



Nemko Laboratory Authorisation Aut. No.: ELA 216

EMC Laboratory: **Test'ing Srl**
Via del Consorzio, 41
60015 Falconara Marittima
(AN) - Italy

Scope of
Authorization: **All standards for EMC and radio transmission that are listed
on the accompanying page.**

Nemko has assessed the quality assurance system, the testing facilities, qualifications and testing practices of the relevant parts of the organization. The quality assurance system of the Laboratory has been validated against ISO/IEC 17025 or equivalent. The laboratory also fulfil the conditions described in Nemko Document NLA -10. During the visit by the Nemko representative it was found that the Laboratory is capable of performing tests within the Scope of the Authorisation.

Accordingly, Nemko will normally accept test results from the laboratory on a partial or complete basis for certification of the products.

In order to maintain the Authorisation, the information given in the pertinent NLA-10 must be carefully followed. Nemko is to be promptly notified about any changes in the situation at the Laboratory, which may affect the basis for this Authorisation. The Authorisation may be withdrawn at any time if the conditions are no longer considered to be fulfilled.

The Authorisation is valid through 31. December 2020.

Oslo, 21 September 2018

For Nemko AS:

Jon Fredrik Mo, Nemko ELA Auditor



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SCOPE OF AUTHORIZATION

BASIC TESTS AND ASSOCIATED STANDARDS

Capability to perform a basic test implies also that any product (family) standard calling up this basic test is also within the scope if mentioned below or not.

Disturbance emissions	
Mains terminal disturbance voltage, 9kHz to 30MHz:	EN 55011 (CISPR 11), EN 55013 (CISPR 13), EN 55014-1 (CISPR 14-1), EN 55015 (CISPR 15), EN 55022 (CISPR 22)
Conducted common-mode disturbance power, 30-300 MHz:	EN 55014-1 (CISPR 14-1)
Conducted terminal disturbance, Hi-Z probe:	EN 55011 (CISPR 11), EN 55014-1 (CISPR 14-1)
Conducted discontinuous disturbance on power port:	EN 55014-1 (CISPR 14-1)
Conducted common-mode disturbance at telecom/network ports:	EN 55022 (CISPR 22)
Harmonic current emissions:	EN 61000-3-2 (IEC 61000-3-2),
Voltage fluctuations and flicker in low-voltage supply systems:	EN 61000-3-3 (IEC 61000-3-3),
Disturbance Immunity	
Electrostatic discharge immunity test:	EN 61000-4-2 (IEC 61000-4-2)
Electrical fast transient/burst immunity test:	EN 61000-4-4 (IEC 61000-4-4)
Surge immunity test:	EN 61000-4-5 (IEC 61000-4-5)
Immunity to conducted disturbances, induced by radio-frequency fields:	EN 61000-4-6 (IEC 61000-4-6)
Power frequency magnetic field Immunity test:	EN 61000-4-8 (IEC 61000-4-8)
Immunity to voltage dips, short interruptions and voltage variation, re.:	EN 61000-4-11 (IEC 61000-4-11)
Radiated audio-frequency H-field, re:	EN 55103-2
Radiated E-field, 150 kHz to 150 MHz, re:	EN 55020 (CISPR 20)



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PRODUCT-FAMILY STANDARDS

Unless specifically noted, only the sections of the standards below which are covered by the capability listing above are assumed covered by this authorisation. When the capability is expanded, more parts of the product standards will be covered.

Household appliances – emission	EN 55014-1 :2017 CISPR 14-1 :2016 EN 55014-1 :2006 +A1:09 +A2:11 CISPR 14-1 :2005 +A1:08 +A2:11
Household appliances - immunity	EN 55014-2:2015 CISPR 14-2:2015 EN 55014-2:1997 + A1:01 +A2:08 CISPR 14-2:1997 + A1 :01+A2:08
Harmonics	EN 61000-3-2 :2014 IEC 61000-3-2 :2014
Flicker	EN 61000-3-2 :2013 IEC 61000-3-2 :2013