 61000-4-2	WO, OS

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.I.22		Electrical fast transient / burst Immunity (EFT) 3 phase 32A Up to 4 kV	Document 858, 905 EN-IEC 61000-4-4	WO, OS
EMC.I.23		Surge Immunity 3 phase 32A Up to 4 kV	document 874 EN-IEC 61000-4-5	WO, OS
EMC.I.24		Power frequency magnetic field Immunity 50/60 Hz Up to 30 A/m	document 1829 EN-IEC 61000-4-8	WO
EMC.I.26		Voltage dips, short interruptions and voltage variations Immunity 1 phase All angles	document 1852 EN-IEC 61000-4-11	WO
EMC.I.42		Radiated electromagnetic field immunity Up to 10 V/m 80 MHz to 1 GHz	document 909 In-house method	OS

Automotive

EMC.I.02	Electrical/electronic subassemblies	Conducted RF Immunity Bulk Current Injection method Up to 300mA 100 kHz – 400 MHz	document 875, 940, 1888 ISO 11452-4 ECE Regulation No. 10 GMW3097 JLR-EMC-CS_v1.0	WO
EMC.I.12	Motor vehicles	Radiated Immunity Electric Field Up to 50 V/m 20 MHz – 4 GHz	document 889 ISO 11451-2 ECE Regulation No. 10	WO
EMC.I.15	Electrical/electronic subassemblies	Radiated disturbances Immunity Up to 600 V/m 200 MHz – 6 GHz	document 891, 940, 1888 ISO 11452-2 ECE Regulation No. 10 GMW3097 JLR-EMC-CS_v1.0	WO

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No.	Material or product	Type of activity ¹	Internal reference number	Location
EMC.I.21		Electrostatic discharge Immunity (ESD) Contact discharge up to 8 kV Air discharge up to 25 kV	document 1790, 940, 1888 ISO 10605 (2008) GMW3097 JLR-EMC-CS_v1.0	WO
		Contact discharge: up to 8 kV Air discharge: up to 25 kV	document 0881 ISO 10605 (2001)	
EMC.I.27		Electric transient transmission via lines other than supply lines Immunity	document 884, 940 ISO 7637-3 GMW3097	WO
EMC.I.39		Electric transient transmission along supply lines Immunity	document 0882, 2124, 940, 1888 ISO 7637-2 (2011), ISO 16750-2 ECE Regulation No. 10 GMW3097 JLR-EMC-CS_v1.0	WO
			document 0883 ISO 7637-2 (2004)	

FCC and ISED

EMC.E.02	Electric- and electronic equipment, unintentional radiators	Conducted Emissions Voltage method (AMN) 10 kHz - 30 MHz	document 911 In accordance with ANSI C63.4 (2014) FCC MP-5 (1986) 47 CFR 15, 47 CFR 18	WO
EMC.E.03		Conducted Emissions Voltage method (LISN) 10 kHz - 30 MHz	document 911 In accordance with ANSI C63.4 (2014) FCC MP-5 (1986) 47 CFR 15, 47 CFR 18	WO
EMC.E.14	Electric- and electronic equipment, unintentional radiators	Radiated Emissions Full Anechoic Chamber Method (FACM) 1 GHz - 8 GHz	document 1129 ANSI C63.4 (2014) 47 CFR 15, 47 CFR 18	WO
EMC.E.15		Radiated Emissions Semi Anechoic Chamber Method (SACM) 30 MHz - 1 GHz	document 1129 In accordance with ANSI C63.4 (2014) FCC MP-5 (1986) 47 CFR 15, 47 CFR 18	WO

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EMC.E.16		Radiated Emissions Open Area Test Site (OATS) 30 MHz - 1 GHz	document 913 In accordance with ANSI C63.4 (2014) FCC MP-5 (1986) 47 CFR 15, 47 CFR 18	WO
Electromagnetic Compatibility Electromagnetic Fields				
EMC.F.01	Household appliances and similar apparatus	Magnetic flux density	document 1543 EN-IEC 62233	WO, OS

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**Product standards containing one or more of the above mentioned test activities are listed below.
 Accreditation is only applicable to the tests mentioned above.**

No.	Material of product	Activity reference number	Product Standard	Location
EMC.S.02	Automotive EMC tests	EMC.E.01, EMC.E.05, EMC.E.14, EMC.E.15, EMC.I.02, EMC.I.12, EMC.I.15, EMC.I.21, EMC.I.27, EMC.I.39	ECE Regulation No. 10 EN 55012, CISPR 12 EN 55025, CISPR 25 EN 50498 EN-ISO 14982 EN 15194 BMW GS95002-1, GS95002-2, GS95002-5 Brembo BDS-04.48 DAF BSL 0006-100 DaimlerChrysler DC-10614, DC-10615, DC-11224 Fiat CS.00054, 9.90110, 9.90111 Ford FMC1278, EMC-CS-2009 GMW3097 JLR-EMC-CS v1.0 Amd. 4 John Deere JDQ 202, JDQ 203 MAN M3285 Mercedes-Benz MBN 10284-2, MBN 10284-4 Mazda MES PW 67602 Nissan 28400 NDS, 28401 NDS PSA PEUGEOT – CITROËN B21 7110 Renault 36-00-808/--N Scania TB1901 Volvo STD 515-0003, 31850329 Volkswagen TL 81000	N/A
	Maritime EMC tests	EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.06, EMC.E.14, EMC.E.15, EMC.E.16, EMC.E.21, EMC.E.26, EMC.E.27, EMC.E.34, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.26, EMC.I.42	EN-IEC 60945 DNVGL-CG-0339 Lloyd's Register TSN 1 Germanischer Lloyd VI Part 7	N/A

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EMC.S.03	Electrical and electronic equipment EMC tests	EMC.E.02, EMC.E.03, EMC.E.04, EMC.E.05, EMC.E.06, EMC.E.14, EMC.E.15, EMC.E.16, EMC.E.18, EMC.E.21, EMC.E.26, EMC.E.27, EMC.E.34, EMC.I.07, EMC.I.12, EMC.I.21, EMC.I.22, EMC.I.23, EMC.I.24, EMC.I.26, EMC.I.42	EN 12015 EN 12016 EN 12895 EN 13309 EN-ISO 13766 EN-ISO 13766-1 EN 50121-3-2 EN 50121-4 EN 50121-5 EN 50130-4 EN 50148 EN 50155 EN 50270 EN 50370 EN 50293 EN 55011, CISPR 11 EN 55014-1, CISPR 14-1 EN 55014-2, CISPR 14-2 EN 55015, CISPR 15 EN-IEC 61547 EN 55022, CISPR 22 EN 55024, CISPR 24 EN 55032, CISPR 32 EN 55035, CISPR 35 EN 55103-1 EN 55103-2 EN-IEC 60601-1-2 EN-IEC 61000-6-1 EN-IEC 61000-6-2 EN-IEC 61000-6-3 EN-IEC 61000-6-4 EN-IEC 61000-6-5 EN-IEC 61000-6-7 EN-IEC 61131-2 EN-IEC 61204-3 EN-IEC 61326-1 EN-IEC 61326-3-1 EN-IEC 61800-3 EN 301 489-1 EN 301 489-3	N/A
EMC.S.05	FCC EMC tests	EMC.E.02, EMC.E.03, EMC.E.14, EMC.E.15, EMC.E.16	47 CFR 15 47 CFR 18	N/A
EMC.S.07	ISED EMC tests	EMC.E.02, EMC.E.03, EMC.E.14, EMC.E.15, EMC.E.16	Industry Canada ICES-003	N/A