EMC TEST REPORT

Type of equipment:	**Industrial LED information display**
Model:	DS-640x160
Marketing name:	**DS-640x160 LED information display**
Sub model:	N/A
Serial number:	DS-640x160-S8-CE-TEST
Applicant:	**Ampron OÜ**
Manufacturer:	**Ampron OÜ**
Test standards:	**LVS EN 55032:2015+AC:2017+A11:2020+A1:2021** *Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015+A1:2019)* **LVS EN 55035:2017+A11:2020** *Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016, modified)*
Test report no.:	LEITC-TR-26-165(01)
Identification no.:	ID_1838/3
Testing laboratory:	SIA LEITC
Result summary:	**Pass**

The results applies only to the sample tested, according to the carried tests, which are included in this test report.
This test report shall not be reproduced expect in full, without the written approval of EMC Laboratory SIA LEITC.

Test report prepared by:	Juta Mocāne
Test responsible:	Andris Dzenis
Laboratory responsible:	Gundars Ašmanis
Date of issue:	15.10.2026.

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1. REVISION HISTORY

Revision no.	Description	Date	Pages revised
00	First release.	13.10.2026.	N/A
01	Changed the emission classification to Class A and added an explanation of the overall EUT classification.	15.10.2026.	6

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2. LABORATORY INFORMATION

Latvian Electronic Equipment Testing Centre

Testing laboratory: **SIA LEITC**
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Accredited by: State agency Latvian National accreditation bureau (LATAK)
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E-mail: latak@latak.gov.lv
Web site: http://www.latak.gov.lv
Accreditation No: LATAK-T-397-14-2009

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3. CLIENT INFORMATION

Applicant:	Ampron OÜ
Address:	Läike tee 34, Peetri, Rae vald, Harju maakond, 75312, Estonia
Telephone number:	+372 5663 3143
Contact Person:	Gen Vagula
E-mail:	gen.vagula@ampron.eu
Web:	www.ampron.eu

Manufacturer:	Ampron OÜ
Address:	Läike tee 34, Peetri, Rae vald, Harju maakond, 75312, Estonia
Telephone number:	+372 5663 3143
Contact Person:	Gen Vagula
E-mail:	gen.vagula@ampron.eu
Web:	www.ampron.eu

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4. SUMMARY OF TEST RESULTS

Standard:	**LVS EN 55032:2015+AC:2017+A11:2020+A1:2021**
Title:	*Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015+A1:2019)*

Emissions

No.	Measurement type	Reference standard	Applicability	Result
1.	Radiated emissions (30 MHz to 1 GHz)	LVS EN 55032:2015+AC:2017+A11:2020+ A1:2021 (Class A)	Y	**Pass**
2.	Radiated emissions (1 GHz to 6 GHz)	LVS EN 55032:2015+AC:2017+A11:2020+ A1:2021 (Class B)	Y	**Pass**
3.	Conducted emissions (AC power port)	LVS EN 55032:2015+AC:2017+A11:2020+ A1:2021 (Class B)	Y	**Pass**
4.	Conducted emissions (Ethernet port)	LVS EN 55032:2015+AC:2017+A11:2020+ A1:2021 (Class B)	Y	**Pass**

Notes: Y- applied; N/A - not applicable.

Overall classification: The EUT is classified as Class A equipment in accordance with LVS EN 55032:2015+AC:2017+A11:2020+ A1:2021, as the radiated emissions test from 30 MHz to 1 GHz was assessed against Class A limits.

Deviations from standard specification: no deviations from the test standards.

Standard:	**LVS EN 55035:2017+A11:2020**
Title:	*Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016, modified)*

Immunity

No.	Measurement type	Reference standard	Applicability	Result
1.	Radio frequency radiated electromagnetic field immunity	LVS EN 61000-4-3:2006+A1:2008+IS1:2009+ A2:2010	Y	**Pass**
2.	Radio frequency common mode immunity	LVS EN 61000-4-6:2014+AC:2015	Y	**Pass**
3.	Electric fast transients/Burst	LVS EN 61000-4-4:2013	Y	**Pass**
4.	Voltage dips and interruptions	LVS EN 61000-4-11:2020+AC:2020+AC:2022	Y	**Pass**
5.	Surge	LVS EN 61000-4-5:2014+A1:2018	Y	**Pass**
6.	Electrostatic discharge	LVS EN 61000-4-2:2009	Y	**Pass**
7.	Power frequency magnetic field	LVS EN 61000-4-8:2010	Y	**Pass**

Notes: Y- applied; N/A - not applicable.

Deviations from standard specification: no deviations from the test standards.

Standard:	**LVS EN IEC 61000-3-2:2019+A1:2021+A2:2024**
Title:	*Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤16 A per phase) (IEC 61000-3-2:2018+A1:2020+AMD2:2024)*

Emissions

No.	Measurement type	Reference standard	Applicability	Result
1.	Harmonic current emissions	LVS EN IEC 61000-3-2:2019+A1:2021+ A2:2024	Y	**Pass**

Notes: Y- applied; N/A - not applicable.

Deviations from standard specification: no deviations from the test standard.

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Standard:	**LVS EN 61000-3-3:2013+A1:2019+A2:2022+AC:2022**
Title:	*Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ⩽16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013+A2:2021+COR1:2022)*

Emissions

No.	Measurement type	Reference standard	Applicability	Result
1.	Voltage changes, voltage fluctuations and flicker	LVS EN 61000-3-3:2013+A1:2019+A2:2022+ AC:2022	Y	**Pass**

Notes: Y- applied; N/A - not applicable.

Deviations from standard specification: no deviations from the test standard.

Evaluation of immunity test results	
The test results are classified in terms of loss of the function or degradation of performance of the EUT:	
A	normal performance within limits specified by manufacturer, requestor or purchaser
B	temporary loss of function or degradation of performance, which ceases after the disturbance ceases, and from which the EUT recovers its normal performance, without operator intervention
C	temporary loss of function or degradation of performance, the correction which requires operator intervention
D	temporary loss of function or degradation of performance which is not recoverable, owing damage to hardware or software, or loss of data

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5. DESCRIPTION OF EQUIPMENT UNDER TEST

5.1 Description of EUT

LEITC identification no.: ID 1838/3

LED information display for fixed installation.

No.	EUT	Model	Serial No.	Manufacturer
1.	Industrial LED information display	DS-640x160	DS-640x160-S8-CE-TEST	Ampron OÜ

5.2 Peripherals and associated equipment

No.	Description	Model	Serial No.	Manufacturer
1.	Laptop	N/A	N/A	N/A

5.3 Cables used during the testing

No.	Cable type	Shielded	Ferrite	Length used during test	Connection 1	Connection2
1.	AC power	☐	☐	2.6m	AC main	EUT
2.	Ethernet	☐	☐	2.5m + 20.0m (continuous outside the SAC)	EUT	Laptop

5.4 EUT configuration

The equipment under test (EUT) was functioning correctly during all tests, according to user's manual. The EUT was installed within the test site and configured to simulate a typical user installation according to the manufacturer instructions.

5.4.1 Operating modes/load

1.	The equipment under test (EUT) is located in SAC. The EUT is powered by AC main and is connected to a laptop located outside the SAC, which continuously runs the text sequence "IIIIIII...". Block diagram 1.

5.4.2 Modification state

1.	No modification made.

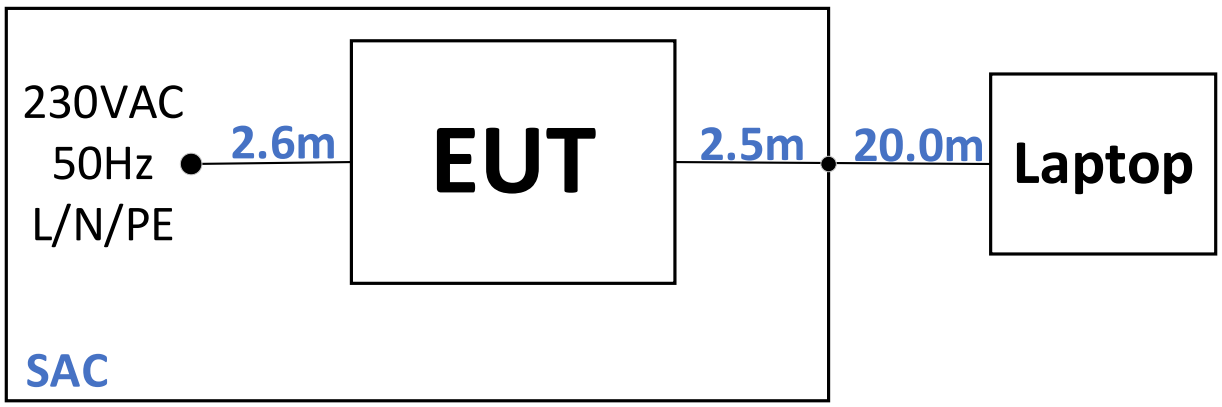
5.4.3 Radio frequency transmitters incorporated in EUT

No.	Description	Frequency	Modulation
1.	N/A	N/A	N/A

5.4.4 Software's/Applications

1.	Software - ampronled-1.7.2.

Block diagram 1:



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6. INSTRUMENTATION AND CALIBRATION

Equipment and EUT during the tests are operated in temperature range of 21^0 to 25^0C, humidity range of 40% to 60%, if not mentioned more precisely next to measurement data.

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with manufacturer's recommendations or quality manager deliverance and it is traceable under the ISO/IEC 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

The following list contains measurement equipment used for testing. The equipment conforms to the requirements of CISPR 16-1 and other standard requirements.

Radiated emissions

Device	Manufacturer	Model	S/N	Calibrated	Next calibration	Notes
Antenna	Rohde & Schwarz	HL562E	102093	28.08.2025.	28.08.2031.	Certificate of calibration No. 1020A300797836
Antenna	Rohde & Schwarz	HF906	100448	27.08.2025.	27.08.2031.	Certificate of calibration No. 1020A300797842
Preamplifier	BONN Elektronik GmbH	BLMA 0118-1M	066396D	12.01.2026.	12.01.2027.	Test report No. LEITC-M-05/2027
Receiver	Rohde & Schwarz	ESIB26	1088.7490K26	28.01.2025.	28.01.2027.	Certificate of calibration No. 202404880.00
Receiver	Gauss Instruments	TDEMI X6	1605023	16.01.2026.	16.01.2028.	Certificate of calibration No. 126601-04
Antenna mast	FRANKONIA	FBM 1-4 Rev.1	-	-	-	Not applicable.
Turntable	FRANKONIA	FCTAM01	-	-	-	Not applicable.
Test site	FRANKONIA	SAC3	-	-	-	Not applicable.
Software for EMC measurements EMC32	Rohde & Schwarz	Version 8.53.0	-	-	-	Not applicable.
Software for EMC measurements	Gauss Instruments	Version 6.12	-	-	-	Not applicable.

Conducted emissions

Device	Manufacturer	Model	S/N	Calibrated	Next calibration	Notes
LISN	Rohde & Schwarz	ENV432	100266	15.01.2025.	15.01.2027.	Certificate of calibration No. 1020A300772893
AMN	Rohde & Schwarz	ENV216	100266	13.01.2025.	13.01.2027.	Certificate of calibration No. 1020A300772898
8-Wire ISN	Rohde & Schwarz	CAT5 8158	00604	10.12.2025.	10.12.2027.	Certificate of calibration No. 1080A300821489
CDN/ISN	Rohde & Schwarz	CDN-ISN-S8-RJ45	00133	10.12.2025.	10.12.2027.	Certificate of calibration No. 1080A300821064
Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100023	22.01.2025.	22.01.2027.	Certificate of calibration No. 1080A300772896
Receiver	Rohde & Schwarz	ESIB26	1088.7490K26	28.01.2025.	28.01.2027.	Certificate of calibration No. 202404880.00
Receiver	Gauss Instruments	TDEMI X6	1605023	16.01.2026.	16.01.2028.	Certificate of calibration No. 126601-04
Test site	FRANKONIA	SAC3	-	-	-	Not applicable.
Software for EMC measurements EMC32	Rohde & Schwarz	Version 8.53.0	-	-	-	Not applicable.
Software for EMC measurements	Gauss Instruments	Version 6.12	-	-	-	Not applicable.

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Radio frequency radiated electromagnetic field immunity						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Generator	Rohde & Schwarz	IMS	1502.0009.02	25.01.2023.	25.01.2029.	Certificate of calibration No. 11A300679955
Amplifier	BONN Elektronik GmbH	BLMA 1040-60/3D	066396C	12.01.2026.	12.01.2027.	Certificate of calibration No. LEITC-M-02/2025
Amplifier	BONN Elektronik GmbH	BLWA 0810-160/100D	066396B	12.01.2026.	12.01.2027.	Certificate of calibration No. LEITC-M-02/2025
Amplifier	FRANKONIA	FLG-50F	1070	19.01.2026.	19.01.2027.	Certificate of calibration No. LEITC-M-03/2026
Antenna	Rohde & Schwarz	HL046E	4065.5960.02	12.01.2026.	12.01.2027.	Certificate of calibration No. LEITC-M-02/2026
Antenna	FRANKONIA	MAX-9	822	19.01.2026.	19.01.2027.	Certificate of calibration No. LEITC-M-03/2026
Power meter	Rohde & Schwarz	NRP-Z91	1000015	15.01.2025.	15.01.2027.	Certificate of calibration No. 1020A300772900
Power meter	FRANKONIA	PMS-1084	19902160-0101	20.01.2026.	20.01.2028.	Certificate of calibration No. 202504661.00
Field Sensor	ETS-LINDGREN	HI 6005	00074579	24.01.2025.	24.01.2027.	Certificate of calibration No. 202204694.00
Electric field probe	FRANKONIA	EFS-10	711WX81265	15.01.2026.	15.01.2028.	Certificate of calibration No. 202504660.00
Antenna	Schwarzbeck	BBHA9120E	0899	14.01.2026.	14.01.2027.	Certificate of calibration No. LEITC-M-04/2026
Test site	FRANKONIA	SAC3	-	-	-	Not applicable.
Software for EMC measurements EMC32	Rohde & Schwarz	Version 5.20.2	-	-	-	Not applicable.
Software for EMC measurements PEOVE-EMC	FRANKONIA	Version 2.0.0.6	-			Not applicable.

Radio frequency common mode immunity						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Generator	Rohde & Schwarz	IMS	1502.0009.02	25.01.2023.	25.01.2029.	Certificate of calibration No. 300679955 D-K-15195-01-00
Amplifier	BONN Elektronik GmbH	BSA 0125-150	066396A	19.01.2026.	19.01.2027.	Calibration report No. LEITC-M-01/2026
Power meter	Rohde & Schwarz	NRP-Z91	1000015	15.01.2025.	15.01.2027.	Certificate of calibration No. 1020A300772900
CDN	Liithi	L-801 M2/M3	2241	09.01.2025.	09.01.2027.	Certificate of calibration No. 10348
CDN	Liithi	L-801 T8	2248	09.01.2025.	09.01.2027.	Certificate of calibration No. 10350
CDN	Liithi	L-801 S1	2242	09.01.2025.	09.01.2027.	Certificate of calibration No. 10349
8-Wire ISN	Rohde & Schwarz	CAT5 8158	00604	10.12.2025.	10.12.2027.	Certificate of calibration No. 1080A300821489
CDN	AMETEK CTS	ST08A	56715	21.01.2025.	21.01.2027.	Certificate of calibration No. 202404883.01
CDN	AMETEK CTS	USB3.0	56815	09.01.2025.	09.01.2027.	Certificate of calibration No. 10354
CDN	AMETEK CTS	M016	56638	09.01.2025.	09.01.2027.	Certificate of calibration No. 10351
CDN	AMETEK CTS	M116	56537	09.01.2025.	09.01.2027.	Certificate of calibration No. 10352
CDN	AMETEK CTS	M516A	56856	09.01.2025.	09.01.2027.	Certificate of calibration No. 10353
BCI probe	FCC	F-120-9A	474	26.01.2023.	26.01.2029.	Certificate of calibration No. 202204754.00; No. LEITC-P-07/2021
Test site	FRANKONIA	SAC3	-	-	-	Not applicable.
Software EMC32	Rohde & Schwarz	Version 5.20.2	-	-	-	Not applicable.

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Electric fast transients EFT/Burst						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Burst/Surge generator	EM TEST	UCS500-M	V0629101638	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-PO DTD.05.11.24-UCS500M4
Motor variac	EM TEST	MV 2616	V0629101639	-	-	Not applicable.
ISMIEC for Windows software	EM TEST	Version 4.08	-	-	-	Not applicable.

Voltage dips and interruptions						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Burst/Surge generator	EM TEST	UCS500-M	V0629101638	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-PO DTD.05.11.24-UCS500M4
Motor variac	EM TEST	MV 2616	V0629101639	-	-	Not applicable.
ISMIEC for Windows software	EM TEST	Version 4.08	-	-	-	Not applicable.

Surge						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Burst/Surge generator	EM TEST	UCS500-M4	V0629101638	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-PO DTD.05.11.24-UCS500M4
Coupling/ decoupling network	EM TEST	CNV 504A	V0629101640	08.02.2023.	08.02.2029.	Certificate of calibration No. SCS-V0629101640-75221973-CNV504A
Motor variac	EM TEST	MV 2616	V0629101639	-	-	Not applicable.
Surge Generator	AMETEK CTS	Compact NX5 st-1-300-16	P1833222427	28.01.2025.	28.02.2027.	Certificate of calibration No. SCS-P1833222427-PO DTD.05.11.24-compactNX5st-1-300-16
Surge protection network	AMETEK CTS	SPN 508N1	P1745207951	-	-	Not applicable.
High Speed Coupling / Decoupling Network for Burst and Surge	AMETEK CTS	CNI 508N2	P1745207952	27.01.2025.	27.01.2027.	Certificate of calibration SCS-CNI508N2-P1745207952-CNI508N2
ISMIEC for Windows software	EM TEST	Version 4.08	-	-	-	Not applicable.
IEC.CONTROL	AMETEK CTS	Version 8.3.0	-	-	-	Not applicable.

Harmonic current emissions and voltage changes, voltage fluctuations and flicker						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Harmonic and flicker analyzer	EM TEST	DPA 500	V0629101635	22.01.2025.	22.01.2027.	Certificate of calibration No. SCS-V0629101635-PODTD051124-DPA500N
Single phase AC voltage	EM TEST	ACS 500	V0629101636	-	-	Not applicable.
NET.CONTROL	AMETEK CTS	Version 2.1.1	-	-	-	Not applicable.

Electrostatic discharge						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
ESD simulator	EM TEST	DITO	V0629101637	21.08.2024.	21.02.2027.	Certificate of calibration No. SCS-V0629101637-PO DTD 15.07.2024-Dito
Vertical coupling plane	EM TEST	DITO	-	-	-	Not applicable.

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Power frequency magnetic field						
Device	**Manufacturer**	**Model**	**S/N**	**Calibrated**	**Next calibration**	**Notes**
Burst/Surge generator	EM TEST	UCS500-M	V0629101638	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-75221973-UCS500M4
Antenna	EM TEST	MS 100	080613	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-75221973-UCS500M4
Current transformer	EM TEST	MC 2603	0506-51	28.01.2025.	28.01.2027.	Certificate of calibration No. SCS-0629101638-75221973-UCS500M4
ISMIEC for Windows software	EM TEST	Version 4.08	-	-	-	Not applicable.

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7. STATEMENT OF THE MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainties were calculated according to guidelines given in EN 55016-4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4 Uncertainly in EMC Measurements” and is documented in the SIA “LEITC” quality system according to ISO/IEC 17025. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manuals.

Measurement uncertainty			
Procedure	**Designation**	**Uncertainty**	**Device**
Conducted emissions 9kHz to 30MHz	U_{lab}	2.50dB	LISN: ENV432
Conducted emissions 9kHz to 30MHz	U_{lab}	2.36dB	LISN: ENV216
Conducted emissions 150kHz to 30MHz	U_{lab}	2.38dB	LISN: ISN-ST08A
Radiated emissions 30MHz to 1GHz	U_{lab}	4.93dB	Antenna: HL562E
Radiated emissions 1GHz to 6GHz	U_{lab}	4.91dB	Antenna: HF906
RF radiated electromagnetic field immunity 80MHz to 2GHz	U_{lab}	1.97dB	Antenna: HL046E
RF radiated electromagnetic field immunity 2GHz to 6GHz	U_{lab}	1.74dB	Antenna: MAX-9
RF common mode immunity 150kHz to 80MHz	U_{lab}	1.82dB	CDNs: CDN L-801 M2/M3; CDN L-801 T8; CDN L-801 S1; CDN ST08A; CDN USB3.0; CDN M016; CDN M116; CDN516A
Electric fast transients/Burst	U_{lab}	According to EN 61000-4-4	UCS 500 M4
Voltage dips and interruptions	U_{lab}	According to EN 61000-4-11	UCS 500 M4
Surge	U_{lab}	According to EN 61000-4-5	UCS 500 M4; Compact NX5 st-1-300-16; CNI 508N2
Electrostatic discharge	U_{lab}	According to EN 61000-4-2	Dito
Harmonic current emissions	I	According to EN 61000-3-2	DPA 500N
Voltage changes, voltage fluctuations and flicker	P_{st}	According to EN 61000-3-3	DPA 500N
Power frequency magnetic field	U_{lab}	According to EN 61000-4-8	Antenna: MS 100

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8. TEST PROCEDURES

Radiated emissions

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is a table top equipment, a non-conductive table with a height of 0,8m is used which is placed on the ground plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation support.

Auxiliary equipment and/or support equipment, if needed was placed as per EN 55032 recommendations.

All input/output cables were positioned to simulate typical usage as per EN 55032.

The EUT was connected to AC mains 230V/50Hz under the turntable shucko type socket, all other equipment was connected to the other shucko type socket under the turntable.

The antenna was placed at 3m away from EUT. Antenna height was changed in range 1-4m and EUT rotation angle in range of -180^0 to 180^0 maximize measured emissions.

Conducted emissions

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is a table top equipment, a non-conductive table with a height of 0,8m is used which is placed in a distance of 0,4m from vertical conductive plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation support in a distance of 0,4m from vertical conductive plane.

Auxiliary equipment and/or support equipment, if needed was placed as per EN 55032 recommendations.

All input/output cables were positioned to simulate typical usage as per EN 55032.

EUT mains power port was connected to LISN/AMN which is placed in a distance of 0,8m. Each EUT power lead, except ground (safety), was connected through a LISN/AMN to power source. All lines and neutral of power cord where measured.

All telecommunication and signal cables are connected through ISN which is located in distance of 0,8m. Each cable lead is measured according to used connection type.

Radio frequency radiated electromagnetic field immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is a table top equipment, a non-conductive table with a height of 0,8m is used. When EUT is floor standing equipment, it is placed on the 0,1m insulation support.

Radio frequency common mode immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation above the ground reference plane.

Coupling decoupling devices specified in test results.

The frequency range is swept, using the signal levels defined in test data with in disturbance signal 80% amplitude modulation within a 1kHz sine wave, pausing to adjust the RF signal level or to switch coupling devices as necessary. The rate of sweep shall not exceed 1,5e-3 decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value. The dwell time at each frequency is not less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies e.g. clock frequencies and harmonics or frequencies of dominant interest shall be analyzed separately.

Electric fast transients EFT/Burst immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation above the ground reference plane.

On AC mains power ports built-in coupling decoupling network is used to couple EFT/Burst disturbance voltage. For DC/telecommunication/signal ports capacitive clamp is used. Polarity of EFT/Burst disturbance voltage is changed during the test. Duration of test is not less than 1min, however, to avoid synchronization, the test time may be broken down into six 10s burst separated by a 10s pause. It is not intended that the burst is synchronized with EUT signals.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

Voltage dips and interruptions immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation above the ground reference plane.

The EUT for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10s minimum time between each event. Each representative mode of operation is tested. The angle of applied dips/interruptions is defined 0^0 if not specified in test results. For EUT with more than one power cord, each power cord is tested individually.

Surge immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation above the ground reference plane.

Surge generator was connected to reference ground plane via low impedance connection. If not mentioned, for DC power ports and interconnection lines and signal/telecommunication lines five positive and five negative surge pulses applied, for AC power line ports five negative and five positive pulses applied each at 0^0, 90^0, 180^0, 270^0 phase angle. Time between successive pulses was 1min or less if not otherwise specified.

Electrostatic discharge immunity

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,5mm above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,5mm insulation above the ground reference plane.

Electrostatic discharges are applied as contact discharge and air discharge, discharge to vertical and horizontal coupling plane. The discharges are applied only to such points and surfaces of the EUT which are accessible to personnel during normal usage.

Test is performed as single discharges on preselected points at least ten single discharges on both polarities. Between successive discharges a time interval of 1s is used. In case of contact discharge the tip of discharge electrode touch the EUT before the discharge switch is operated. In case of air discharge, the round tip of the discharge electrode is approached as fast as possible (without causing mechanical damage) to touch the EUT discharge switch is operated before the tip is approached.

At least ten single contact discharges are applied to horizontal and vertical coupling plate.

Harmonic current emissions and voltage changes, voltage fluctuations and flicker

The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1m insulation above the ground reference plane.

The equipment is supplied in series with shunts resistance from a source having the same nominal voltage and frequency as the rated supply voltage, and frequency of the equipment.

Power frequency magnetic field immunity

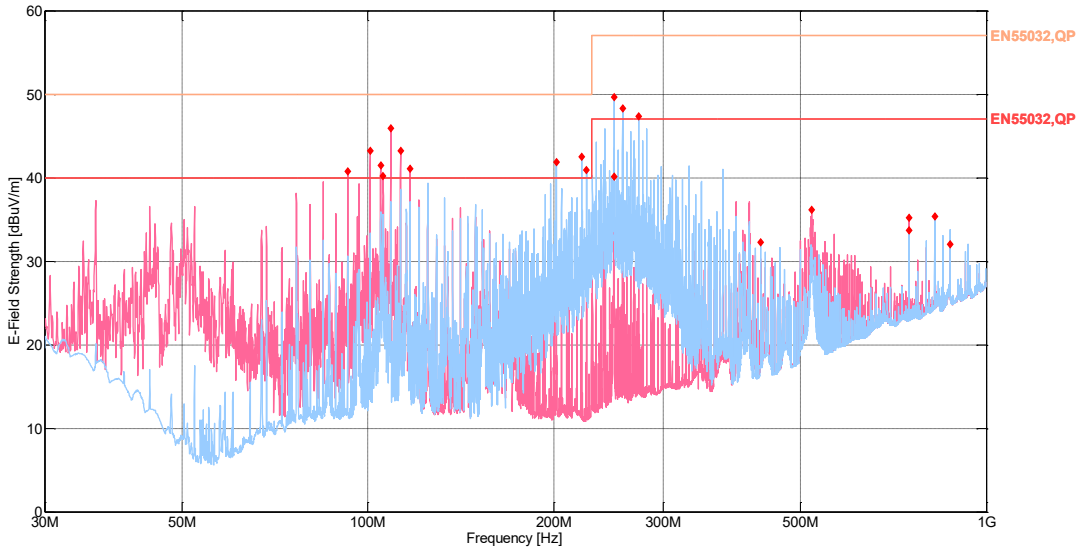
The equipment was set up as per the test configuration to simulate typical usage per user's manual. When the EUT is table top equipment, it is placed on table 0,1 m above ground reference plane. When EUT is floor standing equipment, it is placed on the 0,1 m insulation above the ground reference plane.

EUT is exposed to magnetic field in all axes. EUT is placed inside magnetic dipole antenna of 1m x1m dimensions. Duration of test is defined in test results.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9. TEST RESULTS

	9.1 Radiated emissions (30 MHz to 1 GHz)	Plot	



Trace	Start	Step	Stop	IF Bandwidth	Detector	Dwell time	Attenuation	Notes
Scan 1	30.0 MHz	50.0 kHz	1.0 GHz	120kHz	QP	1.0 s	0	
Scan 2	30.0 MHz	50.0 kHz	1.0 GHz	120kHz	QP	1.0 s	0	

Scan1: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 1.0 s QP, Att 0dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
92.745 MHz	40.73	50.00	9.27	V	100	165	12.27	
100.796719 MHz	43.23	50.00	6.77	V	125	135	12.97	
104.843437 MHz	41.49	50.00	8.51	V	100	135	13.29	
105.76125 MHz	40.16	50.00	9.84	V	150	-180	13.36	
108.848438 MHz	45.89	50.00	4.11	V	100	120	13.45	
112.895156 MHz	43.18	50.00	6.82	V	175	-105	13.44	
116.941875 MHz	41.06	50.00	8.94	V	100	45	13.29	
249.982969 MHz	40.10	57.00	16.90	V	125	-75	12.47	
522.114375 MHz	36.14	57.00	20.86	V	125	45	18.74	
749.982188 MHz	35.21	57.00	21.79	V	100	30	22.10	
874.971563 MHz	31.99	57.00	25.01	V	100	-15	23.63	

Scan2: 30.0 MHz, 50.0 kHz, 1.0 GHz; IF:120kHz, 1.0 s QP, Att 0dB

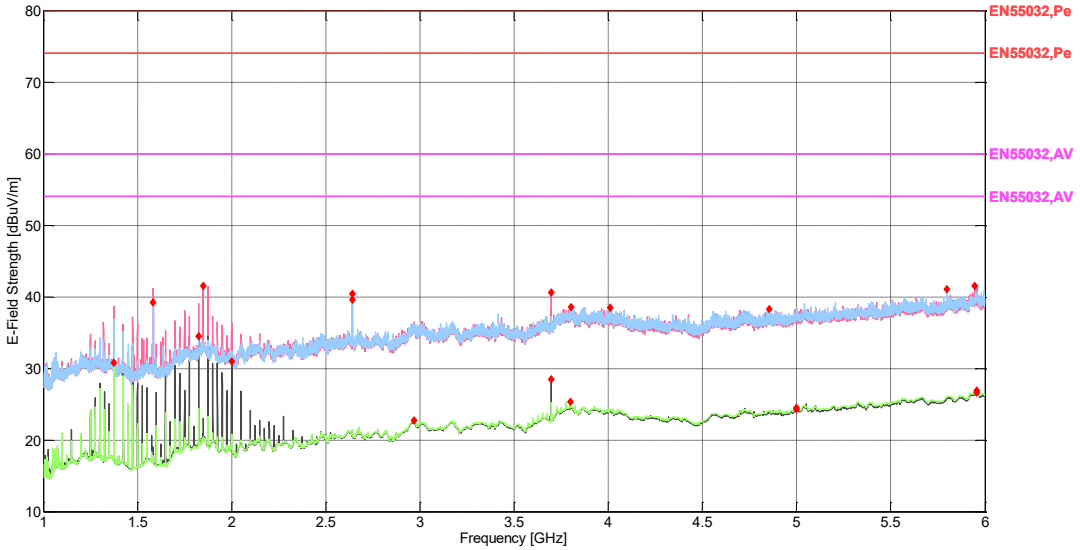
f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
201.630937 MHz	41.85	50.00	8.15	H	100	0	11.35	
221.781094 MHz	42.53	50.00	7.47	H	150	0	11.31	
225.786094 MHz	40.95	50.00	9.05	H	200	-15	11.68	
249.982969 MHz	49.62	57.00	7.38	H	100	0	12.47	
258.076406 MHz	48.29	57.00	8.71	H	125	-15	12.87	
274.179844 MHz	47.35	57.00	9.65	H	125	0	13.43	
431.459531 MHz	32.23	57.00	24.77	H	100	-120	17.13	
749.982188 MHz	33.69	57.00	23.31	H	100	-75	22.10	
824.9925 MHz	35.37	57.00	21.63	H	100	0	23.25	

QP detector (H); QP detector (V); QP detector (table); Limit line (Class A); Limit line (Class B)

Date:	02.10.2026.	**Test engineer:**	Andris Dzenis		
Method:	LVS EN 55032:2015+AC:2017+A11:2020+A1:2021 (Class A)				
Chamber:	SAC3	**Antenna:**	HL562E	**Port:**	Enclosure
Distance:	3m	**Height:**	1-4m	**Mode:**	1
Angle:	$-180^0..+180^0$	**Polarization:**	V+H	**Mod. State:**	1
Notes:					
File:	2026.10.02 HL562E #01 Ampron AT				

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

	9.2 Radiated emissions (1 GHz to 6 GHz)	Plot



Trace	Start	Step	Stop	IF Bandwidth	Detector	Dwell time	Attenuation	Notes
Scan 1	1.0 GHz	400.0 kHz	6.0 GHz	1MHz	MaxPeak	1.0 s	10	
Scan 2	1.0 GHz	400.0 kHz	6.0 GHz	1MHz	Average	1.0 s	10	
Scan 3	1.0 GHz	400.0 kHz	6.0 GHz	1MHz	MaxPeak	1.0 s	10	
Scan 4	1.0 GHz	400.0 kHz	6.0 GHz	1MHz	Average	1.0 s	10	

Scan1: 1.0 GHz, 400.0 kHz, 6.0 GHz; IF:1MHz, 1.0 s MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
1.84805875 GHz	41.50	74.00	32.50	V	100	0	-9.08	
2.6400475 GHz	39.61	74.00	34.39	V	100	-30	-8.14	
3.6960325 GHz	40.64	74.00	33.36	V	100	0	-3.54	
4.010425 GHz	38.50	74.00	35.50	V	100	150	-2.37	
5.94650875 GHz	41.49	74.00	32.51	V	100	30	-0.59	

Scan2: 1.0 GHz, 400.0 kHz, 6.0 GHz; IF:1MHz, 1.0 s Average, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
1.82503 GHz	34.48	54.00	19.52	V	100	15	-9.75	
1.999915 GHz	30.96	54.00	23.04	V	100	0	-8.89	
3.6960325 GHz	28.45	54.00	25.55	V	100	15	-3.54	
4.99999375 GHz	24.51	54.00	29.49	V	100	15	-2.03	
5.9548525 GHz	26.65	54.00	27.35	V	100	165	-0.58	

Scan3: 1.0 GHz, 400.0 kHz, 6.0 GHz; IF:1MHz, 1.0 s MaxPeak, Att 10dB

f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
1.5840625 GHz	39.26	74.00	34.74	H	100	165	-12.72	
2.6400475 GHz	40.40	74.00	33.60	H	100	-30	-8.14	
3.8035 GHz	38.57	74.00	35.43	H	100	-150	-2.61	
4.8561475 GHz	38.27	74.00	35.73	H	100	-75	-1.82	
5.79832375 GHz	41.09	74.00	32.91	H	100	-150	-1.00	

Scan4: 1.0 GHz, 400.0 kHz, 6.0 GHz; IF:1MHz, 1.0 s Average, Att 10dB

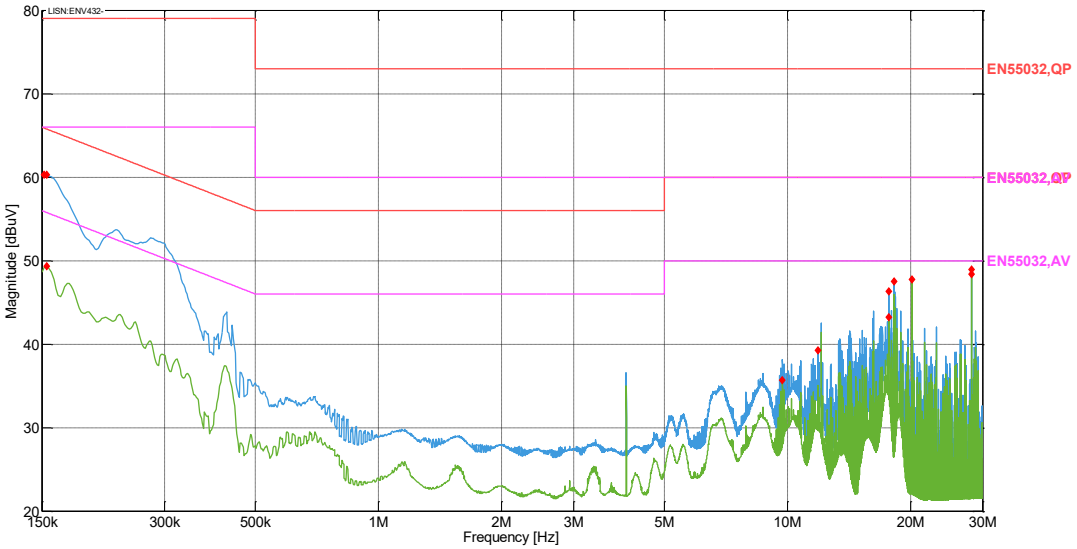
f	Mag [dBuV/m]	Limit	Diff	Polarization	Height [cm]	Angle [°]	Trans	Comment
1.37480125 GHz	30.78	54.00	23.22	H	100	120	-13.23	
2.969125 GHz	22.72	54.00	31.28	H	100	-135	-6.23	
3.79982875 GHz	25.33	54.00	28.67	H	100	45	-2.73	
4.99999375 GHz	24.32	54.00	29.68	H	100	-165	-2.03	
5.95585375 GHz	26.88	54.00	27.12	H	100	-165	-0.59	

MaxPeak detector (H); MaxPeak detector (V); AV detector (H); AV detector (V); MaxPeak Limit line; AV Limit line

Date:	02.10.2026.	**Test engineer:**	Andris Dzenis		
Method:	LVS EN 55032:2015+AC:2017+A11:2020+A1:2021 (Class B)				
Chamber:	SAC3	**Antenna:**	HF906	**Port:**	Enclosure
Distance:	3m	**Height:**	1m	**Mode:**	1
Angle:	$-180^0..+180^0$	**Polarization:**	V+H	**Mod. State:**	1
Notes:					
File:	2026.10.02 HF906 #01 Ampron AT				

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

	9.3 Conducted emissions	Plot	



Trace	Start	Step	Stop	IF Bandwidth	Detector	Dwell time	Attenuation	Notes
Scan 1	150.0 kHz	4.0 kHz	30.0 MHz	9kHz	QP	15.0 s	10	
Scan 2	150.0 kHz	4.0 kHz	30.0 MHz	9kHz	Average	15.0 s	10	

Scan1: 150.0 kHz, 4.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s QP, Att 10dB

f	Mag [dBuV]	Limit	Diff	Phase	Trans	Comment
152.085938 kHz	60.31	65.89	5.58	L1	20.22	
154.171875 kHz	60.25	65.77	5.52	L1	20.22	
11.8917422 MHz	39.26	60.00	20.74	L1	20.85	
17.6927344 MHz	46.32	60.00	13.68	N	21.35	
18.2434219 MHz	47.48	60.00	12.52	N	21.38	
28.2246328 MHz	48.41	60.00	11.59	L1	21.21	

Scan2: 150.0 kHz, 4.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s Average, Att 10dB

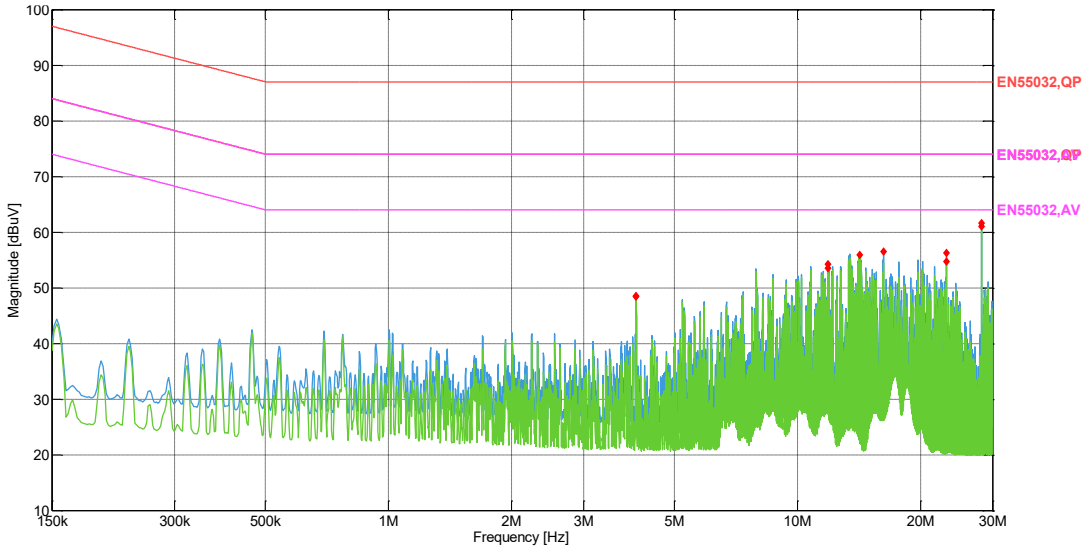
f	Mag [dBuV]	Limit	Diff	Phase	Trans	Comment
154.171875 kHz	49.31	55.77	6.46	L1	20.22	
9.728625 MHz	35.68	50.00	14.32	L1	20.75	
17.6927344 MHz	43.19	50.00	6.81	N	21.35	
20.1603984 MHz	47.72	50.00	2.28	L1	21.15	
28.2246328 MHz	48.92	50.00	1.08	L1	21.21	

QP detector; ◆ QP detector (table); AV detector; ◆ AV detector (table); QP Limit line; AV Limit line; L- Live, N-Neutral

Date:	01.10.2026.	**Test engineer:**	Andris Dzenis		
Method:	LVS EN 55032:2015+AC:2017+A11:2020+A1:2021 (Class B)				
Chamber:	SAC3	**Port:**	AC power	**Mode:**	1
LISN:	ENV432	**Attenuator:**	10dB	**Mod. State:**	1
Notes:					
File:	2026.10.01 ENV432 #01 Ampron AT				

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

	9.4 Conducted emissions	Plot



Trace	Start	Step	Stop	IF Bandwidth	Detector	Dwell time	Attenuation	Notes
Scan 1	150.0 kHz	4.0 kHz	30.0 MHz	9kHz	QP	15.0 s	10	
Scan 2	150.0 kHz	4.0 kHz	30.0 MHz	9kHz	Average	15.0 s	10	

Scan1: 150.0 kHz, 4.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s QP, Att 10dB

f	Mag [dBuV]	Limit	Diff	Trans	Comment
4.03192969 MHz	48.54	74.00	25.46	19.79	
11.8917422 MHz	54.19	74.00	19.81	19.97	
16.2284062 MHz	56.46	74.00	17.54	20.00	
23.1286875 MHz	56.22	74.00	17.78	20.12	
28.2246328 MHz	61.00	74.00	13.00	20.16	

Scan2: 150.0 kHz, 4.0 kHz, 30.0 MHz; IF:9kHz, 15.0 s Average, Att 10dB

f	Mag [dBuV]	Limit	Diff	Trans	Comment
4.03192969 MHz	48.37	64.00	15.63	19.79	
11.8917422 MHz	53.52	64.00	10.48	19.97	
14.2133906 MHz	55.87	64.00	8.13	19.96	
23.1286875 MHz	54.73	64.00	9.27	20.12	
28.2246328 MHz	61.57	64.00	2.43	20.16	

QP detector; QP detector (table); AV detector; AV detector (table); QP Limit line; AV Limit line; L- Live, N-Neutral

Date:	01.10.2026.	**Test engineer:**	Andris Dzenis		
Method:	LVS EN 55032:2015+AC:2017+A11:2020+A1:2021 (Class B)				
Chamber:	SAC3	**Port:**	Ethernet	**Mode:**	1
LISN:	ISN-S8-RJ45	**Attenuator:**	10dB	**Mod. State:**	1
Notes:					
File:	2026.10.01 ISN-S8-RJ45 #01 Ampron AT				

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.5 Radio frequency radiated electromagnetic field immunity

Date:	05.10.2026.		
			RESULT
Port(s):	Enclosure	**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-3:2006+A1:2008+IS1:2009+A2:2010	A	A

Oper. mode	Mod. State	EUT orientation (Front Left Right Rear)	Antenna	Step size (%)	Frequency (MHz)	Sweep time (s)	Polarization	Field strength (V/m)	Modulation (%AM//kHz)	Notes
1	1	☒ ☒ ☒ ☒	HL046E	1	80-2000	1	V; H	3	80% 1kHz	#1
1	1	☒ ☒ ☒ ☒	MAX-9	1	2000-6000	1	V; H	3	80% 1kHz	#1
1	1	☒ ☒ ☒ ☒	HL046E	1	1800	10	V; H	3	80% 1kHz	#1
1	1	☒ ☒ ☒ ☒	MAX-9	1	2600	10	V; H	3	80% 1kHz	#1
1	1	☒ ☒ ☒ ☒	MAX-9	1	3500	10	V; H	3	80% 1kHz	#1
1	1	☒ ☒ ☒ ☒	MAX-9	1	5000	10	V; H	3	80% 1kHz	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.6 Radio frequency common mode immunity

Date:	06.10.2026.

RESULT

Port(s):	AC power	**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-6:2014+AC:2015	A	A
Port(s):	DC power	**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-6:2014+AC:2015	A	N/A[1]
Port(s):	Analog/digital data	**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-6:2014+AC:2015	A	A

Notes:

[1] – The EUT does not have a DC power port.

Oper. mode	Mod. State	Port	Coupler	Frequency (MHz)	Sweep time (s)	Step size (%)	Level (V_{rms})	Modulation (%AM//kHz)	Notes
1	1	AC power	CDN L-801 M2/M3	0.15-10	1	1	3	80% 1kHz	#1
1	1	AC power	CDN L-801 M2/M3	10-30	1	1	3 to 1	80% 1kHz	#1
1	1	AC power	CDN L-801 M2/M3	30-80	1	1	1	80% 1kHz	#1
1	1	Ethernet	CDN L-801 T8	0.15-10	1	1	3	80% 1kHz	#1
1	1	Ethernet	CDN L-801 T8	10-30	1	1	3 to 1	80% 1kHz	#1
1	1	Ethernet	CDN L-801 T8	30-80	1	1	1	80% 1kHz	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.7 Electric fast transients EFT/Burst immunity

Date:	07.10.2026.			
				RESULT
Port(s):	AC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-4:2013		B	A
Port(s):	DC power (CCC)		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-4:2013		B	N/A[1]
Port(s):	Analog/digital data (CCC)		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-4:2013		B	A

Notes:
[1] – The EUT does not have a DC power port.
CCC - Capacitive Coupling Clamp method

Oper. mode	Mod. State	Port	Level (kV)	Polarity	Frequency (kHz)	Burst duration/period (ms)	Test duration (min)	Notes
1	1	AC power (L)	1	+/-	5	15/300	1	#1
1	1	AC power (N)	1	+/-	5	15/300	1	#1
1	1	AC power (PE)	1	+/-	5	15/300	1	#1
1	1	AC power (L+N)	1	+/-	5	15/300	1	#1
1	1	AC power (N+PE)	1	+/-	5	15/300	1	#1
1	1	AC power (L+PE)	1	+/-	5	15/300	1	#1
1	1	AC power (L+N+PE)	1	+/-	5	15/300	1	#1
1	1	Ethernet	0.5	+/-	5	15/300	1	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.8 Voltage dips/interruption immunity

Date:	07.10.2026.			
				RESULT
Port(s):	AC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-11:2020+AC:2020+AC:2022	0% 10ms	B	A
Port(s):	AC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-11:2020+AC:2020+AC:2022	70% 500ms	C	A
Port(s):	AC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-11:2020+AC:2020+AC:2022	0% 5000ms	C	B

Oper. mode	Mod. State	Voltage (%)	Period (ms)	Angle applied (deg)	Number of pulses applied	Interval between pulses (s)	Notes
1	1	0	10	0, 180	3; 3	10	#1
1	1	70	500	0, 180	3; 3	10	#1
1	1	0	5000	0, 180	3; 3	10	#2

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.
#2	The EUT turns OFF/ON. After the test returns back to normal operating mode without operator intervention.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.9 Surge immunity

Date:	07.10.2026.			
				RESULT
Port(s):	AC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-5:2014+A1:2018		B	A
Port(s):	DC power		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-5:2014+A1:2018		B	N/A[1]
Port(s):	Analog/digital data		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-5:2014+A1:2018		B	A

Notes:
[1] – The EUT does not have a DC power port.

Oper. mode	Mod. State	Port	Level (kV)	Polarity	Angle applied (deg)	Waveform (T_r/T_h) µs	Number of pulses applied	Interval between pulses (s)	Notes
1	1	AC power (L-N)	0.5; 1.0	+	90	1.2/50 (8/20)	5; 5	15	#1
1	1	AC power (L-N)	0.5; 1.0	-	270	1.2/50 (8/20)	5; 5	15	#1
1	1	AC power (N-PE)	0.5; 1.0; 2.0	-	90	1.2/50 (8/20)	5; 5; 5	15	#1
1	1	AC power (N-PE)	0.5; 1.0; 2.0	+	270	1.2/50 (8/20)	5; 5; 5	15	#1
1	1	AC power (L-PE)	0.5; 1.0; 2.0	+	90	1.2/50 (8/20)	5; 5; 5	15	#1
1	1	AC power (L-PE)	0.5; 1.0; 2.0	-	270	1.2/50 (8/20)	5; 5; 5	15	#1
1	1	Ethernet (Lines-GND)	0.5; 1.0	+/-	-	1.2/50 (8/20)	5; 5	15	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

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9.10 Electrostatic discharge immunity

Date:	08.10.2026.			
				RESULT
Port:	Enclosure		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-2:2009	Contact discharge	B	A
Port:	Enclosure		**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-2:2009	Air discharge	B	A

Notes:

Oper. mode	Mod. State	Applied to:	+4kV cont.	-4kV cont.	+2kV air	-2kV air	+4kV air	-4kV air	+8kV air	-8kV air
1	1	Vertical coupling plane	#1	#1						
1	1	Horizontal coupling plane	#1	#1						
1	1	Enclosure	#1	#1						
1	1	Screws	#1	#1						
1	1	Cable inlet	#1	#1						
1	1	Diodes			#1	#1	#1	#1	#1	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

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9.11 Power frequency magnetic field immunity

Date:	08.10.2026.

RESULT

Port(s):	Enclosure	**Recm'd Crit**	**Ach'd Crit**
Method:	LVS EN 61000-4-8:2010	A	A

Oper. mode	Mod. State	Antenna	Frequency (Hz)	Polarization	Field strength (A/m)	Test duration (min)	Notes
1	1	MS100	50	X	1	5	#1
1	1	MS100	50	Y	1	5	#1
1	1	MS100	50	Z	1	5	#1

#1, 2, 3... see Observations Table below

Notes	Comments and Observations
#1	No effect observed.

The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

9.12 Harmonic current emissions

Date:	02.10.2026.		
			RESULT
Port(s):	AC power	**EUT**	**Power Source**
Method:	LVS EN IEC 61000-3-2:2019+A1:2021+A2:2024	PASS	PASS
Fundamental Current:	0.057 A	**Active input power:**	10.641 W [1]
Classification:	Class A	**Circuit power factor:**	0.371 [1]

Notes:
[1] – Absolute value.

Oper. mode	Mod. State	Average and Maximum harmonic current results								
		H_n	Average (100%/150%*)				Maximum (150%)				Result
			I_{rms} (A)	I_{rms} (%)	Limit	Result	I_{rms} (A)	I_{rms} (%)	Limit	Result	
1	1	1	0.052				0.057				
		2	0.001	0.131	1.080	n/a	0.002	0.117	1.620	n/a	PASS
		3	0.037	1.618	2.300	PASS	0.044	1.272	3.450	PASS	PASS
		4	0.003	0.611	0.430	n/a	0.003	0.474	0.645	n/a	PASS
		5	0.036	3.168	1.140	PASS	0.043	2.486	1.710	PASS	PASS
		6	0.002	0.553	0.300	n/a	0.002	0.461	0.450	n/a	PASS
		7	0.035	4.543	0.770	PASS	0.041	3.549	1.155	PASS	PASS
		8	0.001	0.605	0.230	n/a	0.002	0.529	0.345	n/a	PASS
		9	0.033	8.157	0.400	PASS	0.038	6.361	0.600	PASS	PASS
		10	0.002	0.930	0.184	n/a	0.002	0.779	0.276	n/a	PASS
		11	0.031	9.251	0.330	PASS	0.036	7.176	0.495	PASS	PASS
		12	0.001	0.849	0.153	n/a	0.002	0.725	0.230	n/a	PASS
		13	0.029	13.599	0.210	PASS	0.033	10.443	0.315	PASS	PASS
		14	0.001	0.936	0.131	n/a	0.001	0.749	0.197	n/a	PASS
		15	0.026	17.351	0.150	PASS	0.030	13.164	0.225	PASS	PASS
		16	0.001	0.814	0.115	n/a	0.001	0.707	0.173	n/a	PASS
		17	0.023	17.560	0.132	PASS	0.026	13.155	0.199	PASS	PASS
		18	0.001	1.271	0.102	n/a	0.002	1.001	0.153	n/a	PASS
		19	0.020	16.858	0.118	PASS	0.022	12.443	0.178	PASS	PASS
		20	0.001	1.094	0.092	n/a	0.001	0.918	0.138	n/a	PASS
		21	0.017	15.668	0.107	PASS	0.018	11.332	0.161	PASS	PASS
		22	0.001	1.064	0.084	n/a	0.001	0.923	0.125	n/a	PASS
		23	0.014	14.492	0.098	PASS	0.015	10.192	0.147	PASS	PASS
		24	0.001	1.057	0.077	n/a	0.001	1.020	0.115	n/a	PASS
		25	0.012	12.842	0.090	PASS	0.012	8.853	0.135	PASS	PASS
		26	0.001	0.843	0.071	n/a	0.001	0.974	0.106	n/a	PASS
		27	0.009	10.659	0.083	PASS	0.009	7.309	0.125	PASS	PASS
		28	0.001	1.041	0.066	n/a	0.001	1.113	0.099	n/a	PASS
		29	0.006	8.283	0.078	PASS	0.007	6.177	0.116	PASS	PASS
		30	0.001	1.037	0.061	n/a	0.001	1.092	0.092	n/a	PASS
		31	0.005	6.308	0.073	n/a	0.006	5.253	0.109	PASS	PASS
		32	0.001	1.127	0.058	n/a	0.001	1.145	0.086	n/a	PASS
		33	0.003	4.289	0.068	n/a	0.004	4.199	0.102	n/a	PASS
		34	0.001	1.245	0.054	n/a	0.001	1.283	0.081	n/a	PASS
		35	0.002	2.562	0.064	n/a	0.003	3.102	0.096	n/a	PASS
		36	0.001	1.509	0.051	n/a	0.001	1.404	0.077	n/a	PASS
		37	0.002	2.479	0.061	n/a	0.002	2.507	0.091	n/a	PASS
		38	0.001	1.267	0.048	n/a	0.001	1.260	0.073	n/a	PASS
		39	0.002	3.050	0.058	n/a	0.003	2.892	0.087	n/a	PASS
		40	0.001	1.512	0.046	n/a	0.001	1.429	0.069	n/a	PASS

Notes
Harmonic currents less than 0.6 % of the input current measured under the test conditions, or less than 5 mA, whichever is greater, are disregarded.
* Application of limits for average is 100% except for odd harmonics from 21 to 39, where 150% applies.

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9.13 Voltage changes, voltage fluctuations and flicker

Date:	02.10.2026.

RESULT

Port(s):	AC power	**Analysis:**
Method:	LVS EN 61000-3-3:2013+A1:2019+A2:2022+AC:2022	PASS

AC power:

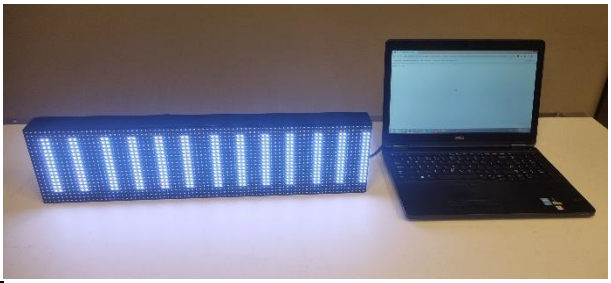
Flicker Measurements				**Operating mode:**	1
	P_{lt}	**Max P_{st}**	**Max D_c**	**Max D_{max}**	**Max T_{max}**
Line 1:	0.012	0.027	0	0.258	0
Limits:	0.65	1	3.3	4	0.5
Results:	PASS	PASS	PASS	PASS	PASS

Notes	Comments and Observations

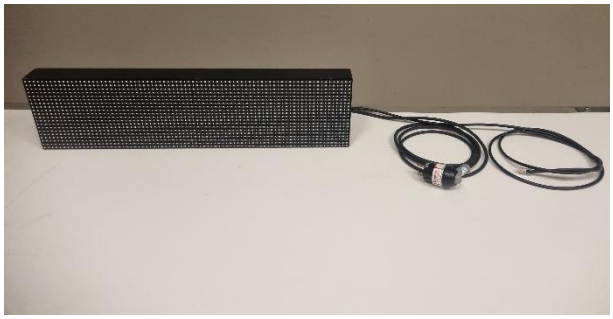
The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

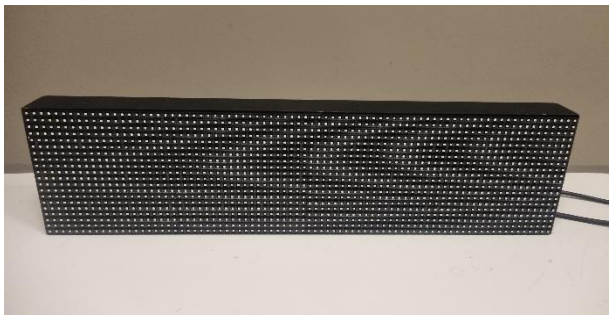
10. TEST PHOTOGRAPHS

Test setup:

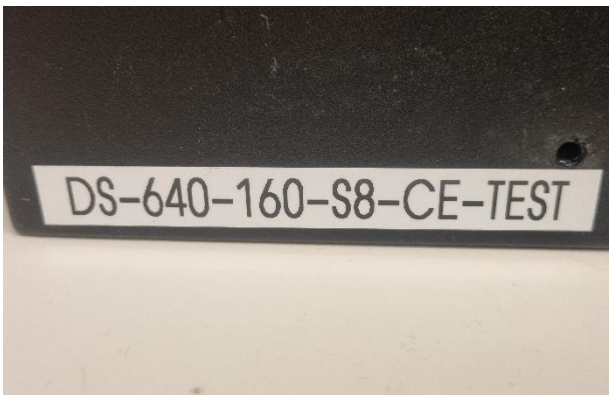


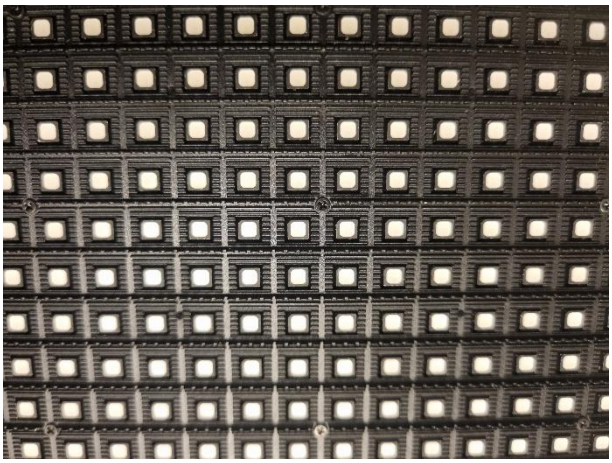
EUT-equipment under test:











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Cables used during the testing:

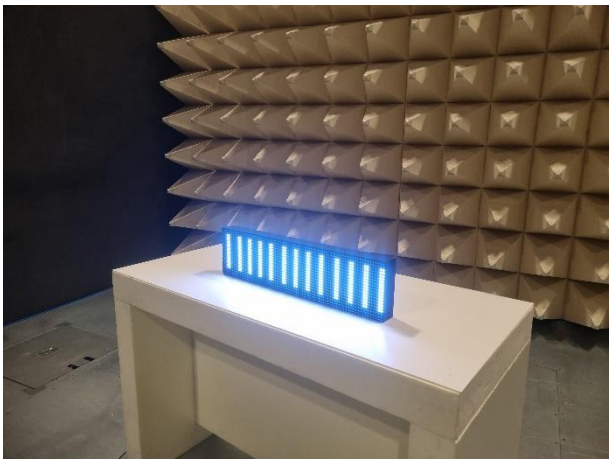




Radiated emissions (30MHz-1GHz):

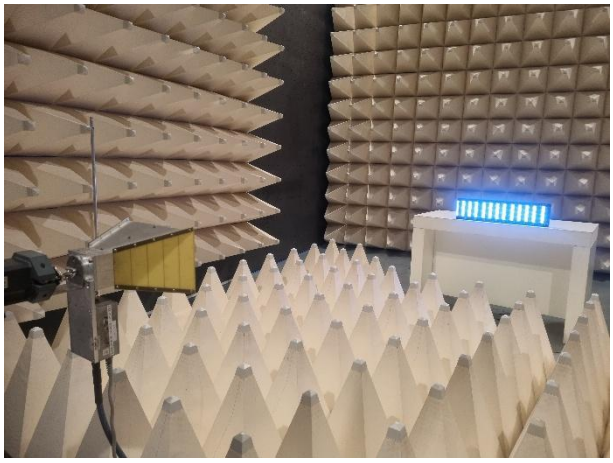
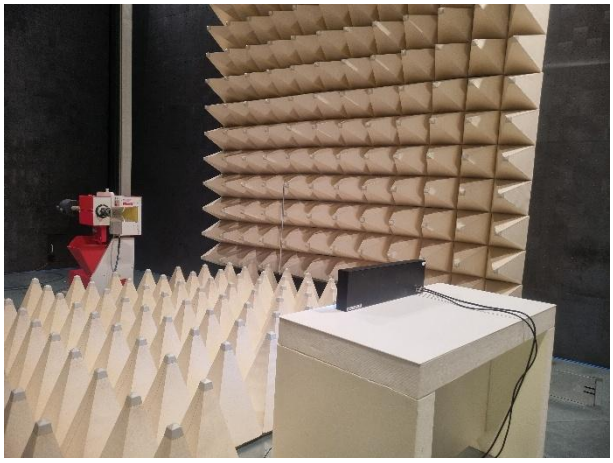




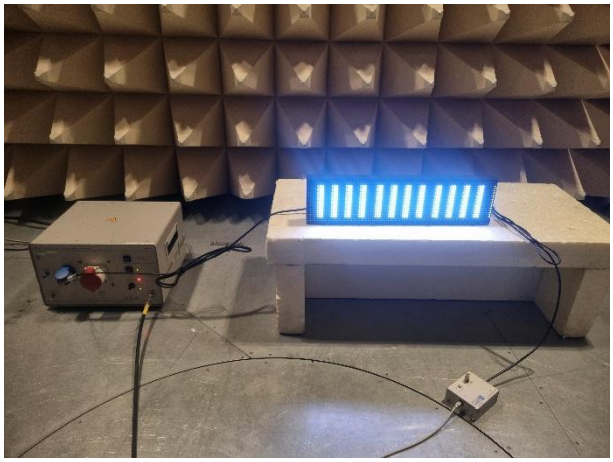
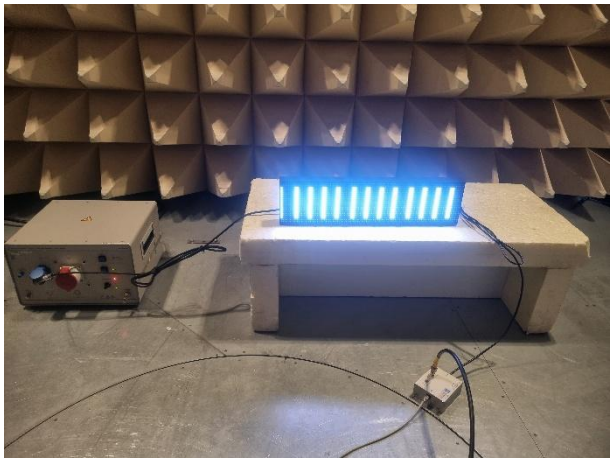


The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

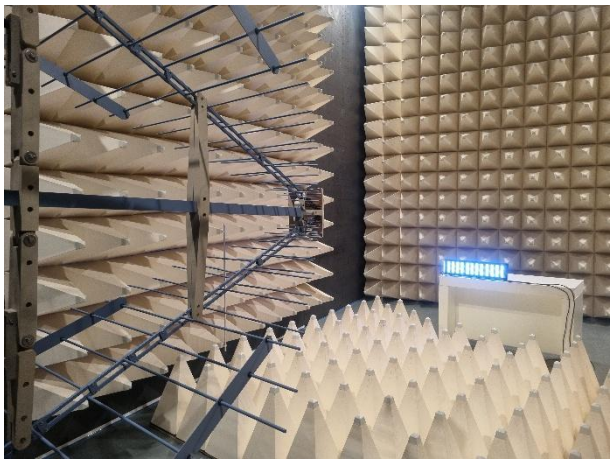
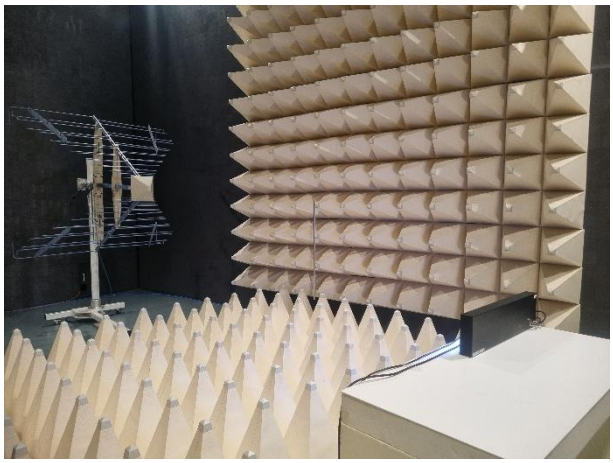
Radiated emissions (1GHz-6GHz):

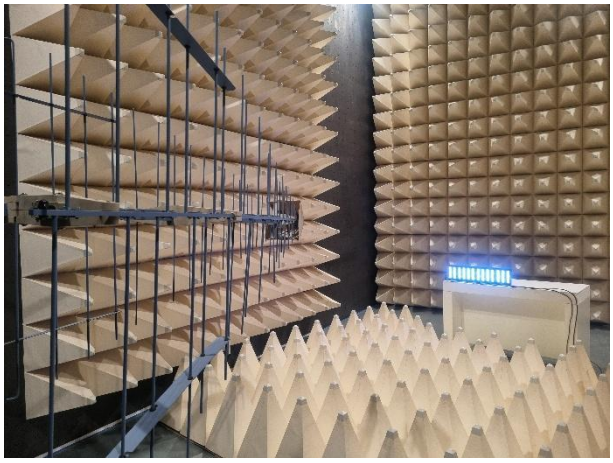
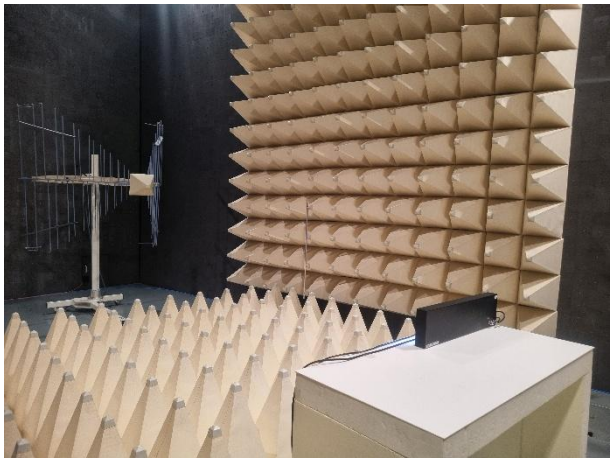
Conducted emissions:

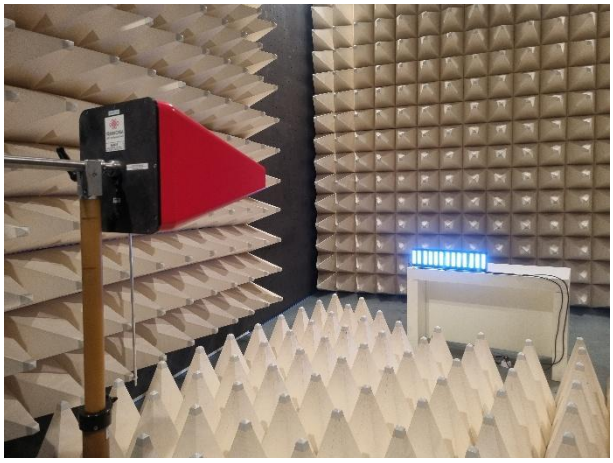
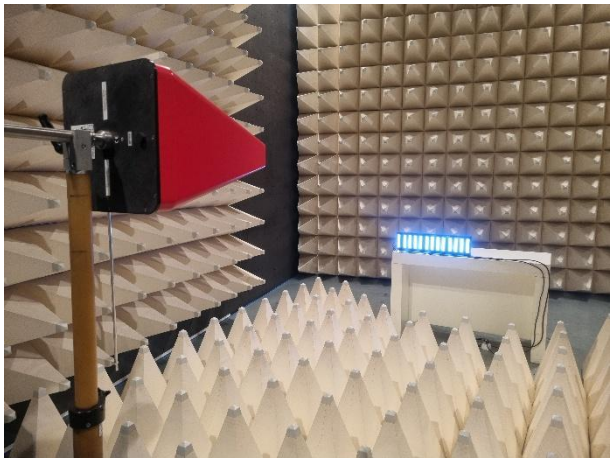
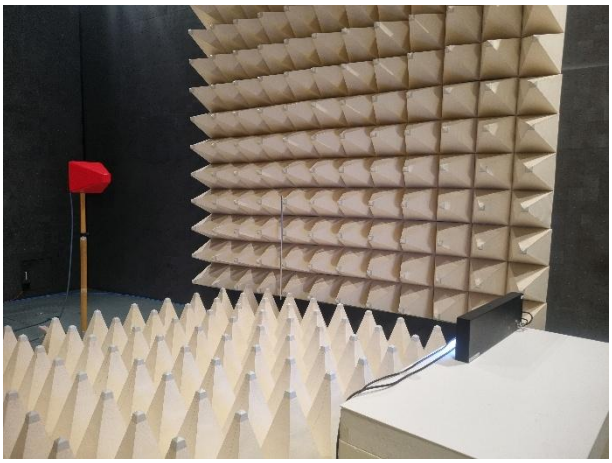
Radio frequency radiated electromagnetic field immunity (80MHz-2GHz):

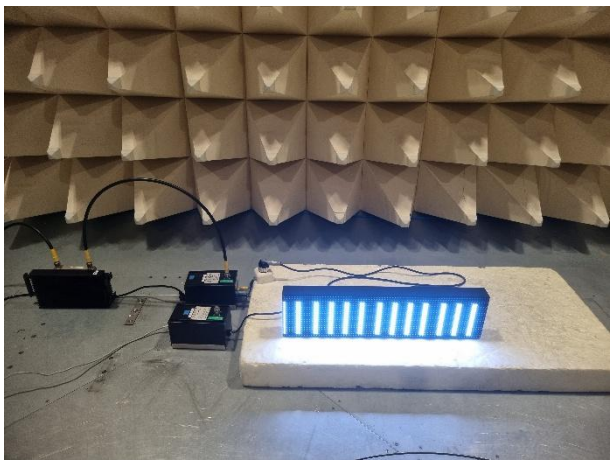
The test results relate only to the sample tested. This test report shall not be reproduced except in full, without the written approval of SIA LEITC.

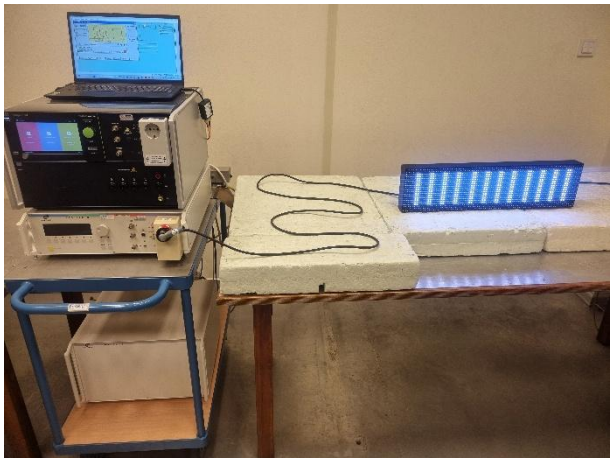
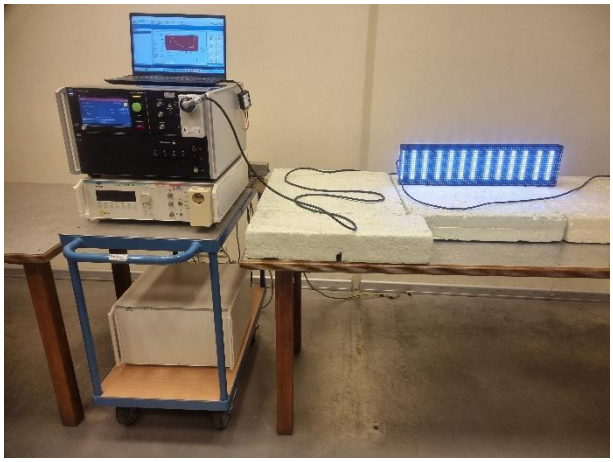
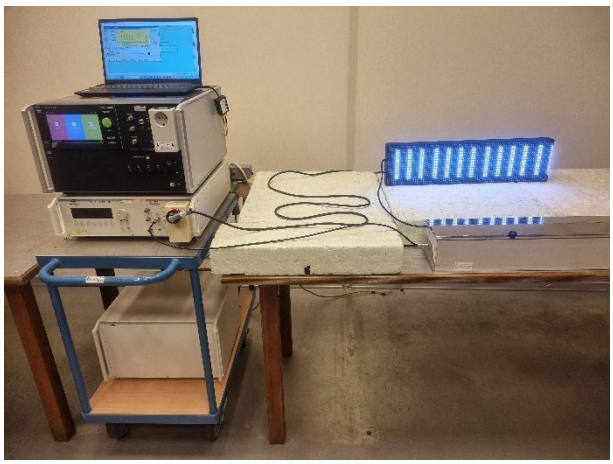
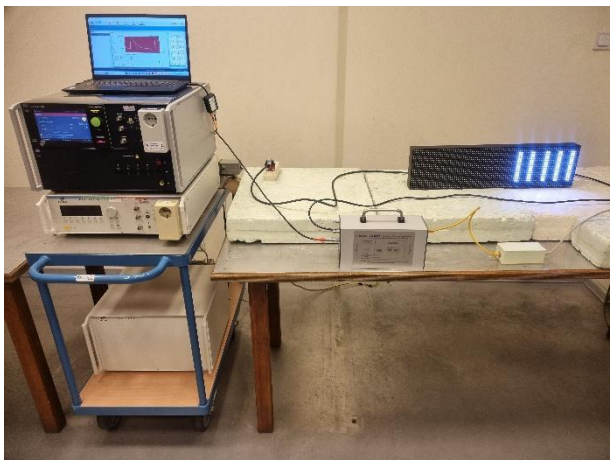
Radio frequency radiated electromagnetic field immunity (2GHz-6GHz):

Radio frequency common mode immunity:

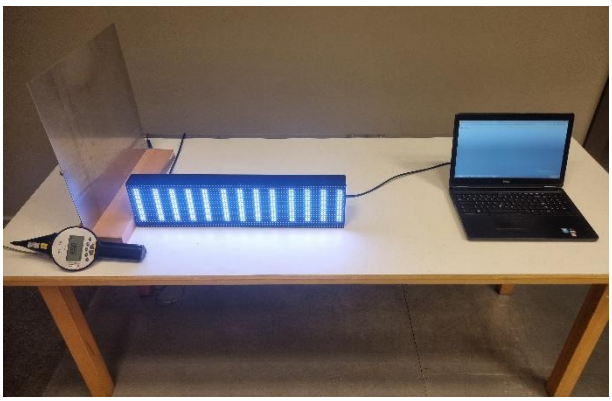



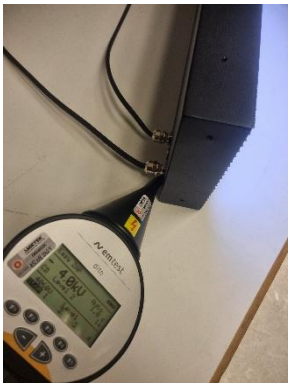
Electric fast transients EFT/Burst immunity, voltage dips and interruptions immunity, surge immunity:

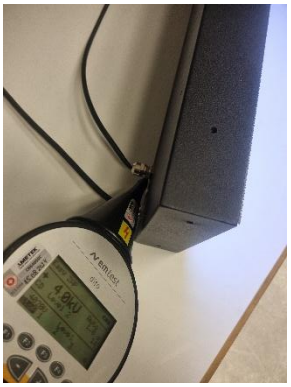





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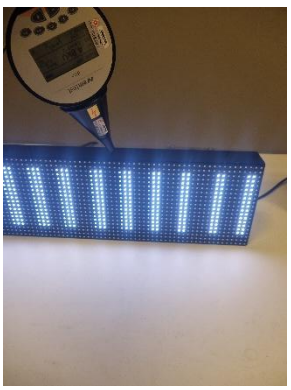
Electrostatic discharge immunity:





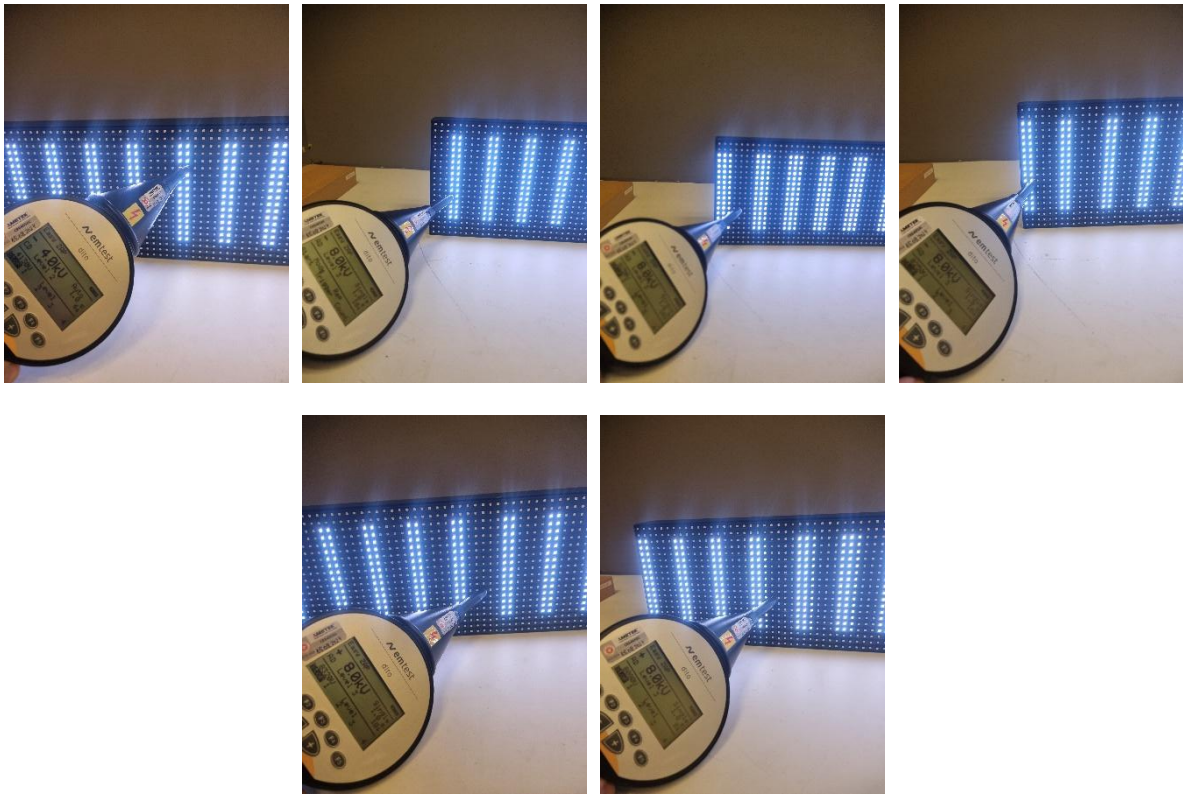


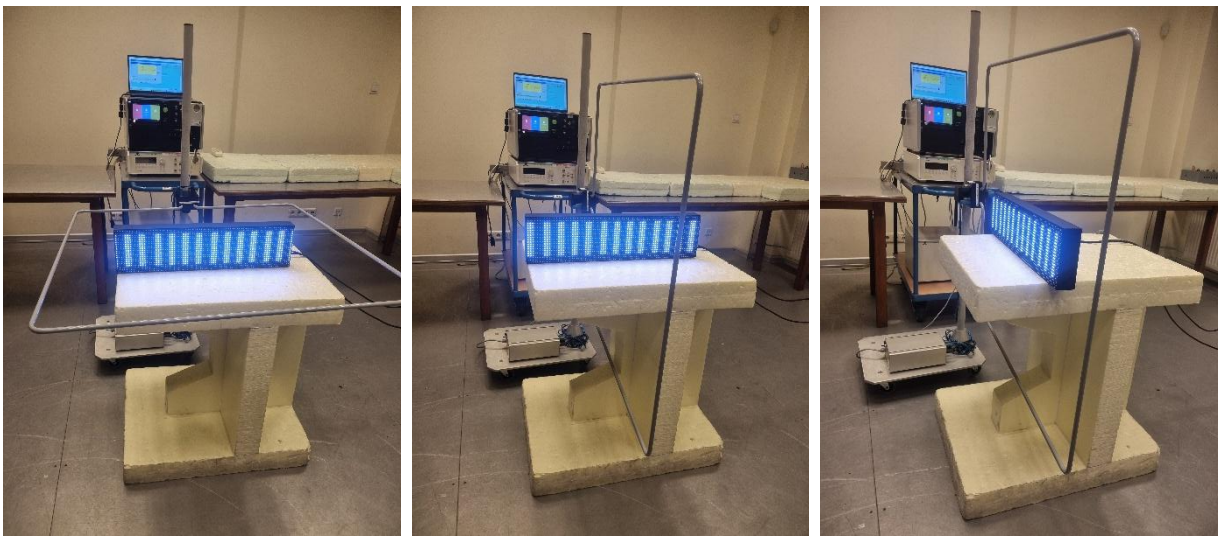





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Power frequency magnetic field immunity:



Harmonic current emissions and voltage changes, voltage fluctuations and flicker:



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